United States
Department of
Agriculture

Forest
Service

Watershed & Air
Management

Southwestern
Region

February 1989

General Ecosystem Survey

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General Ecosystem Survey

United States Department of Agriculture
Forest Service
Southwestern Region

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Watershed and Air Management
Regional Office

February 1989

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It is appropriate to recognize the contributions of H. Gassaway Brown III (retired). Gass was instrumental in developing or modifying several classification systems (landform, physiographic, fluvial and lacustrine) used in general ecosystem survey. His developement of a computer program, linked directly with the relational data base for general ecosystem survey, allowed for the efficient evaluation and interpretation of data associated with terrestrial ecosystems. Finally, the "Ferret's" knowledge of geology of the southwest was invaluable toward completion of this survey and report.

SPECNO	DATA
1	
2	PRVE, QUTU2, BASALT OUTCROP
3	FOSP2, QUTU2, GRANITE OUTCROP
4	CHLI2, POFR2
5	PRVE, CAHO3, BADLANDS
6	QUAR,CUARG,GRANITE/RHYOLITE
7	QUAR,CUARG,GRANITE/RHYOLITE
8	PRVE, QUTU2, BASALT OUTCROP
9	QUAR,PSMEG,ROCK OUTCROP
10	QUTU2
11	PRVE, CAHO3, BADLANDS
12	CHLI2, POFR2
13	PRVE, CAHO3, BADLANDS
14	FOSP2, QUTU2, GRANITE OUTCROP
15	CEMI2
16	FOSP2, QUTU2, GRANITE OUTCROP
17	QUTU2
18	CEMI2, LATR
19	QUAR,CUARG,GRANITE/RHYOLITE
20	QUTU2
21	CEFL2, POFR2
22	CHLI2, POFR2
23	FOSP2, QUTU2, GRANITE OUTCROP
24	CEMI2, LATR, BADLANDS
25	CEMI2, LATR, BADLANDS
26	CEFL2, POFR2
27	CEMI2, LATR
28	CEMI2, LATR
29	QUTU2
30	PRVE, QUTU2, BASALT OUTCROP
31	CEMI2, FOSP2
32	CEMI2, FOSP2
33	CEMI2, LATR, BADLANDS
34	PRVE, QUTU2, BASALT OUTCROP
35	QUTU2
36	
37	FRDE
38	CEMI2, LATR, BADLANDS
39	FOSP2, QUTU2, GRANITE OUTCROP
40	FRDE
41	FOSP2, QUTU2, GRANITE OUTCROP
42	QUTU2
43	CEMI2, FOSP2
44	FOSP2, QUTU2, GRANITE OUTCROP
45	CEFL2, POFR2
46	CEMI2, FOSP2
47	CEMI2, LATR, BADLANDS
48	QUTU2
49	FRDE
50	QUTU2
51	FRDE
52	CEMI2, LATR

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Ecosystem Survey

Ecosystem survey (ES) utilizes a component approach for classification of ecosystems (terrestrial and aquatic), and a holistic approach for (1) integration of components throught direct gradient analysis; (2) mapping; and (3) interpretation of ecosystems. This approach to survey is hierarachical with respect to classification levels of components and mapping intensities. Ecosystem survey contains information on the ecological relationship that exists between terrestrial and aquatic ecosystems. There was a concious effort to remain within recognized concepts contained in the literature and avoid the temptation to invent 'new terms' in an already glutted field.

Concepts for ecosystem survey are well founded in the literature. The following excerpts provide a basic insight into ecosystem survey:

"Although the indissoluble bond between an organism and its physical environment was recognized by Hippocrates as an autoecologic concept, it was not until 1894 that V. V. Dokuchaev developed the idea as a synecologic concept." (Daubermire, 1968, p.8).

"An explicite formulation was performed by Dokuchaev in 1898 in an obscure Russian journal unknown to western writers. He set down:

$$soil = f(cl, o, p)tr$$

in which cl is regional climate, o vegetation and animals, p the 'geologic substratum,' and tr relative age (youthfulness, maturity, and senility). In 1930 Shaw published a 'potent factor' formula which comprised erosion and deposition in addition to cl, o, p, tr. Shortly thereafter, Tuxen, a botanist, expressed vegetation (v) as a function of climate, soil (S), and man (oh), as v = f(cl, S, oh).

The identity of these symbols hides serious inconsistencies. Aside from the uncertanity of whether the geologic substratum is the initial state, soil and vegetation are confounded. Dokuchaev and Shaw write soil = f(vegetation) and Tuxen writes vegetation = f(soil). The Gordian knot that vegetation acts upon soil and soil on vegetation has not been untied." (Jenny, 1980, p.203).

"In the broadest sense, there are two major types of ecosystems--terrestrial and aquatic. In turn each of these major types can be recognized as consisting of subdivisions; thus one can distinguish fresh water from marine aquatic ecosystems, and several major types of terrestrial ecosystems such as prairies, forest, tundra, etc. The former are seperated on the basis of major chemical differences (i.e. salt content), the latter generally on the basis of dominant type of vegetation (grasses, trees, etc.)." (Kormondy, 1969, p.115).

"Taxonomy is the part of classification that is concerned primarily with relationships. Classifications are contrivances made by man to suit their purposes." (USDA, 1975, p.7).

"The soil taxonomic unit is a vertical system. It occupies no space. The soil mapping unit is a horizontal system. It occupies space in the landscape. The class of any categorical level (any taxonomic unit) can be used to define and name soil mapping units. The soil mapping units, however, may have many other soil taxa within its boundary, other than in the name." (Bartelli, 1979, p. 95-96).

"That is as noted above, that (1) the lower elevation limit of a given species of plant on the moisture-temperature gradient is controlled by deficient moisture, and (2) that the upper elevational limit is controlled by deficient heat. It is beyond reasonable doubt that these findings are correct." (Lowe, 1964, p. 89).

Purpose of the General Ecosystem Survey

The purpose of the General Ecosystem Survey (GES) is to:

1. systematically gather information about terrestrial ecosystems (TE) and aquatic ecosystems (AE) on National Forest.
2. apply this knowlege to land and water resource management plans and activities.

To meet these objectives, GES was used to classify and map terrestrial (land), fluvial (stream), and lacustrine (lake) ecosystems as integrated units. The information in the GES will provide for:

1. Broad assessment of capability and present condition for these ecosystems (i. e. watershed condition, grazing capability, biodiversity etc.).
2. Level I Riparian Area Survey and Evaluation.
3. Appropriate information for the State General Soil Geographic Data Base program of the Soil Conservation Service (1:250000).
4. Generalized map for the Level 3 Terrestrial Ecosystem Survey (1:24000).
5. Information useful in setting policy and predicting where investment into certain programs will be ecologicaly sound or desirable.
6. Hierarchical framework for ecologically based surveys that will meet Regional and Forest information needs (aggregation or disaggregation).
7. Direction of research (WEPP etc.) toward major areas of uniformity and concern.
8. Information used in evaluation of response functions over wide geographic areas (i. e. water yield, cumulative effect etc.).
9. Basis for establishing threshold values (mininum ground cover, climatic limits etc.) for ecosystems.
10. Information suitable for a geographic information system (GIS).

Classification

A hierarchy is an organization of components into orders and ranks, each subordinate to the one above. At any point within the hierarchy individual components must admit to both aggregation into larger, more generalized orders and dissaggregation into smaller more specific orders. It allows a logical, systematic route of travel both up and down through the hierarchy.

The following diagram illustrates the framework for the hierarchical classification system for ecosystems:

```
                                   Ecosystems
                                       |
                   ------------------------------------------
                   |                                        |
                   |                                        |
            Terrestrial                                   Aquatic
      ----------------------                       ----------------
      |        |          |                        |              |
      |        |          |                        |              |
      Soil     Vegetation Not-soil                 Fluvial        Lacustrine
      -------- ---------- --------                 -------        ----------
      |        |          |                        |              |       |
      |        |          |                        |              |       |
      Orders   Formations Badlands                 Streams        Lakes   Ponds
```

by soil moisture and temperature regimes. This results in the preliminary continuum. Twenty-six climatic parameters are presently being correlated with each gradient. Several of these relationships are depicted by the following diagram which represents an HSC climate category:

```
                          Climate
Dry                       |        |                                Wet
<-----------------------  |   TE   | ------------------------------->
Hot                       V        V                                Cold
                       Soil <-----> Vegetation

1       2       3        4        5        6        7        8

                Grassland Woodland Forest   Forest   Forest   Alp Tun   LIFE FORM
                    1800     2100     2400     2700     3200     3800   ELEVATION (m)
                      13       10        6        5        2       -2   MAST (deg C)
                      30       40       56       66       76       86   MAP (cm)
                Ustic    Ustic    Ustic    Udic     Udic     Udic      SMR
                Mesic    Mesic    Frigid   Frigid   Cryic    Pergelic  STR
```

Alp Tun-Alpine tundra, MAST-Mean annual soil temperature, MAP-Mean annual precipitation SMR-Soil moisture regime, STM-Soil temperature regime

Climates are continuous, therefore, only arbitrary boundaries can be established. Plant tolerance can be used to establish reliable and meaningful segments along gradients. It is recognized that lower limits of a plant are primarily controlled by deficient moisture and upper limits by deficient heat. The correlation of indicator plants with the soil moisture and temperature regimes results in further refinement of the segments. Indicator plants were correlated with these categories through field measurements. This relationship is depicted in the following diagram which continues to build upon the information previously presented:

```
                          Climate
Dry                       |        |                                Wet
<-----------------------  |   TE   | ------------------------------->
Hot                       V        V                                Cold
                       Soil <-----> Vegetation

1       2       3        4        5        6        7        8

                Grassland Woodland Forest   Forest   Forest   Alp Tun   LIFE FORM
                    1800     2100     2400     2700     3200     3800   ELEVATION (m)
                      13       10        6        5        2       -2   MAST (deg C)
                      30       40       56       66       76       86   MAP (cm)
                Ustic    Ustic    Ustic    Udic     Udic     Udic      SMR
                Mesic    Mesic    Frigid   Frigid   Cryic    Pergelic  STR
                                                                       INDICATOR PLANT
                Bogr2-------->
                         Jumo------>      Psmeg------>
                                  Pipos-------->          Kobe--->
                                                  Pien---->
```

Bogr2-Bouteloua gracilis, Jumo-Juniperous monosperma, Pipos-Pinus ponderosa scopulorum , Psmeg-Pseudotsuga menziesii glauca, Pien-Picea engelmannii, Kobe-Kobresia bellardi

The exception to this concept occurs with hydric soils. Soil temperature is the major separating factor since soil moisture is a constant. The following diagram would represent this variation:

```
                          Climate
Wet                     |         |                              Wet
<----------------------- |   TE    | ------------------------------>
Hot                     V         V                              Cold
                     Soil <-----> Vegetation
```

An essential task consists of integrating soil categories (Soil Taxonomy) to form individual terrestrial ecosystems. The resultant alignment of terrestrial ecosystems is a continuum of categories of climax vegetation and their associated soils. These ecosystems are arranged sequentially in columns, numbered 1-8 along a climatic gradient representing hot-dry to cold-wet extremes. Within each climatic column, ecosystems can be related to primary climax and disclimax classes. It is possible to move from climax to disclimax or vice-versa within limits indicated in columns, but not between columns. The following diagram adds the illustration of direct gradient analysis to the information already discussed:

```
                          Climate
Dry                     |         |                              Wet
<----------------------- |   TE    | ------------------------------>
Hot                     V         V                              Cold
                     Soil <-----> Vegetation

1      2      3         4       5       6       7       8

             Grassland Woodland Forest  Forest  Forest  Alp Tun   LIFE FORM
                 1800     2100    2400    2700    3200    3800    ELEVATION (m)
                   13       10       6       5       2      -2    MAST (deg C)
                   30       40      56      66      76      86    MAP (cm)
             Ustic     Ustic   Ustic   Udic    Udic    Udic      SMR
             Mesic     Mesic   Frigid  Frigid  Cryic   Pergelic  STR
             Bogr2-------->                                      INDICATOR PLANT
                       Jumo------>     Psmeg------>
                                Pipos-------->          Kobe--->
                                                Pien---->
             Ss/Sh     Ss/Sh   Ss/Sh   Ss/Sh   Ss/Sh   Ss/Sh    PARENT MATERIAL
                                                                 PRIMARY CLIMAX
                                                                  Edaphic
             Bogr2     Jumo    Pipos   Psmeg   Pien    Kobe       Ind. Plant
             Argillic  Argillic Argillic Argillic Argillic Cambic  Diag.Horizon
             Ochric    Ochric  Ochric  Ochric  Ochric  Umbric     Epipedon
             Haplu-    Haplu-  Eutro-  Glosso- Cryo-   Cryum-     Great Group
              stalf     stalf   boralf  boralf  boralf  brept
             Aridic    Typic   Typic   Eutric  Typic   Pergelic   Subgroup
                                                                 DISCLIMAX
                                                                  Edaphic/fire
             Bogr2     Bogr2   Fear2   Bran    Feth    Kobe       Ind. Plant
             Argillic  Argillic Argillic Argillic Argillic Cambic  Diag.Horizon
             Ochric    Ochric  Mollic  Mollic  Pachic  Umbric     Epipedon
             Haplu-    Haplu-  Argi-   Glosso- Cryo-   Cryum-     Great Group
              stalf     stalf   boroll  boroll  boroll  brept
             Aridic    Typic   Typic   Typic   Pachic  Pergelic   Subgroup
```

Ss/Sh-Sandstone/Shale

By holding the different soil forming factors constant, a series of climo, topo, litho and chronosequences can be related to these gradients. Climosequence are readily available since TES uses climate as an initial separation. Toposequences correlate closely with gradients on landforms such as valley plains. Lithosequences are apparent when observing shallow soils along these same gradients. Chronosequences can be discerned by evaluating the effect of time required to move between successional plant stages and the consequent influence on soil properties.

Landform influences the design and function of mapping units and is used as a descriptor of the map unit. The following examples illustrate relationships between TE and landforms that occur in column six:

Climax	TE		Landform
	Soil	Veg	
Primary			
Edaphic	Eutric Glossoboralfs	Psmeg	El Plain, Hill, Mt
Topographic	Eutric Glossoboralfs	Pifl2	Mt-south aspect
Topo-edaphic	Aquic Ustifluvents	Poan3	Valley Plain
Disclimax			
Edaphic/fire	Pachic Argiborolls	Bran	El Plain, Hill, Mt
Topo/fire	Eutric Glossoboralfs	Quga	Mt-south aspect

El Plain-Elevated Plain, Mt-Mountain, Psmeg-Pseudotsuga menziesii glauca, Pifl2- Pinus flexius, Poan3-Populus angustifolia, Bran-Bromus anomalous

Lithology plays a direct role when associated with soil parent material and soil depth. For example, soils forming from parent material derived from acid igneous rocks are commonly shallow soils at lower elevations and weakly developed throughout the gradient. This can be seen in the following illustration describing granite parent material and can be compared with the sandstone/shale parent material described in the previous examples:

```
                          Climate
Dry                       |        |                              Wet
<-----------------------  |   TE   | ------------------------------->
Hot                       V        V                              Cold
                       Soil <-----> Vegetation

1      2      3        4        5        6        7        8

             Grassland Woodland Forest   Forest   Forest   Alp Tun   LIFE FORM
                 1800     2100     2400     2700     3200     3800   ELEVATION (m)
                   13       10        6        5        2       -2   MAST (deg C)
                   30       40       56       66       76       86   MAP (cm)
             Ustic     Ustic    Ustic    Udic     Udic     Udic      SMR
             Mesic     Mesic    Frigid   Frigid   Cryic    Pergelic  STR
             Bogr2-------->                                          INDICATOR PLANT
                       Jumo------>      Psmeg------>
                                Pipos-------->            Kobe--->
                                                   Pien---->
             Ss/Sh     Ss/Sh    Ss/Sh    Ss/Sh    Ss/Sh    Ss/Sh    PARENT MATERIAL
                                                                     PRIMARY CLIMAX
                                                                      Edaphic
             Argillic  Argillic Argillic Argillic Argillic Cambic     Diag.Horizon
             Ochric    Ochric   Ochric   Ochric   Ochric   Umbric    Epipedon
             Haplu-    Haplu-   Eutro-   Glosso-  Cryo-    Cryom-    Great Group
```

stalf	stalf	boralf	boralf	boralf	brept	
Aridic	Typic	Typic	Eutric	Typic	Pergelic	Subgroup
Granite	Granite	Granite	Granite	Granite	Granite	PARENT MATERIAL
						PRIMARY CLIMAX
						Edaphic
None	None	None	Cambic	Cambic	Cambic	Diag.Horizon
Ochric	Ochric	Ochric	Ochric	Ochric	Umbric	Epipedon
Ustor-	Ustor-	Ustor-	Dystro-	Cryo-	Cryum-	Great Group
thent	thent	thent	chrept	chrept	brept	
Lithic	Lithic	Typic	Typic	Dystric	Pergelic	Subgroup

Phases of terrestrial ecosystems form the mapping units of the TES. Phases are attributes of the soil or features outside of the soil which affect use and management. Phase classes include such things as surface texture, soil depth, slope, accelerated erosion, and flooding characteristics.

Interpretations based upon the TE properties (physical, chemical and biological) are used to assess limitations and suitabilities for growing specific plants and other uses that impact TE(s) and require appreciable investment. A TES forms the initial ecological base from which functional surveys (existing vegetation, etc.) can be easily evaluated against potentials. This approach facilitates monitoring the status of present and potential productivity of the land. Production potentials can be depicted along gradients as follows:

```
                          Climate
Dry                       |       |                          Wet
<-----------------------  |  TE   | ------------------------------>
Hot                       V       V                          Cold
                     Soil <-----> Vegetation
```

1	2	3	4	5	6	7	8	
		Grassland	Woodland	Forest	Forest	Forest	Alp Tun	LIFE FORM
		1800	2100	2400	2700	3200	3800	ELEVATION (m)
		13	10	6	5	2	-2	MAST (deg C)
		30	40	56	66	76	86	MAP (cm)
		Ustic	Ustic	Ustic	Udic	Udic	Udic	SMR
		Mesic	Mesic	Frigid	Frigid	Cryic	Pergelic	STR
		Bogr2-------->						INDICATOR PLANT
			Jumo------>		Psmeg------>			
				Pipos-------->			Kobe--->	
						Pien---->		
		Ss/Sh	Ss/Sh	Ss/Sh	Ss/Sh	Ss/Sh	Ss/Sh	PARENT MATERIAL
								PRIMARY CLIMAX.
								Edaphic
		Bogr2	Jumo	Pipos	Psmeg	Pien	Kobe	Ind. Plant
		Argillic	Argillic	Argillic	Argillic	Argillic	Cambic	Diag.Horizon
		Ochric	Ochric	Ochric	Ochric	Ochric	Umbric	Epipedon
		Haplu-	Haplu-	Eutro-	Glosso-	Cryo-	Cryum-	Great Group
		stalf	stalf	boralf	boralf	boralf	brept	
		Aridic	Typic	Typic	Eutric	Typic	Pergelic	Subgroup
		15-40	15-40	15-40	15-40	15-40	15-40	% Slope
		cbl	cbl	cbl	cbl	cbl	cbl	texture
		deep	deep	deep	deep	deep	deep	soil depth
		600	275	250	150	50	250	Forage lb/ac/yr

		70	65			Pipos SI
			70			Psmeg SI
				75		Pien SI
6.7	6.7	9.0	9.0	6.7	2.2	Fact T t/ha/yr

SI-Site Index, Fact T-Soil loss tolerance factor

Use of this system allows for consistent naming of map units for soils and climax vegetation. Correlation is a method of checking and verifying names. Correlation ensures that TES interpretations will be uniform and meaningful within the Southwestern Region. Regional soils staff provides in-Service correlation of TES. The soil component of this system will be correlated for the purpose of fitting within the National Cooperative Soil Survey program.

The two common levels of survey and associated taxonomic categories are as follows:

Intensity	Soil	Vegetation
Level 4	Subgroup	Series
Level 3	Family	Subseries

Production potentials for terrestrial ecosystems are maintained in the Terrestrial Ecosystem Data Base (TEDB). Maps, in conjunction with mapping legends, provide for geographic location and for spatial variability of terrestrial ecosystems. TES maps are digitized and a relational data base is being completed. Technical guides and standards for TES are in FSH 2509.18.

There are two intensities of progressive TES common to Region 3. The first type is the General Terrestrial Ecosystem Survey (GTES), which is available for the Region at a mapped scale of 1:250,000. It is suitable for broad assessment and evaluation of projects impacting large areas and also provides the soils information for the State General Soil Map (a Soil Conservation Service project). The other intensity level is the multilevel survey (primarily Lewel 3) is complete on three Forests (6 million acres) at a mapped scale of 1:24,000. This information is suitable for initial evaluation of projects, but must be verified by the Forest Soil Scientist before proceeding to actual use.

In summary, TES is a systematic and comprehensive effort to classify, describe, map and interpret Southwestern ecosystems. Ecosystems incorporate climate, soils, and vegetation as primary elements and landform, lithology, and management phases to augment description, mapping and interpretations. The TES program began in the early 1970's and today extends to the entire Southwest Region. This ecological approach is used in forest planning, information storage and retrieval, extrapolation of knowledge, and developing management implications.

Aquatic Ecosystem Survey

Aquatic ecosystem survey (AES) consists of the systematic classification of components (fluvial and lacustrine), intergration (gradient analysis), mapping and interpretation of these ecosystems.

For the purpose of the general ecosystem survey (GES), fluvial ecosystem (FE) map units are limited to perennial water courses. A strong relationship exists between FE map units and their associated TE map units. Thus, there is a line of continuity linking climate, soils, vegetation and perennial streams.

Perennial water courses are catagorized into three zones defined by the dominating geomorphic process. Zone one is the zone of erosion; zone two is the zone of

transportation; zone three is the zone of deposition. Zone one streams are typified as steep gradient streams occupying narrow, V-shaped declivities showing little or no flood plain development. Soils associated with zone one generally have an aquic moisture regime as demonstrated through the presence of hydrophytic vegetation. Zone two streams generally have gentle gradients with moderate to well developed flood plains. Typically zone three streams and rivers traverse relatively flat, broad valleys with extensive flood plain development. Soils associated with zones two and three have aquic or intergrades to the aquic moisture regime which support hydrophytic vegetation.

The following is a generalized cross section for LSC,7 - Hills/Mountains - Valley Plains - Elevated Plains - Perennial Stream:

```
                    <--Hydrophytes----->          <--Hydrophytes--->

\ 1                                                                  __7__
 \                                                                  /
  \__2__                                                           /
   \    \                                                          /
    \    \___3__                                                   /
     \         \                                                  /
      \         \___4__                                          /
       \      Alluvium  \                                     __4__/
        \                 \____5____                          /   /
Granite \_____________________________\              ____6___/____/ Granite
         \                            | _ _ _8_ _ _ /            /
          \     Water table           |  Stream   /  Water      /
                                      \ _________/   table     /
```

Legend for Crossection.

Soil	Veg.	Landform	Depth to H2O	Hydric
1. Dystric Cryochrepts	Pien	Hills/mountains	>150 cm	No
2. Fluventic Cryochrepts	Pien	Valley plains	>150 cm	No
3. Typic Cryofluvents	Pien	Valley plains	>150 cm	No
4. Aquic Cryofluvents	Alte2	Valley plains	50 - 150 cm	Yes
5. Typic Cryaquents	Samo2	Valley plains	<50 cm	Yes
6 Terric Cryofibrist	Cale4	Valley plains	0 cm	Yes
7. Dystric Cryochrepts	Pien	Elevated plains	>150 cm	No
8. Perennial stream	---	Valley plains	---	---
Continous				
Gaining				
Zone 1				

This conceptualized illustration is indicative of the complex relationships between soil, landform (geomorphic process), climate and resultant vegetation. Components may be missing in many similiar landscapes or replaced by different soils (Mollisols associated with sedimentary parent materials) and their associated plant communities. Each TE has a different site potential.

Interpretation of the TE/FE map units is most useful for providing production potentials and predicting the frequency and duration of flooding and limitations or suitabilities for TE's under various management activities.

Channel migration and or entrenchment complicates the determination of site potential. A common example occurs where vegetation (Poplus angostifolia) is considered an indicator of a hydric soil. Upon examination of soil properties it is determined that the soil

classifies as an Entic Haploboroll rather than an Aquic Hapoboroll (hydric). The lowering of the water table has resulted in a relic area of cottonwood and willows. Since these indicator plants were established under more favorable conditions they will fail to reproduce but will persist on the site for a significant period of time. They will eventually yield to plants that are more competative to the dryer site. Channel stability is controlled in a large measure by the type of soil material in the channel. Soils high in silt and clay will noromally be associated with channels that are deep and narrow. Soils high in sand are associated with channels that are shallow and wide. It is imperative to evaluate both vegetation and soils to determine site potential in these sensetive areas.

Terrestrial/fluvial ecosystems are among the most complex within the Southwest. They are geomorpholically unstable (flooded). Adjacent sideslopes often deliver overland flow of water to these sites resulting in a complex slope (majority of slopes are simple).

Narrow canyons or overstory of tall trees can shade these ecosystems to the point where willows are supressed. Removal of these trees (climax) along perennial streams results in a significant increase in willows (disclimax).

For the purpose of GES, lacustrine ecosystems (LE) map units are limited to ponds, lakes, reservoirs, and tanks.

A simplified cross section illustrating the overlap of terrestrial and lacustrine ecosystems is as follows:

```
<-----Emergent plants--------------><---Non-emergent-->
_____________
              \
               \
                \_______
                   ____\_____________________________________________
                  /     \                                  |
                 /       \              Water             Penetration
                /         \_________                        of
               /  Water              \                    Sun Light
              /   table               \_________________      |
                                                      \___________V_____________
<--Non hydric--><---Hydric soil------><-----Not soil------>\
                <---Littoral Zone----><-----Limnetic Zone-->\_____________________
                <---Euphoric Zone-------------------------><----Profundal Zone------->
```

Initial criteria used to classify and map lacustrine ecosystems was geographic location and climate. Geographic location will provide information about the associated terrestrial ecosystem. Terrestrial ecosystems are linked to important chemical and physical properties that influence the lacustrine ecosystems. For example, lakes associated with Vertic Haplustalfs, HSC,4 will have a characterictic color, turbidity and other attributes associated with montmorillonitic clay.

Climate

The survey area occurs within 11 of the 16 climatological divisions of New Mexico and Arizona. The climate is highly variable as a consequence of the uneven topography and the great range in elevation. The elevation ranges from a low of 400 meters (1500 ft) near the confluence of the Verde and Salt Rivers to 4025 meters (13200 ft) at Wheeler Peak in the Sangre de Cristo Mountains. The information presented in this section is based upon climatic station data. Ranges given may be exceeded at either elevation extremes.

Average annual precipitation ranges from 24 centimeters (10 in) to over 86 centimeters (34 in). In general, precipitation distribution is unimodal in New Mexico and bimodel in Arizona. The wet season in New Mexico extends from July to August. In Arizona the wet seasons are July to August and December to March. Mean annual total snowfall ranges from 0 to over 210 centimeters (80 in). Average annual temperature range from 22 degrees Celsius at the lower elevations to less than -3 degrees Celsus at the higher elevations. The freeze free period ranges from approximately 365 days at the lowest elevation to less than 30 days at the highest elevations. Climatic data for individual taxonomic units can be found in Table 5.

Variations in climate (season of precipitation/ winter temperature) that influence vegetation are correliated with the following climatic categories of Low Sun Cold (LSC), High Sun Cold (HSC), High Sun Mild (HSM) and Low Sun Mild (LSM) (Figure 4). This generalized map provides a spatial representation of the effect of climate on soils and vegetation along a gradient (Table 5). Additional information on the influence of climate on vegetation and soils is found in "Deserts" (MacMahon, 1987, p. 27 - 32), and in "Western Forest" (Whitney, 1988, p. 25 - 30).

The following generalized maps (Figures 1, 2, 3 and 4) illustrate seasonal distribution of precipitation. They serve only to illustrate seasonal distribution of precipitation over a wide geographic area. The integration of climate is accomplished through gradient analysis with site specific climatic data acting as an index.

Figure 1. Generalized map illustrating percent of annual precipitation coming during the winter (01 October - 31 March).

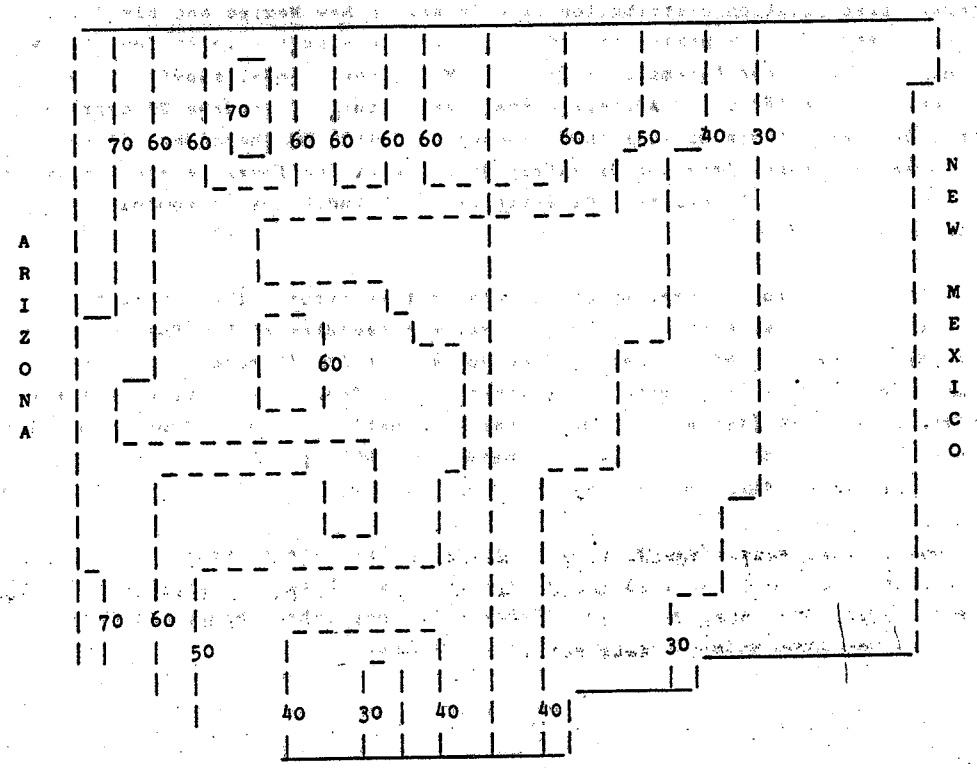


Figure 2. Precipitation occuring in January. (Cohen, 1973, p. 80-81).

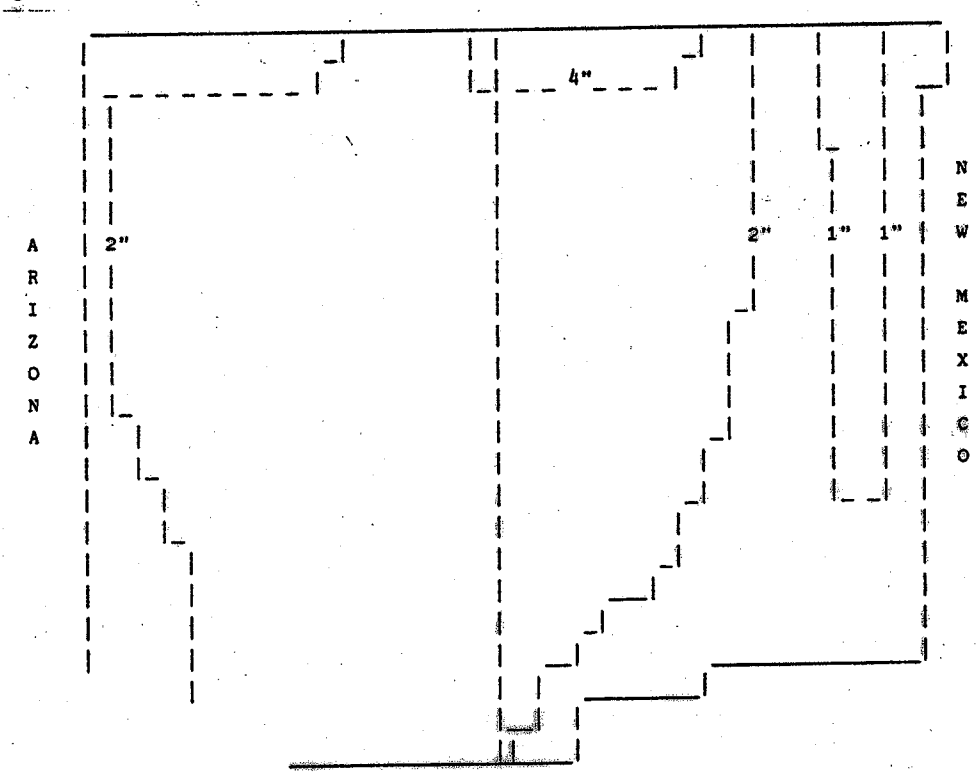


Figure 3. Precipitation occuring in July. (Cohen, 1973, p. 80-81).

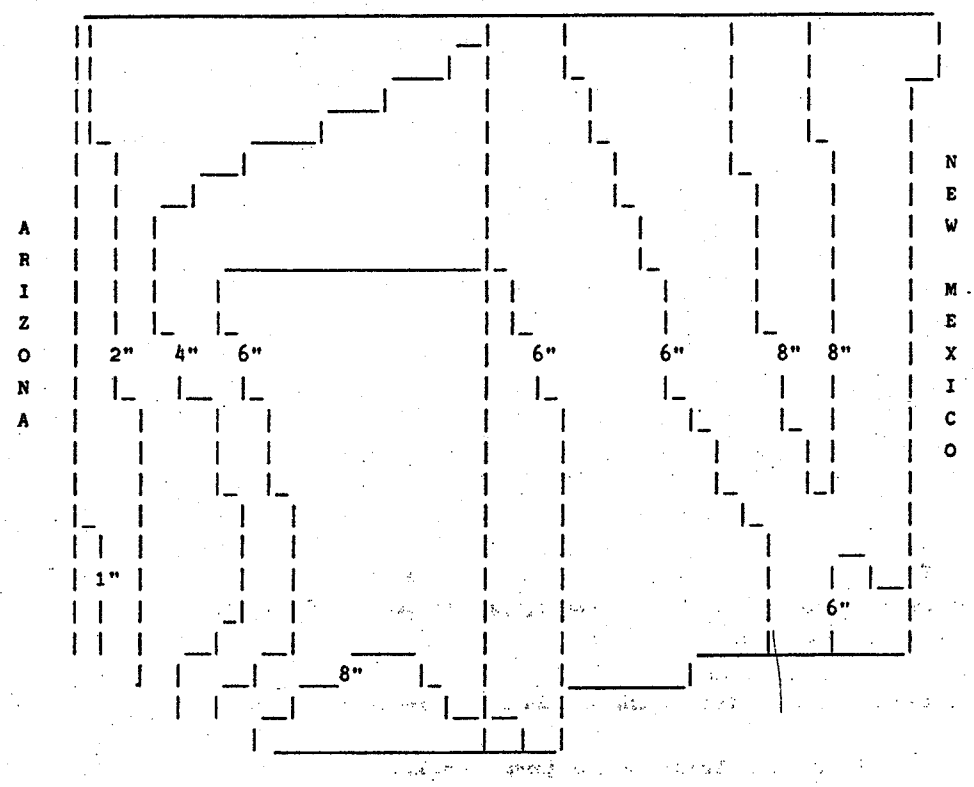
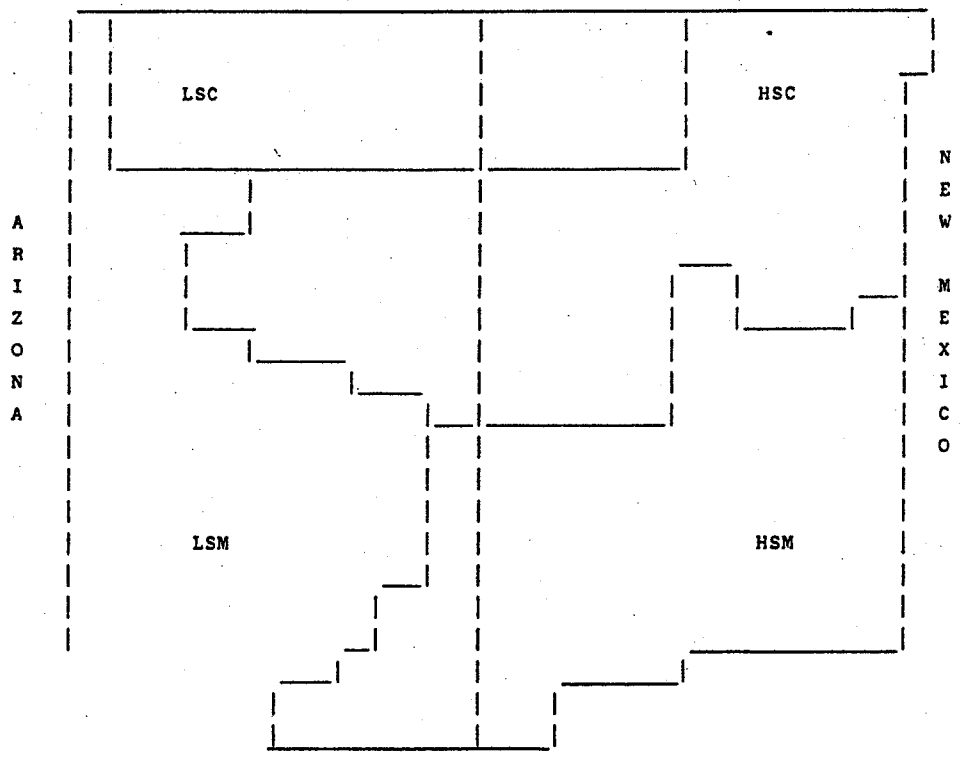


Figure 4. Generalized map of LSC, HSC, HSM, and LSM climatic areas.



LSC Great Basin Scrub (Artr2) -> Forest

LSM Sonoran -> Forest

HSC Prairie -> Alpine tundra

HSM Chihuahuan -> Forest

Climatic Variation and Effect on General Terrestrial Ecosystems 1/

A summery of the aggredational and degradational history of terrace deposites in the southwestern United States indicate that during the postglacial-prehistoric time period the area has experienced eposodic climatic variation (Leopold 1951). Climatic change is expressed as concomitant changes in stream flow and vegetal cover.

Coicident with the initiation of heavy grazing in the southwest during the latter half of the 1800's is an epicycle of erosion. Over grazing is often stated as the cause for current cycle of erosion. Others argue that the current erosion cycle is the result of a climatic shift and that grazing acted as a trigging action to initiate an erosion cycle that was ready to occur.

Past analyses of annual values of rainfall for the period of records in the southwest have shown no significant trends. However, a compensating shift in the seasonal distribution of frequency of magnitudes of rainfall could result in major changes of both stream flow and vegetal-cover regimes and yet not significantly change annual precipitation values.

Leopold analyzed rainfall records for the period of 1849 to 1948 for the following stations in New Mexico: Santa Fe, Fort Union, Albuquerque, and Las Cruces. Daily frequencies were tabulated for the following magnitudes: 0.01-0.49, 0.50-0.99 and equal to or greater than 1.00 inch.

A review of the analysis point to the following observations:

1. There is no significant trend in the annual totals.
2. The frequency of the 0.01-0.49 in magnitude rainfall has increased in number from 1850 to 1930.
3. There is no significant trend in the 0.05-0.99 inch magnitude of rainfall.
4. The frequency of the => 1.0 inch magnitude rainfall has decreased in number from 1850 to about 1930.

In the arid southwest, a small magnitude rains rapidly infiltrate the soil surface to provide a moisture source for the vegetal cover; there is little if any surface runoff. Large magnitude rainfalls, on the other hand, result in a large percentage of water being lost as surface runoff. It is surface runoff that causes both sheet and gully erosion. "During the early portion of the past hundred years New Mexico experienced a relatively low frequency of small rains both summer and winter" (Leopold, 1951). During the same period there was a relatively high frequency of large rains. "Such a circumstance would be conducive to a weak vegetal cover and relatively great incidence of erosion".

The modern cycle of erosion began in the southwest about 1885. Heavy grazing was initiated during the late 1860 s. The above climatic analysis indicates that during the same period when grazing was trending to promote erosion, climatic factors were more conducive to erosion that at present. One may infer that by the 1880's climatic conditions were at a threshold to initiate the modern epicycle of erosion. The introduction of large cattle herds was sufficient magnitude to trigger the cycle.

1/ H. Gassaway Brown III

How The General Ecosystem Survey Was Made.

Mapping was done on 1:250000 USGS quadrangle sheets. Mapping units were delineated on the basis of topography, geology, vegetation, soil and water. Field documentation was made to verify map unit components, accuracy of the delineations and present condition. Photographs were take of the various terrestrial and aquatic ecosystems. Photos of the TE

units include a landscape, current surface condition and where aviable natural surface conditions (potential at specified climax class). Photos of the AE units include channel and associated properties. Numerous smaller TE surveys were linked together to provide on-the-ground reliability. Forest soil scientist, hydrologist and other resource specialist provided assistance in field mapping and evaluation. The mapping units in the terrestrial and lacustrine components are spatially identified as areas and measured in hectares (acres). The mapping units in the fluvial component are identified as linear segments and are measured in kilometers (miles).

How to use the General Ecosystem Survey Report.

Terrestrial ecosystems represent segments of uniformity, primarily as the result of factor compensation, along a climatic gradient. By recognizing and measuring cause/effect relationships in terrestrial ecosystems it is feasible to relate them to reliable coeffients. This provides a basis for confidence in these coeffients and consequent broad analysis (allocation). An appreciation of lower or upper limits in these coeffients is essential when dealing with specific areas within a terrestrial ecosystem. Decisions for specific areas require an appropiate reliability of data to support decisions.

Present use of the GTES report requires looking up information within this report (see section on automation). The following steps are for interm use and will aid in locating information:

1. Using Figure 4. Index to Maps, locate general area of interest. Next select appropriate map (ie Grand Canyon etc.) to determine area of interest.

2. Using Table 1. Mapping Legend, find map symbol(s) that correspond to the area of interest. List these map units for further reference.

3. Using Tables 2a., 2b., 2c, find acreage or linear extent of the map units.

4. Using Table 3. Map Unit Properties, find information relevent to map units of interest.

5. Using Table 4a. Map Unit Interpretations, find information relevent to map units of interest.

6. Using Table 5. Gradient Analysis, find information on indicator plants, climate, and elevation. Information in this table is arranged according to climate (gradient and column numbers etc.). For example, to find the annual precipitation for a Typic Haplustalf, HSC,4, look down Column 4 until reaching the climatic information section. Then, within the HSC group, line up with the information entitled "MAP cm". The number 40 is listed which is the approximate mean annual precipitation, in centimeters, for any ecosystem within this climatic class.

7. Using Table 6. Site Description, find information relevent to GTE of interest. (In-progress).

8. Using Table 7. Laboratory Data, find information relevent to GTE of interest. (In-progress).

9. Using Table 8. Laboratory Data, find information relevent to GFE of interest. (In-progress).

10. Using Table 9. Laboratory Data, find information relevent to GLE of interest. (In-progress).

Figure 5. Index to Maps (USGS 1:250000).

Arizona--->*<---New Mexico

Grand Canyon	Marble Canyon	*	Aztec	Raton
Williams	Flagstaff	Gallup	Albuq.	Santa Fe
Prescott	Holbrook	St Johns	Socorro	Ft Sumner
Phoenix	Mesa	Clifton	Tularosa	Roswell
	Tucson	Silver City	Las Cruces	Carlsbad
	Nogales	Douglas		

Use and Management of General Ecosystems

Information contained in this section deals with use and management of general ecosystems. This information is contained in the following five sections:

1. Mapping legend

2. Map unit properties

3. Interpretations

4. Site specific information

5. Laboratory information

Mapping Legend for General Ecosystem Survey.

Table 1. contains information important in recognizing (naming) map units. This information is also used in generating interpretations from the various guides. A brief explaination of this information follows:

Map unit number - A one to four digit number by which the map unit delineation is identified on the map. The mapping legend used for GES is based on the following information:

	Terrestrial
100-199	Alfisols
200-299	Aridisols
300-399	Entisols
400-499	Inceptisols
500-599	Mollisols
700-710	Lava flows

750-799 Physiographic units
W001-W198 Watersheds (5th code) "W" identifies watersheds from TE map units.

Fluvial
800-875 Streams (Perennial streams as identified on USGS 1:250000 maps)

Lacustrine
876-1200 Lakes/ponds (As identified on USGS 1:250000 maps)

Components - General ecosystem survey recognizies five basic components. These components are soil, not-soil (miscellaneous units), climate, vegetation and water. Soil, climate and vegetation are the three recognized taxa for naming TE map units. Streams, lakes etc. are recognized as components for aquatic ecosystems.

Major components within map units are identified by a decimal followed by a number (.1 to .4). A maximum of four major components are allowed in each map unit. Each map unit can have two (minor components) inclusion(s) and are identified as .5, and .6. The map unit number will appear on maps while the map unit number and component(s) will appear in the appropriate reports (keyed to components within the various data bases).

The area (polypedon) of observation for soil properties has a minimum area of one square meter and is located at the center of the vegetation plot. The area of observation for vegetation is a 375 square meter circular plot.

Soil - The taxonomic soil name is listed for the TE. The technical name is used since it is descriptive and indicative of important properties (such as base saturation, soil depth, etc.) relating to production potentials etc.

An example of a soil name and brief explaination follows: "Lithic Torriorthents, loamy-skeletal, mixed, calcareous, thermic".

Lithic : Shallow soil (less than 50 cm to bedrock) therefore restricts productivity.

Torri : Aridic soil moisture regime therefore limiting in plant production potential.

Loamy-skeletal : Internal rock fragments are high (greater than 35 percent by volume).

Orthent : No subsurface diagnostic horizons (Lacks a B horizon), slopes > than 25 percent.

Mixed : Minerology is mixed therefore not associated with shrink-swell etc. problems.

Calcareous : High canopy coverage of plants favoring high base saturation soil ($CaCO_3$).

Thermic : Temperature regime (mean annual soil temperature between 15 and 22 degrees C) is associated with hot desert.

Miscellaneous areas - miscellaneous areas can occur as a component in any of the various kinds of map units. Miscellaneous areas (not-soil) consists of riverwash, badland, rock outcrop, and lava flows can occur as a component.

Phase - Phases are differentiated on the basis of criteria chosen to create reference names for mapping units useful for predictions about use, management or behavior of land areas. Features common to phase are depth (shallow < 50 cm, moderately deep 50 to 100 cm, deep > 100 cm), surface rock fragements, texture, calcareous, gullied, eroded, compacted and high precipitation.

Climate Class - Climate is indicated as a generalized class. Descriptions of HSC, HSM, LSC, and LSM are included in the previous section titled "Terrestrial Ecosystem Survey" and the section entitled "Climate". This information is indicative of regional climatic (seasonal distribution etc.) influnce on TE. Each major change in climatic parameters is identified by numbers from one to eight. The numbers represent segments of a climatic gradient. Within these segments there is further oppertunity to recognize the affect of small changes in climate upon terrestrial ecosystems. This is coded by indicating one step dryer and warmer than the central concept. An example is as follows:

HSC, 4 Full range for woodland - majority of precipitation occurring in the summer months- cold winters (decedious oaks).
HSC, 4, 0 Central concept of woodland
HSC, 4, -1 Dry/warm end of woodland
HSC, 4, +1 Wet/cool end of woodland

There are measurable values for precipitation and temperature that can be related to these shifts. This information, where appropriate, is contained in the gradient analysis.

Vegetation - The taxonomic vegetative name is listed for the TE by symbol for the scientific plant name. Scientific plant names and symbols are found in Table 5. The taxonomic name for the vegetation component implies constancy within the climatic limits of the map unit. The canopy coverage will vary at upper and lower climatic limits and within different production potentials (soils, slope etc.). Vegetation series are identified by one plant name and subseries with up to four plant names.

Slope - Describes the typifying slope range in percent of each component(s) in the map unit.

Slope is the most easily determined and often the controlling factor for manipulation of terrestrial ecosystems. Slope ranges used in GES are related to geomorphic processes, landforms (see section on landforms) and important management practices. The following is an abbreviated guide for slope ranges used in GES:

0 to 15 percent slopes - Not restricting to mechanized equipment
40 percent slopes - Upper limit for tractor logging
80 percent slope - Approximate angle of repose for angular fragments
<15 percent slopes - stable
15 to 40 percent slopes - metastable
>40 percent slopes - active

Slope range for GES:

Percent Slope	Landform
0 to 2	Valley plains
2 to 5	Valley plains
5 to 10	Valley plains
0 to 15	Elevated plains
0 to 40	Elevated plains/hills
0 to 80	Elevated plains/hills/escarpments (badlands)
15 to 40	Hills/mountains
40 to 80	Hills/mountains
40 to 120	Hills/mountains/escarpments (rock outcrop)

Composition (Comp) - Map unit composition is an indication of map unit purity. It is expressed as a percentage, by area, of the map unit. The map units sum to 100 percent.

Climax Class 1/ - A Terrestrial Ecosystem Survey generally acknowledges the climax categories of vegetation described by Daubenmire (Daubermire, 1968 p. 229) after concepts of A. G. Tansley. However, the landscape is characteristically so complex that no single vegetation (at either the association, subseries or series taxonomic ranks) can be indicated as the climatic climax without a high degree of arbitrariness and often inconsistency from region to region. Instead, the overriding influence of macroclimate in driving plant succession to whatever endpoint, is recognized in the terrestrial ecosystem by placing vegetation within a column (or life zone) of the gradient. Each column has numerous vegetation series, or subseries all influenced to some degree or another by the indicated macroclimate.

Within each column or macroclimate are vegetation taxa (at the series and or subseries rank) that are either climaxes or disclimaxes. Primary climax categories are edaphic, topographic, topo-edaphic and edaphic-geographic. Disclimaxes are prolonged departures of vegetation from the primary climax condition as the result of recurrent or sustained disturbances.

Edaphic climaxes are vegetation on a specific soil, whose vegetation structure at potential reflects the macroclimate. The following are both examples of edaphic climaxes within a coniferous forest climate: A coniferous forest (at potential) occurring on deep soil developed from parent material derived from granite, and a contrasting coniferous forest (at potential) occurring on deep soil developed from parent material derived from basalt.

Topographic climaxes are associated with special microclimates which are correlated to topography. An example would be Pinus aristata forest on south-facing upper slopes in a forest region. Typically, vegetation structure is different from a coniferous forest that reflects macroclimate (i.e. a pine forest rather than a true fir/Douglas fir forest).

Topo-edaphic climaxes are associated with special microclimates which also relate to generally restricted edaphic conditions. Vegetation structure typically departs strongly from that which would otherwise be governed primarily by the edaphic macroclimate. An example would be herbaceous wet meadows associated with soils having aquic moisture regimes surrounded by forest.

Edaphic-geographic climaxes are used to identify areas associated with variation from predicted climaxes. Examples are areas affected by rain shadow (San Agustine plains), or the converse where precipitation is above a typifying level for a selected elevation. An example of the latter is found along the Mogollon Rim which is influnced by an orographic affect resulting in high precipitation for associated elevations. A third example occurs in areas that are wind swept. Dessication results primairly from westerly winds that are channeled between two major landforms. Results are a grassland replacing a woodland at a position on the gradient where a woodland is predicted to occur.

The above climax categories each develop a characteristic vegetation distinguishable from each other through the mechanics of plant succession in absence of sustained periodic or episodic disturbances. Where such disturbances (irregardless of modern man's direct or indirect influences) are a factor of the environment, a variety of vegetation disclimaxes can result.

Fire disclimaxes occur under some kind of episodic fire regime. For example, fire is an inherent environmental factor of chaparrals, most woodlands, and many forests of the Southwest. The fire frequency and intensity affects composition and structure of vegetation as well as directions of succession. The concept of fire climax expounded by

1/ Will Moir, Regional Ecologist

Daubenmire is often confusing in associations or subseries composed mostly of fire tolerant species. Therefore TES reserves the usage of fire disclimax for vegetation whose structure is altered from climax structure due to recurrent fires. Examples include aspen stands maintained by fire in an otherwise coniferous forest environment or swards of perennial grasses maintained in an otherwise shrub steppe environment because recurrent fire eliminates the shrub component.

Zootic disclimaxes occur under sustained or periodic use of vegetation by wild or domestic animals. Under such conditions vegetation can depart markedly from the structure or species composition of prevailing climaxes. Thus alpine avens (Geum rossii) communities are maintained by soil churning action of pocket gophers in an otherwise graminoid tundra environment. Similarly, domestic livestock can bring about a prolonged herbaceous composition different from grassland of ungrazed situations.

Climax classes are named as either edaphic, topographic, topo-edaphic or edaphic-geographic climaxes. Disclimax classes have compound names. The first part of the name is the climax class (where succession would result if disturbance ceased), and the second part of the name is the disclimax category. An example would be an edaphic climax that is maintained by successive fires and heavy grazing. This would be an edaphic/fire/zootic. The name (e.g. Fire/zootic) suggest a combination of causes but not the exact mechanism of succession or adaptation to recurrent disturbances.

Within the geographic distribution of a map unit an important plant may be replaced by a closely similar plant. An example is found in the mountains near Nogales, Arizona with Quercus arizonica. This common evergreen oak is replaced on a LSM gradient by Quercus grisea as one moves eastward into New Mexico.

Site potential is largely determined by climate and soils. Plants described in the climax plant community description may necessarily occur throughout the general area indicated by the mapping units. For example, Abies concolor is absent from the Mount Taylor area in New Mexico but the Abies concolor is still Indicated as potential. The absence of this associated tree is due to chance (accidents of dispersal, migration, and time), but not to conditions of climate or soils.

Kind of Map Unit - Each map unit on the maps represents an area on the landscape and consists of one or more ecosystem for which the unit is named. Soil, climate and vegetation are also used in conjunction with fluvial or lacustrine units for mapping aquatic ecosystems. Four kinds of map units can occur: consociations, complexes, associations, and undifferentiated groups.

A consociation is a map unit consisting of a single terrestrial ecosystem. An example is Typic Eutroboralfs, cobbly sandy loam: Pipos: LSC 5: 0 ot 15 percent slopes.

A complex is a map unit consisting of two or more terrestrial ecosystems so intermingled or so small that they cannot be shown separately if mapped at a scale of 1:24,000. Each delineation of a complex contains some of each of the two or more dominant terrestrial ecosystems, and the pattern and relative proportions are about the same in all areas. The name of a terrestrial ecosystem complex consists of the names of the dominant terrestrial ecosystems. An example is a Eutric Glossoboralfs-Typic Paleoboralfs: Psmeg: LSC 6: 0 to 40 percent slopes.

An association is a map unit consisting of two or more terrestrial ecosystems that occur as areas large enough to be shown individually if mapped at a scale of 1:24,000 but are shown as one unit because use and management does not justify separation. There is a degree of uniformity in pattern and relative extend to the dominate terrestrial ecosystem, but they can differ greatly one from another. The name of an

association consists of the names of the dominant terrestrial ecosystems. Examples are:

Aridic Haplustalfs: Hija: HSC, 3-Aridic Ustochrepts: Stne2: HSC, 3: association, 0 to 40 percent slopes.

Streams: Typic Cryaquolls: Samo2: LSC, 7, 2 to 5 percent slopes.

Lake: Typic Cryaquolls: Samo2: LSC, 7, 0 to 2 percent slopes.

An undifferentiated group is a map unit consisting of two or more terrestrial ecosystems that are not consistently associated geographically. They are included in the same map unit because use and management are the same or very similar for common uses. These units are often highly variable in properties.

Water - The taxonomic water name is listed for the AE.

Acreage and or Linear Extent for General Ecosystem Survey

The acreage and or linear extent for each map unit is listed in Table 2. GTE (Table 2a.) unita are by acres, GLE (Table 2c.) units are by acres of water and miles of shore line while GFE (Table 2b.) units are by linear extent. Each delineation is identified uniquely therefore acreage figures are aviable for each delineation.

The following is a comparison of gross area by National Forest and area surveyed by GES.

National Forest	Gross Area 1/	National Forest	Gross Area 2/
Apache	1876895	Apache/Sitgreaves	2117392 3/
Carson	1490468	Carson	1614975 4/
Cibola	2120568	Cibola	1855738 5/
Coconino	2010762	Coconino	2014556
Coronado	1853760	Coronado	1798743 6/
Gila	2797628	Gila	3382982 7/
Kaibab	1599755	Kaibab	1605827
Lincoln	1271066	Lincoln	1266705
Prescott	1407608	Prescott	1417450
Santa Fe	1734800	Santa Fe	1692224 8/
Sitgreaves	884495		
Tonto	2969505	Tonto	2945813
	22017310		21712455

1/ Information obtained from National Forest Area Report, Sept. 30, 1987.
2/ Information obtained from digitized GTES maps (exclusive of larger lakes)..
3/ Includes portion of Apache-Sitgreaves occurring in Arizona.
4/ Includes Villa Vidal Unit (100550 acrea).
5/ Excludes approximately 262898 acres on Magdalena Ranger District (Datil mtn.).
6/ Includes Santa Rita Experimental Range and Wildlife Area (52163 acres).
7/ Includes portion of Apache National Forest occurring in New Mexico.
8/ Excludes approximately 22400 acres on the Caja Del Rio Area.

Map Unit Properties for General Ecosystems

Table 3. contains information concering important properties on to the nature and behavioral characteristics of the general ecosystems. It is much of the basis for making interpretations. A brief explaination of this information follows:

Landscape Features - Information in this section is descriptive of component(s) as they occur in various map units.

Landform - Landform that is representative of the component as mapped. Landforms are classified by a morphometric approach rather than genesis of landforms. An example of this approach is seen with lakes associated with cirques. The landform identified in GES would be a breached basin.

There are two basic components for landforms. The first is the "plain slope". A plain slope is any gently sloping surface. It is a single disassociated slope element and thus not a descrete landform. A plain slope has only one essential characteristic (less than 15 percent slope). The counterpart to the plain slope is the scarp slope (greater than 15 percent slope). These components are used to describe the various landforms recognized in GES. The morphometric criteria for identifying landforms is found on page 48.

A brief description of basic landforms follows:

Valley plain - a valley plain is a plain occupying a valley floor. It is a lowland plain relative to the valley side slopes.

Elevated plain - an elevated plain is a general term for any plain bounded on one side by a descending, steeply sloping (greater than 15 percent) scarp slope. It is a upland plain relative to at least one bounding landform.

Summit plain - A summit plain is a plain bounded on one side by a descending steeply sloping (greater than 8.5 degrees) scarp slopes; there is no higher land bounding it. A mesa top exemplifies a summit plain.

Escarpment - an escarpment is an ultra steeply sloping (65 to 90 degrees) precipitious slope linking a lowland area to an upland area. Typically, an escarpment is a relatively continuous precipitous slope terminating an extended elevated plain. Common synonyms are bluff, cliff, and scarp.

Fan - A fan is a gently sloping (less than 8.5 degrees) surface of postive relief. Its form resembles a segment of a low cone radiating downslope. A cross sectional profile is typically convex upward. A longitudial profile is often concave upwards near the fan's apex, grading to a straight line in the central portion and terminating in a convex upward profile at the fan's distal edge.

Basin - A basin is a negative relief feature having a low to high order of vertical relief (1 to 300 plus meters). It is bounded on all sides by gently sloping (less than 8.5 degrees) infacing side slopes descending to an extended basal area. A basin is a closed depression with no surface outlet bounded by slopes of low inclination.

Bench - A bench is a plain bounded on one side by a descending scarp slope and on the opposing side by an ascending scarp slope; it is a type of elevated plain. The lower scarp slope is often referred to as a riser; the plain slope as a tread.

Hill - a hill is a postive relief feature having a moderate order of vertical relief (30 to 300 meters). It is bounded on all sides by steeply sloping (greater than 15 percent) outfacing slopes ascending to a summit area. Summit area slopes may be either steeply or gently sloping or any combination thereof; summit areas may be restricted or extended.

Mountain - a mountain is a postive relief feature having a high order of vertical relief (greater than 300 meters). It is bounded on all sides by steeply sloping (greater than 15 percent) outfacing slopes ascending to a summit area.

Elevation - Average range of elevation in meters.

Slope - Slope is characterized by several attributes. This information is related to how the ecosystem will function and where it occurs in an landscape.

Gradient - Average slope of the component in percent.

Length - Average slope length, in meters, that water will flow before entering a channel. The steeper the slope the shorter this distance will be.

Class - There are two classes for slopes. Simple slopes deliver overland flow of water directly into channels. Complex slopes occur where a slope delivers overland flow to another slope then into a channel. The majority of slopes are characterized as simple. The most common example of complex slopes is where a linear (concave, or convex) slope lies adjacent to a valley plain. Overland flow orginates on the first slope and is delivered across the valley plain unit to the channel.

Configuration - Slope configuration is described in plan view and cross section. This information is useful in determining the amount and rate of runoff and sediment associated with runoff. For example on concave slopes, water tends to collect with resulting deposition of sediment.

Slope shape (plan view) - describes slope configuration parallel to contour intervals.

Slope shape (cross section) - describes slope configuration at right angles to contour intervals.

Aspect - The direction of exposure (North, South, East, West). Aspect is used in describing where components occur in map unit associations (one component on north aspects and second component on south aspects). At any given elevation, for slopes over 15 percent, there is a detectable difference in soil-plant moisture/temperature relationship. The southerly aspects being warmest and driest followed by west aspects then east aspects and finally north aspects that are coolest and wettest. Site potentialsare a reflection of this influence. Through factor compensation the same component can occur on all aspects. A unit occurring on a north aspect will occurr at a higher elevation on a south aspect. Aspect is described as non-influencing for these situations. Aspect is critical in describing many topo-edaphic climaxes (Pinus aristrida occurring predominately on steep southerly aspects at high elevations).

Precipitation - The typifying range of annual precipitation in centimeters.

Bedrock - The common rock type underlying the soil is listed.

Parent material - The primary material from which the soil is forming from.

Parent material is an indication of the relationship between soil and its source. There is a strong correlation between parent material and mineral and nutrient content of the soil. For example granite is an acid igneous rock and inherently low in bases therefore soils forming in material derived from granite will be low in bases. Graminoids, on these soils, are always low in canopy coverage due to this nutrient restriction. Granite is low in calcium and sodium feldspares thus there will be little clay formation regardless of

how long the soil formation process is allowed to continue. This situation is further compounded when attempting to recognize differences in soils derived from granite and in adjacent areas from rhyolite. These two rock types are chemically equivalent when derived from the same magma source. The basic difference being granite is an intrusive rock (coarse-grained) and rhyolite is extrusive (fine-grained). These two different parent materials will result in similar soils. Consequently, geology maps are crucial in making ecosystem surveys but geology maps cannot be make from ecosystem survey maps (combinations of like parent materials).

Information in this section indicates residual vs transported parent materials. Careful correlation of parent material with lithology maps allows for extrapoliation of map units across complex landscapes with high reliability.

There are two basic categories of parent material that relate to soil formation. These categories are as follows:

1.	Residuum	Residuum, gr
2.	Transported	
	A. Water	Alluvium, gr
	B. Wind	Aeolian, gyp
	C. Colluvium	Colluvium, gr

Abbreviations for source of parent material used in the report.

alt ash	altered ash
an	andesite
as	ash
ba	basalt
ci	cinder
da	dacite
di	diabase
gn	gneiss
gr	granite
gyp	gypsum
hy al vo	hydrothermally altered volcanic
ls	limestone
pu	pumice
sc	schist
sh	shale
sts	siltstone
ss	sandstone
rh	rhyolite
tu	tuff

Condition - Information is listed in this section for condition at tolerance, natural (climax class) and current situation. Condition is described by canopy height and overstory (OvStr) along with four surface properties.

Canopy height - This value is the distance that water can fall from the base of the canopy (trees and shrubs) to the soil surface.

Canopy overstory - Percent canopy coverage of trees and shrubs that intercept rainfall. This value cannot exceed 100 percent.

Surface components - Components which currently exist on the soil surface, expressed as a percentage and represented by four seperates:

1. (RKFrg) Rock fragments (>2 mm)
2. (Littr) Litter (>2.54 cm deep)
3. (VegBA) Vegetation (Basal area)
4. (BSoil) Bare soil

The total of these four separates can be greater than 100 percent, since in forested environments litter often covers rock fragments.

The information listed for tolerance is calculated by holding all variables in GTEIntrp constant except for vegetation (basal area) and bare soil (In-progress). If tolerance soil loss is greater than natural soil loss the equation is not solvable (negative number). The listing of "NS" under bare soil indicated these situations. This predicted value is useful in monitoring some management impacts where surface soil is disturbed.

Climax Plant Community - Percent canopy coverage for trees, shrubs, forbs, and graminoids by species is listed. Plants are limited to five within each category for GTES. This list indicates a modal concept for the ecosystem. The GTES contains, where appropriate, a listing of plants indicative of current conditions (disclimaxes) where soil productivity is not being maintained. Within a mapping unit certain variation in canopy coverage and species composition is anticipated as a result of subtle changes (factor compensation) in environmental factors (climate, soil, slope, aspect, etc.) for the mapping unit.

Reconnaissance plots for vegetation characterization are circular in shape and 375 square meters in area. Plot size (but not area) can be adjusted to a rectangular shape for narrow terrestrial ecosystems adjacent to perennial streams. Measurements are related to the following seperates:

1. to nearest .1 percent for species under 1 percent coverage.
2. to nearest 1 percent for species between 1 to 10 percent coverage.
3. to nearest 5 percent for species between 10 to 20 percent coverage.
4. to nearest 10 percent for species over 20 percent coverage.

A canopy coverage value of "0" indicates the plant is present in the community but normally outside the plot. Scientific plant names and codes are listed in Table 5.

Fluvial - Information is listed for permence, continuity, ground water and dominate fluvial process (zone 1-3). Characteristics (substrate, turblent flow, etc.) associated with these zones is found within the section on classification.

Lacustrine - Information is listed for lakes and ponds. Characteristics associated with this information is within the section on classification.

Interpretations for General Ecosystems

Table 4a contains interpretations that are commonly useful for management of general terrestrial ecosystems. Interpretations (Table 4b.) for soil-water conditions is in-progress. Interpretations for fluvial and lacustrine ecosystems are in the developmental stage (Table 4c.).

Soil Loss Rates

Soil loss rates are predicted (index) from a version of the "Universal Soil Loss Equation" (GTEIntrp) where:

$$A = R\ K\ L\ S\ C$$

A = computed longtime average soil loss from sheet and rill erosion
R = rainfall and runoff factor
K = soil erodibility factor
L = slope-length factor
S = slope-steepness factor
C = cover factor

Within GTEIntrp slope-length and slope-steepness are correlated with landform and associated slope range. This application of USLE allows for consistent evaluation of terrestrial ecosystems (capability) and comparison of map units (components) across the Region.

Soil loss is difficult to observe visually, unless a large amount of soil loss is taking place. A soil loss rate of 0.25 in/yr (38 tons/ac/yr or 95 t/ha/yr) is observable, but certainly an unacceptable rate for maintenance of soil productivity. This problem alone, justifies the use of an imperical model (USLE) to predict soil loss rates under varying cover conditions. This predictive information will allow land managers to effectively recognize problems, iniate appropriate changes in management, thus avoid long-term damage to the resource.

Users of information concering onsite erosion should be aware that the "Water Erosion Prediction Project" (WEPP) is nearing completion. The landscape profile version (replaces USLE) is to be operational by September, 1989. WEPP will improve soil erosion predictionsas it is based on modern hydrology and erosion science that is process oriented. It is being validated on a wide range of conditions (rangeland, forest etc.).

Evaluation of tolerance soil loss vs current soil loss gives one indication of present balance within terrestrial ecosystems. The variation for these generalized coeffients can account for seemingly apparent conflicts when extrapolated to local areas. This is largely due to inherent variability of components which is constrained by mapping scale. Variation can and should be identified and dealt with at an appropiate mapping and planning intensity.

Categories for soil loss are:

Potential soil loss (PSL) - is the rate of soil loss that would occur under conditions of complete removal of the vegetation and litter (maximum rate).

Natural soil loss (NSL) - is the rate of soil loss occurring under conditions associated with a climax class (minimum rate).

Current soil loss (CSL) - is the rate of soil loss occurring under present conditions of of ground cover (vegetative and litter).

Tolerence soil loss (TSL) - is the rate of soil loss that can occur while sustaining inherent site productivity.

The following table contains the guide for tolerance soil loss rates by soil depth and gradient columns (Table 5):

Soil Depth	Column Number							
	1	2	3	4	5	6	7	8
cm				t/ha/yr				
<50	2.2	2.2	4.5	4.5	4.5	4.5	4.5	2.2
50 to 100	2.2	4.5	6.7	6.7	6.7	6.7	6.7	2.2
>100	2.2	4.5	7.6	6.9	9.0	9.0	6.7	2.2

Assumptions associated with this guide are:

1. Soil forms at the approximate rate of 2.5 centimeters in 300 to 1,000 years.
2. Soils managed under natural condition (forest, grazing etc.) are for practical purposes nonrenewable.
3. Soils associated with the two extremes in climate (columns 1 and 8) have thin surface horizons (5 to 10 cm). Soils associated with column 6 tend to have thick surface horizons (25 to 75 cm).

This application of threshold values (TSL) allows for greater disturbance of ground cover where the capability to renew soil and recover protective vegetation is greatest.

Soil Condition (Soil cond.) - The soil condition class is a reflection of soil quality status (Forest Service Handbook, 2509.18, Chapter 2, 1987). Classes used are satisfactory (Sat), unsatisfactory, (Unsat), and unsuited (Unsuit).

This rating is reflective of soil disturbance, resulting from a management practice and maintenance of soil productivity (i.e. changes in physical, chemical and or biological properties). It is a form of soil monitoring as required of Forest Plans including "significant changes in productivity of the land;" [36 CFR 219.12 (k) (2)]. etc. Regulations also state "all management prescriptions shall.. conserve soil and water resources and not allow significant or permanent impairment of the productivity of the land." [36 CFR 219.29 (a) (1)].

Four of the most common soil disturbing activities, in the Southwest, that directly effect soil productivity are:

1. Grazing
2. Timber harvest
3. Fire
4. Road construction and maintenance

The majority of effort to date, has been to determine the effects of grazing on terrestrial ecosystems. Future efforts will continue with this work plus a concerted effort to deal with the impact of timber harvest etc., fire and roads on terrestrial and aquatic ecosystems.

The influence of grazing on GE(s) is reflected in the following statements:

"Around the world, grazing has probably been more important than any other factor in reducing the productive capacity of unculatived land." (Spurr, 1973, p. 234).

"The direct effects of grazing on site results largely from the action of animal hoofs in compacting the surface soil and breaking up the ground cover. Both are detrimental under most circumstances and often highly so. The pounding of animal hoof results in a breaking down of soil aggregates which give a crumb structure to the surface. The pore space of the surface soil is greatly reduced, often to the point of seriously reducing the supply of air in the soil, and preventing the infiltration of rain water at a rate sufficient to prevent surface runoff. As a result, heavily grazed soils are apt to be poorly aerated, have lessend water absorbing capacity, and become subject to sheet erosion. Biotic activity is often lowered substantially. (Spurr, 1973, p. 233).

"The cattle boom hit the Southwest just as it hit the Northwest and the Great Plains. In Arizona, for example, there were 5000 cattle in 1870; by 1890 the number was 1,095,000. By the early years of this century, seventy-five percent of these cattle had died of

starvation. In the intervening years, they had stripped away the grasses and trampled the soil; this led to increased runoff, which led in turn to the phenomenon called trenching, in which the once-sluggish streams carved deep gullies. Trenching caused a lowering of the water table, a condition that favored mesquite because of its deep roots. (Brown, 1985, p. 67).

Soil surfaces associated with arid enviroments often exhibit a thin vesicular surface structure. "This structure is formed by rainfall and soil-gas dynamics, often in association with the action of algae and lichens." (MacMahon, 1987, p. 32). This fragile soil structure is easily, adversely affected by trampling (reduced infiltration and aeriation).

GTES contains the information used in evaluating the affect of ground disturbing activities. Present guides (FSH 2509.18, Soil Management, Chapter 2 - Soil Quality Monitoring, 10/87) are related to detecting changes in surface horizon (ie erosion and compaction). Information collected on compacted soils have indicated that there has been at least a 15 percent reduction in soil productivity (FSH 2509.18, 2.05 - Definitions). The measurement of ground cover or canopy cover under existing and natural conditions offer an opportunity to evaluate infiltration rates (soil condition). "Generally, it has been shown that as ground cover or canopy cover increase, infiltration amounts increase while increases in bare ground decreases infiltration amounts (Gifford 1984)." (Rawls, 1989, p. 139).

Soil condition is determined by evaluating surface soil properties and status of gully erosion. The following criteria is used in this determination:

Current infiltration rate is the maximum rate, in centimeters per hour for water to move into the soil under current conditions. The natural infiltration rate (optimum) is a simular measurement but a reflection of condition at a climax class. The following example depicts this information:

Soil	Phase		Veg. B A	Climax	Infilt. Rate	Surface Prop.	Soil Cond.
Aridic Haplustalfs	deep --- loam ---	2% slope	50%	Edaphic	1.50 cm/hr	Soft, friable Weak granular	Sat.
Aridic Haplustalfs	deep --- loam compacted	2% slope	10%	Edaphic/zootic	0.50 cm/hr	Hard, firm Strong platy	Unsat.

Management practices can significantly effect these rates. A threshold exists where if reduced further, soil productivity (aeriation/aviable water) is being damaged. A common expression of this damage is seen in changes to physical properties (i.e. closed pores and platy structure) in the surface horizon. These soils are considered in unsatisfactory condition and are identified in the mapping legend as a compacted surface phase.

Soils associated with "vertic" integrades represent a significant acreage and are the result of impairment due primarily to compaction and mixing (trampling) of thin surface horizons with underlying horizons of high clay (montmorillonite) content. This change in a soil property seriously reduces infiltration rate and aeriation. If this process is left unchecked these soils will degrade to Vertisols with consequent further lowering of productivity. These soils are considered in unsatisfactory condition.

Soil condition classes based on sheet and rill erosion are as follows:

Satisfactory = Current Soil Loss < Tolerance Soil Loss ≥ Natural Soil Loss
Unsatisfactory = Current Soil Loss > Tolerance Soil Loss ≥ Natural Soil Loss
Unsuited = Current Soil Loss > Tolerance Soil Loss < Natural Soil Loss

Areas rated unsuited are those where geologic erosion rates are greater than soil formation rates. GTEIntrp model was used to evaluate soil condition in this section. Soils associated with a gullied phase are considered in unsatisfactory condition. Gullied areas will require intensive measures to restore, maintain and or improve soil productivity.

Erosion Hazard - Erosion hazard refers to the relative susceptability (worst case) to sheet and rill erosion upon removal of cover (cover factor approximates zero). This prediction is a function of the GTEIntrp where:

$$A = R\ K\ L\ S$$

Classes used are severe, moderate, and slight. These classes are reflective of a range in conditions and associated soil loss rates. Mitigation of this limitation can sometimes be accomplished by choosing a management practice with lower land disturbing impact. The following guide is used to seperate erosion hazard into classes useful to land management:

TSL	PSL		
	Slight	Moderate	Severe
		t/ha/yr	
2.2	<2.2	2.2 to 9.0	>9.0
4.5	<4.5	4.5 to 13.4	>13.4
6.7	<6.7	6.7 to 17.6	>17.6
9.0	<9.0	9.0 to 22.0	>22.0

Wind erosion is not accounted for in this rating. Soils such as the Psamments, are particularly susceptible to wind erosion upon removal of vegetation and litter.

Revegetation Potential (Reveg) - Refers to the probable success in establishment of native grasses under inherent conditions. Classes used are high, moderate, and low. This rating is influnced primarily by climate, soil characteristics and slope.

Reforestation Potential (Refor) - Refers to the probable success in establishment of trees under inherent conditions. Classes used are high, moderate and low. The tree species rated is also the recommended tree to plant. This rating is influnced primarily by climate, soil characteristics and slope. This information will assist managers toward meeting policy with regard to reforestation (FSM 6/88 R-3 SUPP 287).

The lower climatic limits (too dry) of the ponderosa pine series and the upper climatic limits (too cold) of the Engelmann spruce series are rated "low" for reforestation. These sites are recognized by occurrance of pinyon pine mixed within ponderosa pine stands or absence of aspen within the Engelmann spruce stands.

Production potentials - Production potentials were based on estimations and measurements from across the Southwest. Coeffients correlate primarily to soil/vegetation/climate and a general slope restriction. Usually, climate is the most restricting parameter in this evaluation process. The desert (hot) and alpine tundra (cold) represent the climatic extremes within the Southwest. The climates between these extremes offer more favorable conditions for plant production and are reflected in the coeffients.

Site Index (SI) - A site index value for the appropriate tree species is listed for each map unit component.

Soil properties play an important role in site productivity. For instance soil depth (Lithic vs Typic subgroups) can be a limiting factor in productivity and not show up in trees until many years after planting. Other soils (Paleboralfs) may be related to slow growth of trees until they encounter the argillic horizon, thus a marked increase in growth as roots enter this enriched horizon.

Herbage/Woody (Hb/Wd) - The air dry weight, in pounds/acre/year, as measured from the soil surface to a height of four and one-half feet (height an animal can reach), of annual growth of native herbaceous/woody vegetation. This total production includes the current year's growth of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of woody plants.

Forage (Forg) - The air dry weight, in pounds/acre/year, of annual growth of native herbaceous/woody vegetation available to grazing animals. Typical vegetation, in this class, is grasses, forbs and shrubs.

Forage Maximum (ForgM) - The air dry weight, in pounds/acre/year, of annual growth of native forage plants after elimation of non-forage species.

Fuelwood (FulWd) - A value of fuelwood production expressed in cords per acre.

Characteristics of soil - water features are useful in managing terrestrial/fluvial ecosystems.

Inherent channel stability is relatable to properties reflected by soil families. Soils high in silt and clay will normally be associated with channels that are deep and narrow. Soils high in sand are associated with wide and shallow channels. This inherent physical limitation must be considered when attempting to manage channel stability through manipulation of vegetation.

The following information relates to some of these information needs.

Soil - Water Features - The information in this section deals with water table (depth/season) and flooding (frequency/duration/month). Information is based on field observation of water table, evidence of flooding as reflected in soil properties and vegetation and seasonal distribution of precipitation.

A listing of status with regard to hydric soils is included in this section. Hydric soils are soils that reflect the influnce of water tables for sufficient periods to be diagnostic and affect kind and amount of vegetation. Soils are identified as having an aquic or peraquic soil moisture regime or as aquic integrades.

Field Data for General Terrestrial Ecosystems

Site specific field data, collected to support GES, is covered in the section entitled "Updating the General Ecosystem Survey.

Laboratory Data for General Terrestrial Ecosystems (In-progress)

Laboratory Data for General Fluvial Ecosystems (In-progress)

Laboratory Data for General Lacustrine Ecosystems (In-progress)

Classification Systems

The following is an abbreviated key to classification of ecosystems and recogized components.

Ecosystems

Terrestrial	Land is the principal external as well as the internal medium.
Soil	Capable of supporting plants out-of-doors.
Order	Properties reflect kind and degree of dominant soil-forming processes. (10 Orders)
Suborder	Properties reflect soil genesis and important to plant growth. (47 Suborders)
Great group	Properties reflect similarity in kind, arrangement and degree of expression of pedogenic horizons; soil moisture and temperature regimes. (230 Great groups)
Subgroup	Properties reflect the central concept of the Great group.
Family	Properties reflect similar physical and chemical properties that affect management.
Not-soil	Not capable of supporting plants out-of-doors.
Badland	Moderately steep to steep, barren, dissected, soft geologic material, inherently susceptible to natural erosion.
Lava flow	Areas covered with lava.
Rock outcrop	Exposures of bare bedrock other than lava flows.
River wash	Unstablized sandy, silty, clayey or gravelly sediment that is flooded and reworked by rivers.
Lake bed	Portion of a lake coincident with limnetic zone.
Vegetation	Plants in general or the sum of total plant life in an area.
Class	Broad structural grouping based on climate at the global scale.
Formation	Vegetation with similar structure and controlled by continental climates.
Series	Reflects dominant species at climax and controlled by continental climate.
Subseries	Reflects regional differences in macroclimate and floristics.
Assoc.	Reflects a constant combination of both overstory and understory climax dominants.
Aquatic	Water is the principal external as well as internal medium.

Lacustrine	Impounded surface water.
Lake	Naturally impounded bodies with large open water area, small shallow water area.
Pond	Naturally impounded bodies with large shallow water area, open water area is small or absent.
Reservoir	Artifically impounded bodies with large open water area, small shallow area water area.
Tank	Artifically impounded bodies with large shallow water area, open water area is small or absent.
Oligotrophic	Impoundments with low supply of nutrients.
Mesotrophic	Impoundments with intermediate supply of nutrients.
Eutrophic	Impoundments with high supply of nutrients.
Fluvial	Flowing surface water.
Spring	Point of ground water discharge at the earths surface.
Stream	Flowing water in a confined channel.
Permanence	Permanence of flow with respect to time.
Perennial	Flow is continuous.
Intermittent	Flow is seasonal.
Ephemeral	Flows only in direct response to precipitation.
Continuity	Continunity of flow with respect to space.
Continuous	Flow is continous.
Interrupted	Flow is interrupted by dry reaches.
Water table	Relationship of stream with the water table.
Gaining	Stream surface is lower than ground water table.
Losing	Stream surface is higher than ground water table.
Fluvial process	Process related to stream flow.
Zone 1	Zone of erosion.
Zone 2	Zone of transport.
Zone 3	Zone of deposition.

Soil

Soils are classified according to the formal system set forth in Soil Taxonomy, Agriculture Handbook No. 436. This system of soil classification was adopted by the National Cooperative Soil Survey in 1965. Terrestrial ecosystem survey utilizes five categories of this system: order, suborder, great group, subgroup and family. Classification is based on observed and/or inferred data from the field of soil science and other related disciplines. The properties selected for the higher categories are the result of soil genesis or of factors that affect soil genesis. Table 5 contains the various taxonomic possibilities for the upper four categories. Categories of the system are discussed in the following paragraphs:

ORDER. Ten soil orders are recognized as categories in the system. The properties used to differentiate among orders are those that reflect the kind and degree of dominant soil-forming processes that have taken place. Each order is identified by a word ending in "sol". An example is Alfisol.

SUBORDER. Each order is divided into suborders based primarily on properties that influence soil genesis and are important to growth or that reflect the most important variables within the orders. The last syllable in the name of a suborder indicates the order. An example is Boralf (Bor, meaning cool, plus alf, from Alfisol).

GREAT GROUP. Each suborder is divided into great groups on the basis of close similarities in kind, arrangement, and degree of expression of pedogenic horizons; soil moisture and temperature regimes; and base status. Each great group is identified by the name of a suborder and a prefix that suggests something about properties of the soil. An example is Cryoboralfs, (Cry, indicating cool summers, plus boralf, the suborder of the Alfisols that have cryic or frigid temperature regimes).

SUBGROUP. Each great group may be divided into subgroups: (1) The central (typic) concept of the great group, which is not necessarily the most extensive subgroup; (2) The intergrades, or transitional forms to other orders, suborders, or great groups; and (3) the extragrades, which have some properties that are representative of the great groups but do not indicate transitions to any other known kind of soil. Each subgroup is identified by one or more adjectives preceding the name of the great group. An example is Typic Cryoboralfs.

FAMILY. Families are established within a subgroup on the basis of similar physical and chemical properties that affect management. Mostly the properties are those of horizons below plow depth where there is much biological activity. Among the properties considered are particle-size class, mineral content, temperature regime, depth of the root zone, consistence, moisture equivalent, slope and permanent cracks. A family name consists of the name of a subgroup and a series of adjectives. The adjectives are the class names for the soil properties used as family differentia. An example is loamy-skeletal, mixed, Typic Cyroboralfs.

The following exerpt from Resource Conservation Glossary describes properties of the soil orders and suborders mapped in the General Ecosystem Survey in the Southwestern Region.

Soil classification (Resource Conservation Glossary, p 151-153)

Alfisols: Soils with gray to brown surface horizons, medium to high supply of bases, and B horizons of illuvial clay accumulation. They form mostly under forest or savanna vegetation in climates with slight to pronounced seasonal moisture deficits.

Boralfs: Alfisols that are cool or cold.
Udalfs: Alfisols in moist, warm-temperate climates.
Ustalfs: Alfisols in warm climates that are intermittently dry for long periods during the year.

Aridisols: Soils with pedogenic horizons, low in organic matter, that are never moist as long as three consecutive months. They have an ochric epipedon that is normally soft when dry or that has distinct structure. Also, they have one or more of the following diagnostic horizons: argillic, natric, cambic, calcic, petrocalcic, gypsic, or salic or a duripan.

Argids: Aridisols without horizons of clay accumulation.
Orthids: Aridisols without horizons of clay accumulation.

Entisols: Soils that have no diagnostic pedogentic horizons. They may be found in virtually any climate on very recent geomorphic surfaces, either on steep slopes that are undergoing active erosion or on fans and floodplains where the recently eroded materials are deposited. They may also be on older geomorphic surfaces if the soils have been recently disturbed to such depths that the horizons have been destroyed or if the parent materials are resistant to alteration, as is a quartz.

Aquents: Entisols permanently or seasonally saturated with water.
Fluvents: Entisols that form in recent loamy or clayey alluvial deposits, are usually stratified, and have an organic carbon content that decreases irregularly with depth.
Orthents: Entisols with loamy or clayey textures.
Psamments: Entisols with sandy textures.

Histosols: Soils formed from organic materials.

Fibrists: Histosols with largely undecomposed, fibrous organic materials.
Hemists: Histosols intermediate between Fibrists and Saprists in decomposition of organic materials.

Inceptisols: Soils that are usually moist with pedogenic horizons of alteration of parent materials but not of illuviation. Generally, the direction of soil development is not yet evident from the marks left by various soil-forming processes or the marks are too weak to classify in another order.

Andepts: Inceptisols with large amounts of amorphous or vitric pyroclastic materials.
Aquepts: Inceptisols seasonally saturated with water.
Ochrepts: Inceptisols that have thin or light-colored surface horizons with little organic matter and altered subsurface horizons.
Umbrepts: Inceptisols with thick, dark-colored surface horizons rich in organic matter and altered subsurface horizons.

Mollisols: Soils with nearly black, organic-rich surface horizons and high supplies of bases. Soils that have decomposition and accumulation of relatively large amounts of organic matter in the presence of calcium. They have mollic epipedons and base saturation greater than 50 percent in any cambic or argillic horizon. They lack the characteristics of vertisols and must not have oxic or spodic horizons.

Aquolls: Mollisols seasonally saturated with water.
Borolls: Mollisols that are cool or cold.

Ustolls: Mollisols that are intermittently dry for long periods during the warm season of the year.

Vertisols: Clayey soils with high shrink-swell potential that have wide, deep cracks when dry. Most of these soils have distinct wet and dry periods throughout the year.

Torrerts Vertisols of arid regions that have wide, deep cracks that remain open throughout the year in most years.

Uderts: Vertisols that crack open for only short periods, less than a total of 3 months in a year.

Usterts: Vertisols in which cracks open and close more than once during the year but do not remain open continuously throughout the year.

Vegetation

The vegetation classification system is based upon the land's potential for vegetation development. The climax vegetation is assumed to reflect climatic factors at the broadest classification level. Lower levels of the system are influenced by local factors of climate, soil, animals, fire, and other environmental influences. The system is hierarchical, consisting of five levels or ranks of generalization. Table 5 contains the various taxonomic vegetation names possible within the upper three ranks.

Vegetation within each rank is classified into mutually exclusive sets (or states) which are presumed to reflect the overriding influence of climate at the appropriate scale. This is referred to as the climatic climax vegetation. In addition, there are anomalies or departures from the expression of the climatic climax which are most evident at the Series, Subseries, and Association ranks. These departures are maintained in the potential expression of vegetation by sustained or episodic influences of fire, grazing animals, special soils, and local relief anomalies. These are referred to as fire, zootic, edaphic, or topographic climaxes. Such names merely allude to generalized causes and not the particular mechanisms of ecological or historical interactions that bring about the departure of vegetation from its climax expression.

Each level of classification represents an opportunity for predicting successional trends, assessing biotic potentials (including productivity), assessing management opportunities and limitations, and cataloging information. The ranks are defined as follows:

CLASS. Classes of vegetation represent broad structural groupings based upon gross aspects of climate at the global scale. The entire plant kingdom can be divided into two basic categories: woody vs non-woody (herbaceous) (Kuchler, 1957, pp.180). The woody class has been seperated into three categories. Examples of formations occurring in Region 3 are Forests, Woods, Shrubs, and Herbaceous vegetation (Unesco 1973).

FORMATION. Vegetation with similar structural form (physiognomy) is controlled primarily by climates differentiated at a continental scale. Examples of formations in the Southwest range from the coldest example, "cushion plant" {Geum rossii turbinatum} to the hottest example, "stem succulent {Cereus giganteus} (large) microphyll sclerophyllous shrub {Franseria deltoidea} (small leaf) microphyll shrub {Larrea devaricata}".

SERIES. Each state within this rank consists of vegetation having the same potential dominant species at climax. In the series there is a degree of homogeneity that reflects the requirements and tolerances of the dominant indicator plants. An examples of a series class is Pinus ponderosa scupulorum.

SUBSERIES. Regionalized differences in macroclimates and floristics result in different combinations of dominant plants occurring in different geographic areas of the Southwest. Floristics refers to the taxonomic assemblage of plants in any area, their geographic ranges, and evolutionary and migratory history. Each combination of dominant plants in the climatic climax constitutes a Subseries state (or vegetation Subseries). The vegetation Subseries ordered along a climatic gradient (generalized as a single, linear axis whose extremes represent hot-dry and cold-wet extremes) defines indirectly the primary climatic gradient of that region (Daubenmire's 1968, p 261-2). An example of a subseries class is Pinus ponderosa scupulorum/Quercus gambelii.

ASSOCIATION. An association is the consistent combination of both overstory and understory climax dominants. Vegetation is relatively homogeneous as to the dominant plants of all structural layers (Daubenmire 1968, p 27). An example of this class is Pinus ponderosa scupulorum/Festuca arizonica.

Fluvial

The classification of streams is accomplished by categorizing them with respect to permanence, continuity, intake and discharge of ground water, and fluvial process. The four categories are illustrated below.

I. Classification of streams with respect to permanence:

A. Perennial
B. Intermittent
C. Ephemeral

II. Classification of streams with respect to continuity in space:

A. Continuous
   1. Continuous perennial
   2. Continuous intermittent
   3. Continuous ephemeral

B. Interrupted
   1. Perennial interrupted
   2. Intermittent interrupted

III. Classification of streams with respect to intake and discharge of ground water:

A. Gaining stream
B. Losing stream

IV. Classification of streams with respect to the dominant fluvial process:

A. Zone 1 -- Zone of Erosion (Headwaters)
   1. Narrow V-shaped valleys.
   2. No or little flood plain development.
   3. Substrate is bedrock and/or cobble-boulder (>64 mm).
   4. Turbulent flow - shooting flow (Reynold's number: Re>2000; Froude number: Fr >1).
   5. Cold stable temperatures.
   6. Pools develop behind boulders and debris; riffles poorly developed; pool-riffle spacing is highly variable and not related to any function of width/depth ratio (w/d).
   7. Slope controlled by topography.
   8. Slope > 5%.

B. Zone 2 -- Zone of Transportation (Mid Reach)

1. Broader valleys.
2. Moderate flood plain development.
3. Streams flow through alluvium; substrate is gravel.
4. Less turbulent flow.
5. Moderately fluctuating temperatures.
6. Distinct pool and riffle development; pool-riffle spacing is a function of w/d and is related to sinuosity.
7. Slope 2 to 5%.

C. Zone 3 -- Zone of Deposition (Lower Reach)

1. Broad U-shaped valleys.
2. Extensive alluvial flood plains.
3. Substrate is sand, silt, or clay (<2mm).
4. Laminar flow - Tranquil Flow (Re<2000, Fr<1).
5. Higher more stable temperatures.
6. Minimal pool and riffle development; bedforms characterized by ripples, dunes, flat beds, standing waves and antidunes depending on flow velocity: have active beds at discharges less than bankful.
7. Slope is controlled by the gravel component.
8. Stream channel is easily modified by a single flood event.
9. Slope < 2%.

Lacustrine

The lacustrine ecosystem is the aquatic habitat which contains standing water. The classification of these ecosystems is made by categorizing them into four basic groups. Further seperation is based on the characteristics of nutrient condition. The following information illustrates the lacustrine categorization process and identifies some key properties important to use and management.

Lake	Naturally impounded body where littoral zone is small, limnetic zone is large.
Reservoir	Artifically impounded water body where littoral zone is small, limnetic zone is large.
Pond	Naturually impounded water body where littoral zone is large, limnetic zone is small or absent.
Tank	Artifically impounded water body where littoral zone is large, limnetic zone is small or absent.

The following guide (Arizona Clean Lakes Classification Study, p.15, 1983) is used to classify impounded water bodies:

Trophic State	Chlorophyll a (micro g/l)	Total Phosphorus (micro g/l)	Secchi Depth (m)
Oligotropic	<7	<10	>3.7
Mesotrophic	7-12	10-20	2.9-3.7
Eutrophic	>12	>20	<2.0

Information may not be aviable therefore a subjective classification is appropiate. As data becomes aviable these classifications can be up-dated.

The following generalized information relates to management implication for various water bodies:

Oligotrophic — Deep, hypolimnion larger than epilimnion.

1. Low primary productivity.
2. Littoral plants are scarce.
3. Plankton density is low.
4. Number of species may be large; plankton blooms are rare since nutrients rarely accumulate.
5. Stenothermnal fish - trout, cisco.

Eutrophic — Shallow, hypolimnion smaller than epilimnion or missing.

1. High primary productivity.
2. Littoral plants are abundent.
3. Plankton density is high.
4. "Blooms" are characteristic.
5. Heavy organic matter content - summer stagnation may be severe - exclude cold water fishes.

Physiographic

The landform classification system is as a hierarchical framework of basic concepts which will permit a high degree of reliability in landform classification and description. The hierarchical properties of the system are founded on the aggregation or disaggregation of geomorphic system components. In other words, it is based on homogeneity of process, history, and lithology. As one progresses from one level to a lower level, the range of variables becomes progressively smaller. This accounts for the apparent hierarchy based upon a landform's aerial extent. A landform's aerial extent, in turn, is determined by the magnitude of the geomorphic system. It is the magnitude and complexity of the geomorphic system which determines the positioning within the hierarchy.

Categories of the system are discussed in the following paragraphs:

REALM. The first order of magnitude landscape of the Earth is the total crustal or lithospheric surface of the Earth. A gross examination of a relief model of the Earth's crust reveals two groups of distinctly dissimilar areas: platform-like areas whose major surface lies above the ocean surface; and broad flat-bottomed basins occurring below the ocean surface. Thus, the first order crustal landscape is disaggregated into fourteen first order magnitude landforms, herein termed "realms": seven platform areas or continental masses and seven oceanic basins. The size of the first order landforms is of the magnitude of 10,000,000 square kilometers. Their degree of permanence is measured in hundreds of million years. The various geomorphic systems operating at this scale are dominated by geotectonic and geoclimatic environments. Thus, changes in the geomorphic systems are observable only over extremely long time spans.

MAJOR DIVISION. Second order landforms modify the continental masses and oceanic basins. An overview of any continental mass reveals large planar areas consisting of coastal and interior plains, and elevated plateaus, separated by mountain belts. (Geologically, the plains in general occupy stable cratons (1) which include both shield and platform areas; the plateaus often reflect epeirogenic (2) movement, and the mountain belts are zones of both orogenic (3) and epeirogenic movement). The second order landforms comprise the "major divisions" of Fenneman. Their magnitude of size is on the order of 1,000,000 square kilometers. Whereas many geomorphic systems are functioning at this order of magnitude, the extreme, the plains (cratons) represent areas that have sustained lasting

stability over a substantial portion of the geologic time scale. Opposed to this are the mountain belts which represent areas of more recent (in terms of the geologic time scale) tectonic activity. While the above logic has been applied to the continental masses, it applies equally to the oceanic basins.

PROVINCE. As used here, the term Province is synonymous with Fenneman's usage of the term. Provinces form the third order of landforms and their size is approximately 100,000 square kilometers. In general, provinces are major structural units which bound areas characterized by large scale similarity of topographic features. Each province exhibits a characteristic history of development, that is, it has been dominated by a geomorphic system which has been operating for several hundred million years.

SECTION. In accord with Fenneman, the first subdivision of a province results in a fourth order landform called a section. It is at this level where the effects of a single, broad climatic zone start to influence a landform in its entirety. In the case of a mountain range, it is a systematic variation of climate with altitude. Therefore, one process or environment is likely to have dominated the geomorphic system responsible for the landform's creation. In the Colorado Plateau Province, this is exemplified by the greater degree of fluvial dissection that has occurred in the Canyon Lands Section with which it shares a common boundary. In general, sections are structural units of limited regional extent (size magnitude is of the order of 10,000 square kilometers. In the Basin and Range Province the Mexican Highland Section is a structural unit which has experienced a greater degree of uplift that has the bounding structural unit encompassing the Sonoran Desert Section. Often sections are characterized by a lithologic group (igneous, metamorphic, sedimentary) such as the volcanics on the Datil Section.

REGION. A fifth order landform, herein termed a region, results from the subdivision of a fourth order section. The size magnitude of a region is on the order of 1,000 square kilometers. A region is characterized as having an individuality of tectonic elements, often coupled with a lithologic individuality. In many but not all instances, this results in a single relief type. (Exemplified by the Mogollon Slope Region and the Coconino Plateau Region). According to Fairbridge (1968, p. 622) the fifth order landforms represent the lower limit of isostatic compensation. (Isostatic compensation is: "The adjustment of the crust of the Earth to maintain equilibrium among units of varying mass and density; excess mass above is balanced by a deficit of density below, and vice versa." (Gary, and others, 1972, p. 377).

DISTRICT. A sixth order landform, herein termed a district, results from the subdivision of a fifth order region. A district represents a size magnitude of the order of 100 square kilometers. At this level of disaggregation individual lithologies are important from two major aspects: 1) the manner in which they influence tectonic style and pattern, and 2) the manner in which they react to a comparatively restricted geomorphic system. For example, there will be a significant difference in the landforms produced on a sandstone from those produced on a limestone even though both have been subjected to a geomorphic system dominated by a cool, humid climate and the associated processes and agencies. At times, however, a district may be defined in terms of a geomorphic process if it dominates over lithology. Examples of sixth order landforms could include individual fault blocks, fold structures, volcanic complexes, stream cut canyons, etc.

AREA. A seventh order landform, herein termed an area, results from the subdivision of a sixth order district. The size magnitude of an area is of the order of 10 square kilometers. At this level or order the interrelationship of lithology and surficial environments dominates any tectonic factors. In some circumstances process will be the criteria for differentiation, in others it will be lithology. Seventh order landforms could encompass such features as piedmonts, inselbergs, hanging valleys, lava flows, calderas, etc.

ZONE. An eighth order landform herein termed a zone, results from the subdivision of a seventh order area. The size magnitude of a zone is of the order of one square kilometer. Due to the limited size of an eighth order landform the geomorphic system influencing it is congruently limited in size and thus is limited to a relatively few parameters at any one point in time. The durability of an individual geomorphic system may likewise be of limited extent. Restrictive climatic controls and biotopes are important aspects of the prevailing geomorphic system. The same lithology will behave differently under different topographic conditions. To illustrate, assume a valley and bench topography on sandstone in a humid environment: 1) the dominant process on the bench top is chemical weathering, 2) the dominant process on the side slopes is mass wasting, and 3) the dominant process in the valley bottom is fluvial. Eighth order landforms could include such features as volcanic necks, river terraces, bolson deposits, pediments, etc.

LOCALE. A ninth order landform, herein termed a locale, results from the subdivision of an eighth order zone. The size magnitude of a locale is of the order of 100 square meters to one square kilometer. This constitutes about the smallest size magnitude of landform that could be depicted on a map having a scale of 1:24,000 (such as the U.S. Geological Survey's 7 1/2 minute topographic quadrangle series). The basis of subdivision to this level would be more restrictive limits placed on the controls limiting an eighth order landform. Ninth order landforms could include such features as mudflows, patterned ground, dunes, sinkholes, pointbars, slumpblocks, etc. At this level the mapping unit can be thought of as a complex of topographic elements or slope facets. Topographic elements are concave or convex slopes, steep or gentle slopes or nose or cove slopes.

COMPARTMENT AND FEATURE. Further subdivision of landforms through tenth (size magnitude of the order of one square meter to 100 square meters) and eleventh (size magnitude of the order of less than one square meter) order levels is equally feasible. In general, there could be little justification for mapping landforms of these orders. However, the determination of tenth and eleventh order landforms in many instances may provide invaluable diagnostic evidence for the interpretation of the genesis of a smaller order (larger size) landforms. The term "compartment", is herein applied to tenth order landforms which are individual topographic elements or slope facets. The term "feature" is herein applied to eleventh order landforms which could include such items as solution channels, stalagmites, ripple marks, spash impressions, and worm burrows, etc. Tenth and eleventh order landforms may experience an extremely transitory existence. In general, landforms of the tenth and eleventh orders are better suited to individual site investigations rather than general mapping.

Landform

Morphometric Criteria for Identification of Landforms 1/.

Slope less than 15 percent (plain slope).....Plain
- Associated bounding scarp slopes
  - At least one descending from.....Elevated plain
    - All descending from.....Summint plain
    - One ascending from.....Bench plain
  - At least two opposed ascending from
    - Mountains.....Intermontane plain
    - Valley side slopes.....Valley plain
  - Two mountain side slopes ascending from.....Piedmont plain
- Two or more slope elements
  - Postive relief
    - Closed contours

Magnitude of relief (meters)
1 to 30.....Hummock
Greater than 30.....Dome
Open contours.....Fan
Negative relief
Closed contours.....Basin
Open contours.....Swale
Slope greater than 15 percent (scarp slope) Scarp
Single slope element greater than 65 degrees.....Escarpment
Two or more slope elements
Postive relief
Closed contours
Magnitude of relief (meters)
1 to 30.....Mound
30 to 300.....Hill
Greater than 300.....Mountain
Open contours.....Cone
Negative relief
Closed contours.....Bowl
Open contours.....Valley

1/ Classification scheme by H. Gassaway Brown III, 04/25/86.

Gradient Analysis

Gradient analysis is used to integrate components of ecosystems with climate. The basis for the initial segmentation of the gradient into uniform segments is by soil moisture and temperature regimes. This results in the initial continuum. The correlation of indicator plants with the soil moisture-temperature regimes results in further refinement of the segments. This step is based on the following two concepts: (1) "That is, as noted above, that (1) the lower elevational limit of a given species of plant on the moisture-temperature gradient is controlled by deficient moisture, and (2) that the upper elevational limit is controlled by deficient heat. It is beyond reasonable doubt that these findings are correct." (Lowe, 1964, p. 89). (2) "At least for those who are concerned with land use, the climatic vegetation map remains therefore one of the most realistic climatic records aviable today." (Kuchler, 1967, p. 343). The final step consists of intergrating soil categories (Soil Taxonomy) to form individual terrestrial ecosystems. The resultant alignment of terrestrial ecosystems is a continuum of climax categories of vegetation and their associated soils. These ecosystems are arranged sequentially in climatic columns (life zones) numbered 1 to 8 along a climatic gradient from dry/hot to wet/cold. Within each climatic column, ecosystems can be related to climax and disclimax classes. It is possible to move from primary climax to disclimax or vice-versa within limits indicated in the columns but not between columns.

The following simplified diagrams illustrate the basic approach used in gradient analysis:

```
          CLIMATE                                          SOIL

V |                                                  |
e |                                                  |
g |                          *                       |
t |  **                    *    *                    |  **
a | *  *    *            *    *   *                  | *  *    *
t |A    * B  *        C    D   *  *                  |A    * B   *
i |    * *    *     *    *      *                    |    * *     *
o |  *    *     * *     *       *                    |  *    *       *
n |*_____*_____*_____*_________*                     |*_____*_______*_______*_
  Dry   |             |     Wet                      Dry          *  /Acidic        Wet
  Hot   |             |     Cold                     Hot        E   /              Cold
        |             |                                         *   /
        |  Climate    |                                        * */        Climate
        |     /\      |                                     F  */          /\   /
        <---- /  \ ---->                                     *  /           /  \ /
             / TE \                                          */Basic       / TE \
        Soil<------>Veg.                                 Parent        Soil<------>Veg.
                                                         Material
```

```
          TOPOGRAPHIC                                      TIME

                |                                                |
                |                                                |
                |  **                                            |  **
                | *  *                                           | *  *
                |A    *    *                                     |A    *    *
                |      * B  *                                    |      * B  *
                |    *  *    *                                   |    *  *    *
                |  *     *    *                                 |  *     *    *
_______________|*_______*____*_                                 _______________|*_______*____*__
Dry          *  /Valley      Wet                               Dry          *  /T=0 yrs       Wet
Hot        G   / Plain       Cold                              Hot        I   /              Cold
         *   /                                                 *   /
         * */          Climate                                 * */           Climate
       *  */             /\   /                               *  */             /\   /
       H  /             /  \ /                                J  /             /  \ /
        */ Mtn.        / TE \                                  */T=200 yrs    / TE \
                 Soil<------>Veg.                                         Soil<------>Veg.
                       /                                                        /
                      /                                                        /
```

An applied example of the gradient analysis process over time is illustrated in this diagram:

```
                                TIME

                                |
                                |                A = Psmeg
                                |  **            B = Abco
                                | *  *           I = Feth
                                |A    *    *     J = Potr2
                                |      * B  *
                                |    *  *    *
                                |  *     *    *
                                |*_______*____*__
_________________
Dry             *  /T=0 yrs  Edaphic/fire   Wet
Hot           I   /                         Cold
              *   /T=50=Feth  Edaphic/fire T=50=Popr Edaphic/fire/zootic
              * */
            *  */T=100=Potr2  Edaphic/fire
            J  /
             */T=200=Psmeg    Edaphic
```

National Oceanic and Atmospheric Adminstration sites (representative) were used to correlate long term data with the various climatic segments. These sources provide important information for a number of models (WEPP, ERHYM-II etc.). A lapse rate of one degree Celsius in 200 meters elevation was used in predicting mean annual air temperature.

Climatic information for terrestrial ecosystems was extrapolated to adjacent fluvial and lacustrine ecosystems. Table 5 contains the gradient analysis which includes basic information for integrating components to form terrestrial ecosystems. This table is arranged so that geographic area of application preceeds the anticipated life forms. Information is arranged by column number (life zones) and climate (LSC, HSC, HSM, and LSM). Next key indicator plants are aligned along the various gradients. Plant names (series) are listed across from the various climax classes. Next there is a series of data from selected climatic sites that best represent the various segments. This information is essentially an index of climatic properties associated with the ecosystems. This information is followed by a listing of possible soils and vegetation within each column. It is from this information that terrestrial ecosystems are identified. It is important to note that the information in this data set is a subset of a much larger data set contained in "Terrestrial Ecosystem Data Base".

Aviability of Information

Present

Information, in a tabular format for map units (components), their associted properties and selected interpretations are published in this report. A relational data base (R:Base for DOS) containing the tabular data was used to generate the majority of tables in this report. The data base, presently, requires approximately 1 mb of storage space. The tabular data base is designed to facilitate aviability of information, produce reports to specific needs (tables), and accomidate efficient up-date of interpretations. Part of the interpretations in Table 4a are the result of applying GTEIntrp model which calculates soil loss rates (t/ha/yr) directly from information stored in the data base and interpretative criteria presently programed in this model. Two options are available within this model. They are:

1. General use -- allows comparison within and among Forest. (Operational)
2. Project use -- allows for site specific assesment. (In-progress)

The following diagram illustrates the present phase of automation of reports:

```
        Tabular Data Base                          Reports
        (R:Base for DOS)
   |<---- Mapping Legend--------------------------> Table 1.
   |     Acreage and Extent for GES---------------> Table 2a., 2b., 2c.
   |<---- Map Unit Properties--------------------> Table 3.
   | |--> Interpretations--------------------------> Table 4a.
   | |
   | |    ____________________________
   | |<--|          Menu*             |
   |---->|                            |
         | E)xamine a tes record      |
         | A)dd a tes record          |
         | C)hange a tes record       |
         | D)elete a tes record       |
         | L)ist a tes record         |
         | R)un interpretative program |
         | K)ill an interpretative record |
         | I)ndex of interpretative records |
         | B)atch operation           |
         | Q)uit program              |
         |                            |
         | E A C D L R K I B Q ->     |
         |____________________________|
```

* GTEIntrp model programed in Quick Basic 4.0.

Interpretations via model	Interpretations via direct entry
Potential soil loss	Production potentials
Natural soil loss	Pipos
Current soil loss	Psmeg
Tolerance soil loss	Pien
Soil condition	Herbage/woody
Erosion hazard	Forage
Revegetation potential	Forage maximum
Reforestation potential	Fuelwood

Data Bases

There are two types of data bases presently aviable to users. These two data bases include one for spatial information and one for attributes associated with the spatial information. These two data bases are described as follows:

Spatial Data Base

The GES is digitized in a portable, vector format and referenced with Universal Transverse Mercator (U T M) or Lat/Long (x, y) coordinates. The poligon identifier is the map unit symbol. Each polygon is coded uniquely, to individually track information, by each delineation. The output for the GTES and GLES is in acres while the GFES is in miles.

Tabular Data Base

A relational data base (R:Base for DOS) is used to store, and retrive tabular information descriptive of the spatial units. The mapping legend is via direct entry (form), a similar form(s) is used for map unit properties, and interpretations are by direct entry (i. e. SI, forage etc.) or performed by a program. The following is a list of information contained in the two data bases:

SPATIAL DATA BASE

Attributes	Unit
Map unit number (Polygon identifier)	Numeric code
Total area	Acres/hectares
Total perimeter	Miles/kilometers
Linear distance	Miles/kilometers

RELATIONAL (TABULAR) DATA BASE

MAP UNIT LEGEND FILE

Attributes	Unit
Map unit number (Polygon identifier)	Numeric code
Component identifier (Map unit)	.1, .2, .3, .4
Component identifier (Inclusion)	.5, .6
Soil	Subgroup/family
Miscellaneous area	Rock outcroup etc.
Phase	Depth-rock fragments-texture
Climate class	LSC, HSC, LSM, HSM
Column	1-8 (life zone)
Variation within column	0, -1, +1
Vegetation	Series/subseries
Climax class	Edaphic, Topo-edaphic etc.
Kind of map unit	Consociation etc.
Slope of component (range)	%
Composition of map unit	%
Party Leader	Initials
Correlator	Initials
Data-Entry Operator	Initials
Date of Data Entry	Date

MAP UNIT PROPERTIES FILE

Attributes	Unit
Map unit number (Polygon identifier)	Numeric code
Component identifier	.1, .2, .3, .4
Composition	%
Landscape features	
Landform	Valley plains, hills, etc.
Elevation (range)	m
Slope gradient (average)	%
Slope length (average)	m
Slope class	Simple/complex
Slope shape (plan view)	Linear, concave, convex
Slope shape (cross section view)	Linear, concave, convex
Aspect	North, south etc.
Precipitation	cm
Parent material	Alluvium, ss
Condition	
Tolerance	t/ha/yr
Natural	t/ha/yr
Current	t/ha/yr
Canopy height	m
Canopy overstory	%
Surface components	
Rock fragments	%
Litter	%
Bare soil	%
Vegetation	%
Climax Plant Community	Species
Trees	% CC
Shrubs	% CC
Forbs	% CC
Graminoids	% CC
Fluvial	
Permanence	Name
Continuity	Name
Intake vs discharge of ground water	Name
Dominant fluvial process	Name
Lacustrine	
Lakes	Name
Reservoirs	Name
Oligotrophic	Name
Eutrophic	Name
Mesotrophic	Name
Ponds	
Location of representative site	T, R, S
Photograph - landscape	Map unit number
Photograph - current surface components	Map unit number
Photograph - natural surface conditions	Map unit number
Photograph - channel	Map unit number

MAP UNIT INTERPRETATIONS FILE

Attributes	Unit (rating)

Map unit mumber	Number
Component identifier	.1, .2, .3, .4
Soil loss (USLE)	
PSL, NSL, CSL, TSL	t/ha/yr
Soil condition	Sat/Unsat/Unsu
Erosion Hazard	Sight, Mod, Severe
Revegetation Potential	Low, Mod, High
Reforestation Potential	Low, Mod, High
Productivity Potentials	
Site index (Pipos, Psmeg, Pien)	Species/value
Fuel wood	cd/ac
Herbaceous/woody	lb/ac/yr
Forage	lb/ac/yr
Forage maximum	lb/ac/yr
High Water Table	
Depth	m
Months	Month(s)
Flooding	
Frequency	Frequent, rare etc.
Duration	Brief, long etc.
Months	Month(s)

GRADIENT ANALYIS FILE

Attributes	Units
Life form @ primary climax	Description
Soil classification	Classes (Subgroup)
Vegetation classification	Classes (Series)
Indicator plants	Species
NOAA	Location
Soil temperature/moisture study	Location
Climatic type (Trewatha)	Code
Climatic class	LSC, HSC, HSM, LSM
MAAT	Deg. C
AT by 4 seasons	Deg. C
AT by 2 seasons	Deg. C
AT by soil season	Deg. C
MAST @ 50 cm	Deg. C
MSST @ 50 cm	Deg. C
MWST @ 50 cm	Deg. C
MAST disclimax @ 50 cm	Deg. C
MSST disclimax @ 50 cm	Deg. C
FFP	Days
MAP	cm
P % ann. by 4 seasons	%
P % ann. by 2 seasons	%
P % ann. by soil season	%
MAS	cm
MASA	cm
Snow period	Months
A PET	cm
H20 balance	cm
MLSP	%
2 Yr. 6 hr storm	cm

Mean elevation	m
Soil temperature regime	Name
Soil moisture regime	Name

FIELD DATA FILE

LOCATIONAL DATA

Attributes	Units
Map unit number	Numeric code
State	AZ, NM
Forest	Name
Ranger district	Name
Date	01/17/89 etc
By	Initials
T, R, S	
Lat. Long.	Deg/min
Photo ID	
Map coverage	
Location	
Stop number (unique to photo etc.)	Number
Photo	
Representative site	
Notes1	

CLASSIFICATION OF ECOSYSTEM COMPONENTS

Attributes	Units
Component identifier	.1, .2, .3, .4
Climate	LSC, etc.
Component	Soil , vegetation etc.
% of map unit (map unit composition)	%

MAP UNIT PROPERTIES

Attributes	Units
Landform	Name
Elevation	m
Bedrock	Ls etc.
Phase	sandy loam etc.
Parent material	Residuum from limestone
Current surface components	%
Canopy	%
Slope	
Gradient	%
Aspect	North etc.
Shape, plan (Plan view)	Linear, concave etc.
Shape, sect. (Cross section view)	Linear, comcave etc.
Length	m
Class	Simple, complex
Kind of map unit	Consociation etc.
Climax class	Topo-edaphic etc.
Notes2	

DESCRIPTION OF SOIL COMPONENT

Attributes	Units
Horizon	A1, Bt2 etc.
Depth	cm
Texture	sl, cl, etc.
Clay percentage	%
Structure	
Rock fragements	
Roots	
Pores	
Color	
Reaction	
pH	
Efference	
Notes3	

DESCRIPTION OF VEGETATION

Attributes	Units
Trees	
canopy coverage	%
regeneration	%
Shrubs	
canopy coverage	%
regeneration	%
Forbs	
canopy coverage	%
Gramoniods	
canopy coverage	%
Notes4	

CHANNEL DESCRIPTION

Attributes	Units
Angle	
Left bank	%
Right bank	%
Gradient	%
Depth	m
Width	m
Substrate	
<.2cm	%
.2-7.5cm	%
>7.5 cm	%
Entrenchment	m
Notes5	

DESCRIPTION OF AQUATIC COMPONENTS

Attributes	Units

Peremence
Continuity
Intake/discharge
Fluvial process
Lake characteristics (oligotrophic etc.)
Notes6

LABORATORY DATA FILE - SOIL

Map unit number	
Component identifier	.1, .2, .3, .4
Soil	Name
Sample number	Number
Location	T. , R. , S.
Date	Number
Horizon	Symbol
Depth	cm
Texture	
Sand	%
Silt	%
Clay	%
Extractable bases	Meq/100g
Calcium	
Magnisum	
Sodium	
Potassium	
Cation exchange capacity	Meq/100g
Calcium carbonate	%
Organic carbon	%
Reaction (pH)	
Water content	300 pa
	1500 pa

LABORATORY DATA FILE - FLUVIAL

Alkalinity	MG/l
Specific conductance	UMHOS/cm
Sulfate	MG/l

LABORATORY DATA FILE - LACUSTRINE

Alkalinity	MG/l
Specific conductance	UMHOS/cm
Sulfate	MG/l

Future

There are numerous areas for improving the reliability of GES. Implementation of a GIS will greatly assist in the aviability, and up-dating of large, complex data bases.

Programs

Numerous programs are being tested or are in the process of being developed that will use or improve information contained in general ecosystem survey. A few are:

1. WEPP	In - progress - Hillslope version to replace USLE by 9/89.
2. Climate	In - progress
3. ERHYM-II	In - progress - Modified by FS, R3
4. Recovery rates for TE	In - progress
5. TEAMS	In - progress - Northern Arizona University - 1990

By 1995, an improved soil loss prediction model (Water Erosion Prediction Project) will be in use nationwide. "The model, which applies to field-sized areas, will be in three versions: a landscape profile (hillslope) version that applies to landscape profiles similiar to those for USLE except that WEPP model considers depositional areas (1989), a small watershed version that uses a representative landscape profile and considers waterways within the application area, and a grid version that computes sediment movement at all points and in all waterways over a field-sized area (1995)." (USDA, Abstract, 1987)

The program entitled "Climate" will allow for classifying climate by Trewartha's method.

"ERHYM-II is a climate/water/balance model which provides daily simulation of soil water evaporation, transpiration, runoff, and soil water routing for individual range sites. Herbage yield is computed annually at peak standing crop. The model can utlize real-time climatic data to simulate ongoing processes, or it can utlize long-term weather records to simulate runoff and herbage production under a range of climatic conditions and management practices." (Wright, 1987, p.1).

Recovery rates for TE will assist in developing realistic restoration plans.

"TEAMS (Terrestrial Ecosystem Analysis and Modeling System) is a tactical planning system designed to aid forest managers in developing site-specific management schedules that will confirm to standards and guidlines specified by forest plans and will acheive stated goals. It projects outcomes of treatment alternatives and displays results in graphic, tabular, and map forms. With these results, managers may develope and test other treatment alternatives in response to preceived problems and opportunities. TEAMS is thus an interactive tool that ultimately depends on human judgement and expertise for a final decision. Its function is to provide decision-makers with rapid feedback on the consequences of management alternatives." (Covington, 1988, p. 2).

Remote Sensing

Technology exist to use remote sensing information to classify, map and monitor land and water condition. The size and shape of many Southwestern ecosystems can be determined from remote sensed data.

Future mapping will be at a scale of 1:100000 and correlated with:

1. Thematic Mapper
2. Multi-spectral Scanner
3. Digitial Elevation Models (Klingebiel, A. A and others, 1988)

to develope classifications and land cover types.

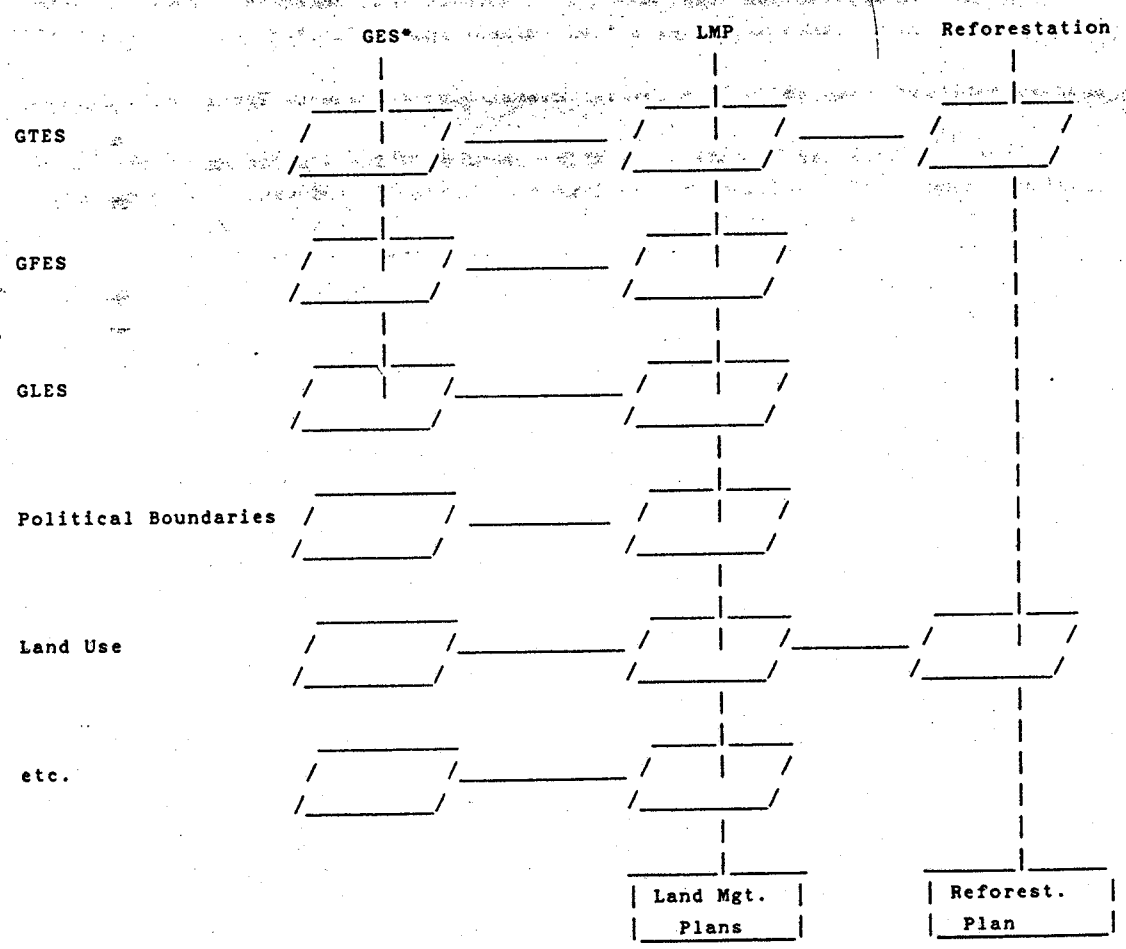
Important stages for the future GES is depicted in the following diagram:

```
                                        |-----------------------------|
                                        |                             V
Thermatic Mapper--------->|             |                          .
Multi-spectral Scanner--->|--->Remote Sensing                GIS<-->Monitoring-->
Aerial photography ------>|             |                       |
  Infrared                              |-->Classification      |
  etc.                                          |               |
     Digital Elevational Model (DEM) Data----->|-->Mapping-->|
                                                  (1:100000)
```

Geographic Information System

Information relating to the GES is specifically designed for incorporation within a geographic information system (GIS). The digitized maps and tabular data bases can easily be linked resulting in a GIS.

The following is an overview of combinations through a GIS of source data used to answer management questions:



* Note that GES (GTES, GFES, and GLES) is an integrated survey therefore soil, water, vegetation (potential), climate, topography, aspect etc. are an integral part of the ecosystem as mapped. Seperate maps (layers) for topography etc. arbitrarily combined with GES could result in erroneous interpretations.

Updating the General Ecosystem Survey

The following outline contains the procedure to be used in updating GES:

A. GES maps, legend and data base further evaluated by users (RO, SO and RD).
   1. Changes are not required - continue use and testing as appropriate.
   2. Changes are needed - proceed to step B.
B. Process for proposing and finalizing changes in GES.
   1. Evaluate taxonomic units and climate by gradient analysis.
      a. Provide to Regional Office, WSA the required documentation to adjust gradient analysis, legend, map unit data base, or map.
      b. Major changes will require field varification by correlator.
      c. Color 35 mm slide(s) are required for illustrating landscape, current surface condition, stream channel and or lake shore condition etc.
   2. Correlation of proposed new map units and associated properties.
   3. Adjustments made to interpretations.
   4. Changes are entered into legend, map unit properties data base, gradient analysis, or maps.
C. Future mapping will be at a scale of 1:100000. This will improve the reliability of the generalized survey.

The form contained in this section should be completed when evaluating GES map units. The area of observation, for vegetation, is a 375 square meter circular plot. This plot, in valley plain units, should be placed so that it includes the edge of streambank. Many soils with aquic soil moisture regimes may not extend 22 meters from the stream bank. The plot must be adjusted to accommodate this situation and documented on the form.

The following instructions are used to complete "Field Data Collection Form".

1. Locational Data
   A. Map unit number, State, Forest, Ranger District, date and By -- self explanatory
      T,R,S -- Township, Range, Section (list by quarter, quarter where possible)
      Lat, Long -- Latitude and longitude of site to nearest .1 minute. Directions for determining this are as follows:

      1. Construct a bounding box by connecting the interior latitude-longitude tick marks bounding the point to be measured. If the point occurs close to one of the lines, it may be necessary to extend the bounding lines to the next tick marks.
      2. Actual measuring will be done with a decimally divided scale (engineer's scale, not architect's scale). The lat - long tick marks on a 1:250,000 scale map are depicted at 15 minute intervals. To determine the points lat and long it is necessary to subdivide the area between the bounding lines into 15 equal segments. On this scale of map, the "30" level on the engineer's scale will work well.
      3. To determine latitude, place the scale's '0' unit on the lower or southern bounding latitudinal line and the '15' unit on the upper or northern bounding latitudinal line. This will require that the scale be slanted with respect to major and minor map axes. Maintaining this orientation, move the scale left or right until it intersects the point to be measured. Check that the '0' and '15' units are still in contact with the appropriate bounding lines and make any necessary adjustment. Count the number of units (to the nearest 0.1 unit)between the lower line ('0') and the point. Add this number, which is in minutes, to the latitudinal value of the lower line which is marked on the map.

4. To determine longitude, place the scale's '0' unit on the right or eastern bounding longitudinal line and the '15' unit on the left or western bounding longitudinal line. Using the procedure described above, determine the number of units (to the nearest 0.1 unit) between the eastern line and the point. Add this number, which is in minutes, to the longitudinal value of the eastern bounding line.

Photo Identification -- Flight number etc.
Map Coverage -- Name of quad sheet where site is located
Locality -- Common name of locale (T-Bone Allotment, Gila river etc.)
Stop Number -- Number on that quad sheet (Start with "1" by Forest on each sheet)
Photo -- 35 mm slide for landscape, current surface components, and channel (if applicable).

Information should be recorded on the slides according to the following format:

```
| M. U. Number                    Forest |
| T R S                           By     |
| Date                                   |
| Stream, lake, or pond name             |
|                                        |
|        |                    |          |
|        |                    |          |
|        |                    |          |
|        |                    |          |
|        |                    |          |
|        |                    |          |
|        |                    |          |
| Soil                        Fluvial    |
| Vegetation                  Lacustrine |
| Climate                                |
|________________________________________|
```

Representative site -- indicate as yes or no. Information will be used to drive models etc.
Notes -- descriptive material not included in form but necessary.

2. Classificatiion of Ecosystem Components
   Component number -- .1, .2, .3, .4
   Terrestrial -- enter soil/vegetation, miscellaneous area.
   Aquatic -- enter stream, lake or pond
   Percent composition -- list percent of map unit composition.

3. Map Unit Properties for Ecosystems
   Landform -- self explanitory -- see GES report.
   Elev. -- Elevation in meters.
   Bedrock -- Common name for bedrock underlying soil.
   Phase -- Phase (eg. deep, gravelly, loam, compacted)
   Parent Material -- Parent material (eg. residuum, limestone)
   Current Surface Cover -- see GES report.
   Canopy -- Ht. (height) and OvStr. (overstory) -- see GES report.
   Slope -- Gradient, Aspect, etc., -- see GES report.
   Kind of map unit -- consociation, complex, etc.
   Climax class -- topo-edaphic/zootic (grazing)

4. Description of Soil Component

All -- Complete according to TESH and National Soil Survey Manual.

Notes -- include information on consistence (ie firm surface soil) to support compactrd phases, and description of gully erosion for gullied phases etc.

5. Description of Vegetation Component

Describe existing vegetation that characterizes the TE being evaluated. This information is used to compare present condition with potential listed in the data base. In addition to species names and canopy cover, list number of regenerating seedling and sapling trees per species and number of regenerating seedling and sapling shrubs per species.

6. Channel Description

Angle -- The angle (looking down stream of left and right banks) of the streambanks.

Gradient -- The slope (in percent) of the stream.

Depth -- The approximate depth of the channel.

Width -- The approximate width of the channel.

Substrate -- Estimate of the percent of each size class in the channel bed.

Entrenchment - Estimate of the amount the stream is entrenched. This is an evaluation of vertical incision of a channel usually due to rejuvenation (increased flow, change of gradient, etc.). In many cases entrenchment of the the channel has resulted in lowering of the water table and significantly changing site potential.

Notes -- description of information not in form.

7. Description of aquatic Components

Permenance -- see GES report.

Continuity -- see GES report.

Intake and discharge of ground water -- see GES report.

Fluvial -- see GES report.

Lakes -- see GES report.

Other -- selected properties not included in form.

Notes -- description of information not in form.

Figure 6. Field Data Collection Form For General Ecosystem Survey.

FIELD DATA COLLECTION FORM
General Ecosystem Survey

LOCATIONAL DATA

MU No:	State:	For:	RD:	Date:	By:
T ,R , 1/4, 1/4,S	Lat: N deg. min.:			Long. W deg. min	
Photo ID:		Map cover:		Loc:	
Stop No:	Photo:				Rep. site:
Notes1:					

CLASSIFICATION OF ECOSYSTEM COMPONENTS

Cp	Climate	Component (soil, not-soil, vegetation, stream, lake, pond)	% ofMU
.			%

MAP UNIT PROPERTIES FOR ECOSYSTEMS

Landform:			Elev: m		Bedrock :		
Phase:					Parent Mat.:		
Current Surface Cover			Canopy		Slope :		
Rock	Litter	Soil	Veg.	Ht.	OvStr.	Gradient :	%
>2mm	>2.5cm		BA	Base	T/Sh	Aspect :	deg.
		%		m	%	Shape, Plan:	
						Shape, Sect:	
Kind of MU :						Length :	m
Climax Class:						Class :	
Notes2:							

DESCRIPTION OF SOIL COMPONENT

Horz	Depth	Texture	Clay	Structure	Rock F	Roots	Pores	Color	Reaction	
	cm	USDA	%		%			dry	pH	eff

Notes3:

DESCRIPTION OF VEGETATION COMPONENT

Trees	%cc	Regen.	Shrubs	%cc	Regen.	Forbs	%cc	Gramin.	%cc

Notes4:

CHANNEL DESCRIPTION

Angle		Grad.	Depth	Width	Substrate			Entrenchment
deg.		%	m	m	<.2cm	.2-7.5cm	>7.5cm	m
L.	R.				%	%	%	

Notes5:

DESCRIPTION OF AQUATIC COMPONENTS

Permenance	Continuity	Intake/disch	Fluvial Proc	Lakes	Other

Notes6:

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Glossary

Accurate: 2. consistent with a standard, rule, or model; (The Random House College Dictionary, 1973, p. 10).

Aquatic habitat: An aquatic habitat is one in which water is the principal external as well as internal medium (Odum, 1971, p. 295).

Aquic: A mostly reducing soil moisture regime nearly free of dissolved oxygen due to saturation by ground water or its capillary fringe and occurring at periods when the soil temperature at 50 centimeters is above 5 degrees C (SCSA, 1982, p. 9).

Aquifer: An aquifer is a formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs (Lohman and others, 1973, p. 2).

Capillary fringe: "The capillary fringe is the zone immediately above the water table in which all or some of the interstices are filled with water that is under less than atmospheric pressure and that is continuous with the water table" (Lohman and others, 1973, p. 3).

Climax community: The highest ecological development of a plant community capable of perpetuation under the prevailing climatic and edaphic conditions. (SCSA, 1982, p. 26).

Continuous stream: A continuous stream is one that does not have interruptions in space. It may be perennial, intermittent or ephemeral, but it does not habitually have wet and dry stretches" (Meinzer, 1923, p. 59).

Cryic: A soil temperature regime that has mean annual soil temperatures of more than 0 degrees C, but less than 8 degrees C, and more than 5 degrees C difference between mean summer and mean winter soil temperatures at 50 centimeters, and cold summer temperatures (SCSA, 1982, p. 38).

Current soil loss: The rate of soil erosion occurring under existing conditions of effective ground cover.

Deepwater habitats: Are permanently flooded lands lying below the deepwater boundary of wetlands. Deepwater habitats include environments where surface water is permanent and often deep, so that water, rather than air, is the principal medium within which the dominant organisms live, whether or not they are attached to the substrate. As in wetlands, the dominant plants are hydrophytes; however, the substrates are considered nonsoil because the water is to deep to support emergent vegetation (U.S. Soil Conservation Service, Soil Survey Staff 1975). (Cowardin, 1979, p. 3).

Ecosystem: The interaction system of biologic community and its nonliving environment; a community together with its environment; an ecological system. (SCSA, 1982, p. 52).

Ephemeral stream: "An ephemeral stream, or stretch of a stream, is one that flows only in direct response to precipitation. It receives no water from spring and no long-continued supply from melting snow or other surface source. Its stream channel is at all times above the water table. The term may be arbitrarily restricted to streams or stretches of streams that do not flow continuously during periods of as much as one month" (Meinzer, 1923, p. 58).

Epilimnion: The upper, warm circulating water is the epilimnion ("surface lake") (Oduum, 1971, p. 311).

Erosion: (1) The wearing away of the land surface by running water, wind, ice, or other geological agents, including such processes as gravitational creep. (2) Detachment and movement of soil or rock fragments by water, wind, ice or gravity. The following terms are used to describe different types of water erosion:

Accelerated erosion: Erosion much more rapid than normal, natural, or geologic erosion, primarily as a result of the influence of the activities of man or, in some cases of other animals or natural catastrophies that expose bare surfaces, for example, fires.

Geological erosion: The normal or natural erosion caused by geological processes acting over long geologic periods and resulting in the wearing away of mountains, the building up of floodplains, coastal plains, etc; also called natural erosion. (SCSA, 1982, p. 55).

Floristics: The list of plant species in an area as determined by evolution, dispersal, migration, and other factors of the history of that area.(W. Moir, personal conversation)

Forb: A herbaceous plant that is not a grass, sedge, or rush. (SCSA, 1982, p. 65).

Fresh-water habitats: Freshwater habitats may conveniently be considered in two series, as follows: standing-water, or lentic (lenis calm), habitats: lake, pond, swamp, or bog. Running water, or lotic (lotus, washed) habitats: spring, stream (brook-creek), or river. (Odum, 1971, p. 295).

Gaining stream: A gaining stream, formerly called an effluent stream, "is a stream or reach of a stream whose flow is being increased by (an) inflow of ground water" (Lohman and others, 1973, p. 13). "The upper surface of a (gaining) stream is lower than the water table or other piezometric (potentiometric) surface of the aquifer from which it receives water" (Meinzer, 1923, p. 56).

Geographic information system: An information system that can input, manipulate, and analyze geographically referenced data to support the decision-making process of an organization. (Johannsen, 1982, p. 644).

Ground water: Ground water is that portion of the subsurface water within the zone of saturation (Meinzer 1923, p. 5). It may be confined or unconfined. "Confined ground water is under pressure significantly greater than atmospheric, and its upper limit is the bottom of a bed of distinctly lower hydraulic conductivity than that of the material in which the confined water occurs" (Lohman and others, 1973, p. 7).

Herb: Any flowering plant except those developing persistent woody bases and stems above ground. (SCSA, 1982, p. 75).

Herbaceous: A vascular plant that does develope woody tissue. (SCSA, 1982, p. 75).

Hydric soil: A hydric soil is a soil that in its undrained condition is saturated, flooded, or ponded long enough during the growing season to develope anarobic conditions that favor the growth and regeneration of hydrophytic vegetation. (Soil Conservation Service, Nov. 1985, p .1).

Hypolimnion: The lower, colder noncirculating water is the hypolimnion ("under lake") (Odum, 1971, p. 311).

Infiltration rate: A soil characteristic determining or describing the maximum rate at which water can enter the soil under specified conditions, including the presence of an excess of water (SCSA, 1982, p. 80).

Intermittent stream: A intermittent stream, or reach of a stream, is one that flows only at certain times of the year when it receives water from springs or surface run-off. An intermittent reach of a stream may result when water loss through evapotranspiration or seepage exceeds the available streamflow (Gary et. al., 1974, p. 366). "The term may be arbitrarily restricted to streams or stretches of streams that flow continuously during periods of at least one month" (Meinzer, 1923, p. 58). "The intermittent character of "spring-fed streams" is generally due to fluctuations of the water table whereby the stream channels stand a prt of the time below and part of the time above the water table" (Meinzer, 1923, p. 57). Surface-fed intermittent streams often result from protracted periods of snow-melt (Meinzer, 1923, p. 58).

Interrupted stream: An interrupted stream is one which contains (a) perennial stretches with intervening intermittent or ephemeral stretches or (b) intermittent stretches with intervening ephemeral stretches" (Meinzer, 1923, p. 58).

Landform: A discernible natural landscape that exist as a result of geological activity, such as a plateau, plain, basin, mountain, etc. (SCSA, 1982, p. 87).

Limnetic zone: "The open water region of a lake, especially in areas too deep to support rooted aquatic plants. This region supports plankton and fish as the principal plants and animals." (FWPCA, 1969, p. L-2).

Littoral zone: The shallow area that extends from shore to the lakeward limit of rooted aquatic plants. (FWPCA, 1969, p. L-2).

Losing stream: A losing stream, formerly called an influent stream, "is a stream or reach of a stream that is losing water to the ground" (Lohman and others, 1973, p. 13). The upper surface of a (losing) stream stands higher than the water table or other piezometric (potentiometric) surface of the aquifer to which it contributes" (Meinzer, 1923, p. 56).

Mineral soil: A soil consisting predominantly of, and having its properties determined predominantly by, mineral matter, usually containing less than 20 percent organic matter.

Organic soil: A soil that contains a high percentage (greater than 20 or 30 percent) of organic matter throughout the solum (SCSA, 1982, p. 113).

Perennial stream: "A perennial stream, or stretch of a stream, is one that flows continuously. Perennial streams are generally fed in part by springs, and their upper surfaces generally stand lower than the water table in the localities through which they flow" (Meinzer, 1923, p. 57).

Pergelic: A soil temperature regime that has mean annual temperature less than 0 degrees C Permafrost is present (SCSA, 1982, p. 120).

Phreatophyte: "A phreatophyte is a plant that habitually obtains its water supply from the zone of saturation, either directly or through the capillary fringe: (Meinzer, 1923, p. 55).

Potentiometric surface: The potentiometric, formerly called piezometric, surface "is a surface which represents the static head" (Lohman and others, 1973, p. 11). As related to an aquifer, it "is an imaginary surface connecting points to which water would rise in tightly cased wells from a given point in an aquifer. It may be above or below the land surface. The water table is a particular potentiometric surface" (Lohman, 1972, p. 8).

Precision: 2. mechanical exactness 4. math. the degree to which the correctness of a quanity is expressed. (The Random House College Dictionary, 1973, p.1043).

Profundal zone: The bottom and deep water area which is beyond the depth of effective light penetration. The zone is often absent in ponds. (Odem, 1971, p. 301).

Reliable: Information that can be depended upon with confident certainity. (The Random House College Dictionary, 1973, p. 1114).

Saturated zone: The saturated zone, formerly called the phreatic zone, "is that part of the water-bearing material in which all voids, large and small, are ideally filled with water under pressure greater than atmospheric" (Lohman and others, 1973, p. 14). The term is synonomous with ground water (Meinzer, 1923, p. 5).

Shrub: A woody perennial plant differing from a tree by its low stature and generally, by its production of several basal shoots instead of a single bole. (SCSA, 1982, p. 145).

Soil: (1) The unconsolidated mineral and organic material on the immediate surface of the earth that serves as a natural medium for the growth of land plants. (2) The unconsolidated mineral matter on the surface of the earth that has been subjected to and influenced by genetic and environmental factors of parent material, climate (including moisture and temperature effects), macro- and micro-organisms, and topography, all acting over a period of time and producing and product-soil-that differs from the material from which it is derived in many physical, chemical, biological, and morphological properties and characteristics. (3) A kind of soil is the collection of soils that are alike in specified combinations of characteristics. Kinds of soil are given names in the system of soil classification. See soil classification. The terms "the soil" and "soil" are collective terms used for all soils, equivalent to the word "vegetation" for all plants (SCSA, 1982, p. 149).

Soil: Soil is "the collection of natural bodies on the earth's surface, in places modified or even made by man of earthy materials, containing living matter and supporting or capable of supporting plants out-of-doors. Its upper limit is air or shallow water. At its margins it grades to deep water or to barren areas of rock or ice. Its lower limit to the not-soil beneath is perhaps the most difficult to define. Soil includes the horizons near the surface that differ from the underlying rock material as a result of interactions, through time, of climate, living organisms, parent materials, and relief. In the few places where it contains thin cemented horizons that are impermeable to roots, soil is as deep as the deepest horizon. More commonly soil grades at its lower margin to hard rock or to earthy materials virtually devoid of roots, animals, or marks of other biologic activity. The lower limit of soil, therefore, is normally the lower limit of biologic activity, which generally coincides with common rooting depth of native perennial plants" (430-V-SSM, April 1984).

Soil taxonomic unit: A unit of all soils that fall within the defined limits of a class at any categoric level in a system of soil classification. (SCSA, 1982, p. 162).

Soil temperature classes for family groupings (as used in Soil Taxonomy, a classification system of the National Cooperative Soil Survey in the United States): Classes are based on mean annual soil temperature and difference between mean summer and mean winter temperature. Soil temperature is determined at a depth of 50 centimeters or at a lithic or paralithic contact, whichever is shallower. Unless used in a higher category, soil temperature classes are used at the family level as follows: (1) Soils with 5 degrees C (9 degrees F) or more difference between mean summer (June, July, and August) and mean winter (December, January, and February) temperatures, and with mean annual soil temperatures as follows: less than 8 degrees C, frigid; 8 degrees C to 15 degrees C, mesic; 15 degrees C to 22 degree C, thermic; and more than 22 degrees C, hyperthermic.

(2) Soils with less than 5 degrees C difference between mean summer and winter soil temperatures, and with mean annual soil temperatures as follows: less tha 8 degrees C, isofrigid; 8 degrees C to 15 degrees C, isomesic; 15 degrees C or 22 degrees C, isothermic, and 22 degrees C or higher, isohyperthermic (SCSA, 1982, p. 161).

Surface water: Surface water is all water occurring on the earth's surface (Meinzer, 1923, p. 5). It does not include atmospheric water.

Tree: A woody perennial that reaches a mature height at least 8 feet (2.4 m), except genetic dwarfs, and has a well-defined stem and a definate crown shape; sometimes there is no clear-cut distinction between a small tree and a shrub. See shrub. (SCSA, 1982, p. 178).

Udic: A soil moisture regime that is neither dry for as long as 90 cumulative days, nor for as long as 60 consecutive days in the 90 days following the summer solstice at periods when the soil temperature at 50 centimeters is above 5 degrees C (SCSA, 1982, p. 180).

Unsaturated zone: The unsaturated zone, formerly called the zone of aeration and/or the vadose zone, "is the zone between the land surface and the water table. It includes the capillary fringe. Characteristically this zone contains liquid water under less than atmospheric pressure, and water vapor and air or other gases generally at atmospheric pressure" (Lohman and others, 1973, p. 14).

Ustic: A soil moisture regime that is intermediate between the aridic and udic regimes and common in temperate sub-humid or semiarid regions, or in tropical and subtropical regions with a monsoon climate. A limited amount of moisture is available for plants but occurs at times when the soil temperature is optimum for plant growth (SCSA, 1982, p. 181).

Water table: "The water table is that surface in an unconfined water body at which the pressure is atmospheric" (Lohman and others, 1973, p. 14). It is that imaginary surface within an unconfined aquifer at which the pressure is atmospheric" (Lohman, 1972, p. 1); below the water table the pressure is greater than atmospheric: above the water table the pressure is less than atmospheric. It is the upper surface of the unconfined zone of saturation (Trauger, 1972, p. 118) and thus is the upper surface of the unconfined ground water.

Wetlands: Are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification wetlands must have one or more of the following three attributes: (1) at least periodically, the land supports predominantly hydrophytes; (2) the substrate is predominantly undrained hydric soil; and (3) the substrate is nonsoil and is saturated with water or covered by shallow water at some time during the growing season of each year. (Cowardin, 1979, p. 3).

Appendix A

Table 1. Mapping Legend For General Ecosystem Survey. USDA-FS, R-3 Date 03/14/89 Page 1

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
82	0.2	Typic Hapaquolls	deep	HSM	---	5-15 %	---
		,	---	5	---	--- %	
		,frigid	---	---	---	Topo-edaphic	
		---	---		---	Association	
101	0.1	Aridic Haplustalfs	deep	LSM	Prve	0-15 %	---
		,	gravelly	3	---	90 %	
		, thermic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Consociation	
101	0.5	Aridic Ustochrepts	---	LSM	Prve	0-15 %	---
		,	gravelly	3	---	10 %	
		, thermic	loam	---	---	Edaphic/zootic	
		---	compacted		---	---	
103	0.1	Vertic Haplustalfs	deep	LSM	Prve	0-15 %	---
		,	---	3	---	50 %	
		, thermic	clay loam	---	---	Edaphic/zootic	
		---	---		---	Association	
103	0.2	Aridic Haplustalfs	deep	LSM	Prve	15-40 %	---
		,	very cobbly	3	---	40 %	
		, thermic	loam	---	---	Edaphic	
		---	---		---	Association	
103	0.5	Aridic Haplustalfs	deep	LSM	Prve	0-15 %	---
		,	---	3	---	10 %	
		, thermic	loam	---	---	Edaphic/zootic	
		---	compacted		---	---	
110	0.1	Aridic Haplustalfs	deep	LSM	Prve	0-15 %	---
		,	gravelly	3	---	40 %	
		, thermic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
110	0.2	Typic Haplustalfs	deep	LSM	Qutu2	15-40 %	---
		,	cobbly	4	---	20 %	
		, mesic	sandy loam	---	---	Edaphic/fire	
		---	---		---	Association	
110	0.3	Aridic Haplustalfs	deep	LSM	Prve	15-40 %	---
		,	cobbly	3	---	20 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
110	0.5	Aridic Ustochrepts	deep	LSM	Prve	15-40 %	---
		,	cobbly	3	---	10 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
110	0.6	Ardic Ustochrepts	deep	LSM	Prve	0-15 %	---
		,	gravelly	3	---	10 %	
		, thermic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	---	
120	0.1	Aridic Haplustalfs	deep	HSC	Gusa2	0-15 %	---
		,	---	3	---	50 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
120	0.2	Aridic Ustochrepts	deep	HSC	Stne2	15-40 %	---
		,	gravelly	3	---	40 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
120	0.5	Aridic Hpalustalfs	deep	HSC	Hija	15-40 %	---
		,	gravelly	3	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
121	0.1	Vertic Haplustalfs	deep	LSM	Jude2	0-15 %	---
		,	very cobbly	4	---	50 %	
		, mesic	clay loam	---	---	Edaphic/zootic	
		---	---		---	Association	
121	0.2	Typic Haplustalfs	deep	LSM	Quar	15-40 %	---
		,	very stony	4	---	30 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
121	0.5	Typic Haplustalfs	deep	LSM	Quar	0-15 %	---
		,	very cobbly	4	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	---	
121	0.6	Lithic Haplustalfs	shallow	LSM	Quar	15-40 %	---
		,	very stony	4	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	---	
122	0.1	Typic Haplustalfs	deep	LSC	Juos	0-15 %	---
		,	---	4	---	50 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
122	0.2	Fluventic Ustochrepts	deep	LSC	Juos	2-5 %	---
		,	---	4	---	30 %	
		, mesic	loam	---	---	Topo-edaphic/zootic	
		---	gullied		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
122	0.5	---	---	LSC	---	0-2 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
122	0.6	Typic Ustifluvents	deep	LSC	Juos	0-2 %	---
		,	cobbly	4	---	10 %	
		nonacid, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	---	
124	0.1	Typic Haplustalfs	moderately deep	LSC	Juos	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Complex	
124	0.2	Typic Ustochrepts	moderately deep	LSC	Juos	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Complex	
124	0.3	---	---	LSC	---	80-120 %	---
		,	---	4	---	20 %	
		, ---	---	---	---	---	
		Basalt rock outcrop	---		---	Association	
124	0.5	Lithic Haplustalfs	shallow	LSC	Juos	40-80 %	---
		,	very stony	4	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	---	
124	0.6	Typic Haplustalfs	deep	LSC	Juos	15-40 %	---
		,	cobbly	4	---	10 %	
		, mesic	loam	---	---	---	
		---	---		---	---	
126	0.1	Aridic Haplustalfs	deep	LSM	Prve	40-80 %	---
		,	extremely stony	3	---	30 %	
		, thermic	loam	---	---	Edaphic	
		---	---		---	Association	
126	0.2	Typic Haplustalfs	deep	LSM	Qutu2	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic/fire	
		---	---		---	Association	
126	0.3	---	---	LSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Basalt rock outcrop	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
126	0.4	---	---	LSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Basalt rock outcrop	---		---	Association	
126	0.5	Lithic Haplustalfs	shallow	LSM	Fosp2	40-80 %	---
		,	extremely stony	3	---	10 %	
		, thermic	loam	---	---	Edaphic/fire	
		---	---		---	---	
127	0.1	Typic Ustochrepts	deep	HSM	Qutu2	15-40 %	---
		,	very cobbly	4	---	60 %	
		, mesic	sandy loam	---	---	Edaphic/fire/zootic	
		---	gullied		---	Association	
127	0.2	Typic Haplustalfs	deep	HSM	Qutu2	0-15 %	---
		,	gravelly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	Association	
127	0.5	Typic Haplustalfs	deep	HSM	Qutu2	15-40 %	---
		,	very cobbly	4	---	10 %	
		, mesic	loam	---	---	Edaphic/fire	
		---	---		---	---	
128	0.1	Typic Haplustalfs	deep	LSM	Qutu2	0-15 %	---
		,	gravelly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	Association	
128	0.2	Typic Ustochrepts	deep	LSM	Qutu2	15-40 %	---
		,	very cobbly	4	---	60 %	
		, mesic	sandy loam	---	---	Edaphic/fire	
		---	---		---	Association	
128	0.5	Typic Haplustalfs	deep	LSM	Qutu2	15-40 %	---
		,	very cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic/fire	
		---	---		---	---	
129	0.1	Typic Haplustalfs	deep	HSC	Jumo	0-15 %	---
		,	---	4	---	60 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
129	0.2	Typic Ustochrepts	deep	HSC	Jumo	15-40 %	---
		,	very gravelly	4	---	20 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
129	0.5	Typic Haplustalfs	deep	HSC	Jumo	15-40 %	---
		,	very gravelly	4	---	10 %	
		, mesic	sandy loam	---	---	---	
		---	---		---	---	
129	0.6	Typic Ustorthents	deep	HSC	Jumo	15-40 %	---
		,	very gravelly	4	---	10 %	
		, mesic	sandy loam	---	---	---	
		---	---		---	---	
130	0.1	Typic Haplustalfs	deep	HSC	Jumo	0-15 %	---
		,	---	4	---	80 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Consociation	
130	0.5	Lithic Haplustalfs	shallow	HSC	Jumo	0-15 %	---
		,	very stony	4	---	10 %	
		, mesic	sandy loam	---	---	---	
		---	---		---	---	
130	0.6	Typic Ustochrepts	deep	HSC	Jumo	0-15 %	---
		,	cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
131	0.1	Typic Haplustalfs	deep	HSC	Jumo	15-40 %	---
		,	very cobbly	4	---	80 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Consociation	
131	0.5	Typic Ustochrerpts	deep	HSC	Jumo	0-15 %	---
		,	very cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
131	0.6	Lithic Haplustalfs	shallow	HSC	Jumo	15-40 %	---
		,	very cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
132	0.1	Typic Haplustalfs	moderately deep	HSC	Jumo	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
132	0.2	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
132 0.3	---	---	HSC	---	80-120 %	---
	,	---	4	---	15 %	
	, ---	---	---	---	---	
	Sandstone rock outcrop	---		---	Association	
132 0.4	---	---	LSC	---	80-120 %	---
	,	---	6	---	15 %	
	, ---	---	---	---	---	
	Sandstone rock outcrop	---		---	Association	
132 0.5	Typic Eutroboralfs	deep	LSC	Pipos	40-80 %	---
	,	extremely cobbly	5	---	10 %	
	, ---	loam	---	---	---	
	---	---		---	---	
134 0.1	Vertic Haplustalfs	deep	HSC	Jumo	0-15 %	---
	,	cobbly	4	---	30 %	
	, mesic	clay loam	---	---	Edaphic/zootic	
	---	---		---	Association	
134 0.2	Vertic Haplustalfs	deep	HSC	Gusa2	0-15 %	---
	,	cobbly	4	---	20 %	
	, mesic	clay loam	---	---	Edaphic/zootic	
	---	---		---	Association	
134 0.3	Typic Haplustalfs	deep	HSC	Jumo	15-40 %	---
	,	very cobbly	4	---	30 %	
	, mesic	clay loam	---	---	Edaphic	
	---	---		---	Association	
134 0.5	Lithic Haplustalfs	shallow	HSC	Jumo	15-40 %	---
	,	very stony	4	---	10 %	
	, mesic	clay loam	---	---	---	
	---	---		---	---	
134 0.6	Typic Haplustalfs	deep	HSC	Jumo	0-15 %	---
	,	cobbly	4	---	10 %	
	, mesic	loam	---	---	Edaphic	
	---	---		---	---	
135 0.1	Typic Haplustalfs	deep	LSC	Juos	0-15 %	---
	,	---	4	---	80 %	
	, mesic	sandy loam	---	---	Edaphic/zootic	
	---	compacted		---	Consociation	
135 0.5	Typic Ustochrerpts	deep	LSC	Juos	0-15 %	---
	,	cobbly	4	---	10 %	
	, mesic	sandy loan	---	---	Edaphic	
	---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
135	0.6	Lithic Haplustalfs	shallow	LSC	Juos	15-40 %	---
		,	cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
136	0.1	Typic Haplustalfs	deep	LSC	Juos	15-40 %	---
		,	cobbly	4	---	80 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Consociation	
136	0.5	Typic Ustochrepts	deep	LSC	Juos	15-40 %	---
		,	cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
136	0.6	Lithic Haplustalfs	shallow	LSC	Juos	15-40 %	---
		,	cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
137	0.1	Typic Haplustalfs	moderately deep	LSC	Juos	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
137	0.2	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
137	0.3	---	---	LSC	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Sandstone rock outcrop	---		---	Association	
137	0.4	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Sandstone rock outcrop	---		---	Association	
137	0.5	Typic Eutroboralfs	deep	LSC	Pipos	40-80 %	---
		,	extremely cobbly	5	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	
139	0.1	Typic Haplustalfs	deep	LSC	Juos	0-15 %	---
		,	---	4	---	20 %	
		, mesic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
139	0.2	Typic Eutroboralfs	deep	LSC	Pipos	15-40 %	---
		,	cobbly	5	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
139	0.3	Typic Haplustalfs	deep	LSC	Juos	15-40 %	---
		,	cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
139	0.5	Lithic Haplustalfs	shallow	LSC	Juos	15-40 %	---
		,	cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
139	0.6	---	---	LSC	---	40-80 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		Sandstone rock outcrop	---		---	---	
140	0.1	Typic Haplustalfs	deep	HSM	Qugr3	0-15 %	---
		,	gravelly	4	---	30 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
140	0.2	Typic Haplustalfs	deep	HSM	Qugr3	15-40 %	---
		,	very cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic/zootic	
		---	gullied		---	Association	
140	0.3	Aridic Haplustalfs	deep	HSM	Prgl2	15-40 %	---
		,	very cobbly	3	---	30 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
140	0.5	Aridic Haplustalfs	deep	HSM	Prgl2	0-15 %	---
		,	cobbly	4	---	10 %	
		, thermic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
143	0.1	Vertic Haplustalfs	deep	HSM	Prgl2	0-15 %	---
		,	cobbly	3	---	30 %	
		, thermic	clay loam	---	---	Edaphic/zootic	
		---	---		---	Association	
143	0.2	Aridic Haplustalfs	deep	HSM	Prgl2	15-40 %	---
		,	very cobbly	3	---	30 %	
		, thermic	loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
143	0.3	Typic Haplustalfs	deep	HSM	Qugr3	15-40 %	---
		,	very cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
143	0.5	Vertic Ustochrepts	deep	HSM	Prgl2	0-15 %	---
		,	cobbly	3	---	10 %	
		, thermic	clay loam	---	---	Edaphic/zootic	
		---	---		---	---	
144	0.1	Vertic Haplustalfs	deep	HSM	Jude2	0-15 %	---
		,	very cobbly	4	---	50 %	
		, mesic	clay loam	---	---	Edaphic/zootic	
		---	---		---	Association	
144	0.2	Typic Haplustalfs	deep	HSM	Qugr3	15-40 %	---
		,	very cobbly	4	---	40 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
144	0.5	Vertic Ustochrepts	deep	HSM	Jude2	0-15 %	---
		,	very cobbly	4	---	10 %	
		, mesic	clay loam	---	---	Edaphic/zootic	
		---	---		---	---	
145	0.1	Aridic Haplustalfs	moderately deep	HSM	Prgl2	40-80 %	---
		,	extremely cobbly	3	---	30 %	
		, thermic	loam	---	---	Edaphic	
		---	---		---	Association	
145	0.2	Typic Haplustalfs	moderately deep	HSM	Qugr3	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
145	0.3	---	---	HSM	---	80-120 %	---
		,	---	3	---	15 %	
		, ---	---	---	---	---	
		Conglomerate rock outcrop	---		---	Association	
145	0.4	---	---	HSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Conglomerate rock outcrop	---		---	Association	
145	0.5	Lithic Haplustalfs	shallow	HSM	Fosp2	40-80 %	---
		,	extremely stony	3	---	10 %	
		, thermic	loam	---	---	Edaphic	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
146	0.1	Typic Haplustalfs	deep	HSM	Quem	0-15 %	---
		,	gravelly	4	---	20 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
146	0.2	Typic Haplustalfs	deep	HSM	Quem	15-40 %	---
		,	very cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	gullied		---	Association	
146	0.3	Aridic Haplustalfs	deep	HSM	Prgl2	15-40 %	---
		,	very cobbly	3	---	30 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	gullied		---	Association	
146	0.5	Aridic Haplustalfs	deep	HSM	Prgl2	0-15 %	---
		,	cobbly	3	---	10 %	
		, thermic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---		
146	0.6	Aridic Ustochrepts	deep	HSM	Prgl2	15-40 %	---
		,	very cobbly	3	---	10 %	
		, thermic	sandy loam	---	---	Edaphic/zootic	
		---	gullied		---	---	
147	0.1	Typic Haplustalfs	deep	HSM	Bocu	0-15 %	---
		,	gravelly	4	---	80 %	
		, mesic	loam	---	---	Topo-geographic/zoo.	
		---	compacted		---	Consociation	
147	0.5	Typic Argiustolls	deep	HSM	Bocu	0-15 %	---
		,	gravelly	4	---	10 %	
		, mesic	loam	---	---	Topo-geographic/zoo.	
		---	compacted		---	---	
147	0.6	Typic Ustochrepts	deep	HSM	Bocu	0-15 %	---
		,	gravelly	4	---	10 %	
		, mesic	loam	---	---	Topo-geographic/zoo.	
		---	compacted		---	---	
148	0.1	Typic Haplustalfs	deep	HSM	Quem	0-15 %	---
		,	cobbly	4	---	50 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
148	0.2	Lithic Haplustalfs	shallow	HSM	Quem	15-40 %	---
		,	very stony	4	---	40 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
148	0.5	Typic Haplustalfs	deep	HSM	Quem	15-40 %	---
		,	very cobbly	4	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---		
149	0.1	Typic Haplustalfs	deep	HSM	Qugr3	0-15 %	---
		,	cobbly	4	---	50 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
149	0.2	Lithic Haplustalfs	shallow	HSM	Qugr3	15-40 %	---
		,	very stony	4	---	40 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
149	0.5	Typic Haplustalfs	deep	HSM	Qugr3	15-40 %	---
		,	very cobbly	4	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---		
150	0.1	Udic Haplustalfs	deep	LSM	Pipos	0-15 %	---
		,	very gravelly	5	---	20 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
150	0.2	Udic Haplustalfs	deep	LSM	Pipos	15-40 %	---
		,	very cobbly	5	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
150	0.3	Typic Haplustalfs	deep	LSM	Quar	15-40 %	---
		,	very cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
150	0.5	Lithic Haplustalfs	shallow	LSM	Pipos	15-40 %	---
		,	very stony	5	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
150	0.6	Typic Haplustalfs	deep	LSM	Quar	40-80 %	---
		,	very cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
151	0.1	Udic Haplustalfs	deep	LSM	Pipos	15-40 %	---
		,	very cobbly	5	---	40 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
151	0.2	Glossoboric Hapludalfs	deep	LSM	Psmeg	15-40 %	---
		,	cobbly	6	---	40 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
151	0.5	Udic Haplustalfs	deep	LSM	Pipos	40-80 %	---
		,	very cobbly	5	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
151	0.6	Glossoboric Haplustalfs	deep	LSM	Psmeg	40-80 %	---
		,	cobbly	6	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	---	
156	0.1	Udic Haplustalfs	deep	HSM	Pipos	0-15 %	---
		,	very gravelly	5	---	20 %	
		, mesic	clay loam	---	---	Edaphic	
		---	---		---	Association	
156	0.2	Udic Haplustalfs	deep	HSM	Pipos	15-40 %	---
		,	very gravelly	5	---	60 %	
		, mesic	clay loam	---	---	Edaphic	
		---	---		---	Association	
156	0.5	Lithic Haplustalfs	shallow	HSM	Pipos	15-40 %	---
		,	very cobbly	5	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	---	
156	0.6	Udic Haplustalfs	deep	HSM	Pipos	40-80 %	---
		,	extremely cobbly	5	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	---	
158	0.1	Typic Eutroboralfs	deep	LSC	Pipos	0-15 %	---
		,	gravelly	5	---	15 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
158	0.2	Typic Eutroboralfs	deep	LSC	Pipos	15-40 %	---
		,	very cobbly	5	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
158	0.3	Lithic Haplustalfs	shallow	HSM	Qugr3	15-40 %	---
		,	very cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
158 0.4	---	---	HSM	---	80-120 %	---
	,	---	4	---	25 %	
	, ---	---	---	---	---	
	Conglomerate rock outcrop	---		---	Association	
159 0.1	Typic Eutroboralfs	deep	LSC	Pipos	0-15 %	---
	,	gravelly	5	---	60 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	Association	
159 0.2	Typic Eutroboralfs	deep	LSC	Pipos	15-40 %	---
	,	very cobbly	5	---	20 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	Association	
159 0.5	Lithic Eutroboralfs	shallow	LSC	Pipos	15-40 %	---
	,	very cobbly	5	---	10 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	---	
159 0.6	---	---	LSC	---	40-80 %	---
	,	---	5	---	10 %	
	, ---	---	---	---	---	
	Limestone rock outcrop	---		---	---	
160 0.1	Typic Eutroboralfs	deep	LSC	Pipos	0-15 %	---
	,	---	5	---	80 %	
	, ---	loam	---	---	Edaphic	
	---	---		---	Consociation	
160 0.5	Lithic Eutroboralfs	shallow	LSC	Pipos	0-15 %	---
	,	cobbly	5	---	10 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	---	
160 0.6	Typic Eutroboralfs	deep	LSC	Pipos	15-40 %	---
	,	cobbly	5	---	10 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	---	
161 0.1	Typic Eutroboralfs	deep	LSC	Pipos	15-40 %	---
	,	cobbly	5	---	90 %	
	, ---	loam	---	---	Edaphic	
	---	---		---	Consociation	
161 0.5	Lithic Eutroboralfs	shallow	LSC	Pipos	15-40 %	---
	,	very cobbly	5	---	10 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	---	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
162 0.1	Glossic Eutroboralfs	deep	LSC	Pipos	0-15 %	---
	,	cobbly	5	---	40 %	
	, ---	loam	---	---	Topo-geographic	
	---	---		---	Association	
162 0.2	Typic Glossoboralfs	deep	LSC	Psmeg	0-15 %	---
	,	very gravelly	6	---	40 %	
	, ---	loam	---	---	Topo-geographic	
	---	---		---	Association	
162 0.5	Lithic Eutroboralfs	shallow	LSC	Pipos	0-15 %	---
	,	very cobbly	5	---	10 %	
	, ---	loam	---	---	Topo-geographic	
	---	---		---	---	
162 0.6	Lithic Glossoboralfs	shallow	LSC	Psmeg	15-40 %	---
	,	very cobbly	6	---	10 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	---	
168 0.1	Typic Haplustalfs	deep	HSM	Qugr3	40-80 %	---
	,	extremely cobbly	4	---	30 %	
	, mesic	loam	---	---	Edaphic	
	---	---		---	Association	
168 0.2	Eutric Glossoboralfs	moderately deep	LSC	Psmeg	40-80 %	---
	,	extremely cobbly	6	---	30 %	
	, ---	loam	---	---	Edaphic	
	---	---		---	Association	
168 0.3	---	---	HSM	---	80-120 %	---
	,	---	4	---	15 %	
	, ---	---	---	---	---	
	Basalt rock outcrop	---		---	Association	
168 0.4	---	---	LSC	Psmeg	80-120 %	---
	,	---	6	---	15 %	
	, ---	---	---	---	---	
	Basalt rock outcrop	---		---	Association	
168 0.5	Lithic Haplustalfs	shallow	HSM	Qugr3	40-80 %	---
	,	extremely stony	4	---	10 %	
	, mesic	loam	---	---	Edaphic	
	---	---		---	---	
176 0.1	Eutric Glossoboralfs	deep	LSC	Psmeg	0-15 %	---
	,	cobbly	6	---	30 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	Complex	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
176 0.2	Typic Paleboralfs	deep	LSC	Psmeg	0-15 %	---
	,	cobbly	6	---	15 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	Complex	
176 0.3	Eutric Glossoboralfs	deep	LSC	Psmeg	15-40 %	---
	,	very cobbly	6	---	30 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	Complex	
176 0.4	Typic Paleboralfs	deep	LSC	Psmeg	15-40 %	---
	,	very cobbly	6	---	15 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	Complex	
176 0.5	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
	,	very cobbly	6	---	10 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	---	
177 0.1	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
	,	extremely cobbly	6	---	30 %	
	, ---	loam	---	---	Edaphic	
	---	---		---	Association	
177 0.2	Typic Cryoboralfs	deep	LSC	Pien	40-80 %	---
	,	extremely cobbly	7	---	30 %	
	, ---	loam	---	---	Edaphic	
	---	---		---	Association	
177 0.3	---	---	LSC	---	80-120 %	---
	,	---	6	---	15 %	
	, ---	---	---	---	---	
	Sandstone rock outcrop	---		---	Association	
177 0.4	---	---	LSC	---	80-120 %	---
	,	---	7	---	15 %	
	, ---	---	---	---	---	
	Sandstone rock outcrop	---		---	Association	
177 0.5	Lithic Glossoboralfs	shallow	LSC	Psmeg	40-80 %	---
	,	extremely stony	6	---	10 %	
	, ---	loam	---	---	Edaphic	
	---	---		---	---	
178 0.1	Lithic Ustochrepts	shallow	HSC	Jumo	40-80 %	---
	,	extremely cobbly	4	---	30 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
178	0.2	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
178	0.3	---	---	HSC	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	Association	
178	0.4	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	Association	
178	0.5	Typic Ustochrepts	moderately deep	HSC	Jumo	40-80 %	---
		,	extremely cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
181	0.1	Typic Cryoboralfs	deep	LSC	Pien	0-15 %	---
		,	cobbly	7	---	20 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
181	0.2	Typic Cryoboralfs	deep	LSC	Pien	15-40 %	---
		,	cobbly	7	---	70 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
181	0.5	Eutric Glossoboralfs	deep	LSC	Psmeg	15-40 %	---
		,	cobbly	6	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	
183	0.1	Mollic Cryoboralfs	deep	LSC	CAREX	0-15 %	---
		,	gravelly	7	---	30 %	
		, ---	loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	Association	
183	0.2	Mollic Cryoboralfs	deep	LSC	Feth	15-40 %	---
		,	cobbly	7	---	40 %	
		, ---	sandy loam	---	---	Edaphic/fire/zootic	
		---	eroded		---	Complex	
183	0.3	Typic Cryoboralfs	deep	LSC	Pien	15-40 %	---
		,	cobbly	7	---	20 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Complex	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
183	0.5	Argic Cryoborolls	deep	LSC	Feth	0-15 %	---
		,	gravelly	7	---	10 %	
		, ---	loam	---	---	Edaphic/fire/zootic	
		---	---		---	---	
187	0.1	Typic Paleboralfs	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
187	0.2	Typic Cryoboralfs	deep	LSC	Pien	40-80 %	---
		,	extremely cobbly	7	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
187	0.3	---	---	LSC	---	40-80 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Sandstone rock outcrop	---		---	Association	
187	0.4	---	---	LSC	---	80-120 %	---
		,	---	7	---	15 %	
		, ---	---	---	---	Edaphic	
		Sandstone rock outcrop	---		---	Association	
187	0.5	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	
188	0.1	Typic Paleboralfs	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	40 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
188	0.2	---	---	LSC	---	80-120 %	---
		,	---	6	---	30 %	
		, ---	---	---	---	---	
		Granite/gneiss rock outcrop	---		---	Association	
188	0.3	---	---	LSC	---	40-80 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Badlands, hydrothermally altered	extremely acid		---	Association	
188	0.5	Typic Dystrochrepts	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	5 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
188	0.6	Dystric Cryochrepts	deep	LSC	Pien	40-80 %	---
		,	extremely cobbly	7	---	10 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	---	
191	0.1	Mollic Eutroboralfs	deep	LSC	Pipos	0-15 %	---
		,	cobbly	5	---	40 %	
		, ---	clay loam	---	---	Edaphic	
		---	---		---	Association	
191	0.2	Mollic Eutroboralfs	deep	LSC	Pipos	15-40 %	---
		,	very cobbly	5	---	40 %	
		, ---	clay loam	---	---	Edaphic	
		---	---		---	Association	
191	0.5	Lithic Eutroboralfs	shallow	LSC	Pipos	15-40 %	---
		,	very stony	5	---	10 %	
		, ---	clay loam	---	---	Edaphic	
		---	---		---	---	
191	0.6	Typic Argiborolls	deep	LSC	Pipos	0-15 %	---
		,	cobbly	5	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	
192	0.1	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
192	0.2	Mollic Cryoboralfs	deep	LSC	Pien	40-80 %	---
		,	extremely cobbly	7	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
192	0.3	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Basalt rock outcrop	---		---	Association	
192	0.4	---	---	LSC	---	80-120 %	---
		,	---	7	---	15 %	
		, ---	---	---	---	---	
		Basalt rock outcrop	---		---	Association	
192	0.5	Typic Eutroboralfs	deep	LSC	Pipos	40-80 %	---
		,	extremely cobbly	5	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
193 0.1	Mollic Eutroboralfs	deep	LSC	Pipos	0-15 %	---
	,	cobbly	5	---	50 %	
	, ---	clay loam	---	---	Edaphic	
	---	---		---	Association	
193 0.2	Mollic Vitrandepts	deep	LSC	Pipos	15-40 %	---
	,	very cindery	5	---	30 %	
	, frigid	sandy loam	---	---	Edaphic	
	---	---		---	Association	
193 0.5	Typic Argiborolls	deep	LSC	Pipos	0-15 %	---
	,	cobbly	5	---	10 %	
	, ---	clay loam	---	---	Edaphic	
	---	---		---	---	
193 0.6	Typic Argiborolls	deep	LSC	Fear2	0-15 %	---
	,	gravelly	5	---	10 %	
	, ---	loam	---	---	Edaphic/fire/zootic	
	---	compacted		---	---	
194 0.1	Vertic Haplustalfs	deep	HSC	Jumo	0-15 %	---
	,	cobbly	4	---	50 %	
	, mesic	clay loam	---	---	Edaphic/zootic	
	---	---		---	Association	
194 0.2	Mollic Vitrandepts	deep	HSC	Jumo	15-40 %	---
	,	very cindery	4	---	30 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
194 0.5	Typic Haplustalfs	deep	HSC	Jumo	0-15 %	---
	,	cobbly	4	---	10 %	
	, mesic	clay loam	---	---	Edaphic/zootic	
	---	compacted		---	---	
194 0.6	Typic Haplustalfs	deep	HSC	Jumo	15-40 %	---
	,	very cobbly	4	---	10 %	
	, mesic	clay loam	---	---	Edaphic	
	---	---		---	---	
196 0.1	Mollic Eutroboralfs	deep	LSC	Pipos	0-15 %	---
	,	cobbly	5	---	20 %	
	, ---	clay loam	---	---	Edaphic	
	---	---		---	Association	
196 0.2	Mollic Eutroboralfs	deep	LSC	Pipos	15-40 %	---
	,	very cobbly	5	---	30 %	
	, ---	clay loam	---	---	Edaphic	
	---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
196	0.3	Typic Haplustalfs	deep	HSC	Jumo	15-40 %	---
		,	very cobbly	4	---	30 %	
		, mesic	clay loam	---	---	Edaphic	
		---	---		---	Association	
196	0.5	Typic Argiborolls	deep	LSC	Pipos	0-15 %	---
		,	cobbly	5	---	10 %	
		, ---	clay loam	---	---	Edaphic	
		---	---		---	---	
196	0.6	Typic Argiborolls	deep	LSC	Fear2	0-15 %	---
		,	gravelly	5	---	10 %	
		, ---	loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	---	
197	0.1	Eutric Glossoboralfs	deep	LSC	Psmeg	0-15 %	---
		,	cobbly	6	---	60 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
197	0.2	Mollic Vitrandepts	deep	LSC	Psmeg	15-40 %	---
		,	very cobbly	6	---	30 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	
197	0.5	Mollic Vitrandepts	deep	LSC	Pipos	15-40 %	---
		,	very cobbly	5	---	10 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	---	
198	0.1	Eutric Glossoboralfs	deep	LSC	Psmeg	0- 15 %	---
		,	cobbly	6	---	40 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
198	0.2	Eutric Glossoboralfs	deep	LSC	Psmeg	15-40 %	---
		,	very cobbly	6	---	50 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
198	0.5	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
		,	very cobbly	6	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	
214	0.1	Ustalfic Haplargids	deep	LSM	Cemi2	0-15 %	---
		,	gravelly	2	---	50 %	
		, thermic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
214	0.2	Ustochreptic Calciorthids	deep	LSM	Ladi2	15-40 %	---
		,	very gravelly	2	---	40 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
214	0.5	Ustalfic Haplargids	deep	LSM	Cemi2	15-40 %	---
		,	very gravelly	2	---	10 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	
235	0.1	Ustochreptic Camborthids	deep	LSM	Cemi2	0-15 %	---
		,	very gravelly	2	---	90 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
235	0.5	Ustalfic Haplargids	deep	LSM	Cemi2	0-15 %	---
		,	very gravelly	2	---	10 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	
236	0.1	Ustochreptic Camborthids	moderately deep	LSM	Cemi2	15-40 %	---
		,	very cobbly	2	---	90 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Consociation	
236	0.5	Ustalfic Haplargids	deep	LSM	Cemi2	15-40 %	---
		,	very cobbly	2	---	10 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	
237	0.1	Lithic Camborthids	shallow	LSM	Dovi	0-15 %	---
		,	extremely cobbly	2	---	30 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Complex	
237	0.2	---	---	LSM	---	0-15 %	---
		,	---	2	---	20 %	
		, ---	---	---	---	---	
		Tuff rock outcrop	---		---	Complex	
237	0.3	---	---	LSM	---	80-120 %	---
		,	---	2	---	40 %	
		, ---	---	---	---	---	
		Tuff rock outcrop	---		---	Association	
237	0.5	Lithic Haplargids	shallow	LSM	Dovi	0-15 %	---
		,	extremely cobbly	2	---	10 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
240	0.1	Ustochreptic Calciorthids	deep	HSM	Ladi2	0-15 %	---
		,	very gravelly	2	---	90 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Consociation	
240	0.5	Ustalfic Haplargids	deep	HSM	Flce	0-15 %	---
		,	very cobbly	2	---	10 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	
297	0.1	Typic Haplustalfs	deep	LSM	Qutu2	0-15 %	---
		,	gravelly	4	---	40 %	
		, mesic	sandy loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	Complex	
297	0.2	Typic Ustochrepts	deep	LSM	Quar	15-40 %	---
		,	very cobbly	4	---	30 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Complex	
297	0.3	---	---	LSM	---	40-80 %	---
		,	---	4	---	20 %	
		, ---	---	---	---	---	
		Badlands	strongly alkaline		---	Complex	
297	0.5	Typic Haplustalfs	deep	LSM	Quar	15-40 %	---
		,	very cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
298	0.1	Aridic Haplustalfs	deep	LSM	Prve	0-15 %	---
		,	gravelly	3	---	30 %	
		, thermic	sandy loam	---	---	Edaphic/zootic	
		---	---		---	Association	
298	0.2	Aridic Ustochrepts	deep	LSM	Caho2	15-40 %	---
		,	extremely cobbly	3	---	40 %	
		calcareous, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
298	0.3	---	---	LSM	---	40-80 %	---
		,	---	3	---	20 %	
		, ---	---	---	---	---	
		Badlands	strongly aklaline		---	Association	
298	0.5	Aridic Haplustalfs	deep	LSM	Prve	15-40 %	---
		,	extremely cobbly	3	---	10 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
299 0.1	Ustalfic Haplargids	deep	LSM	Cemi2	0-15 %	---
	,	gravelly	2	---	40 %	
	, thermic	sandy loam	---	---	Edaphic/zootic	
	---	compacted		---	Complex	
299 0.2	Ustochreptic Calciorthids	deep	LSM	Ladi2	15-40 %	---
	,	extremely cobbly	2	---	40 %	
	, thermic	sandy loam	---	---	Edaphic	
	---	---		---	Complex	
299 0.3	---	---	LSM	---	40-80 %	---
	,	---	2	---	20 %	
	, ---	---	---	---	---	
	Badlands	strongly alkaline		---	Complex	
300 0.1	Lithic Ustorthents	shallow	LSM	Quar	40-80 %	---
	,	extremely cobbly	4	---	30 %	
	nonacid, mesic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
300 0.2	Typic Udorthents	deep	LSC	Psmeg	40-80 %	---
	,	extremely cobbly	6	---	30 %	
	nonacid, frigid	sandy loam	---	---	Edaphic	
	---	---		---	Association	
300 0.3	---	---	LSM	---	80-120 %	---
	,	---	4	---	15 %	
	, ---	---	---	---	---	
	Sandstone rock outcrop	---		---	Association	
300 0.4	---	---	LSC	---	80-120 %	---
	,	---	6	---	15 %	
	, ---	---	---	---	---	
	Sandstone rock outcrop	---		---	Association	
300 0.5	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
	,	extremely cobbly	6	---	10 %	
	, ---	sandy loam	---	---	Edaphic	
	---	---		---	---	
301 0.1	Ustic Torriorthents	deep	LSM	Cemi2	0-15 %	---
	,	gravelly	2	---	50 %	
	nonacid, thermic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
301 0.2	Lithic Torriorthents	shallow	LSM	Fosp2	15-40 %	---
	,	very gravelly	2	---	40 %	
	nonacid, thermic	sandy loam	---	---	Edaphic	
	---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
301	0.5	Ustic Torriorthents	deep	LSM	Cemi2	15-40 %	---
		,	very gravelly	2	---	10 %	
		nonacid, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	
303	0.1	Lithic Torriorthents	shallow	LSM	Fosp2	40-80 %	---
		,	extremely cobbly	2	---	30 %	
		nonacid, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
303	0.2	Typic Ustochrepts	moderately deep	LSM	Qutu2	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic/fire	
		---	---		---	Association	
303	0.3	---	---	LSM	---	80-120 %	---
		,	---	2	---	15 %	
		, ---	---	---	---	---	
		Granite rock outcrop	---		---	Association	
303	0.4	---	---	LSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Granite rock outcrop	---		---	Association	
303	0.5	Lithic Ustochrepts	shallow	LSM	Qutu2	40-80 %	---
		,	extremely cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic/fire	
		---	---		---	---	
305	0.1	Fluventic Camborthids	deep	LSM	Cefl2	2-5 %	---
		,	extremely cobbly	2	---	70 %	
		, thermic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
305	0.2	Aquic Ustifluvents	deep	LSM	Prve	0-2 %	---
		,	very cobbly	2	---	20 %	
		nonacid, thermic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
305	0.5	Typic Ustifluvents	deep	LSM	Cefl2	2-5 %	---
		,	very cobbly	2	---	10 %	
		Nonacid, thermic	sandy loam	---	---	Topo-edaphic	
		---	---		---	---	
306	0.1	Fluventic Ustochrepts	deep	LSM	Chli2	2-5 %	---
		,	very cobbly	3	---	60 %	
		, thermic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
306	0.2	Aquic Ustifluvents	deep	LSM	Pofr2	0-2 %	---
		,	very cobbly	3	---	20 %	
		nonacid, thermic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
306	0.5	Typic Ustifluvents	deep	LSM	Chli2	2-5 %	---
		,	very cobbly	3	---	10 %	
		nonacid, thermic	sandy loam	---	---	Topo-edaphic	
		---	---		---	---	
306	0.6	---	---	LSM	---	0-2 %	---
		,	---	3	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
310	0.1	Typic Torriorthents	deep	LSM	Frde	0-15 %	---
		,	very gravelly	1	---	90 %	
		nonacid, hyperthermic	sandy loam	---	---	Edaphic	
		---	---		---	Consociation	
310	0.5	Typic Haplargids	deep	LSM	Frde	0-15 %	---
		,	very gravelly	1	---	10 %	
		, hyperthermic	sandy loam	---	---	Edaphic	
		---	---		---	---	
333	0.1	Lithic Torriorthents	shallow	LSC	Cora	0-15 %	---
		,	very gravelly	2	---	80 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
333	0.2	---	---	LSC	---	15-40 %	---
		,	---	2	---	20 %	
		, ---	---	---	---	---	
		Sandstone rock outcrop	---		---	Association	
349	0.1	Typic Ustorthents	moderately deep	LSC	Jumo	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		nonacid, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
349	0.2	Eutric Glossoboralfs	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
349	0.3	---	---	HSC	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Sandstone/gypsum rock outcrop	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
349	0.4	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Sandstone/gypsum rock outcrop	---		---	Association	
349	0.5	Typic Haplustalfs	deep	HSC	Jumo	40-80 %	---
		,	extremely cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
351	0.1	Typic Ustorthents	moderately deep	LSC	Pipos	15-40 %	---
		,	very gravelly	5	---	80 %	
		nonacid, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Consociation	
351	0.5	Typic Dystrochrepts	deep	LSC	Psmeg	15-40 %	---
		,	very gravelly	6	---	10 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	---	
351	0.6	Lithic Ustorthents	shallow	HSC	Jumo	15-40 %	---
		,	very gravelly	4	---	10 %	
		nonacid, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
352	0.1	Lithic Ustorthents	shallow	HSC	Jumo	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		nonacid, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
352	0.2	Typic Dystrochrepts	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	
352	0.3	---	---	HSC	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Granite rock outcrop	---		---	Complex	
352	0.4	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Granite rock outcrop	---		---	Complex	
352	0.5	Typic Ustorthents	moderately deep	LSC	Pipos	40-80 %	---
		,	extremely cobbly	5	---	10 %	
		nonacid, frigid	sandy loam	---	---	Edaphic	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
355	0.1	Typic Ustipsamments	deep	LSC	Juos	0-15 %	---
		,	---	4	---	60 %	
		, mesic	loamy sand	---	---	Edaphic	
		---	---		---	Association	
355	0.2	Typic Haplustalfs	deep	LSC	Juos	0-15 %	---
		,	---	4	---	40 %	
		, mesic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
356	0.1	Typic Ustipsamments	deep	HSC	Jumo	0-15 %	---
		,	---	4	---	60 %	
		, mesic	loamy sand	---	---	Edaphic	
		---	---		---	Association	
356	0.2	Typic Haplustalfs	deep	HSC	Jumo	0-15 %	---
		,	---	4	---	40 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
370	0.1	Fluventic Ustochrepts	deep	HSM	Quem	2-5 %	---
		,	extremely gravelly	4	---	60 %	
		, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
370	0.2	Typic Ustifluvents	deep	HSM	Chli2	2-5 %	---
		,	very gravelly	4	---	20 %	
		nonacid, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
370	0.5	---	---	HSM	---	0-2 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		River wash	---		---	---	
370	0.6	Typic Ustochrepts	deep	HSM	Quem	5-15 %	---
		,	very gravelly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
371	0.1	Fluventic Ustochrepts	deep	HSM	Quem	2-5 %	---
		,	extremely gravelly	4	---	60 %	
		, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
371	0.2	Aquic Ustifluvents	deep	HSM	Pofr2	0-2 %	---
		,	very gravelly	4	---	20 %	
		, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
371	0.5	Typic Ustifluvents	deep	HSM	Quem	2-5 %	---
		,	extremely gravelley	4	---	10 %	
		nonacid, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	---	
371	0.6	---	---	HSM	---	0-2 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		River wash	---		---	---	
380	0.1	Lithic Ustorthents	shallow	HSM	Fosp2	40-80 %	---
		,	extremely cobbly	3	---	30 %	
		calcareous, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
380	0.2	Lithic Ustochrepts	shallow	HSM	Qugr3	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
380	0.3	---	---	HSM	---	80-120 %	---
		,	---	3	---	15 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	Association	
380	0.4	---	---	HSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	Association	
380	0.5	Lithic Torriorthents	shallow	HSM	Fosp2	40-80 %	---
		,	extremely cobbly	2	---	10 %	
		calcareous, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	
381	0.1	Lithic Ustorthents	shallow	HSM	Quem	0-15 %	---
		,	very gravelly	4	---	60 %	
		nonacid, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Complex	
381	0.2	---	---	HSM	---	15-40 %	---
		,	---	4	---	40 %	
		, ---	---	---	---	---	
		Rhyolite rock outcrop	---		---	Complex	
390	0.1	Typic Ustorthents	deep	HSM	Qugr3	15-40 %	---
		,	very gravelly	4	---	30 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
390	0.2	Typic Udorthents	deep	LSC	Psmeg	15-40 %	---
		,	very cobbly	6	---	30 %	
		calcareous, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	
390	0.3	---	---	HSM	---	40-80 %	---
		,	---	4	---	20 %	
		, ---	---	---	---	---	
		Badlands, altered ash	moderately alkaline		---	Association	
390	0.4	---	---	LSC	---	40-80 %	---
		,	---	6	---	20 %	
		, ---	---	---	---	---	
		Badlands, altered ash	moderately alkaline		---	Association	
415	0.1	Aridic Ustochrepts	deep	LSC	Artr2	0-15 %	---
		,	---	3	---	70 %	
		calcareous, mesic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Complex	
415	0.2	Lithic Ustochrepts	shallow	LSC	Artr2	0-15 %	---
		,	---	3	---	30 %	
		calcareous, mesic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Complex	
420	0.1	Lithic Ustochrepts	shallow	LSC	Juos	0-15 %	---
		,	---	4	---	70 %	
		calcareous, mesic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Complex	
420	0.2	Typic Ustochrepts	deep	LSC	Juos	0-15 %	---
		,	---	4	---	30 %	
		calcareous, mesic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Complex	
421	0.1	Typic Ustochrepts	deep	LSC	Juos	15-40 %	---
		,	cobbly	4	---	40 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
421	0.2	Typic Haplustalfs	deep	LSC	Juos	0-15 %	---
		,	---	4	---	30 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
421	0.3	---	---	LSC	---	40-80 %	---
		,	---	4	---	20 %	
		, ---	---	---	---	---	
		Badlands	moderately alkaline		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
421	0.5	Typic Haplustalfs	deep	LSC	Juos	15-40 %	---
		,	cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
422	0.1	Lithic Ustochrepts	shallow	LSC	Artr2	40-80 %	---
		,	extremely cobbly	3	---	40 %	
		calcareous, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
422	0.2	Typic Ustochrepts	moderately deep	LSC	Juos	40-80 %	---
		,	extremely cobbly	4	---	40 %	
		calcareous, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
422	0.3	---	---	LSC	---	80+120 %	---
		,	---	3	---	20 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	Association	
424	0.1	Aridic Ustochrepts	moderately deep	LSM	Caho3	15-40 %	---
		,	extremely cobbly	3	---	40 %	
		calcareous, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
424	0.2	Ustochreptic Calciorthids	moderately deep	LSM	Ladi2	0-15 %	---
		,	very gravelly	2	---	30 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
424	0.3	---	---	LSM	---	40-80 %	---
		,	---	3	---	15 %	
		, ---	---	---	---	---	
		Badlands	moderately alkaline		---	Association	
424	0.4	---	---	LSM	---	40-80 %	---
		,	---	2	---	15 %	
		, ---	---	---	---	---	
		Badlands	moderately alkaline		---	Association	
427	0.1	Aridic Ustochrepts	deep	HSM	Prgl2	0-15 %	---
		,	gravelly	3	---	30 %	
		calcareous, thermic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
427	0.2	Typic Ustochrepts	deep	HSM	Qugr3	15-40 %	---
		,	very cobbly	4	---	30 %	
		calcareous, mesic	sandy loam	---	---	Edaphic/zootic	
		---	---		---	Association	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
427 0.3	---	---	HSM	---	40-80 %	---
	,	---	3	---	20 %	
	, ---	---	---	---	---	
	Badlands	moderately alkaline		---	Association	
427 0.4	---	---	HSM	---	40-80 %	---
	,	---	4	---	20 %	
	, ---	---	---	---	---	
	Badlands	moderately alkaline		---	Association	
428 0.1	Aridic Ustochrepts	deep	LSM	Caho3	0-15 %	---
	,	gravelly	3	---	80 %	
	calcareous, thermic	sandy loam	---	---	Edaphic/zootic	
		compacted		---	Consociation	
428 0.5	Aridic Haplustalfs	deep	LSM	Prve	0-15 %	---
	,	gravelly	3	---	10 %	
	, thermic	sandy loam	---	---	Edaphic/zootic	
	---	compacted		---	---	
428 0.6	Typic Ustochrepts	deep	LSM	Quar	0-15 %	---
	,	gravelly	4	---	10 %	
	calcareous, mesic	sandy loam	---	---	Edaphic/zootic	
	---	compacted		---	---	
429 0.1	Typic Ustochrepts	deep	HSC	Jumo	0-15 %	---
	,	---	4	---	60 %	
	calcareous, mesic	sandy loam	---	---	Edaphic/zootic	
		compacted		---	Association	
429 0.2	Fluventic Ustochrepts	deep	HSC	Chna2	2-5 %	---
	,	---	4	---	30 %	
	calcareous, mesic	sandy loam	---	---	Topo-edaphic/zootic	
		---		---	Association	
429 0.5	---	---	HSC	---	0-2 %	---
	,	---	4	---	10 %	
	,	---	---	---	---	
	Riverwash	---		---	---	
430 0.1	Typic Ustochrepts	deep	HSC	Jumo	0-15 %	---
	,	---	4	---	90 %	
	, mesic	sandy loam	---	---	Edaphic/zootic	
		compacted		---	Consociation	
430 0.5	Typic Ustorthents	deep	HSC	Jumo	0-15 %	---
	,	cobbly	4	---	10 %	
	nonacid, mesic	sandy loam	---	---	Edaphic	
	---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
431	0.1	Typic Ustochrepts	deep	HSC	Jumo	15-40 %	---
		,	---	4	---	90 %	
		, mesic	sandy loam	---	---	Edaphic	
			---		---	Consociation	
431	0.5	Typic Ustorthents	deep	HSC	Jumo	15-40 %	---
		,	cobbly	4	---	10 %	
		nonacid, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
432	0.1	Typic Ustochrepts	deep	HSC	Jumo	15-40 %	---
		,	very gravelly	4	---	80 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
			---		---	Consociation	
432	0.5	Lithic Ustochrepts	shallow	HSC	Jumo	15-40 %	---
		,	very cobbly	4	---	10 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
432	0.6	---	---	HSC	---	40-80 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	---	
433	0.1	Typic Ustochrepts	deep	HSC	Jumo	0-15 %	---
		,	gravelly	4	---	50 %	
		calcareous, mesic	sandy loam	---	---	Edaphic/zootic	
			compacted		---	Complex	
433	0.2	Lithic Ustochrepts	shallow	HSC	Jumo	0-15 %	---
		,	gravelly	4	---	40 %	
		calcareous, mesic	sandy loam	---	---	Edaphic/zootic	
			compacted		---	Complex	
433	0.5	Typic Ustochrepts	deep	HSC	Jumo	15-40 %	---
		,	very cobbly	4	---	10 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
434	0.1	Typic Ustochrepts	deep	HSC	Jumo	15-40 %	---
		,	very gravelly	4	---	40 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
			---		---	Association	
434	0.2	Typic Haplustalfs	deep	HSC	Jumo	0-15 %	---
		,	---	4	---	30 %	
		, mesic	loam	---	---	Edaphic/zootic	
			compacted		---	Association	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
434 0.3	---	---	HSC	---	40-80 %	---
	,	---	4	---	20 %	
	, ---	---	---	---	---	
	Badlands	moderately alkaline		---	Association	
434 0.5	Typic Haplustalfs	deep	HSC	Jumo	15-40 %	---
	,	very gravelly	4	---	10 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	---	
435 0.1	Udic Ustochrepts	deep	LSC	Pipos	0-15 %	---
	,	cobbly	5	---	60 %	
	, frigid	sandy loam	---	---	Edaphic	
	---	---		---	Association	
435 0.2	Typic Ustochrepts	deep	HSM	Qugr3	15-40 %	---
	,	very cobbly	4	---	40 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
437 0.1	Typic Ustochrepts	moderately deep	HSC	Jumo	40-80 %	---
	,	extremely cobbly	4	---	30 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
437 0.2	Typic Dystrochrepts	deep	LSC	Psmeg	40-80 %	---
	,	extremely cobbly	6	---	30 %	
	, frigid	sandy loam	---	---	Edaphic	
	---	---		---	Association	
437 0.3	---	---	HSC	---	80-120 %	---
	,	---	4	---	15 %	
	, ---	---	---	---	---	
	Rhyolite rock outcrop	---		---	Association	
437 0.4	---	---	LSC	---	80-120 %	---
	,	---	6	---	15 %	
	, ---	---	---	---	---	
	Rhyolite rock outcrop	---		---	Association	
437 0.5	Typic Ustochrepts	deep	LSC	Pipos	40-80 %	---
	,	extremely cobbly	5	---	10 %	
	, frigid	sandy loam	---	---	Edaphic	
	---	---		---	---	
438 0.1	Fluventic Ustochrepts	deep	HSC	Jumo	2-5 %	---
	,	cobbly	4	---	60 %	
	, mesic	sandy loam	---	---	Topo-edaphic	
	---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
438	0.2	Typic Ustifluvents	deep	HSC	Jumo	2-5 %	---
		,	cobbly	4	---	30 %	
		nonacid, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
438	0.5	---	---	HSC	---	0-2 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
440	0.1	Fluventic Ustochrepts	deep	HSC	Jumo	2-5 %	---
		,	cobbly	4	---	60 %	
		, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
440	0.2	Aquic Ustifluvents	deep	HSC	Pofrw	0-2 %	---
		,	very cobbly	4	---	20 %	
		nonacid, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
440	0.5	---	---	HSC	---	0-2 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
440	0.6	Typic Ustifluvents	deep	HSC	Jumo	2-5 %	---
		,	very cobbly	4	---	10 %	
		nonacid, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
441	0.1	Fluventic Ustochrepts	deep	LSC	Juos	2-5 %	---
		,	cobbly	4	---	60 %	
		, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
441	0.2	Aquic Ustifluvents	deep	LSC	Pofrw	0-2 %	---
		,	very cobbly	4	---	20 %	
		nonacid, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
441	0.5	---	---	LSC	---	0-2 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
441	0.6	Typic Ustifluvents	deep	LSC	Juos	2-5 %	---
		,	very cobbly	4	---	10 %	
		nonacid, mesic	sandy loam	---	---	Topo-edaphic	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
448	0.1	Mollic Vitrandepts	deep	LSC	Pipos	15-40 %	---
		,	very cindery	5	---	50 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	
448	0.2	Mollic Eutroboralfs	deep	LSC	Pipos	0-15 %	---
		,	---	5	---	40 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	Association	
448	0.5	Typic Argiborolls	deep	LSC	Fear2	0-15 %	---
		,	---	5	---	10 %	
		, ---	sandy loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	---	
451	0.1	Typic Dystrochrepts	deep	LSC	Psmeg	15-40 %	---
		,	very gravelly	6	---	90 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Consociation	
451	0.5	Dystric Cryochrepts	deep	LSC	Pien	15-40 %	---
		,	very gravelly	7	---	10 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	---	
452	0.1	Typic Dystrochrepts	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	40 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	
452	0.2	Dystric Cryochrepts	deep	LSC	Pien	40-80 %	---
		,	very cobbly	7	---	30 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	Association	
452	0.3	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Granite/rhyolite rock outcrop	---		---	Association	
452	0.4	---	---	LSC	---	80-120 %	---
		,	---	7	---	15 %	
		, ---	---	---	---	---	
		Granite/rhyolite rock outcrop	---		---	Association	
454	0.1	Andic Dystrochrepts	deep	LSC	Psmeg	0-15 %	---
		,	gravelly	6	---	40 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
454	0.2	Andic Dystrochrepts	deep	LSC	Psmeg	15-40 %	---
		,	very gravelly	6	---	60 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	
455	0.1	Andic Dystrochrepts	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	
455	0.2	Entic Cryochrepts	deep	LSC	Pien	40-80 %	---
		,	extremely gravelly	7	---	40 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	Association	
455	0.3	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Tuff rock outcrop	---		---	Association	
455	0.4	---	---	LSC	---	80-120 %	---
		,	---	7	---	15 %	
		, ---	---	---	---	---	
		Tuff rock outcrop	---		---	Association	
456	0.1	Mollic Vitrandepts	deep	LSC	Pipos	0-15 %	---
		,	very cindery	5	---	40 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	
456	0.2	Mollic Vitrandepts	deep	LSC	Pipos	15-40 %	---
		,	extremely cindery	5	---	30 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	
456	0.3	Typic Vitrandepts	deep	HSC	Juno	15-40 %	---
		,	extremely cindery	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
458	0.1	Typic Ustochrepts	deep	HSC	Juno	0-15 %	---
		,	cobbly	4	---	50 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	---		---	Association	
458	0.2	Typic Vitrandepts	deep	HSC	Juno	15-40 %	---
		,	extremely cindery	4	---	40 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
458	0.5	Mollic Vitrandepts	deep	LSC	Pipos	15-40 %	---
		,	extremely cindery	5	---	10 %	
		, frigid	sandy loam	---	---	Edeaphic	
		---	---		---	---	
461	0.1	Udic Ustochrepts	deep	LSM	Pipos	0-15 %	---
		,	gravelly	5	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
461	0.2	Udic Ustochrepts	deep	LSM	Pipos	15-40 %	---
		,	very cobbly	5	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
461	0.3	Typic Ustochrepts	deep	LSM	Quar	15-40 %	---
		,	very cobbly	4	---	30 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
461	0.5	Lithic Ustochrepts	shallow	LSM	Quar	15-40 %	---
		,	very cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
466	0.1	Dystric Cryochrepts	deep	LSC	Pien	0-15 %	---
		,	cobbly	7	---	30 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	Association	
466	0.2	Dystric Cryochrepts	deep	LSC	Pien	15-40 %	---
		,	very gravelly	7	---	60 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	Association	
466	0.5	Typic Dystrochrepts	deep	LSC	Psmeg	15-40 %	---
		,	very gravelly	6	---	10 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	---	
471	0.1	Cumulic Cryoborolls	deep	LSC	Popr	2-5 %	---
		,	---	7	---	40 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	
471	0.2	Aquic Cryoborolls	deep	LSC	Pofr4	0-2 %	---
		,	---	7	---	30 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
471	0.3	Histic Cryaquolls	deep	LSC	Cale4	0-2 %	---
		,	---	7	---	20 %	
		, ---	loam	---	---	Topo-edaphic	
		---	---		---	Association	
471	0.5	Dystric Cryochrepts	deep	LSC	Pien	5-15 %	---
		,	cobbly	7	---	10 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	---	
473	0.1	Pergelic Cryumbrepts	deep	LSC	Kobe	15-40 %	---
		,	very gravelly	8	---	90 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	Consociation	
473	0.5	Pergelic Cryorthents	deep	LSC	Gerot	15-40 %	---
		,	extremely gravelly	8	---	10 %	
		nonacid, ---	sandy loam	---	---	Edaphic	
		---	---		---	---	
474	0.1	Lithic Ustochrepts	shallow	HSM	Fosp2	40-80 %	---
		,	extremely cobbly	3	---	30 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
474	0.2	Typic Ustochrepts	moderately deep	HSM	Qugr3	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
474	0.3	---	---	HSM	---	80-120 %	---
		,	---	3	---	15 %	
		, ---	---	---	---	---	
		Granite/rhyolite rock outcrop	---		---	Association	
474	0.4	---	---	HSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Granite/rhyolite rock outcrop	---		---	Association	
474	0.5	Lithic Ustochrepts	shallow	HSM	Qugr3	40-80 %	---
		,	extremely stony	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
475	0.1	Lithic Ustochrepts	shallow	HSM	Fosp2	40-80 %	---
		,	extremely cobbly	3	---	30 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
475 0.2	Lithic Ustochrepts	shallow	HSM	Quem	40-80 %	---
	,	extremely cobbly	3	---	30 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
475 0.3	---	---	HSM	---	80-120 %	---
	,	---	3	---	15 %	
	, ---	---	---	---	---	
	Granite/rhyolite rock outcrop	---		---	Association	
475 0.4	---	---	HSM	---	80-120 %	---
	,	---	4	---	15 %	
	, ---	---	---	---	---	
	Granite/rhyolite rock outcrop	---		---	Association	
475 0.5	Typic Ustochrepts	moderately deep	HSM	Quem	40-80 %	---
	,	extremely cobbly	4	---	10 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	---	
476 0.1	Lithic Ustochrepts	shallow	HSM	Quem	40-80 %	---
	,	extremely cobbly	4	---	30 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
476 0.2	Typic Dystrochrepts	deep	LSC	Psmeg	40-80 %	---
	,	extremely cobbly	6	---	30 %	
	, frigid	sandy loam	---	---	Edaphic	
	---	---		---	Association	
476 0.3	---	---	HSM	---	80-120 %	---
	,	---	4	---	15 %	
	, ---	---	---	---	---	
	Granite/rhyolite rock outcrop	---		---	Association	
476 0.4	---	---	LSC	---	80-120 %	---
	,	---	6	---	15 %	
	, ---	---	---	---	---	
	Granite/rhyolite rock outcrop	---		---	Association	
476 0.5	Typic Ustochrepts	moderately deep	HSM	Pipos	40-80 %	---
	,	extremely cobbly	5	---	10 %	
	, frigid	sandy loam	---	---	Edaphic	
	---	---		---	---	
477 0.1	Lithic Ustochrepts	shallow	LSM	Fosp2	15-40 %	---
	,	extremely cobbly	3	---	60 %	
	, thermic	sandy loam	---	---	Edaphic	
	---	---		---	Association	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
477 0.2	Aridic Ustochrepts	moderately deep	LSM	Prve	0-15 %	---
	,	very gravelly	3	---	40 %	
	, thermic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
478 0.1	Lithic Ustochrepts	shallow	HSM	Fosp2	40-80 %	---
	,	extremely cobbly	3	---	30 %	
	, thermic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
478 0.2	Lithic Ustochrepts	shallow	HSM	Qugr3	40-80 %	---
	,	extremely cobbly	4	---	30 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
478 0.3	---	---	HSM	---	80-120 %	---
	,	---	3	---	15 %	
	, ---	---	---	---	---	
	Granite/rhyolite rock outcrop	---		---	Association	
478 0.4	---	---	HSM	---	80-120 %	---
	,	---	4	---	15 %	
	, ---	---	---	---	---	
	Granite/rhyolite rock outcrop	---		---	Association	
478 0.5	Typic Ustochrepts	moderately deep	HSM	Qugr3	40-80 %	---
	,	extremely cobbly	4	---	10 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	---	
479 0.1	Lithic Ustochrepts	shallow	HSM	Qugr3	40-80 %	---
	,	extremely cobbly	4	---	30 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	Association	
479 0.2	Typic Dystrochrepts	deep	LSC	Psmeg	40-80 %	---
	,	extremely cobbly	6	---	30 %	
	, frigid	sandy loam	---	---	Edaphic	
	---	---		---	Association	
479 0.3	---	---	HSM	---	80-120 %	---
	,	---	4	---	15 %	
	, ---	---	---	---		
	Granite/rhyolite rock outcrop	---		---	Association	
479 0.4	---	---	LSC	---	80-120 %	---
	,	---	6	---	15 %	
	, ---	---	---	---	---	
	Granite/rhyolite rock outcrop	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
479	0.5	Typic Ustochrepts	moderately deep	HSM	Pipos	40-80 %	---
		,	extremely cobbly	5	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
481	0.1	Typic Ustochrepts	deep	LSM	Quar	0-15 %	---
		,	gravelly	4	---	90 %	
		calcareous, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
481	0.5	Lithic Ustochrepts	shallow	LSM	Quar	0-15 %	---
		,	cobbly	4	---	10 %	
		calcareous, mesic	loam	---	---	Edaphic	
		---	---		---	---	
482	0.1	Typic Ustochrepts	moderately deep	LSM	Quar	15-40 %	---
		,	cobbly	4	---	50 %	
		calcareous, mesic	loam	---	---	Edaphic	
		---	---		---	Complex	
482	0.2	Lithic Ustochrepts	shallow	LSM	Quar	15-40 %	---
		,	very cobbly	4	---	40 %	
		calcareous, mesic	loam	---	---	Edaphic	
		---	---		---	Complex	
482	0.5	---	---	LSM	---	40-80 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	---	
483	0.1	Typic Ustochrepts	moderately deep	LSM	Quar	40-80 %	---
		,	extremely cobbly	4	---	40 %	
		calcareous, mesic	loam	---	---	Edaphic	
		---	---		---	Complex	
483	0.2	Lithic Ustochrepts	shallow	LSM	Quar	40-80 %	---
		,	extremely cobbly	4	---	20 %	
		calcareous, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Complex	
483	0.3	---	---	LSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	Edaphic	
		Limestone rock outcrop	---		---	Association	
483	0.4	---	---	LSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	Edaphic	
		Limestone rock outcrop	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
483	0.5	Lithic Haplustolls	shallow	LSM	Quar	40-80 %	---
		,	extremely cobbly	4	---	10 %	
		calcareous, mesic	loam	---	---	Edaphic	
		---	---		---	---	
485	0.1	Typic Ustochrepts	deep	LSM	Qutu2	0-15 %	---
		,	very gravelly	4	---	20 %	
		, mesic	sandy loam	---	---	Edaphic/fire	
		---	---		---	Association	
485	0.2	Typic Ustochrepts	deep	LSM	Qutu2	15-40 %	---
		,	very gravelly	4	---	80 %	
		, mesic	sandy loam	---	---	Edaphic/fire	
		---	---		---	Association	
486	0.1	Typic Ustochrepts	moderately deep	LSM	Quar	40-80 %	---
		,	extremely cobbly	5	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
486	0.2	Udic Ustochrepts	deep	LSM	Quarg	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Topo/fire	
		---	---		---	Association	
486	0.3	---	---	LSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Granite/rhyolite rock outcrop	---		---	Association	
486	0.4	---	---	LSM	---	80-120 %	---
		,	---	5	---	15 %	
		, ---	---	---	---	---	
		Granite/rhyolite rock outcrop	---		---	Association	
486	0.5	Typic Ustochrepts	deep	LSM	Qutu2	40-80 %	---
		,	extremely cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic/fire	
		---	---		---	---	
487	0.1	Typic Ustochrepts	moderately deep	LSM	Quar	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
487	0.2	Typic Dystrochrepts	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
487	0.3	---	---	LSM	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Granite/rhyolite rock outcrop	---		---	Association	
487	0.4	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Granite/rhyolite rock outcrop	---		---	Association	
487	0.5	Typic Ustochrepts	moderately deep	LSM	Pipos	40-80 %	---
		,	extremely cobbly	5	---	10 %	
		, frigid	sandy loam	---	---	Edaphic	
		---	---		---	---	
490	0.1	Aridic Ustochrepts	deep	HSM	Prgl2	15-40 %	---
		,	very cobbly	3	---	30 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
490	0.2	Typic Ustochrepts	deep	HSM	Quem	15-40 %	---
		,	cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	
490	0.3	Aridic Haplustalfs	deep	HSM	Prgl2	0-15 %	---
		,	cobbly	3	---	20 %	
		, thermic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
490	0.5	Aridic Haplustalfs	deep	HSM	Prgl2	15-40 %	---
		,	very cobbly	3	---	10 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	
490	0.6	Typic Haplustalfs	deep	HSM	Quem	15-40 %	---
		,	very cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
491	0.1	Aridic Ustochrepts	deep	HSM	Prgl2	15-40 %	---
		,	very cobbly	3	---	30 %	
		, thermic	sandy loam	---	---	Edaphic	
		---			---	Association	
491	0.2	Typic Ustochrepts	deep	HSM	Qugr3	15-40 %	---
		,	cobbly	4	---	30 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
491	0.3	Aridic Haplustalfs	deep	HSM	Prgl2	0-15 %	---
		,	cobbly	3	---	20 %	
		, thermic	sandy loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
491	0.5	Aridic Haplustalfs	deep	LSM	Prgl2	15-40 %	---
		,	very cobbly	3	---	10 %	
		, thermic	sandy loam	---	---	Edaphic	
		---	---		---	---	
491	0.6	Typic Haplustalfs	deep	HSM	Qugr3	15-40 %	---
		,	cobbly	4	---	10 %	
		, mesic	sandy loam	---	---	Edaphic	
		---	---		---	---	
500	0.1	Fluventic Haploborolls	deep	LSC	Popr	2-5 %	---
		,	---	5	---	20 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	
500	0.2	Typic Ustifluvents	deep	LSC	Pipos	2-5 %	---
		,	---	5	---	60 %	
		nonacid, frigid	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
500	0.5	---	---	LSC	---	0-2 %	---
		,	---	5	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
500	0.6	Fluventic Ustochrepts	deep	LSC	Pipos	2-5 %	---
		,	---	5	---	10 %	
		, frigid	sandy loam	---	---	Topo-edaphic	
		---	---		---	---	
501	0.1	Fluventic Haploborolls	deep	LSC	Popr	2-5 %	---
		,	---	5	---	20 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	
501	0.2	Aquic Ustifluvents	deep	LSC	Poan3	0-2 %	---
		,	---	5	---	60 %	
		nonacid, frigid	sandy loam	---	---	Topo-edaphic	
		---	---		---	Association	
501	0.5	Fluventic Haploborolls	deep	LSC	Popr	2-5 %	---
		,	---	5	---	10 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	---	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
501 0.6	---	---	LSC	---	0-2 %	---
	,	---	5	---	10 %	
	, ---	---	---	---	---	
	Riverwash	---		---	---	
510 0.1	Cumulic Haplustolls	deep	LSM	Quar	2-5 %	---
	,	---	4	---	60 %	
	, mesic	loam	---	---	Topo-edaphic/zootic	
	---	compacted		---	Association	
510 0.2	Fluventic Haplustolls	deep	LSM	Quar	2-5 %	---
	,	---	4	---	30 %	
	, mesic	loam	---	---	Topo-edaphic/zootic	
	---	compacted		---	Association	
510 0.5	---	---	LSM	---	0-2 %	---
	,	---	4	---	10 %	
	, ---	---	---	---	---	
	Riverwash	---		---	---	
515 0.1	Cumulic Haplustolls	deep	HSC	Gusa2	2-5 %	---
	,	---	4	---	60 %	
	, mesic	loam	---	---	Topo-edaphic/zootic	
	---	compacted		---	Association	
515 0.2	Aquic Haplustolls	deep	HSC	Pofrw	0-2 %	---
	,	---	4	---	20 %	
	, mesic	loam	---	---	Topo-edaphic/zootic	
	---	compacted		---	Association	
515 0.5	Fluventic Haplustolls	deep	HSC	Jumo	2-5 %	---
	,	---	4	---	10 %	
	, mesic	loam	---	---	Topo-edaphic/zootic	
	---	comapcted		---	---	
515 0.6	---	---	HSC	---	0-2 %	---
	,	---	4	---	10 %	
	, ---	---	---	---	---	
	Riverwash	---		---	---	
516 0.1	Cumulic Haploborolls	deep	LSC	Popr	2-5 %	---
	,	---	5	---	50 %	
	, ---	loam	---	---	Topo-edaphic/zootic	
	---	compacted		---	Association	
516 0.2	Aquic Haploborolls	deep	LSC	Poan3	0-2 %	---
	,	---	5	---	30 %	
	, ---	loam	---	---	Topo-edaphic/zootic	
	---	gullied		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
516	0.5	Fluventic Haploborolls	deep	LSC	Pipos	2-5 %	---
		,	---	5	---	10 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	---	
516	0.6	---	---	LSC	---	0-2 %	---
		,	---	5	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
517	0.1	Cumulic Udic Haploborolls	deep	LSC	Popr	2-5 %	---
		,	---	6	---	50 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	
517	0.2	Aquic Haploborolls	deep	LSC	Poan3	0-2 %	---
		,	---	6	---	30 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	gullied		---	Association	
517	0.5	Fluventic Haploborolls	deep	LSC	Pipu	2-5 %	---
		,	---	6	---	10 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	---	
517	0.6	---	---	LSC	---	0-2 %	---
		,	---	6	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
518	0.1	Cumulic Haplustolls	deep	HSC	Bogr2	2-5 %	---
		,	---	4	---	90 %	
		, mesic	loam	---	---	Topo-edaphic/zootic	
		---	gullied		---	Consociation	
518	0.5	Fluventic Haplustolls	deep	HSC	Jumo	2-5 %	---
		,	---	4	---	10 %	
		, mesic	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	---	
551	0.1	Lithic Haplustolls	shallow	HSC	Jumo	15-40 %	---
		,	very cobbly	4	---	60 %	
		, mesic	loam	---	---	Edaphic	
		---	moderately alkaline		---	Association	
551	0.2	Typic Calciustolls	deep	HSC	Jumo	0-15 %	---
		,	very cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
551	0.5	Typic Ustochrepts	deep	HSC	Jumo	0-15 %	---
		,	very cobbly	4	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	compacted		---	---	
553	0.1	Udic Haploborolls	deep	LSC	Psmeg	40-80 %	---
		,	extremely stony	6	---	40 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
553	0.2	Typic Cryoborolls	deep	LSC	Pien	40-80 %	---
		,	extremely stony	7	---	30 %	
		, ---	sandy loam	---	---	Edaphic	
		---	---		---	Association	
553	0.3	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	Association	
553	0.4	---	---	LSC	---	80-120 %	---
		,	---	7	---	15 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	Association	
554	0.1	Argic Cryoborolls	deep	LSC	Feth	0-15 %	---
		,	cobbly	7	---	60 %	
		, ---	loam	---	---	Edaphic/fire	
		---	---		---	Association	
554	0.2	Typic Cryoboralfs	deep	LSC	Pien	15-40 %	---
		,	cobbly	7	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
554	0.5	Argic Pachic Cryoborolls	deep	LSC	Feth	0-15 %	---
		,	---	7	---	10 %	
		, ---	loam	---	---	Edaphic/fire	
		---	---		---	---	
555	0.1	Typic Cryobolls	deep	LSC	Feth	15-40 %	---
		,	cobbly	7	---	90 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Consociation	
555	0.5	Typic Cryoborolls	deep	LSC	Pien	15-40 %	---
		,	cobbly	7	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
556	0.1	Pachic Haploborolls	deep	LSC	Quga	15-40 %	---
		,	cobbly	6	---	60 %	
		, ---	loam	---	---	Topo-edaphic	
		---	---		---	Association	
556	0.2	Typic Haploborolls	deep	LSC	Popr	5-15 %	---
		,	cobbly	6	---	20 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	
556	0.3	Typic Haplaquolls	deep	LSC	Sala5	0-2 %	---
		,	cobbly	6	---	20 %	
		, frigid	loam	---	---	Topo-edaphic	
		---	---		---	Association	
558	0.1	Cumulic Haploborolls	deep	LSC	Popr	2-5 %	---
		,	---	6	---	60 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	
558	0.2	Aquic Haploborolls	deep	LSC	Poan3	0-2 %	---
		,	---	6	---	20 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	
558	0.5	Fluventic Haploborolls	deep	LSC	Pipu	2-5 %	---
		,	---	6	---	10 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	---	
558	0.6	---	---	LSC	---	0-2 %	---
		,	---	6	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
559	0.1	Fluventic Haploborolls	deep	LSC	Popr	2-5 %	---
		,	---	6	---	60 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	
559	0.2	Aquic Haploborolls	deep	LSC	Poan3	0-2 %	---
		,	---	6	---	20 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	Association	
559	0.5	Cumulic Haploborolls	deep	LSC	Popr	2-5 %	---
		,	---	6	---	10 %	
		, ---	loam	---	---	Topo-edaphic/zootic	
		---	compacted		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
559	0.6	---	---	LSC	---	0-2 %	---
		,	---	6	---	10 %	
		, ---	---	---	---	---	
		Riverwash	---		---	---	
560	0.1	Pachic Argiborolls	deep	LSC	Popr	0-15 %	---
		,	cobbly	5	---	80 %	
		, ---	clay loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	Consociation	
560	0.5	Typic Argiborolls	deep	LSC	Popr	0-15 %	---
		,	cobbly	5	---	10 %	
		, ---	clay loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	---	
560	0.6	Pachic Argiborolls	deep	LSC	Fear2	0-15 %	---
		,	cobbly	5	---	10 %	
		, ---	clay loam	---	---	Edaphic/fire	
		---	---		---	---	
561	0.1	Typic Argiborolls	deep	LSC	Popr	0-15 %	---
		,	---	5	---	80 %	
		, ---	loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	Consociation	
561	0.5	Typic Argiborolls	deep	LSC	Pipos	0-15 %	---
		,	---	5	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	
561	0.6	Typic Argiborolls	deep	LSC	Fear2	0-15 %	---
		,	---	5	---	10 %	
		, ---	loam	---	---	Edaphic/fire	
		---	---		---	---	
562	0.1	Typic Argiustolls	deep	LSC	Jumo	15-40 %	---
		,	cobbly	4	---	90 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Consociation	
562	0.5	Typic Haplustalfs	deep	HSC	Jumo	15-40 %	---
		,	cobbly	4	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	---	
563	0.1	Lithic Haplustolls	shallow	HSC	Jumo	40-80 %	---
		,	extremely cobbly	4	---	30 %	
		calcareous, mesic	loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
563	0.2	Udic Argiborolls	deep	LSC	Psmeg	40-80 %	---
		,	extremely cobbly	6	---	30 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
563	0.3	---	---	HSC	---	80-120 %	---
		,	---	4	---	15 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	Association	
563	0.4	---	---	LSC	---	80-120 %	---
		,	---	6	---	15 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	Association	
563	0.5	Typic Argiborolls	deep	LSC	Pipos	40-80 %	---
		,	extremely cobbly	5	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	
565	0.1	Lithic Argiustolls	shallow	HSC	Jumo	0-15 %	---
		,	cobbly	4	---	30 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	Association	
565	0.2	Lithic Argiustolls	shallow	HSC	Jumo	15-40 %	---
		,	very cobbly	4	---	50 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
565	0.5	---	---	HSC	---	40-80 %	---
		,	---	4	---	10 %	
		, ---	---	---	---	---	
		Limestone rock outcrop	---		---	---	
565	0.6	Typic Argiustolls	moderately deep	HSC	Jumo	0-15 %	---
		,	cobbly	4	---	10 %	
		, mesic	loam	---	---	Edaphic/zootic	
		---	compacted		---	---	
571	0.1	Typic Argiborolls	deep	LSC	Pipos	15-40 %	---
		,	very cobbly	5	---	50 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
571	0.2	Udic Argiborolls	deep	LSC	Psmeg	15-40 %	---
		,	very cobbly	6	---	50 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
572	0.1	Udic Argiborolls	deep	LSC	Psmeg	15-40 %	---
		,	stony	6	---	50 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
572	0.2	Argic Cryoborolls	deep	LSC	Pien	15-40 %	---
		,	stony	7	---	50 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
576	0.1	Lithic Argiustolls	shallow	HSC	Jumo	15-40 %	---
		,	very cobbly	4	---	50 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	Association	
576	0.2	Typic Argiborolls	deep	LSC	Pipos	15-40 %	---
		,	very cobbly	5	---	50 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	Association	
580	0.1	Udic Argiborolls	deep	LSC	Bran	0-15 %	---
		,	gravelly	6	---	90 %	
		, ---	loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	Consociation	
580	0.5	Eutric Glossoboralfs	deep	LSC	Psmeg	0-15 %	---
		,	gravelly	6	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	
581	0.1	Vertic Argiborolls	deep	LSC	Chna2	0-15 %	---
		,	cobbly	5	---	90 %	
		, ---	clay loam	---	---	Edaphic/fire/zootic	
		---	compacted		---	Consociation	
581	0.5	Typic Argiborolls	deep	LSC	Fear2	0-15 %	---
		,	cobbly	5	---	10 %	
		, ---	loam	---	---	Edaphic/fire	
		---	---		---	---	
582	0.1	Pachic Udic Argiborolls	deep	LSC	Bran	0-15 %	---
		,	gravelly	6	---	90 %	
		, ---	loam	---	---	Edaphic/fire	
		---	---		---	Consociation	
582	0.5	Eutric Glossoboralfs	deep	LSC	Psmeg	0-15 %	---
		,	gravelly	6	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
592 0.1	Lithic Haplustolls	shallow	HSM	Fosp2	40-80 %	---
	,	extremely cobbly	3	---	30 %	
	calcareous, thermic	loam	---	---	Edaphic	
	---	---		---	Association	
592 0.2	Lithic Haplustolls	shallow	HSM	Quem	40-80 %	---
	,	extremely cobbly	4	---	30 %	
	calcareous, mesic	loam	---	---	Edaphic	
	---	---		---	Association	
592 0.3	---	---	HSM	---	80-120 %	---
	,	---	3	---	15 %	
	, ---	---	---	---	---	
	Limestone rock outcrop	---		---	Association	
592 0.4	---	---	HSM	---	80-120 %	---
	,	---	4	---	15 %	
	, ---	---	---	---	---	
	Limestone rock outcrop	---		---	Association	
592 0.5	Lithic Calciorthids	shallow	HSM	Fosp2	40-80 %	---
	,	extremely cobbly	2	---	10 %	
	, thermic	loam	---	---	Edaphic	
	---	---		---	---	
700 0.1	---	---	LSC	---	0-120 %	---
	,	---	5	---	60 %	
	, ---	---	---	---	---	
	Basalt rock outcrop	---		---	Association	
700 0.2	Mollic Vitrandepts	deep	LSC	Pipos	0-15 %	---
	,	extremely cindery	5	---	30 %	
	, frigid	sandy loam	---	---	Edaphic	
		---		---	association	
700 0.5	Mollic Vitrandepts	deep	HSC	Jumo	15-40 %	---
	,	extremely cindery	4	---	10 %	
	, mesic	sandy loam	---	---	Edaphic	
	---	---		---	---	
705 0.1	---	---	LSC	---	0-120 %	---
	,	---	5	---	60 %	
	, ---	---	---	---	---	
	Basalt rock outcrop	---		---	Association	
705 0.2	Mollic Eutroboralfs	deep	LSC	Pipos	0-15 %	---
	,	cobbly	5	---	20 %	
	, ---	loam	---	---	Edaphic	
		---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
705	0.5	Lithic Eutroboralfs	shallow	LSC	Pipos	0-15 %	---
		,	very stony	5	---	10 %	
		, ---	loam	---	---	Edaphic	
		---	---		---	---	
705	0.6	Lithic Haplustalfs	shallow	HSC	Jumo	0-15 %	---
		,	very stony	4	---	10 %	
		, mesic	loam	---	---	Edaphic	
		---	---		---	---	
800	0.1	---	---	LSC	---	5-10 %	Streams
		,	---	7	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
800	0.2	Typic Cryaquolls	deep	LSC	Samo2	5-10 %	---
		,	gravelly	7	---	100 %	
		, ---	loam	---	---	Topo-edaphic	
		---	---		---	Association	
801	0.1	---	---	LSC	---	5-10 %	Streams
		,	---	6	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
801	0.2	Typic Haplaquolls	deep	LSC	Sala5	5-10 %	---
		,	---	6	---	100 %	
		, frigid	loam	---	---	Topo-edaphic	
		---	---		---	Association	
802	0.1	---	---	HSM	---	5-10 %	Streams
		,	---	5	---	100 %	
		,	---	---	---	---	
		---	---		---	Association	
802	0.2	Typic Haplaquolls	deep	HSM	Sabe2	5-10 %	---
		,	---	5	---	100 %	
		,mesic	---	---	---	Topo-edaphic	
		---	---		---	Association	
803	0.1	---	---	LSC	---	5-10 %	Streams
		,	---	4	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
803	0.2	Typic Fluvaquents	deep	LSC	Sair	5-10 %	---
		,	---	4	---	100 %	
		nonacid, mesic	---	---	---	Topo-edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
804	0.1	---	---	HSC	---	5-10 %	Streams
		,	---	4	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
804	0.2	Typic Haplaquolls	deep	HSC	Sair	5-10 %	---
		,	---	4	---	100 %	
		, mesic	---	---	---	Topo-edaphic	
		---	---		---	Association	
805	0.1	---	---	LSC	---	5-10 %	Streams
		,	---	5	---	100 %	
		,	---	---	---	---	
		---	---		---	Association	
805	0.2	Typic Haplaquolls	deep	LSC	Sabe2	5-10 %	---
		,	---	5	---	100 %	
		,frigid	---	---	---	Topo-edaphic	
		---	---		---	Association	
810	0.1	---	---	HSM	---	5-10 %	Streams
		,	---	4	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
810	0.2	Typic Haplaquolls	deep	HSM	Sala6	5-10 %	---
		,	---	4	---	100 %	
		, mesic	---	---	---	Topo-edaphic	
		---	---		---	Association	
813	0.1	---	---	HSM	---	5-10 %	Streams
		,	---	4	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
813	0.2	Typic Haplaquolls	deep	HSM	Sala6	5-10 %	---
		,	---	4	---	100 %	
		, mesic	---	---	---	Topo-edaphic	
		---	---		---	Association	
815	0.1	---	---	LSM	---	5-10 %	Streams
		,	---	4	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
815	0.2	Typic Haplaquolls	deep	LSM	Sala6	5-10 %	---
		,	---	4	---	100 %	
		, mesic	---	---	---	Topo-edaphic	
		---	---		---	Association	

Map Unit No. Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
824 0.1	---	---	LSM	---	5-10 %	Streames
	,	---	2	---	100 %	
	, ---	---	---	---	---	
	---	---		---	Association	
824 0.2	Typic Fluvaquents	deep	LSM	Sata	5-10 %	---
	,	---	2	---	100 %	
	calcareous, themic	---	---	---	Topo-edaphic	
	---	---		---	Association	
826 0.1	---	---	LSC	---	2-5 %	Streams
	,	---	7	---	100 %	
	, ---	---	---	---	---	
	---	---		---	Association	
826 0.2	Typic Cryaquolls	deep	LSC	Samo2	2-5 %	---
	,	gravelly	7	---	100 %	
	, ---	loam	---	---	Topo-edaphic	
	---	---		---	Association	
827 0.1	---	---	LSC	---	2-5 %	Streams
	,	---	6	---	100 %	
	, ---	---	---	---	---	
	---	---		---	Association	
827 0.2	Typic Haplaquolls	deep	LSC	Sala5	2-5 %	---
	,	gravelly	6	---	100 %	
	, frigid	loam	---	---	Topo-edaphic	
	---	---		---	Association	
828 0.1	---	---	LSC	---	2-5 %	Streams
	,	---	5	---	100 %	
	, ---	---	---	---	---	
	---	---		---	Association	
828 0.2	Typic Haplaquolls	deep	LSC	Sabe2	2-5 %	---
	,	gravelly	5	---	100 %	
	, frigid	loam	---	---	Topo-edaphic	
	---	---		---	Association	
829 0.1	---	---	HSC	---	2-5 %	Streams
	,	---	4	---	100 %	
	, ---	---	---	---	---	
	---	---		---	Association	
829 0.2	Typic Haplaquolls	deep	HSC	Sair	2-5 %	---
	,	cobbly	4	---	100 %	
	, mesic	loam	---	---	Topo-edaphic	
	---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
835	0.1	---	---	HSC	---	2-5 %	Streams
		,	---	4	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
835	0.2	Typic Fluvaquents	deep	HSC	Sair	2-5 %	---
		,	---	4	---	100 %	
		calcareous, mesic	---	---	---	Topo-edaphic	
		---	---		---	Association	
840	0.1	---	---	HSM	---	2-5 %	Streams
		,	---	3	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
840	0.2	Typic Fluvaquents	deep	HSM	Sata	2-5 %	---
		,	---	3	---	100 %	
		calcareous, thermic	---	---	---	Topo-edaphic	
		---	---		---	Association	
841	0.1	---	---	HSM	---	2-5 %	Streams
		,	---	4	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
841	0.2	Typic Haplaquolls	deep	HSM	Sago	2-5 %	---
		,	---	4	---	100 %	
		, mesic	---	---	---	Topo-edaphic	
		---	---		---	Association	
842	0.1	---	---	HSM	---	2-5 %	Streams
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	Association	
842	0.2	Typic Haplaquolls	deep	HSM	Sabe2	2-5 %	---
		,	---	5	---	100 %	
		,mesic	---	---	---	Topo-edaphic	
		---	---		---	Association	
845	0.1	---	---	LSM	---	2-5 %	Streams
		,	---	2	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
845	0.2	Typic Fluvaquents	deep	LSM	Sata	2-5 %	---
		,	---	2	---	100 %	
		calcareous, thermic	---	---	---	Topo-edaphic	
		---	---		---	Association	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
846	0.1	---	---	LSM	---	2-5 %	Streams
		,	---	3	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
846	0.2	Typic Fluvaquents	deep	LSM	Sago	2-5 %	---
		,	---	3	---	100 %	
		calcareous, thermic	---	---	---	Topo-edaphic	
		---	---		---	Association	
860	0.1	---	---	LSM	---	0-2 %	Streams
		,	---	2	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
860	0.2	Typic Fluvaquents	deep	LSM	Sata	0-2 %	---
		,	---	2	---	100 %	
		calcareous, thermic	---	---	---	Topo-edaphic	
		---	---		---	Association	
861	0.1	---	---	LSM	---	0-2 %	Streams
		,	---	3	---	100 %	
		, ---	---	---	---	---	
		---	---		---	Association	
861	0.2	Typic Fluvaquents	deep	LSM	Sago	0-2 %	---
		,	---	3	---	100 %	
		calcareous, thermic	---	---	---	Topo-edaphic	
		---	---		---	Associations	
876	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		, ---	---	---	---	---	
		---	---		---	---	
877	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		, ---	---	---	---	---	
		---	---		---	---	
878	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		, ---	---	---	---	---	
		---	---		---	---	
879	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		, ---	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
880	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
881	0.1	---	---	LSM	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
882	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
883	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
884	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
885	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
886	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
887	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
888	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
889	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
890	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
891	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
892	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
893	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
894	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
895	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
896	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
897	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
898	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
899	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
900	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
901	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
902	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
903	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
904	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
905	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
906	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
907	0.1	---	---	HSC	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
908	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
909	0.1	---	---	HSC	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
910	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
911	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
912	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
913	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
914	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
915	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
916	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
917	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
918	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
919	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
920	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
921	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
922	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
923	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
924	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
925	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
926	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
927	0.1	---	---	LSM	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
928	0.1	---	---	LSM	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
929	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
930	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
931	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
932	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
933	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
934	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
935	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
936	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
937	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
938	0.1	---	---	LSC	---	--- %	Pond
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
939	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
940	0.1	---	---	LSC	---	--- %	Pond
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
941	0.1	---	---	LSC	---	--- %	Pond
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
942	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
943	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
945	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
947	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
948	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
949	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
950	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
951	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
952	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
953	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
954	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
955	0.1	---	---	HSC	---	--- %	Reservoir
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
956	0.1	---	---	HSC	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
957	0.1	---	---	HSC	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
958	0.1	---	---	HSC	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
959	0.1	---	---	HSC	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
960	0.1	---	---	HSC	---	--- %	Reservoir
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
962	0.1	---	---	HSC	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
963	0.1	---	---	HSC	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
964	0.1	---	---	HSC	---	--- %	Reservoir
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
965	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
966	0.1	---	---	LSM	---	--- %	Reservoir
		,	---	2	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
967	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
969	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
970	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
971	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
972	0.1	---	---	LSM	---	--- %	Reservoir
		,	---	1	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
973	0.1	---	---	LSM	---	--- %	Reservoir
		,	---	2	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
974	0.1	---	---	LSM	---	--- %	Reservoir
		,	---	2	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
975	0.1	---	---	LSM	---	--- %	Reservoir
		,	---	2	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
976	0.1	---	---	LSM	---	--- %	Reservoir
		,	---	2	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
977	0.1	---	---	HSM	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
978	0.1	---	---	HSM	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
979	0.1	---	---	HSC	---	--- %	Reservoir
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
980	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
981	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
982	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
983	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
984	0.1	---	---	HSC	---	--- %	Reservoir
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
985	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
986	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
987	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
988	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
989	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
990	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
991	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
992	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
993	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
994	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
995	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
996	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
997	0.1	---	---	HSC	---	--- %	Reservoir
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
998	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
999	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1000	0.1	---	---	HSM	---	--- %	Reservoir
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1001	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1002	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1003	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1004	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1005	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1006	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1007	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1008	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1009	0.1	---	---	HSM	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1010	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1011	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1012	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1013	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1014	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1015	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1016	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1017	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1018	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1019	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1020	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1021	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1022	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1023	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1024	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1025	0.1	---	---	LSC	---	--- %	Pond
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1026	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1027	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1028	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1029	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1030	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1031	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1032	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1033	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1034	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1035	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1036	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1037	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1038	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1039	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1040	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1041	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1042	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1043	0.1	---	---	LSC	---	--- %	Pond
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1044	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1045	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1046	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1047	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1048	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1049	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1050	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1051	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1052	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1053	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1054	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1055	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1056	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1057	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1058	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1059	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1060	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1061	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1062	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1063	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1064	0.1	---	---	LSC	---	--- %	Lake
			---	7	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

1065	0.1	---	---	LSC	---	--- %	Lake
			---	7	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

1066	0.1	---	---	LSC	---	--- %	Lake
			---	7	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

1067	0.1	---	---	LSC	---	--- %	Lake
			---	7	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

1068	0.1	---	---	LSC	---	--- %	Lake
			---	7	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

1069	0.1	---	---	LSC	---	--- %	Lake
			---	7	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

1070	0.1	---	---	LSC	---	--- %	Lake
			---	7	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

1071	0.1	---	---	LSC	---	--- %	Lake
			---	7	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

1072	0.1	---	---	LSC	---	--- %	Lake
			---	7	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

1073	0.1	---	---	LSC	---	--- %	Reservoir
			---	5	---	--- %	
		,	---	---	---	---	
		,	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1074	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1075	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1076	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1077	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1078	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1079	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1080	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1081	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1082	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1083	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1084	0.1	---	---	LSC	---	--- %	Lake
			---	5	---	--- %	
			---	---	---	---	
			---		---	---	
1085	0.1	---	---	HSC	---	--- %	Lake
			---	4	---	--- %	
			---	---	---	---	
			---		---	---	
1086	0.1	---	---	HSC	---	--- %	Lake
			---	4	---	--- %	
			---	---	---	---	
			---		---	---	
1087	0.1	---	---	HSC	---	--- %	Lake
			---	4	---	--- %	
			---	---	---	---	
			---		---	---	
1088	0.1	---	---	HSC	---	--- %	Lake
			---	4	---	--- %	
			---	---	---	---	
			---		---	---	
1089	0.1	---	---	HSC	---	--- %	Lake
			---	4	---	--- %	
			---	---	---	---	
			---		---	---	
1090	0.1	---	---	HSC	---	--- %	Pond
			---	4	---	--- %	
			---	---	---	---	
			---		---	---	
1091	0.1	---	---	HSC	---	--- %	Lake
			---	4	---	--- %	
			---	---	---	---	
			---		---	---	
1092	0.1	---	---	HSC	---	--- %	Lake
			---	4	---	--- %	
			---	---	---	---	
			---		---	---	
1093	0.1	---	---	HSC	---	--- %	Lake
			---	4	---	--- %	
			---	---	---	---	
			---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1094	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1095	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1096	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1097	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1098	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1099	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1100	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1101	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1102	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1103	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Table 1. Mapping Legend For General Ecosystem Survey.

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1104	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1105	0.1	---	---	HSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1106	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1107	0.1	---	---	LSM	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1108	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1109	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1110	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1111	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1112	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1113	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1114	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1115	0.1	---	---	LSM	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1116	0.1	---	---	LSM	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1117	0.1	---	---	LSC	---	--- %	Lake
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1118	0.1	---	---	HSM	---	--- %	Lake
		,	---	3	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1119	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1120	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1121	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1122	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1123	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1124	0.1	---	---	LSC	---	--- %	Pond
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1125	0.1	---	---	LSC	---	--- %	Pond
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1126	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1127	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1128	0.1	---	---	LSC	---	--- %	Pond
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1129	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1130	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1131	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1132	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1133	0.1	---	---	HSM	---	--- %	Reservoir
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1134	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1135	0.1	---	---	LSC	---	--- %	Pond
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1136	0.1	---	---	HSM	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1137	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1138	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1139	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1140	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1141	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1142	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1143	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1144	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1145	0.1	---	---	LSC	---	--- %	Lake
		,	---	7	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1146	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1147	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1148	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1149	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1150	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1151	0.1	---	---	LSC	---	--- %	Lake
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1152	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1153	0.1	---	---	LSC	---	--- %	Lake
		,	---	6	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

Table 1. Mapping Legend For General Ecosystem Survey. USDA-FS, R-3 Date 03/14/89 Page 85

Map Unit No.	Comp	Soil Name or Miscellaneous Area	Phase	Clim. Class	Veg. Symb.	Slope/Composition Climax/Kind of MU	Water
1154	0.1	---	---	HSC	---	--- %	Pond
		,	---	4	---	--- %	
		,	---	---	---	---	
		---	---		---	---	
1155	0.1	---	---	LSC	---	--- %	Reservoir
		,	---	5	---	--- %	
		,	---	---	---	---	
		---	---		---	---	

OUTPUT SCREEN

Appendix B

Table 2a. Acreage of General Terrestrial Ecosystems. USDA-FS, R3 Date 03/14/89 Page 1

Map Unit No. Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Acres
101 0.1	0	0	0	0	2484	0	0	0	0	0	0	2484
101 0.5	0	0	0	0	276	0	0	0	0	0	0	276
103 0.1	0	0	0	6598	0	0	0	0	35173	0	18348	60119
103 0.2	0	0	0	5278	0	0	0	0	28138	0	14678	48094
103 0.5	0	0	0	1319	0	0	0	0	7034	0	3669	12022
110 0.1	0	0	0	0	0	0	0	0	0	0	15565	15565
110 0.2	0	0	0	0	0	0	0	0	0	0	7782	7782
110 0.3	0	0	0	0	0	0	0	0	0	0	7782	7782
110 0.5	0	0	0	0	0	0	0	0	0	0	3891	3891
110 0.6	0	0	0	0	0	0	0	0	0	0	3891	3891
120 0.1	0	0	46036	0	0	0	0	0	0	9620	0	55656
120 0.2	0	0	36828	0	0	0	0	0	0	7696	0	44524
120 0.5	0	0	9207	0	0	0	0	0	0	1924	0	11131
121 0.1	0	0	0	82017	0	0	12006	0	112314	0	51991	258328
121 0.2	0	0	0	49210	0	0	7203	0	67388	0	31194	154995
121 0.5	0	0	0	16403	0	0	2401	0	22462	0	10398	51664
121 0.6	0	0	0	16403	0	0	2401	0	22462	0	10398	51664
122 0.1	0	15665	0	0	0	0	0	0	0	11367	0	27032
122 0.2	0	9399	0	0	0	0	0	0	0	6820	0	16219
122 0.5	0	3133	0	0	0	0	0	0	0	2273	0	5406
122 0.6	0	3133	0	0	0	0	0	0	0	2273	0	5406
124 0.1	0	3429	0	0	0	0	0	0	0	0	0	3429
124 0.2	0	3429	0	0	0	0	0	0	0	0	0	3429
124 0.3	0	2286	0	0	0	0	0	0	0	0	0	2286
124 0.5	0	1143	0	0	0	0	0	0	0	0	0	1143
124 0.6	0	1143	0	0	0	0	0	0	0	0	0	1143
126 0.1	0	0	0	37282	0	0	411	0	32669	0	73824	144186
126 0.2	0	0	0	37282	0	0	411	0	32669	0	73824	144186
126 0.3	0	0	0	18641	0	0	205	0	16334	0	36912	72092
126 0.4	0	0	0	18641	0	0	205	0	16334	0	36912	72092
126 0.5	0	0	0	12427	0	0	137	0	10889	0	24608	48061
127 0.1	0	0	0	0	0	49935	0	0	0	0	0	49935
127 0.2	0	0	0	0	0	24967	0	0	0	0	0	24967
127 0.5	0	0	0	0	0	8322	0	0	0	0	0	8322
128 0.1	0	0	0	13685	0	0	0	0	45194	0	12939	71818
128 0.2	0	0	0	27370	0	0	0	0	90388	0	25878	143636
128 0.5	0	0	0	4561	0	0	0	0	15064	0	4313	23938
129 0.1	0	0	19948	0	0	0	3952	0	0	0	0	23900
129 0.2	0	0	6649	0	0	0	1317	0	0	0	0	7966
129 0.5	0	0	3324	0	0	0	658	0	0	0	0	3982
129 0.6	0	0	3324	0	0	0	658	0	0	0	0	3982
130 0.1	53874	0	91588	0	0	0	0	37264	0	71197	0	253923
130 0.5	6734	0	11448	0	0	0	0	4658	0	8899	0	31739
130 0.6	6734	0	11448	0	0	0	0	4658	0	8899	0	31739
131 0.1	0	0	8894	0	0	0	0	13981	0	60117	0	82992
131 0.5	0	0	1111	0	0	0	0	1747	0	7514	0	10372
131 0.6	0	0	1111	0	0	0	0	1747	0	7514	0	10372
132 0.1	0	14161	14762	0	0	0	0	0	0	30933	0	59856
132 0.2	0	14161	14762	0	0	0	0	0	0	30933	0	59856
132 0.3	0	7080	7381	0	0	0	0	0	0	15466	0	29927
132 0.4	0	7080	7381	0	0	0	0	0	0	15466	0	29927

Table 2a. Acreage of General Terrestrial Ecosystems.

Map Unit No. Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Acres
132 0.5	0	4720	4920	0	0	0	0	0	0	10311	0	19951
134 0.1	28292	0	7576	30190	0	2413	29132	0	1312	0	0	98915
134 0.2	18861	0	5051	20127	0	1609	19421	0	874	0	0	65943
134 0.3	28292	0	7576	30190	0	2413	29132	0	1312	0	0	98915
134 0.5	9430	0	2525	10063	0	804	9710	0	437	0	0	32969
134 0.6	9430	0	2525	10063	0	804	9710	0	437	0	0	32969
135 0.1	0	112366	0	0	0	0	79557	0	0	7152	0	199075
135 0.5	0	14045	0	0	0	0	9944	0	0	894	0	24883
135 0.6	0	14045	0	0	0	0	9944	0	0	894	0	24883
136 0.1	0	5816	0	0	0	0	20372	0	0	16732	0	42920
136 0.5	0	727	0	0	0	0	2546	0	0	2091	0	5364
136 0.6	0	727	0	0	0	0	2546	0	0	2091	0	5364
137 0.1	0	24406	0	0	0	0	29876	0	0	36028	0	90310
137 0.2	0	24406	0	0	0	0	29876	0	0	36028	0	90310
137 0.3	0	12203	0	0	0	0	14938	0	0	18014	0	45155
137 0.4	0	12203	0	0	0	0	14938	0	0	18014	0	45155
137 0.5	0	8135	0	0	0	0	9958	0	0	12009	0	30102
139 0.1	0	17198	0	0	0	0	0	0	0	3324	0	20522
139 0.2	0	25797	0	0	0	0	0	0	0	4986	0	30783
139 0.3	0	25797	0	0	0	0	0	0	0	4986	0	30783
139 0.5	0	8599	0	0	0	0	0	0	0	1662	0	10261
139 0.6	0	8599	0	0	0	0	0	0	0	1662	0	10261
140 0.1	0	0	5645	0	0	0	0	0	0	0	0	5645
140 0.2	0	0	5645	0	0	0	0	0	0	0	0	5645
140 0.3	0	0	5645	0	0	0	0	0	0	0	0	5645
140 0.5	0	0	1881	0	0	0	0	0	0	0	0	1881
143 0.1	24150	0	0	0	0	26839	0	0	0	0	0	50989
143 0.2	24150	0	0	0	0	26839	0	0	0	0	0	50989
143 0.3	24150	0	0	0	0	26839	0	0	0	0	0	50989
143 0.5	8050	0	0	0	0	8946	0	0	0	0	0	16996
144 0.1	47831	0	0	0	1108	52470	0	0	0	0	0	101409
144 0.2	38264	0	0	0	886	41976	0	0	0	0	0	81126
144 0.5	9566	0	0	0	221	10494	0	0	0	0	0	20281
145 0.1	42325	0	9382	0	0	13385	0	0	0	0	0	65092
145 0.2	42325	0	9382	0	0	13385	0	0	0	0	0	65092
145 0.3	21162	0	4691	0	0	6692	0	0	0	0	0	32545
145 0.4	21162	0	4691	0	0	6692	0	0	0	0	0	32545
145 0.5	14108	0	3127	0	0	4461	0	0	0	0	0	21696
146 0.1	0	0	0	0	29354	0	0	0	0	0	0	29354
146 0.2	0	0	0	0	44031	0	0	0	0	0	0	44031
146 0.3	0	0	0	0	44031	0	0	0	0	0	0	44031
146 0.5	0	0	0	0	14677	0	0	0	0	0	0	14677
146 0.6	0	0	0	0	14677	0	0	0	0	0	0	14677
147 0.1	0	0	0	0	20417	0	0	0	0	0	0	20417
147 0.5	0	0	0	0	2552	0	0	0	0	0	0	2552
147 0.6	0	0	0	0	2552	0	0	0	0	0	0	2552
148 0.1	0	0	0	0	11997	0	0	0	0	0	0	11997
148 0.2	0	0	0	0	9597	0	0	0	0	0	0	9597
148 0.5	0	0	0	0	2399	0	0	0	0	0	0	2399
149 0.1	0	0	18349	0	0	67825	0	36892	0	0	0	123066
149 0.2	0	0	14679	0	0	54260	0	29514	0	0	0	98453

Map Unit No.	Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Acres
149	0.5	0	0	3669	0	0	13565	0	7378	0	0	0	24612
150	0.1	0	0	0	360	0	0	0	0	0	0	34125	34485
150	0.2	0	0	0	541	0	0	0	0	0	0	51188	51729
150	0.3	0	0	0	541	0	0	0	0	0	0	51188	51729
150	0.5	0	0	0	180	0	0	0	0	0	0	17062	17242
150	0.6	0	0	0	180	0	0	0	0	0	0	17062	17242
151	0.1	0	0	0	0	0	0	0	0	2025	0	19826	21851
151	0.2	0	0	0	0	0	0	0	0	2025	0	19826	21851
151	0.5	0	0	0	0	0	0	0	0	506	0	4956	5462
151	0.6	0	0	0	0	0	0	0	0	506	0	4956	5462
156	0.1	0	0	0	0	0	0	0	3019	0	0	0	3019
156	0.2	0	0	0	0	0	0	0	9057	0	0	0	9057
156	0.5	0	0	0	0	0	0	0	1509	0	0	0	1509
156	0.6	0	0	0	0	0	0	0	1509	0	0	0	1509
158	0.1	2592	0	0	0	0	78205	0	0	0	0	0	80797
158	0.2	5184	0	0	0	0	156411	0	0	0	0	0	161595
158	0.3	5184	0	0	0	0	156411	0	0	0	0	0	161595
158	0.4	4320	0	0	0	0	130343	0	0	0	0	0	134663
159	0.1	113609	0	0	108105	0	0	0	0	0	0	0	221714
159	0.2	37869	0	0	36035	0	0	0	0	0	0	0	73904
159	0.5	18934	0	0	18017	0	0	0	0	0	0	0	36951
159	0.6	18934	0	0	18017	0	0	0	0	0	0	0	36951
160	0.1	96262	56266	64464	1571	0	5654	137908	7644	0	48980	0	418749
160	0.5	12032	7033	8058	196	0	706	17238	955	0	6122	0	52340
160	0.6	12032	7033	8058	196	0	706	17238	955	0	6122	0	52340
161	0.1	27038	56478	40960	2676	0	0	98676	15721	0	69523	31073	342145
161	0.5	3004	6275	4551	297	0	0	10964	1746	0	7724	3452	38013
162	0.1	10997	0	0	0	0	0	0	0	0	0	0	10997
162	0.2	10997	0	0	0	0	0	0	0	0	0	0	10997
162	0.5	2749	0	0	0	0	0	0	0	0	0	0	2749
162	0.6	2749	0	0	0	0	0	0	0	0	0	0	2749
168	0.1	63442	0	3390	0	0	143925	0	25188	0	0	0	235945
168	0.2	63442	0	3390	0	0	143925	0	25188	0	0	0	235945
168	0.3	31721	0	1695	0	0	71962	0	12594	0	0	0	117972
168	0.4	31721	0	1695	0	0	71920	0	12594	0	0	0	117930
168	0.5	21147	0	1130	0	0	47947	0	8396	0	0	0	78620
176	0.1	6671	49615	0	1956	0	0	22751	0	0	18287	0	99280
176	0.2	3335	24807	0	978	0	0	11375	0	0	9143	0	49638
176	0.3	6671	49615	0	1956	0	0	22751	0	0	18287	0	99280
176	0.4	3335	24807	0	978	0	0	11375	0	0	9143	0	49638
176	0.5	2223	16538	0	652	0	0	7583	0	0	6095	0	33091
177	0.1	0	53524	0	0	0	0	0	0	0	16803	0	70327
177	0.2	0	53524	0	0	0	0	0	0	0	16803	0	70327
177	0.3	0	26762	0	0	0	0	0	0	0	8401	0	35163
177	0.4	0	26762	0	0	0	0	0	0	0	8401	0	35163
177	0.5	0	17841	0	0	0	0	0	0	0	5601	0	23442
178	0.1	30656	0	1186	20828	0	0	0	0	0	0	0	52670
178	0.2	30656	0	1186	20828	0	0	0	0	0	0	0	52670
178	0.3	15328	0	593	10414	0	0	0	0	0	0	0	26335
178	0.4	15328	0	593	10414	0	0	0	0	0	0	0	26335
178	0.5	10218	0	395	6942	0	0	0	0	0	0	0	17555

Map Unit No. Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Acres
181 0.1	5403	10837	0	0	0	351	5229	0	0	8870	0	30690
181 0.2	18913	37930	0	0	0	1229	18302	0	0	31047	0	107421
181 0.5	2701	5418	0	0	0	175	2614	0	0	4435	0	15343
183 0.1	0	26446	0	0	0	0	0	0	0	0	0	26446
183 0.2	0	35262	0	0	0	0	0	0	0	0	0	35262
183 0.3	0	17631	0	0	0	0	0	0	0	0	0	17631
183 0.5	0	8815	0	0	0	0	0	0	0	0	0	8815
187 0.1	0	7936	0	0	0	0	0	0	0	0	0	7936
187 0.2	0	7936	0	0	0	0	0	0	0	0	0	7936
187 0.3	0	3968	0	0	0	0	0	0	0	0	0	3968
187 0.4	0	3968	0	0	0	0	0	0	0	0	0	3968
187 0.5	0	2645	0	0	0	0	0	0	0	0	0	2645
188 0.1	0	10042	0	0	0	0	0	0	0	0	0	10042
188 0.2	0	7531	0	0	0	0	0	0	0	0	0	7531
188 0.3	0	3765	0	0	0	0	0	0	0	0	0	3765
188 0.5	0	1255	0	0	0	0	0	0	0	0	0	1255
188 0.6	0	2510	0	0	0	0	0	0	0	0	0	2510
191 0.1	30276	0	25482	21918	0	70601	0	0	4872	0	0	153149
191 0.2	30276	0	25482	21918	0	70601	0	0	4872	0	0	153149
191 0.5	7569	0	6370	5479	0	17650	0	0	1218	0	0	38286
191 0.6	7569	0	6370	5479	0	17650	0	0	1218	0	0	38286
192 0.1	13463	0	0	0	0	26701	0	0	0	0	0	40164
192 0.2	13463	0	0	0	0	26701	0	0	0	0	0	40164
192 0.3	6731	0	0	0	0	13350	0	0	0	0	0	20081
192 0.4	6731	0	0	0	0	13350	0	0	0	0	0	20081
192 0.5	4487	0	0	0	0	8900	0	0	0	0	0	13387
193 0.1	54894	0	0	240601	0	0	122499	0	0	0	0	417994
193 0.2	32936	0	0	144360	0	0	73499	0	0	0	0	250795
193 0.5	10978	0	0	48120	0	0	24499	0	0	0	0	83597
193 0.6	10978	0	0	48120	0	0	24499	0	0	0	0	83597
194 0.1	0	0	0	35306	0	0	34650	0	0	0	0	69956
194 0.2	0	0	0	21183	0	0	20790	0	0	0	0	41973
194 0.5	0	0	0	7061	0	0	6930	0	0	0	0	13991
194 0.6	0	0	0	7061	0	0	6930	0	0	0	0	13991
196 0.1	5723	0	0	0	0	59992	0	0	0	0	0	65715
196 0.2	8584	0	0	0	0	89988	0	0	0	0	0	98572
196 0.3	8584	0	0	0	0	89988	0	0	0	0	0	98572
196 0.5	2861	0	0	0	0	29996	0	0	0	0	0	32857
196 0.6	2861	0	0	0	0	29996	0	0	0	0	0	32857
197 0.1	23481	0	0	0	0	0	0	0	0	0	0	23481
197 0.2	11740	0	0	0	0	0	0	0	0	0	0	11740
197 0.5	3913	0	0	0	0	0	0	0	0	0	0	3913
198 0.1	58124	0	0	0	0	16933	0	0	0	0	0	75057
198 0.2	72656	0	0	0	0	21166	0	0	0	0	0	93822
198 0.5	14531	0	0	0	0	4233	0	0	0	0	0	18764
214 0.1	0	0	0	0	0	0	0	0	0	0	108136	108136
214 0.2	0	0	0	0	0	0	0	0	0	0	86509	86509
214 0.5	0	0	0	0	0	0	0	0	0	0	21627	21627
235 0.1	0	0	0	0	9630	0	0	0	0	0	0	9630
235 0.5	0	0	0	0	1070	0	0	0	0	0	0	1070
236 0.1	0	0	0	0	0	0	0	0	0	0	5091	5091

Map Unit No.	Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Fres. 09	SantaFe 10	Tonto 12	Total Acres
236	0.5	0	0	0	0	0	0	0	0	0	0	565	565
237	0.1	0	0	0	0	0	0	0	0	0	0	14248	14248
237	0.2	0	0	0	0	0	0	0	0	0	0	9498	9498
237	0.3	0	0	0	0	0	0	0	0	0	0	18997	18997
237	0.5	0	0	0	0	0	0	0	0	0	0	4749	4749
240	0.1	0	0	5567	0	2285	0	0	12222	0	0	0	20074
240	0.5	0	0	618	0	253	0	0	1358	0	0	0	2229
297	0.1	0	0	0	0	0	0	0	0	7901	0	0	7901
297	0.2	0	0	0	0	0	0	0	0	5925	0	0	5925
297	0.3	0	0	0	0	0	0	0	0	3950	0	0	3950
297	0.5	0	0	0	0	0	0	0	0	1975	0	0	1975
298	0.1	0	0	0	0	0	0	0	0	11025	0	26384	37409
298	0.2	0	0	0	0	0	0	0	0	14700	0	35179	49879
298	0.3	0	0	0	0	0	0	0	0	7350	0	17589	24939
298	0.5	0	0	0	0	0	0	0	0	3675	0	8794	12469
299	0.1	0	0	0	0	0	0	0	0	0	0	25281	25281
299	0.2	0	0	0	0	0	0	0	0	0	0	25281	25281
299	0.3	0	0	0	0	0	0	0	0	0	0	12640	12640
300	0.1	3183	0	0	32077	0	0	8522	0	13746	0	9002	66530
300	0.2	3183	0	0	32077	0	0	8522	0	13746	0	9002	66530
300	0.3	1591	0	0	16038	0	0	4261	0	6873	0	4501	33264
300	0.4	1591	0	0	16038	0	0	4261	0	6873	0	4501	33264
300	0.5	1061	0	0	10692	0	0	2840	0	4582	0	3000	22175
301	0.1	0	0	0	0	0	0	0	0	0	0	53744	53744
301	0.2	0	0	0	0	0	0	0	0	0	0	42995	42995
301	0.5	0	0	0	0	0	0	0	0	0	0	10748	10748
303	0.1	0	0	0	0	26262	0	0	0	13208	0	242932	282402
303	0.2	0	0	0	0	26262	0	0	0	13208	0	242932	282402
303	0.3	0	0	0	0	13131	0	0	0	6604	0	121466	141201
303	0.4	0	0	0	0	13131	0	0	0	6604	0	121466	141201
303	0.5	0	0	0	0	8754	0	0	0	4402	0	80977	94133
305	0.1	0	0	0	0	0	0	0	0	0	0	32239	32239
305	0.2	0	0	0	0	0	0	0	0	0	0	9211	9211
305	0.5	0	0	0	0	0	0	0	0	0	0	4605	4605
306	0.1	0	0	0	13333	0	0	0	0	5215	0	18440	36988
306	0.2	0	0	0	4444	0	0	0	0	1738	0	6146	12328
306	0.5	0	0	0	2222	0	0	0	0	869	0	3073	6164
306	0.6	0	0	0	2222	0	0	0	0	869	0	3073	6164
310	0.1	0	0	0	0	0	0	0	0	0	0	52461	52461
310	0.5	0	0	0	0	0	0	0	0	0	0	5829	5829
333	0.1	0	0	0	0	0	0	10443	0	0	0	0	10443
333	0.2	0	0	0	0	0	0	2610	0	0	0	0	2610
349	0.1	0	0	14294	0	0	0	0	0	0	22081	0	36375
349	0.2	0	0	14294	0	0	0	0	0	0	22081	0	36375
349	0.3	0	0	7147	0	0	0	0	0	0	11040	0	18187
349	0.4	0	0	7147	0	0	0	0	0	0	11040	0	18187
349	0.5	0	0	4764	0	0	0	0	0	0	7360	0	12124
351	0.1	0	0	32201	0	0	0	0	0	0	12816	0	45017
351	0.5	0	0	4025	0	0	0	0	0	0	1602	0	5627
351	0.6	0	0	4025	0	0	0	0	0	0	1602	0	5627
352	0.1	0	10937	3410	0	0	0	0	0	0	31221	0	45568

Table 2a. Acreage of General Terrestrial Ecosystems.

Map Unit No. Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Acres
352 0.2	0	10937	3410	0	0	0	0	0	0	31221	0	45568
352 0.3	0	5468	1705	0	0	0	0	0	0	15610	0	22783
352 0.4	0	5468	1705	0	0	0	0	0	0	15610	0	22783
352 0.5	0	3645	1136	0	0	0	0	0	0	10407	0	15188
355 0.1	0	40099	0	0	0	0	0	0	0	0	0	40099
355 0.2	0	26733	0	0	0	0	0	0	0	0	0	26733
356 0.1	0	0	15168	0	0	0	0	0	0	0	0	15168
356 0.2	0	0	10112	0	0	0	0	0	0	0	0	10112
370 0.1	0	0	8260	0	32070	4161	0	0	0	0	0	44491
370 0.2	0	0	2753	0	10690	1387	0	0	0	0	0	14830
370 0.5	0	0	1376	0	5345	693	0	0	0	0	0	7414
370 0.6	0	0	1376	0	5345	693	0	0	0	0	0	7414
371 0.1	13820	0	0	0	2055	11872	0	0	0	0	0	27747
371 0.2	4606	0	0	0	685	3957	0	0	0	0	0	9248
371 0.5	2303	0	0	0	342	1978	0	0	0	0	0	4623
371 0.6	2303	0	0	0	342	1978	0	0	0	0	0	4623
380 0.1	0	0	0	0	0	0	0	57209	0	0	0	57209
380 0.2	0	0	0	0	0	0	0	57209	0	0	0	57209
380 0.3	0	0	0	0	0	0	0	28604	0	0	0	28604
380 0.4	0	0	0	0	0	0	0	28604	0	0	0	28604
380 0.5	0	0	0	0	0	0	0	19069	0	0	0	19069
381 0.1	0	0	0	0	30353	0	0	0	0	0	0	30353
381 0.2	0	0	0	0	20235	0	0	0	0	0	0	20235
390 0.1	10433	0	0	0	0	46662	0	0	0	0	0	57095
390 0.2	10433	0	0	0	0	46662	0	0	0	0	0	57095
390 0.3	6955	0	0	0	0	31108	0	0	0	0	0	38063
390 0.4	6955	0	0	0	0	31108	0	0	0	0	0	38063
415 0.1	0	4561	0	0	0	0	28444	0	0	0	0	33005
415 0.2	0	1955	0	0	0	0	12190	0	0	0	0	14145
420 0.1	0	0	0	0	0	0	140940	0	0	0	0	140940
420 0.2	0	0	0	0	0	0	60403	0	0	0	0	60403
421 0.1	0	30744	0	0	0	0	777	0	0	12316	0	43837
421 0.2	0	23058	0	0	0	0	583	0	0	9237	0	32878
421 0.3	0	15372	0	0	0	0	388	0	0	6158	0	21918
421 0.5	0	7686	0	0	0	0	194	0	0	3079	0	10959
422 0.1	0	0	0	0	0	0	16284	0	0	0	0	16284
422 0.2	0	0	0	0	0	0	16284	0	0	0	0	16284
422 0.3	0	0	0	0	0	0	8142	0	0	0	0	8142
424 0.1	0	0	0	42183	0	0	0	0	0	0	0	42183
424 0.2	0	0	0	31637	0	0	0	0	0	0	0	31637
424 0.3	0	0	0	15818	0	0	0	0	0	0	0	15818
424 0.4	0	0	0	15818	0	0	0	0	0	0	0	15818
427 0.1	231	0	0	0	0	13398	0	0	0	0	0	13629
427 0.2	231	0	0	0	0	13398	0	0	0	0	0	13629
427 0.3	154	0	0	0	0	8932	0	0	0	0	0	9086
427 0.4	154	0	0	0	0	8932	0	0	0	0	0	9086
428 0.1	0	0	0	30764	0	0	0	0	0	0	0	30764
428 0.5	0	0	0	3845	0	0	0	0	0	0	0	3845
428 0.6	0	0	0	3845	0	0	0	0	0	0	0	3845
429 0.1	0	0	0	0	0	72908	0	0	0	0	0	72908
429 0.2	0	0	0	0	0	36454	0	0	0	0	0	36454

Map Unit No.	Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Acres
429	0.5	0	0	0	0	0	12151	0	0	0	0	0	12151
430	0.1	0	0	94343	0	0	0	0	0	0	5097	0	99440
430	0.5	0	0	10482	0	0	0	0	0	0	566	0	11048
431	0.1	0	0	73877	0	0	0	0	0	0	0	0	73877
431	0.5	0	0	8208	0	0	0	0	0	0	0	0	8208
432	0.1	0	0	74188	0	0	0	0	0	0	0	0	74188
432	0.5	0	0	9273	0	0	0	0	0	0	0	0	9273
432	0.6	0	0	9273	0	0	0	0	0	0	0	0	9273
433	0.1	82912	0	48755	55432	0	0	49096	0	0	18610	0	254805
433	0.2	66329	0	39004	44346	0	0	39276	0	0	14888	0	203843
433	0.5	16582	0	9751	11086	0	0	9819	0	0	3722	0	50960
434	0.1	572	8915	47621	12955	0	0	0	3908	0	23098	0	97069
434	0.2	429	6686	35716	9716	0	0	0	2931	0	17324	0	72802
434	0.3	286	4457	23810	6477	0	0	0	1954	0	11549	0	48533
434	0.5	143	2228	11905	3238	0	0	0	977	0	5774	0	24265
435	0.1	0	0	39598	0	0	47153	0	0	0	0	0	86751
435	0.2	0	0	26399	0	0	31435	0	0	0	0	0	57834
437	0.1	0	0	2140	5743	0	0	4332	0	0	0	0	12215
437	0.2	0	0	2140	5743	0	0	4332	0	0	0	0	12215
437	0.3	0	0	1070	2871	0	0	2166	0	0	0	0	6107
437	0.4	0	0	1070	2871	0	0	2166	0	0	0	0	6107
437	0.5	0	0	713	1914	0	0	1444	0	0	0	0	4071
438	0.1	0	0	6376	0	0	0	0	0	0	0	0	6376
438	0.2	0	0	3188	0	0	0	0	0	0	0	0	3188
438	0.5	0	0	1062	0	0	0	0	0	0	0	0	1062
440	0.1	0	397	0	0	0	0	0	0	0	6522	0	6919
440	0.2	0	132	0	0	0	0	0	0	0	2174	0	2306
440	0.5	0	66	0	0	0	0	0	0	0	1087	0	1153
440	0.6	0	66	0	0	0	0	0	0	0	1087	0	1153
441	0.1	0	5863	0	0	0	0	0	0	0	9137	0	15000
441	0.2	0	1954	0	0	0	0	0	0	0	3045	0	4999
441	0.5	0	977	0	0	0	0	0	0	0	1522	0	2499
441	0.6	0	977	0	0	0	0	0	0	0	1522	0	2499
448	0.1	0	0	0	0	0	0	0	0	0	27244	0	27244
448	0.2	0	0	0	0	0	0	0	0	0	21795	0	21795
448	0.5	0	0	0	0	0	0	0	0	0	5448	0	5448
451	0.1	0	2021	4374	0	1345	0	0	0	0	22683	0	30423
451	0.5	0	224	486	0	149	0	0	0	0	2520	0	3379
452	0.1	1768	54103	5746	11663	2802	4946	0	0	0	68564	0	149592
452	0.2	1326	40577	4309	8747	2101	3709	0	0	0	51423	0	112192
452	0.3	663	20288	2154	4373	1050	1854	0	0	0	25711	0	56093
452	0.4	663	20288	2154	4373	1050	1854	0	0	0	25711	0	56093
454	0.1	0	0	0	0	0	0	0	0	0	17282	0	17282
454	0.2	0	0	0	0	0	0	0	0	0	25923	0	25923
455	0.1	0	0	0	0	0	0	0	0	0	37858	0	37858
455	0.2	0	0	0	0	0	0	0	0	0	50477	0	50477
455	0.3	0	0	0	0	0	0	0	0	0	18929	0	18929
455	0.4	0	0	0	0	0	0	0	0	0	18929	0	18929
456	0.1	0	0	0	17332	0	0	0	0	0	0	0	17332
456	0.2	0	0	0	12999	0	0	0	0	0	0	0	12999
456	0.3	0	0	0	12999	0	0	0	0	0	0	0	12999

Map Unit No. Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Acres
458 0.1	0	0	0	39645	0	0	0	0	0	0	0	39645
458 0.2	0	0	0	31716	0	0	0	0	0	0	0	31716
458 0.5	0	0	0	7929	0	0	0	0	0	0	0	7929
461 0.1	0	0	0	0	0	0	0	0	27500	0	21741	49241
461 0.2	0	0	0	0	0	0	0	0	27500	0	21741	49241
461 0.3	0	0	0	0	0	0	0	0	27500	0	21741	49241
461 0.5	0	0	0	0	0	0	0	0	9166	0	7247	16413
466 0.1	0	0	505	0	1800	0	0	0	0	6685	0	8990
466 0.2	0	0	1010	0	3601	0	0	0	0	13371	0	17982
466 0.5	0	0	168	0	600	0	0	0	0	2228	0	2996
471 0.1	0	9480	0	0	0	0	0	0	0	9700	0	19180
471 0.2	0	7110	0	0	0	0	0	0	0	7275	0	14385
471 0.3	0	4740	0	0	0	0	0	0	0	4850	0	9590
471 0.5	0	2370	0	0	0	0	0	0	0	2425	0	4795
473 0.1	0	4212	0	135	0	0	0	0	0	3708	0	8055
473 0.5	0	468	0	15	0	0	0	0	0	412	0	895
474 0.1	0	0	0	0	0	44175	0	0	0	0	0	44175
474 0.2	0	0	0	0	0	44175	0	0	0	0	0	44175
474 0.3	0	0	0	0	0	22087	0	0	0	0	0	22087
474 0.4	0	0	0	0	0	22087	0	0	0	0	0	22087
474 0.5	0	0	0	0	0	14725	0	0	0	0	0	14725
475 0.1	0	0	0	0	189936	0	0	0	0	0	0	189936
475 0.2	0	0	0	0	189936	0	0	0	0	0	0	189936
475 0.3	0	0	0	0	94968	0	0	0	0	0	0	94968
475 0.4	0	0	0	0	94968	0	0	0	0	0	0	94968
475 0.5	0	0	0	0	63312	0	0	0	0	0	0	63312
476 0.1	0	0	0	0	94302	0	0	0	0	0	0	94302
476 0.2	0	0	0	0	94302	0	0	0	0	0	0	94302
476 0.3	0	0	0	0	47151	0	0	0	0	0	0	47151
476 0.4	0	0	0	0	47151	0	0	0	0	0	0	47151
476 0.5	0	0	0	0	31434	0	0	0	0	0	0	31434
477 0.1	0	0	0	0	0	0	0	0	0	0	9981	9981
477 0.2	0	0	0	0	0	0	0	0	0	0	6654	6654
478 0.1	22712	0	0	0	0	2354	0	0	0	0	0	25066
478 0.2	22712	0	0	0	0	2354	0	0	0	0	0	25066
478 0.3	11356	0	0	0	0	1177	0	0	0	0	0	12533
478 0.4	11356	0	0	0	0	1177	0	0	0	0	0	12533
478 0.5	7570	0	0	0	0	784	0	0	0	0	0	8354
479 0.1	13293	0	99707	0	0	154032	0	0	0	0	0	267032
479 0.2	13293	0	99707	0	0	154032	0	0	0	0	0	267032
479 0.3	6646	0	49853	0	0	77016	0	0	0	0	0	133515
479 0.4	6646	0	49853	0	0	77016	0	0	0	0	0	133515
479 0.5	4431	0	33235	0	0	51344	0	0	0	0	0	89010
481 0.1	0	0	0	0	0	0	0	0	25743	0	0	25743
481 0.5	0	0	0	0	0	0	0	0	2860	0	0	2860
482 0.1	0	0	0	0	0	0	0	0	40196	0	0	40196
482 0.2	0	0	0	0	0	0	0	0	32157	0	0	32157
482 0.5	0	0	0	0	0	0	0	0	8039	0	0	8039
483 0.1	0	0	0	0	30755	0	0	0	36042	0	0	66797
483 0.2	0	0	0	0	15377	0	0	0	18021	0	0	33398
483 0.3	0	0	0	0	11533	0	0	0	13515	0	0	25048

Map Unit No.	Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Acres
483	0.4	0	0	0	0	11533	0	0	0	13515	0	0	25048
483	0.5	0	0	0	0	7688	0	0	0	9010	0	0	16698
485	0.1	0	0	0	0	2654	0	0	0	28299	0	31769	62722
485	0.2	0	0	0	0	10616	0	0	0	113198	0	127079	250893
486	0.1	0	0	0	0	0	0	0	0	0	0	40235	40235
486	0.2	0	0	0	0	0	0	0	0	0	0	40235	40235
486	0.3	0	0	0	0	0	0	0	0	0	0	20117	20117
486	0.4	0	0	0	0	0	0	0	0	0	0	20117	20117
486	0.5	0	0	0	0	0	0	0	0	0	0	13411	13411
487	0.1	0	0	0	0	0	0	0	0	71151	0	101186	172337
487	0.2	0	0	0	0	0	0	0	0	71151	0	101186	172337
487	0.3	0	0	0	0	0	0	0	0	35575	0	50593	86168
487	0.4	0	0	0	0	0	0	0	0	35575	0	50593	86168
487	0.5	0	0	0	0	0	0	0	0	23717	0	33728	57445
490	0.1	0	0	0	0	88652	0	0	0	0	0	0	88652
490	0.2	0	0	0	0	88652	0	0	0	0	0	0	88652
490	0.3	0	0	0	0	59101	0	0	0	0	0	0	59101
490	0.5	0	0	0	0	29550	0	0	0	0	0	0	29550
490	0.6	0	0	0	0	29550	0	0	0	0	0	0	29550
491	0.1	317	0	0	0	0	728	0	0	0	0	0	1045
491	0.2	317	0	0	0	0	728	0	0	0	0	0	1045
491	0.3	211	0	0	0	0	485	0	0	0	0	0	696
491	0.5	105	0	0	0	0	242	0	0	0	0	0	347
491	0.6	105	0	0	0	0	242	0	0	0	0	0	347
500	0.1	0	467	6904	0	0	0	0	364	0	0	0	7735
500	0.2	0	1402	20714	0	0	0	0	1093	0	0	0	23209
500	0.5	0	233	3452	0	0	0	0	182	0	0	0	3867
500	0.6	0	233	3452	0	0	0	0	182	0	0	0	3867
501	0.1	3727	0	0	0	0	9537	0	0	0	867	0	14131
501	0.2	11182	0	0	0	0	28611	0	0	0	2601	0	42394
501	0.5	1863	0	0	0	0	4768	0	0	0	433	0	7064
501	0.6	1863	0	0	0	0	4768	0	0	0	433	0	7064
510	0.1	0	0	0	0	0	0	0	0	10124	0	0	10124
510	0.2	0	0	0	0	0	0	0	0	5062	0	0	5062
510	0.5	0	0	0	0	0	0	0	0	1687	0	0	1687
515	0.1	0	2343	5326	0	0	0	0	11250	0	1110	0	20029
515	0.2	0	781	1775	0	0	0	0	3750	0	370	0	6676
515	0.5	0	390	887	0	0	0	0	1875	0	185	0	3337
515	0.6	0	390	887	0	0	0	0	1875	0	185	0	3337
516	0.1	0	0	7201	0	0	0	0	7471	0	4123	0	18795
516	0.2	0	0	4320	0	0	0	0	4482	0	2473	0	11275
516	0.5	0	0	1440	0	0	0	0	1494	0	824	0	3758
516	0.6	0	0	1440	0	0	0	0	1494	0	824	0	3758
517	0.1	0	0	0	0	0	0	0	6305	0	1125	0	7430
517	0.2	0	0	0	0	0	0	0	3783	0	675	0	4458
517	0.5	0	0	0	0	0	0	0	1261	0	225	0	1486
517	0.6	0	0	0	0	0	0	0	1261	0	225	0	1486
518	0.1	0	0	8162	0	0	0	0	11115	0	0	0	19277
518	0.5	0	0	906	0	0	0	0	1235	0	0	0	2141
551	0.1	0	0	0	0	0	0	0	124294	0	0	0	124294
551	0.2	0	0	0	0	0	0	0	62147	0	0	0	62147

Map Unit No. Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Acres
551 0.5	0	0	0	0	0	0	0	20715	0	0	0	20715
553 0.1	0	0	0	0	0	0	0	22488	0	0	0	22488
553 0.2	0	0	0	0	0	0	0	16866	0	0	0	16866
553 0.3	0	0	0	0	0	0	0	8433	0	0	0	8433
553 0.4	0	0	0	0	0	0	0	8433	0	0	0	8433
554 0.1	9341	0	0	0	0	0	3282	0	0	13348	0	25971
554 0.2	4670	0	0	0	0	0	1641	0	0	6674	0	12985
554 0.5	1556	0	0	0	0	0	547	0	0	2224	0	4327
555 0.1	0	0	3489	0	0	0	0	2146	0	1635	0	7270
555 0.5	0	0	387	0	0	0	0	238	0	181	0	806
556 0.1	0	41207	0	0	0	0	0	0	0	0	0	41207
556 0.2	0	13735	0	0	0	0	0	0	0	0	0	13735
556 0.3	0	13735	0	0	0	0	0	0	0	0	0	13735
558 0.1	4508	17016	0	0	0	0	0	0	0	5472	0	28996
558 0.2	1502	5672	0	0	0	0	0	0	0	1824	0	8998
558 0.5	751	2836	0	0	0	0	0	0	0	912	0	4499
558 0.6	751	2836	0	0	0	0	0	0	0	912	0	4499
559 0.1	0	7204	0	0	0	0	0	0	0	2192	0	9396
559 0.2	0	2401	0	0	0	0	0	0	0	730	0	3131
559 0.5	0	1200	0	0	0	0	0	0	0	365	0	1565
559 0.6	0	1200	0	0	0	0	0	0	0	365	0	1565
560 0.1	0	0	21582	37749	0	8796	41560	0	0	0	0	109687
560 0.5	0	0	2697	4718	0	1099	5195	0	0	0	0	13709
560 0.6	0	0	2697	4718	0	1099	5195	0	0	0	0	13709
561 0.1	8440	19777	24674	0	0	104191	0	0	0	0	0	157082
561 0.5	1055	2472	3084	0	0	13023	0	0	0	0	0	19634
561 0.6	1055	2472	3084	0	0	13023	0	0	0	0	0	19634
562 0.1	0	0	0	0	0	0	0	25049	0	0	0	25049
562 0.5	0	0	0	0	0	0	0	2783	0	0	0	2783
563 0.1	0	0	1469	0	0	0	0	57464	0	0	0	58933
563 0.2	0	0	1469	0	0	0	0	57464	0	0	0	58933
563 0.3	0	0	734	0	0	0	0	28732	0	0	0	29466
563 0.4	0	0	734	0	0	0	0	28732	0	0	0	29466
563 0.5	0	0	489	0	0	0	0	19154	0	0	0	19643
565 0.1	0	0	0	0	0	0	0	21501	0	0	0	21501
565 0.2	0	0	0	0	0	0	0	35835	0	0	0	35835
565 0.5	0	0	0	0	0	0	0	7167	0	0	0	7167
565 0.6	0	0	0	0	0	0	0	7167	0	0	0	7167
571 0.1	0	0	6573	0	0	0	0	39256	0	0	0	45829
571 0.2	0	0	6573	0	0	0	0	39256	0	0	0	45829
572 0.1	0	0	1084	0	0	0	0	17324	0	20361	0	38769
572 0.2	0	0	1084	0	0	0	0	17324	0	20361	0	38769
576 0.1	0	0	0	0	0	0	0	29142	0	0	0	29142
576 0.2	0	0	0	0	0	0	0	29142	0	0	0	29142
580 0.1	0	12467	888	0	0	0	0	0	0	0	0	13355
580 0.5	0	1385	98	0	0	0	0	0	0	0	0	1483
581 0.1	0	0	0	48225	0	0	52028	0	0	0	0	100253
581 0.5	0	0	0	5358	0	0	5780	0	0	0	0	11138
582 0.1	30095	0	0	0	0	0	0	0	0	0	0	30095
582 0.5	3343	0	0	0	0	0	0	0	0	0	0	3343
592 0.1	0	0	0	0	12480	0	0	0	0	0	0	12480

Table 2a. Acreage of General Terrestrial Ecosystems. USDA-FS, R3 Date 03/14/89 Page 11

Map Unit No. Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe. 10	Tonto 12	Total Acres
592 0.2	0	0	0	0	12480	0	0	0	0	0	0	12480
592 0.3	0	0	0	0	6240	0	0	0	0	0	0	6240
592 0.4	0	0	0	0	6240	0	0	0	0	0	0	6240
592 0.5	0	0	0	0	4160	0	0	0	0	0	0	4160
700 0.1	0	0	0	5496	0	0	0	0	0	0	0	5496
700 0.2	0	0	0	2748	0	0	0	0	0	0	0	2748
700 0.5	0	0	0	916	0	0	0	0	0	0	0	916
705 0.1	0	0	6590	0	0	0	0	0	0	0	0	6590
705 0.2	0	0	2196	0	0	0	0	0	0	0	0	2196
705 0.5	0	0	1098	0	0	0	0	0	0	0	0	1098
705 0.6	0	0	1098	0	0	0	0	0	0	0	0	1098
Total Ac	2117328	1614922	1855662	2014513	1798718	3382859	1605812	1266683	1417467	1692166	2945776	21711906

OUTPUT SCREEN

Table 2b. Miles of General Fluvial Ecosystems. USDA-FS, R3 Date 03/14/89

Map Unit No.	Comp	A/S 01	Carson 02	Cibola 03	Coc. 04	Coron. 05	Gila 06	Kaibab 07	Lincoln 08	Pres. 09	SantaFe 10	Tonto 12	Total Miles
800	0.1	79.5	229.5	1.1	0.0	0.0	25.2	0.0	15.3	0.0	272.9	0.0	623.5
801	0.1	310.9	118.4	12.9	71.1	26.9	267.5	4.2	26.8	0.0	475.9	46.2	1360.8
802	0.1	2.1	3.1	0.0	0.0	0.0	514.8	0.0	0.0	0.0	0.0	0.0	520.0
803	0.1	0.0	0.0	0.0	0.0	0.0	0.0	24.7	0.0	0.0	0.0	0.0	24.7
804	0.1	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	22.3	0.0	25.5
805	0.1	2.0	0.0	0.0	0.0	0.0	76.5	0.0	0.0	0.0	0.0	0.0	78.5
810	0.1	67.1	0.0	0.0	0.0	43.6	108.8	0.0	0.0	0.0	0.0	0.0	219.5
813	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	138.5	138.5
815	0.1	0.0	0.0	0.0	62.9	0.0	0.0	0.0	0.0	29.3	0.0	54.8	147.0
824	0.1	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	52.7	58.3
826	0.1	0.0	81.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	87.9
827	0.1	15.6	62.9	13.0	0.0	0.0	1.1	0.0	32.4	0.0	72.4	0.0	197.4
828	0.1	33.3	61.5	10.3	0.0	0.0	64.7	0.0	29.9	0.0	38.2	0.0	237.9
829	0.1	4.6	34.7	8.3	0.0	0.0	2.1	0.0	34.6	0.0	41.9	0.0	126.2
835	0.1	0.0	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5	0.0	86.8
840	0.1	25.1	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	26.0
841	0.1	44.7	0.0	0.0	0.0	12.7	38.3	0.0	0.0	0.0	0.0	0.0	95.7
842	0.1	0.0	0.0	0.0	0.0	0.0	34.9	0.0	0.0	0.0	0.0	0.0	34.9
845	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.8	67.8
846	0.1	0.0	0.0	0.0	36.4	0.0	0.0	0.0	0.0	5.5	0.0	36.3	78.2
860	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	46.7
861	0.1	0.0	0.0	0.0	56.3	0.0	0.0	0.0	0.0	0.0	0.0	25.5	81.8
Total Mi		584.9	616.1	48.8	232.3	84.1	1133.9	28.9	139.0	34.8	992.3	468.5	4363.6

OUTPUT SCREEN

Map Unit No.	Comp	Name of Water Body	Forest	Extent Areal (ac)	Extent Lineal (mi)
941	0.1	Horseshoe Lake	Apache/Sitgreaves	22.5	0.9
942	0.1	Five Mile Lake	Apache/Sitgreaves	24.9	0.7
943	0.1	Carr Lake	Apache/Sitgreaves	14.7	0.7
945	0.1	Deer Lake	Apache/Sitgreaves	20.4	0.8
947	0.1	Palomino Lake	Apache/Sitgreaves	32.5	0.9
948	0.1	Woods Canyon Lake	Apache/Sitgreaves	171.6	3.3
949	0.1	Lake 3	Apache/Sitgreaves	26.1	1.0
950	0.1	Lake 1	Apache/Sitgreaves	27.3	1.1
951	0.1	Willow Springs Lake	Apache/Sitgreaves	90.0	2.4
952	0.1	Nelson Lake	Apache/Sitgreaves	18.1	0.7
953	0.1	Black Canyon Lake	Apache/Sitgreaves	108.7	2.1
954	0.1	Hess Tank	Apache/Sitgreaves	16.7	0.6
955	0.1	Lone Pine	Apache/Sitgreaves	147.3	3.1
956	0.1	White Lake	Apache/Sitgreaves	68.7	1.4
957	0.1	Deep Lake	Apache/Sitgreaves	29.9	0.9
958	0.1	Telephone Lake	Apache/Sitgreaves	29.3	0.9
959	0.1	Ned Lake	Apache/Sitgreaves	15.4	0.6
960	0.1	Fools Hollow Lake	Apache/Sitgreaves	562.9	7.5
962	0.1	Pintail Lake	Apache/Sitgreaves	39.8	1.2
963	0.1	Long Lake	Apache/Sitgreaves	343.9	3.7
964	0.1	Show Low Lake	Apache/Sitgreaves	195.8	2.7
969	0.1	Bear Canyon Lake	Apache/Sitgreaves	157.5	3.0
970	0.1	Knoll Lake	Apache/Sitgreaves	209.2	3.2
971	0.1	Chevelon Canyon Lake	Apache/Sitgreaves	284.1	6.1
984	0.1	Little Mormon Lake	Apache/Sitgreaves	80.6	2.0
985	0.1	Rainbow Lake	Apache/Sitgreaves	165.0	3.2
986	0.1	Lake Woodland	Apache/Sitgreaves	31.2	0.9
987	0.1	Sponseller Lake	Apache/Sitgreaves	26.2	0.9
988	0.1	Lake Mountain	Apache/Sitgreaves	16.6	0.6
989	0.1	Carnero	Apache/Sitgreaves	79.7	1.7
990	0.1	Norton	Apache/Sitgreaves	31.1	0.9
991	0.1	Geneva	Apache/Sitgreaves	28.0	0.9
992	0.1	White Mountain Reservoir	Apache/Sitgreaves	330.9	3.0
993	0.1	Bunch Lake	Apache/Sitgreaves	76.9	1.5
994	0.1	Tunnel Reservoir	Apache/Sitgreaves	55.6	1.2
995	0.1	River Reservoir	Apache/Sitgreaves	86.7	2.1
996	0.1	Mexican Hay Lake	Apache/Sitgreaves	74.7	1.5
997	0.1	H-V Reservoir	Apache/Sitgreaves	26.2	1.1
1000	0.1	Nelson Reservoir	Apache/Sitgreaves	75.6	1.8
1001	0.1	Lee Valley Reservoir	Apache/Sitgreaves	46.0	1.3
1002	0.1	Cresent Lake	Apache/Sitgreaves	204.5	3.8
1003	0.1	Big Lake	Apache/Sitgreaves	452.8	4.8
1004	0.1	Lake Sierra Blanca	Apache/Sitgreaves	56.8	1.4
1005	0.1	Nutrioso Lake	Apache/Sitgreaves	31.0	0.8
1006	0.1	Luna Lake	Apache/Sitgreaves	93.8	2.5
1120	0.1	Eager Reservoir	Apache/Sitgreaves	11.3	0.5
1121	0.1	Hay Lake	Apache/Sitgreaves	57.8	1.1
1122	0.1	Ellis Wiltbank Reservoir	Apache/Sitgreaves	29.0	0.8
1123	0.1	Harris Lake	Apache/Sitgreaves	62.1	1.4
1124	0.1	WS Lake	Apache/Sitgreaves	25.6	0.8
1125	0.1	Ackre Lake	Apache/Sitgreaves	33.2	0.9

Map Unit No.	Comp	Name of Water Body	Forest	Extent Areal (ac)	Extent Lineal (mi)
1126	0.1	Milligan Lake	Apache/Sitgreaves	13.8	0.6
1127	0.1	Tenney Reservoir	Apache/Sitgreaves	21.9	0.7
1128	0.1	Crosby	Apache/Sitgreaves	57.1	1.1
1129	0.1	Colter Lake	Apache/Sitgreaves	42.2	1.1
1130	0.1	Water Canyon Reservoir	Apache/Sitgreaves	85.6	2.5
1154	0.1	Whipple Lake	Apache/Sitgreaves	84.6	1.7
1155	0.1	Scott Lake	Apache/Sitgreaves	69.9	1.7
1010	0.1	Chino Lake	Carson	28.2	0.8
1011	0.1	Laguna Largo	Carson	24.9	0.8
1012	0.1	Laguna Largo	Carson	46.4	1.0
1013	0.1	Ursula Lake	Carson	45.1	1.1
1014	0.1	Lucero Lake	Carson	14.7	0.6
1015	0.1	Lucero Lake	Carson	18.6	0.6
1016	0.1	Lucero Lake	Carson	20.3	0.7
1017	0.1	Lucero Lake	Carson	42.1	1.0
1018	0.1	West Boundary	Carson	29.8	0.9
1019	0.1	Canjilon Lake	Carson	17.1	0.6
1020	0.1	Canjilon Lake	Carson	15.0	0.6
1021	0.1	Canjilon Lake	Carson	9.4	0.5
1022	0.1	Canjilon Lake	Carson	23.3	0.7
1023	0.1	Canjilon Lake	Carson	9.1	0.5
1024	0.1	Canjilon Lake	Carson	16.2	0.6
1025	0.1	Kiowa Lake	Carson	27.5	0.8
1026	0.1	Hidden Lake	Carson	19.4	0.7
1027	0.1	Trout Lake	Carson	16.2	0.6
1033	0.1	Hopewell Lake	Carson	51.0	1.2
1036	0.1	Unnamed	Carson	15.8	0.7
1037	0.1	Beatty Lake	Carson	14.8	0.7
1038	0.1	Beatty Lake	Carson	16.2	0.7
1039	0.1	Goose Lake	Carson	8.3	0.5
1040	0.1	Middle Fork Lake	Carson	11.6	0.6
1041	0.1	No Name	Carson	15.2	0.7
1042	0.1	Lost Lake	Carson	20.5	1.3
1043	0.1	Indian Lake	Carson	15.8	0.6
1044	0.1	Romero Lake	Carson	15.5	0.6
1045	0.1	Unnamed Lake	Carson	16.9	0.6
1046	0.1	Serpent Lake	Carson	15.7	0.6
1047	0.1	Horseshoe Lake	Carson	14.8	0.6
1048	0.1	North Fork Lake	Carson	15.8	0.6
1049	0.1	Hidden Lake	Carson	16.7	0.7
1050	0.1	San Leonardo Lake	Carson	13.6	0.6
1051	0.1	San Leonardo Lake	Carson	13.0	0.6
1052	0.1	Unnamed	Carson	12.0	0.5
1053	0.1	Unnamed	Carson	5.5	0.4
1054	0.1	Unnamed	Carson	9.7	0.5
1055	0.1	Trampas Lake	Carson	10.6	0.5
1056	0.1	No Fish Lake	Carson	9.1	0.5
1057	0.1	Middle Fork Lake	Carson	12.1	0.6
1075	0.1	Shuree Pond	Carson	34.6	0.9
1076	0.1	Heart Lake	Carson	20.9	0.7
1077	0.1	Cabresto Lake	Carson	8.9	0.5

Map Unit No.	Comp	Name of Water Body	Forest	Extent Areal (ac)	Extent Lineal (mi)
1078	0.1	Unnamed	Carson	24.1	0.7
1139	0.1	Turkey Lake	Carson	40.6	0.9
1140	0.1	Rinker Lake	Carson	33.8	0.9
1141	0.1	Deep Lake	Carson	19.3	0.7
1142	0.1	No Name	Carson	14.9	0.6
1143	0.1	Cow Lake	Carson	11.2	0.5
1144	0.1	Horseshoe Lake	Carson	20.5	0.7
979	0.1	McGaffey Lake	Cibola	28.5	0.9
980	0.1	Unnamed	Cibola	52.7	1.2
981	0.1	Unnamed	Cibola	13.6	0.7
982	0.1	Ramah Reservoir	Cibola	84.4	1.7
983	0.1	Unnamed	Cibola	21.9	0.8
1119	0.1	Rice Park Lake	Cibola	83.6	1.9
882	0.1	Unnamed	Coconino	17.1	0.7
883	0.1	Unnammed	Coconino	16.4	0.6
884	0.1	Unnamed	Coconino	6.6	0.4
885	0.1	Unnamed	Coconino	14.4	0.6
886	0.1	Unnamed	Coconino	13.0	0.6
887	0.1	Unnamed	Coconino	19.5	0.7
888	0.1	Unnamed	Coconino	16.7	0.7
889	0.1	Unnamed	Coconino	8.3	0.5
890	0.1	Unnamed	Coconino	20.1	0.7
891	0.1	Unnamed	Coconino	13.6	0.6
892	0.1	Unnamed	Coconino	121.6	1.8
893	0.1	Mormon Lake	Coconino	4697.6	10.5
894	0.1	Perry Lake	Coconino	28.5	0.8
895	0.1	Ducksnest Lake	Coconino	78.3	1.5
896	0.1	Breezy Lake	Coconino	29.3	0.9
897	0.1	Long Lake	Coconino	285.1	3.3
898	0.1	Boot Lake	Coconino	124.1	2.4
899	0.1	Unnamed	Coconino	84.5	1.7
900	0.1	Unnamed	Coconino	63.6	1.5
901	0.1	Corner Lake	Coconino	30.2	1.0
902	0.1	Unnamed	Coconino	38.2	1.0
903	0.1	Unnamed	Coconino	138.7	1.9
904	0.1	Mud Lake	Coconino	102.3	1.9
905	0.1	Unnamed	Coconino	36.4	0.9
906	0.1	Kinnikinick Lake	Coconino	100.7	2.2
907	0.1	Morton Lake	Coconino	16.4	0.6
908	0.1	Cow Lake	Coconino	38.4	1.0
909	0.1	Unnamed	Coconino	18.1	0.7
910	0.1	Crater Lake	Coconino	34.6	1.0
911	0.1	Unnamed	Coconino	173.1	2.2
912	0.1	Allen Lake	Coconino	29.1	0.8
913	0.1	Blind Lake	Coconino	47.6	1.1
914	0.1	Stoneman Lake	Coconino	185.7	2.1
915	0.1	Unnamed	Coconino	38.0	1.2
916	0.1	Unnamed	Coconino	21.5	0.8
917	0.1	Soldier Lake	Coconino	41.8	1.1
918	0.1	Soldier Annex Lake	Coconino	93.8	1.7
919	0.1	Long Lake	Coconino	314.9	4.2

Map Unit No.	Comp	Name of Water Body	Forest	Extent Areal (ac)	Extent Lineal (mi)
920	0.1	Unnamed	Coconino	96.8	1.8
921	0.1	Unnamed	Coconino	31.8	0.9
922	0.1	Unnamed	Coconino	20.8	0.7
923	0.1	Unnamed	Coconino	34.4	0.9
924	0.1	Unnamed	Coconino	37.4	1.0
925	0.1	Turkey Mountain Pond	Coconino	19.6	0.8
926	0.1	Willow Valley	Coconino	46.8	1.6
927	0.1	Unnamed	Coconino	13.7	0.6
928	0.1	Unnamed	Coconino	13.6	0.5
929	0.1	Howard Pond	Coconino	27.6	0.9
930	0.1	Unnamed	Coconino	23.2	0.8
931	0.1	Unnamed	Coconino	17.4	0.8
932	0.1	Unnamed	Coconino	16.3	0.7
933	0.1	Unnamed	Coconino	18.8	0.7
934	0.1	Unnamed	Coconino	17.3	0.7
935	0.1	McClure Lake	Coconino	25.2	0.7
936	0.1	Unnamed	Coconino	21.4	0.7
937	0.1	Baker Lake	Coconino	29.2	0.8
938	0.1	Myrtle	Coconino	22.9	0.7
939	0.1	Lost Lake	Coconino	21.5	0.9
940	0.1	Lake No. 4	Coconino	15.7	0.6
965	0.1	Unnamed	Coconino	473.4	5.8
967	0.1	Blue Ridge Reservoir	Coconino	182.0	3.4
1085	0.1	Indian Lake	Coconino	36.5	1.0
1086	0.1	Ashurst Lake	Coconino	189.9	2.6
1087	0.1	Upper Lake Mary	Coconino	842.3	11.5
1088	0.1	Vail Lake	Coconino	54.3	1.2
1089	0.1	Prime Lake	Coconino	15.0	0.6
1090	0.1	Little Dry lake	Coconino	20.4	0.8
1091	0.1	Marshall Lake	Coconino	132.8	2.3
1092	0.1	Lower Lake Mary	Coconino	525.6	7.0
1093	0.1	Youngs Canyon	Coconino	17.8	0.8
1094	0.1	Unnamed	Coconino	38.8	1.3
1095	0.1	Big Till Lake	Coconino	58.7	1.7
1096	0.1	Walker Lake	Coconino	16.6	0.6
1097	0.1	Slate Lake	Coconino	14.6	0.6
1098	0.1	Youngs Lake	Coconino	43.8	1.0
1099	0.1	Horse Lake	Coconino	61.1	1.2
1100	0.1	Deers Lake	Coconino	177.6	2.1
1101	0.1	Potatoe Lake	Coconino	147.0	1.9
1102	0.1	Als Lake	Coconino	65.5	1.4
1103	0.1	Picket Lake	Coconino	26.1	0.8
1104	0.1	Babbitt Lake	Coconino	21.6	0.8
1105	0.1	Post Lake	Coconino	31.2	1.0
1106	0.1	Rogers Lake	Coconino	1262.1	5.8
1107	0.1	Stehr Lake	Coconino	33.0	0.9
977	0.1	Pena blanca	Coronado	70.0	1.9
978	0.1	Parker Canyon Lake	Coronado	137.6	2.6
1118	0.1	Arivaca Lake	Coronado	71.5	2.1
1133	0.1	Fyre Mesa Reservoir	Coronado	42.4	1.0
1136	0.1	Rucker	Coronado	29.8	0.9

Map Unit No.	Comp	Name of Water Body	Forest	Extent Areal (ac)	Extent Lineal (mi)
998	0.1	Gallo Lake	Gila	60.6	1.3
999	0.1	Quemodo Lake	Gila	187.0	2.8
1007	0.1	Unnamed	Gila	36.9	0.6
1008	0.1	Wall Lake	Gila	73.3	1.6
1009	0.1	Lake Roberts	Gila	118.3	1.8
1034	0.1	Snow Lake	Gila	53.6	1.2
1035	0.1	Adam Hoague	Gila	38.1	1.0
1134	0.1	No Name	Gila	12.2	1.2
1135	0.1	Tadpole	Gila	12.2	0.5
876	0.1	Kaibab Lake	Kaibab	127.5	2.2
877	0.1	Unnamed	Kaibab	71.9	1.4
878	0.1	Cataract Lake	Kaibab	26.5	0.9
879	0.1	Dog Town Reservoir	Kaibab	46.4	1.2
880	0.1	White Horse Lake	Kaibab	37.5	1.0
881	0.1	J D Dam Lake	Kaibab	35.4	1.0
1108	0.1	Warm Spring Lake	Kaibab	21.3	0.7
1109	0.1	Lambs Lake	Kaibab	21.5	0.7
1110	0.1	West Lake	Kaibab	32.2	0.9
1111	0.1	Crane Lake	Kaibab	30.6	0.9
1112	0.1	Unnamed	Kaibab	31.4	0.9
1113	0.1	Franks Lake	Kaibab	20.7	0.7
1114	0.1	Oquer Lake	Kaibab	26.5	0.8
1117	0.1	Locket Lake	Kaibab	20.9	0.7
1132	0.1	Unnamed	Kaibab	30.9	0.9
1083	0.1	Nogal Lake	Lincoln	41.2	1.1
1084	0.1	Bonito Lake	Lincoln	25.8	1.3
1146	0.1	Blue Lake	Lincoln	15.6	0.7
1147	0.1	No Name	Lincoln	18.1	0.6
1148	0.1	Pot Hole Lake	Lincoln	20.1	0.8
1149	0.1	Hale Lake	Lincoln	22.1	0.7
1150	0.1	Hog Lake	Lincoln	14.9	0.6
1151	0.1	North Lake	Lincoln	16.2	0.6
1152	0.1	Lighting Lake	Lincoln	19.8	0.7
1153	0.1	McEwan Lake	Lincoln	16.2	0.6
1115	0.1	Lynx Lake	Prescott	45.2	1.2
1116	0.1	Goldwater Lake	Prescott	24.0	0.9
1131	0.1	Unnamed	Prescott	44.5	1.1
1028	0.1	San Gregorio Reservoir	Santa Fe	36.4	0.9
1029	0.1	Laguna Madrid	Santa Fe	28.2	0.8
1030	0.1	Unnamed	Santa Fe	20.0	0.7
1031	0.1	Fenton Lake	Santa Fe	49.0	1.1
1032	0.1	Guaje Reservoir	Santa Fe	35.2	0.9
1058	0.1	Unnamed	Santa Fe	8.5	0.4
1059	0.1	Unnamed	Santa Fe	8.8	0.4
1060	0.1	Unnamed	Santa Fe	9.4	0.5
1061	0.1	Truches Lake	Santa Fe	12.1	0.6
1062	0.1	Joe Vigil Lake	Santa Fe	13.3	0.6
1063	0.1	Lost Bear Lake	Santa Fe	15.8	0.6
1064	0.1	Pecos Baldy Lake	Santa Fe	31.6	0.8
1065	0.1	Lost Lake	Santa Fe	21.4	0.7
1066	0.1	Lake Johnson	Santa Fe	15.6	0.6

Map Unit No.	Comp	Name of Water Body	Forest	Extent Areal (ac)	Extent Lineal (mi)
1067	0.1	Stewart Lake	Santa Fe	19.1	0.7
1068	0.1	Unnamed	Santa Fe	16.5	0.6
1069	0.1	Lake Katherine	Santa Fe	11.3	0.6
1070	0.1	Nambe Lake	Santa Fe	11.5	0.5
1071	0.1	Santa Fe Lake	Santa Fe	24.8	0.7
1072	0.1	McClure Reservoir	Santa Fe	68.9	1.3
1073	0.1	Nichols Reservoir	Santa Fe	47.3	1.0
1074	0.1	Two Mile Reservoir	Santa Fe	35.3	1.0
1079	0.1	Pacheco Lake	Santa Fe	17.2	0.6
1080	0.1	Santiago Lake	Santa Fe	15.2	0.6
1081	0.1	Enchanted Lake	Santa Fe	20.6	0.8
1082	0.1	Unnamed	Santa Fe	63.5	1.2
1137	0.1	Laguna Seca	Santa Fe	41.7	0.9
1138	0.1	Salazar Lake	Santa Fe	15.0	0.6
1145	0.1	No Name	Santa Fe	21.8	0.8
966	0.1	Horseshoe Reservoir	Tonto	1478.5	17.6
972	0.1	Bartlett Reservoir	Tonto	1089.2	17.6
973	0.1	Saguaro Lake	Tonto	1104.7	14.6
974	0.1	Apache Lake	Tonto	2592.0	30.3
975	0.1	Canyon Lake	Tonto	796.7	15.2
976	0.1	Theodore Roosevelt Lake	Tonto	15678.4	66.8
Totals				44148.1	508.3

Appendix C

Table 3. Map Unit Properties For General Ecosystem Survey. USDA-FS, R-3 Date Page 1

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
101	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	900-1000 m	---	---	Beha	3.0	ERIOG	1.0	Anba	1.0
		Slope:		---	---	Cegr	1.0	---	---	Bocu	10.0
		Gradient:	4 % Length: 15 m	---	---	Dawh2	2.0	---	---	Boer4	20.0
		Aspect:	Noninfl. Class: Simple	---	---	Open2	1.0	---	---	Hibe	5.0
		Shape, Plan:	Linear	---	---	Prve	5.0	---	---	Mupo2	4.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	24-36 cm Bedrock: ---	---	---	Beha	3.0	Erwr	1.0	Anba	1.0
		Parent Material:	Alluvium, ss, sts	---	---	Cegr	1.0	---	---	Bocu	5.0
		Condit-	«= Canopy =» «= Surface Components =»	---	---	Dawh2	2.0	---	---	Boer4	5.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	Open2	1.0	---	---	Hibe	4.0
		Tolerance:	0.5m 15% 25% 5% ---% ---%	---	---	Prve	15.0	---	---	Mupo2	1.0
		Natural:	0.5m 15% 25% 5% 40% 30%	Fluvial: ---							
		Current:	0.5m 20% 25% 5% 10% 60%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
103	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	900-1000 m	---	---	Prve	10.0	Hean3	1.0	Bocu	10.0
		Slope:		---	---	---	---	---	---	Boer4	15.0
		Gradient:	4 % Length: 15 m	---	---	---	---	---	---	Himu2	25.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Hibe	5.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	36-46 cm Bedrock: Basalt	---	---	Prve	10.0	Hean3	25.0	Bocu	1.0
		Parent Material:	Residuum, ci	---	---	---	---	---	---	Boer4	1.0
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	Himu2	10.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Hibe	5.0
		Tolerance:	0.5m 15% 10% 5% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 15% 10% 5% 45% 40%	Fluvial: ---							
		Current:	0.5m 15% 10% 5% 5% 70%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
103	0.2	Landform:	Hills	Edaphic							
		Elevation:	900-1000 m	---	---	Beha	3.0	ERIOG	1.0	Anba	1.0
		Slope:		---	---	Cegr	1.0	---	---	Bocu	10.0
		Gradient:	25 % Length: 10 m	---	---	Dawh2	2.0	---	---	Boer4	10.0
		Aspect:	All Class: Simple	---	---	Open2	1.0	---	---	Himu2	5.0
		Shape, Plan:	Linear	---	---	Prve	5.0	---	---	Mupo2	4.0
		Shape, Section:	Convex	---							
		Precipitation:	24-36 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ci	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 15% 40% 5% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 15% 40% 5% 35% 20%	Fluvial: ---							
		Current:	0.5m 15% 40% 5% 5% 55%	Lacustrine: ---							

Map Unit No. Comp «═══ Landscape Features ═══»

110 0.1

Landform: Elevated plains
Elevation: 900-1000 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 24-36 cm Bedrock: ---
Parent Material: Alluvium, ss, sts

Condition	«═ Canopy ═» Height	OvStr	«═ Surface Components ═» RkFrg	Littr	VegBA	BSoil
Tolerance:	0.5m	15%	25%	5%	---%	---%
Natural:	0.5m	15%	25%	5%	40%	30%
Current:	0.5m	25%	25%	5%	10%	60%

«═ Climax Plant Community (canopy cover) ═»

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
---	---	Beha	3.0	ERIOG	1.0	Anba	1.0
---	---	Cegr	1.0	Erci6	0.1	Bocu	10.0
---	---	Dawh2	2.0	---	---	Boer4	20.0
---	---	Open2	1.0	---	---	Mupo2	4.0
---	---	Prve	5.0	---	---	---	---
Edaphic/zootic							
---	---	Beha	3.0	Erwr	1.0	Anba	1.0
---	---	Cegr	1.0	Erci6	0.1	Bocu	5.0
---	---	Dawh2	4.0	---	---	Boer4	5.0
---	---	Open2	1.0	---	---	Mupo2	2.0
---	---	Prve	15.0	---	---	---	---

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp «═══ Landscape Features ═══»

110 0.2

Landform: Hills
Elevation: 900-1000 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 46-56 cm Bedrock: ---
Parent Material: Alluvium, ss, sts

Condition	«═ Canopy ═» Height	OvStr	«═ Surface Components ═» RkFrg	Littr	VegBA	BSoil
Tolerance:	0.5m	40%	25%	35%	---%	---%
Natural:	0.5m	40%	25%	35%	20%	25%
Current:	0.5m	40%	25%	35%	5%	40%

«═ Climax Plant Community (canopy cover) ═»

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	0.0	Arpu5	10.0	ERIOG	1.0	Ansa	0.1
Juos	0.0	Gawr3	1.0	Erci6	0.1	Bocu	1.0
Pimo	0.0	Nomi	2.0	---	---	Boer4	0.5
Quar	0.5	Qutu2	30.0	---	---	Bogr2	5.0
Quem	0.5	Rhov	0.5	---	---	Bohi2	1.0

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp «═══ Landscape Features ═══»

110 0.3

Landform: Hills
Elevation: 900-1000 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 24-36 cm Bedrock: ---
Parent Material: Alluvium, ss, sts

Condition	«═ Canopy ═» Height	OvStr	«═ Surface Components ═» RkFrg	Littr	VegBA	BSoil
Tolerance:	0.5m	15%	25%	5%	---%	---%
Natural:	0.5m	15%	25%	5%	35%	20%
Current:	0.5m	15%	25%	5%	10%	60%

«═ Climax Plant Community (canopy cover) ═»

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
---	---	Beha	3.0	ERIOG	1.0	Anba	1.0
---	---	Cegr	1.0	Erci6	0.1	Bocu	10.0
---	---	Dawh2	2.0	---	---	Boer4	10.0
---	---	Open2	1.0	---	---	Himu2	5.0
---	---	Prve	5.0	---	---	Mupo2	4.0

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Fluvial: ---
Lacustrine: ---

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
120	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1700-1900 m	---	---	Oppo	0.5	Caoc4	0.1	Bocu	3.0
		Slope:		---	---	Yuel	0.1	Erfl	0.1	Boer4	15.0
		Gradient:	4 % Length: 15 m	---	---	---	---	Erme2	0.2	Bogr2	20.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Bohi2	2.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Hija	5.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	24-36 cm Bedrock: ---	---	---	Gusa2	25.0	Caoc4	0.1	Bocu	1.0
		Parent Material:	Alluvium, ss, sts	---	---	Oppo	5.0	Erfl	0.1	Boer4	5.0
		Condit-	«= Canopy =» «= Surface Components =»	---	---	Yuel	5.0	Erme2	0.2	Bogr2	5.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Bohi2	1.0
		Tolerance:	0.m 0% 10% 10% ---% ---%	---	---	---	---	---	---	Hija	5.0
		Natural:	0.m 0% 10% 10% 40% 40%	Fluvial: ---							
		Current:	0.m 0% 10% 0% 20% 60%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
120	0.2	Landform:	Hills	Edaphic							
		Elevation:	1700-1900 m	---	---	Atca2	2.0	Erfl	0.1	Bocu	5.0
		Slope:		---	---	Eula5	3.0	---	---	Boer4	5.0
		Gradient:	25 % Length: 10 m	---	---	---	---	---	---	Bogr2	5.0
		Aspect:	All Class: Simple	---	---	---	---	---	---	Bohi2	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Stne2	15.0
		Shape, Section:	Convex	---							
		Precipitation:	24-36 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ls, ss	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.m 0% 20% 10% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.m 0% 20% 10% 40% 30%	Fluvial: ---							
		Current:	0.m 0% 20% 0% 20% 50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
121	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1900-2200 m	Jude2	10.0	Arpu5	1.0	ERIO6	1.0	Bocu	3.0
		Slope:		Juos	5.0	Gawr3	0.2	Hean3	0.1	Bogr2	10.0
		Gradient:	4 % Length: 15 m	Pimo	0.0	Nomi	2.0	Pste3	5.0	Bohi2	3.0
		Aspect:	Noninfl. Class: Simple	Quar	0.0	Qutu2	0.1	---	---	Paob	10.0
		Shape, Plan:	Linear	---	---	Rhov	0.1	---	---	Sihy	0.3
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	46-56 cm Bedrock: Basalt	Jude2	10.0	Arpu5	1.0	ERIO6	1.0	Bocu	0.5
		Parent Material:	Residuum, ci	Juos	5.0	Gawr3	0.2	Hean3	5.0	Bogr2	5.0
		Condit-	«= Canopy =» «= Surface Components =»	Pimo	0.0	Nomi	5.0	Pste3	5.0	Bohi2	1.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	Quar	0.0	Qutu2	0.1	---	---	Paob	5.0
		Tolerance:	1.m 25% 40% 20% ---% ---%	---	---	Rhov	0.1	---	---	Sihy	0.3
		Natural:	1.m 25% 40% 20% 25% 15%	Fluvial: ---							
		Current:	1.m 25% 40% 20% 5% 35%	Lacustrine: ---							

Map Unit No. Comp — Landscape Features

121 0.2

Landform: Hills
Elevation: 1000-1700 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 46-56 cm Bedrock: Basalt
Parent Material: Residuum, ci

Condition	Canopy Height	OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	45%	35%	---%	---%
Natural:	1.m	40%	45%	35%	10%	15%
Current:	1.m	40%	45%	35%	5%	20%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	10.0	Arpu5	5.0	ERIO6	1.0	Anba	0.1
Juos	5.0	Gawr3	1.0	Erci6	0.1	Bocu	3.0
Pimo	5.0	Nomi	2.0	---	---	Bohi2	1.0
Quar	0.5	Qutu2	10.0	---	---	Sihy	0.5
Quem	0.5	Rhov	0.1	---	---	Trmu	0.1

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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp — Landscape Features

122 0.1

Landform: Elevated plains
Elevation: 1900-2200 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 36-46 cm Bedrock: ---
Parent Material: Alluvium, ss, sh

Condition	Canopy Height	OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	10%	35%	---%	---%
Natural:	1.m	40%	10%	35%	20%	30%
Current:	1.m	40%	10%	35%	10%	40%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	5.0	Artr2	10.0	Caoc4	1.0	Bocu	4.0
Juos	10.0	Putr2	2.0	Erfl	0.1	Bogr2	20.0
Pied	20.0	---	---	Erme2	1.0	Kopy	0.5
---	---	---	---	---	---	Pofe	0.1
---	---	---	---	---	---	Spcr	0.1
Edaphic/zootic							
Jumo	5.0	Artr2	10.0	Caoc4	1.0	Bocu	2.0
Juos	10.0	Gusa2	15.0	Erfl	0.1	Bogr2	5.0
Pied	20.0	Putr2	2.0	Erme2	1.0	Kopy	0.5
---	---	---	---	---	---	Pofe	0.1
---	---	---	---	---	---	Spcr	0.1
Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp — Landscape Features

122 0.2

Landform: Valley plains
Elevation: 1900-2200 m
Slope:
Gradient: 3 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Concave
Precipitation: 36-46 cm Bedrock: ---
Parent Material: Alluvium, ss, sh

Condition	Canopy Height	OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	50%	0%	45%	---%	---%
Natural:	1.m	50%	0%	45%	20%	30%
Current:	1.m	10%	0%	45%	5%	45%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Jumo	10.0	Artr2	10.0	Caoc4	1.0	Bocu	4.0
Juos	15.0	Chna2	0.5	Erfl	0.1	Bogr2	20.0
Pied	20.0	Putr2	2.0	Erme2	1.0	Kopy	0.5
---	---	---	---	---	---	Pofe	0.1
---	---	---	---	---	---	Spcr	0.5
Topo/edaphic/zootic							
Jumo	10.0	Artr2	10.0	Caoc4	1.0	Bocu	2.0
Juos	15.0	Chna2	10.0	Erfl	0.1	Bogr2	10.0
Pied	20.0	Putr2	1.0	Erme2	1.0	Kopy	0.1
---	---	---	---	---	---	Pofe	0.1
---	---	---	---	---	---	Spcr	0.5
Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
124 0.1	Landform: Escarpments	Edaphic							
	Elevation: 1900-2600 m	Jumo	15.0	Artr2	5.0	Caoc4	1.0	Bocu	2.0
	Slope:	Juos	10.0	Putr2	2.0	Erfl	0.1	Bogr2	10.0
	Gradient: 60 % Length: 5 m	Pied	10.0	---	---	Erme2	1.0	Kopy	0.1
	Aspect: All Class: Simple	---	---	---	---	---	---	Pofe	0.1
	Shape, Plan: Linear	---	---	---	---	---	---	Spcr	0.1
	Shape, Section: Linear	---							
	Precipitation: 36-46 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
	Parent Material: Residuum, ci	---	---	---	---	---	---	---	---
	Condition: Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance: 1.m 35% 65% 30% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 1.m 35% 65% 30% 10% 10%	Fluvial: ---							
	Current: 1.m 35% 65% 30% 10% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
124 0.2	Landform: Escarpments	Edaphic							
	Elevation: 1900-2600 m	Jumo	15.0	Artr2	5.0	Caoc4	1.0	Bocu	2.0
	Slope:	Juos	10.0	Putr2	2.0	Erfl	0.1	Bogr2	10.0
	Gradient: 60 % Length: 5 m	Pied	10.0	---	---	Erme2	1.0	Kopy	0.1
	Aspect: All Class: Simple	---	---	---	---	---	---	Pofe	0.2
	Shape, Plan: Linear	---	---	---	---	---	---	Spcr	0.1
	Shape, Section: Linear	---							
	Precipitation: 36-46 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
	Parent Material: Colluvium, ci, ba	---	---	---	---	---	---	---	---
	Condition: Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance: 1.m 35% 65% 30% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 1.m 35% 65% 30% 10% 10%	Fluvial: ---							
	Current: 1.m 35% 65% 30% 10% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
124 0.3	Landform: Escarpments	---							
	Elevation: 1900-2600 m	---	---	---	---	---	---	---	---
	Slope:	---	---	---	---	---	---	---	---
	Gradient: 100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect: All Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Linear	---							
	Precipitation: 36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material: ,	---	---	---	---	---	---	---	---
	Condition: Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance: --- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
126 0.1	Landform:	Hills, mountains					Edaphic							
	Elevation:	900-1200 m					---	---	Beha	1.0	ERIOG	1.0	Anba	0.1
	Slope:						---	---	Cegr	1.0	Erci6	0.1	Bocu	1.0
	Gradient:	60 %	Length:	5 m			---	---	Dawh2	1.0	---	---	Boer4	10.0
	Aspect:	South	Class:	Simple			---	---	Open2	2.0	---	---	Himu2	0.1
	Shape, Plan:	Linear					---	---	Prve	2.0	---	---	Mupo2	1.0
	Shape, Section:	Convex					---							
	Precipitation:	24-36 cm	Bedrock:	Basalt			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	10%	75%	5%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	10%	75%	5%	10%	10%	Fluvial: ---							
	Current:	0.5m	10%	75%	5%	10%	10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
126 0.2	Landform:	Hills, mountains					Edaphic/fire							
	Elevation:	1000-1700 m					Jude2	0.0	Arpu5	10.0	ERIOG	1.0	Ansa	0.1
	Slope:						Juos	0.0	Cemo2	5.0	Erci6	0.1	Bocu	1.0
	Gradient:	60 %	Length:	5 m			Pimo	0.0	Gawr3	1.0	---	---	Boer4	0.1
	Aspect:	North	Class:	Simple			Quar	0.1	Nomi	2.0	---	---	Bogr2	5.0
	Shape, Plan:	Linear					Quem	0.1	Qutu2	20.0	---	---	Bohi2	1.0
	Shape, Section:	Convex					---							
	Precipitation:	46-56 cm	Bedrock:	Basalt			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	35%	65%	30%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	35%	65%	30%	10%	5%	Fluvial: ---							
	Current:	1.m	35%	65%	30%	5%	5%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
126 0.3	Landform:	Escarpments					---							
	Elevation:	900-1200 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	24-36 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
126	0.4	Landform:	Escarpments					---							
		Elevation:	1000-1700 m					---	---	---	---	---	---	---	---
		Slope:						---	---	---	---	---	---	---	---
		Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
		Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
		Shape, Plan:	Linear					---	---	---	---	---	---	---	---
		Shape, Section:	Linear					---							
		Precipitation:	46-56 cm	Bedrock: ---				---	---	---	---	---	---	---	---
		Parent Material:	,					---	---	---	---	---	---	---	---
		Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---
		Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---
		Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---						
		Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---						

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
127	0.1	Landform:	Hills					Edaphic/fire/zootic							
		Elevation:	1700-2100 m					Jude2	0.0	Arpu5	10.0	ERIOG	1.0	Ansa	0.1
		Slope:						Jumo	0.0	Gawr3	1.0	Erci6	0.1	Bocu	1.0
		Gradient:	25 %	Length:	10 m			Pidi	0.0	Nomi	5.0	---	---	Boer4	0.5
		Aspect:	All	Class:	Simple			Qugr3	0.1	Qutu2	30.0	---	---	Bogr2	5.0
		Shape, Plan:	Linear					---	---	Rhtr	1.0	---	---	Bohi2	1.0
		Shape, Section:	Convex					---							
		Precipitation:	46-56 cm	Bedrock: ---				---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sts, di, gr					---	---	---	---	---	---	---	---
		Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---
		Tolerance:	1.m	40%	45%	30%	---%	---%	---	---	---	---	---	---	---
		Natural:	1.m	40%	45%	30%	20%	10%	Fluvial: ---						
		Current:	1.m	40%	45%	30%	5%	25%	Lacustrine: ---						

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
127	0.2	Landform:	Elevated plains					Edaphic/fire							
		Elevation:	1700-2300 m					Jude2	0.0	Arpu5	10.0	ERIOG	1.0	Ansa	0.1
		Slope:						Jumo	0.0	Gawr3	1.0	Erci6	0.1	Bocu	1.0
		Gradient:	4 %	Length:	15 m			Pidi	0.0	Nomi	2.0	---	---	Boer4	5.0
		Aspect:	Noninfl.	Class:	Simple			Qugr3	0.1	Qutu2	40.0	---	---	Bogr2	15.0
		Shape, Plan:	Linear					---	---	Rhtr	0.1	---	---	Bohi2	1.0
		Shape, Section:	Linear					Edaphic/fire/zootic							
		Precipitation:	46-56 cm	Bedrock: ---				Jude2	0.0	Arpu5	10.0	ERIOG	1.0	Ansa	0.1
		Parent Material:	Alluvium, ss, sts					Jumo	0.0	Gawr3	1.0	Erci6	0.1	Bocu	1.0
		Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil	Pidi	0.0	Nomi	2.0	---	---	Boer4	0.1
		Tolerance:	1.m	40%	25%	30%	---%	---%	Qugr3	0.1	Qutu2	40.0	---	---	Bogr2	5.0
		Natural:	1.m	40%	25%	30%	20%	5%	---	---	Rhtr	0.1	---	---	Bohi2	1.0
		Current:	1.m	40%	25%	30%	5%	30%	Fluvial: ---							
								Lacustrine: ---							

Table 3. Map Unit Properties For General Ecosystem Survey.

Map Unit No. Comp

128 0.1

Landscape Features

Landform: Elevated plains
Elevation: 1000-1600 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 46-56 cm Bedrock: ---
Parent Material: Alluvium, ss, sts

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	25%	35%	---%	---%
Natural:	1.m	40%	25%	35%	25%	15%
Current:	1.m	40%	25%	35%	5%	35%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic/fire							
Jude2	0.0	Arpu5	10.0	ERIOG	1.0	Ansa	0.1
Juos	0.0	Gawr3	1.0	Erci6	0.1	Bocu	5.0
Pimo	0.0	Nomi	2.0	---	---	Boer4	5.0
Quar	0.1	Qutu2	40.0	---	---	Bogr2	20.0
Quem	0.1	Rhtr	0.1	---	---	Bohi2	5.0
Edaphic/fire/zootic							
Jude2	0.0	Arpu5	10.0	ERIOG	1.0	Ansa	0.1
Juos	0.0	Gawr2	1.0	Erci6	0.1	Bocu	5.0
Pimo	0.0	Nomi	2.0	---	---	Boer4	0.1
Quar	0.1	Qutu2	40.0	---	---	Bogr2	10.0
Quem	0.1	Rhtr	0.1	---	---	Bohi2	1.0

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

128 0.2

Landscape Features

Landform: Hills
Elevation: 1000-1600 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 46-56 cm Bedrock: ---
Parent Material: Alluvium, ss, sts, di, gr

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	50%	45%	30%	---%	---%
Natural:	1.m	50%	45%	30%	15%	5%
Current:	1.m	50%	45%	30%	5%	25%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic/fire							
Jude2	0.0	Arpu5	10.0	ERIOG	1.0	Ansa	0.1
Juos	0.0	Gawr3	1.0	Erci6	0.1	Bocu	1.0
Pimo	0.0	Nomi	2.0	---	---	Boer4	0.5
Quar	0.1	Qutu2	40.0	---	---	Bogr2	5.0
Quem	0.1	Rhtr	0.1	---	---	Bohi2	1.0

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---	---	---	---	---	---	---	---

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

129 0.1

Landscape Features

Landform: Elevated plains
Elevation: 1900-2200 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 36-46 cm Bedrock: ---
Parent Material: Alluvium, ss, sh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	10%	35%	---%	---%
Natural:	1.m	40%	10%	35%	30%	25%
Current:	1.m	40%	10%	35%	15%	40%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	15.0	---	---	Caoc4	1.0	Agsm	10.0
Pied	20.0	---	---	Erfl	0.0	Bocu	5.0
---	---	---	---	Erme2	0.1	Bogr2	20.0
---	---	---	---	---	---	Hija	0.1
---	---	---	---	---	---	Pofe	0.1
Edaphic/zootic							
Jumo	15.0	Gusa2	15.0	Caoc4	1.0	Agsm	10.0
Pied	20.0	Hyri	5.0	Erfl	0.1	Bocu	1.0
---	---	---	---	Erme2	0.1	Bogr2	10.0
---	---	---	---	---	---	Hija	0.1
---	---	---	---	---	---	Pofe	0.1

Fluvial: ---
Lacustrine: ---

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
129	0.2	Landform:	Hills					Edaphic							
		Elevation:	1900-2200 m					Jumo	10.0	Atca2	1.0	Erfl	0.1	Agsc	0.1
		Slope:						Pied	15.0	Cemo2	0.0	---	---	Bocu	4.0
		Gradient:	25 %	Length:	10 m			---	---	Eula5	1.0	---	---	Bogr2	5.0
		Aspect:	All	Class:	Simple			---	---	Putr2	1.0	---	---	Pofe	1.0
		Shape, Plan:	Linear					---	---	---	---	---	---	Stne2	10.0
		Shape, Section:	Convex					---							
		Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, ls					---	---	---	---	---	---	---	---
		Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m	30%	40%	20%	---%	---%	---	---	---	---	---	---	---	---
		Natural:	1.m	30%	40%	20%	20%	20%	Fluvial: ---							
		Current:	1.m	30%	40%	20%	10%	30%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
130	0.1	Landform:	Elevated plains					Edaphic							
		Elevation:	1900-2200 m					Jumo	15.0	---	---	Caoc4	1.0	Agsm	0.1
		Slope:						Pied	20.0	---	---	Erfl	0.1	Bocu	5.0
		Gradient:	4 %	Length:	15 m			---	---	---	---	Erme2	0.1	Bogr2	20.0
		Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Hija	0.1
		Shape, Plan:	Linear					---	---	---	---	---	---	Pofe	0.1
		Shape, Section:	Linear					Edaphic/zootic							
		Precipitation:	36-46 cm	Bedrock:	Sandstone			Jumo	15.0	Guas2	15.0	Caoc4	1.0	Agsm	0.1
		Parent Material:	Residuum, ss, sh					Pied	20.0	Hyri	5.0	Erfl	0.1	Bocu	1.0
		Condit-	Canopy	Surface Components				---	---	---	---	Erme2	0.1	Bogr2	5.0
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	Hija	0.1
		Tolerance:	1.m	35%	10%	30%	---%	---%	---	---	---	---	---	Pofe	0.1
		Natural:	1.m	35%	10%	30%	30%	30%	Fluvial: ---							
		Current:	1.m	35%	10%	30%	15%	45%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
131	0.1	Landform:	Hills, mountains					Edaphic							
		Elevation:	1900-2200 m					Jumo	15.0	---	---	Caoc4	1.0	Agsm	0.1
		Slope:						Pied	20.0	---	---	Erfl	0.1	Bocu	5.0
		Gradient:	25 %	Length:	10 m			---	---	---	---	Erme2	0.1	Bogr2	20.0
		Aspect:	All	Class:	Simple			---	---	---	---	---	---	Hija	0.1
		Shape, Plan:	Linear					---	---	---	---	---	---	Pofe	0.1
		Shape, Section:	Convex					---							
		Precipitation:	36-46 cm	Bedrock:	Sandstone			---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
		Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m	35%	50%	30%	---%	---%	---	---	---	---	---	---	---	---
		Natural:	1.m	35%	50%	30%	25%	10%	Fluvial: ---							
		Current:	1.m	35%	50%	30%	10%	25%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
132 0.1	Landform:	Hills, mountains					Edaphic							
	Elevation:	1900-2200 m					Jumo	15.0	---	---	Caoc4	1.0	Agsm	0.1
	Slope:						Pied	15.0	---	---	Erfi	0.1	Bocu	5.0
	Gradient:	60 %	Length:	5 m			---	---	---	---	Erme2	0.1	Bogr2	20.0
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	Hija	0.1
	Shape, Plan:	Linear					---	---	---	---	---	---	Pofe	0.1
	Shape, Section:	Convex					---							
	Precipitation:	36-46 cm	Bedrock:	Sandstone			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	30%	65%	25%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	30%	65%	25%	10%	15%	Fluvial: ---							
	Current:	1.m	30%	65%	25%	10%	15%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
132 0.2	Landform:	Mountains					Edaphic							
	Elevation:	2500-2900 m					Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
	Slope:						Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient:	60 %	Length:	5 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	North	Class:	Simple			Potr5	10.0	Quga	5.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Syor2	-0.1	Laar	0.1	---	---
	Shape, Section:	Convex					---							
	Precipitation:	60-70 cm	Bedrock:	Sandstone			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	65%	90%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	80%	65%	90%	10%	0%	Fluvial: ---							
	Current:	1.m	80%	65%	90%	10%	0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
132 0.3	Landform:	Escarpments					---							
	Elevation:	1900-2200 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
132 0.4	Landform:	Escarpments					---							
	Elevation:	2500-2900 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	60-70 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
134 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	1900-2200 m					Jumo	15.0	Gusa2	5.0	Caoc4	1.0	Agsm	5.0
	Slope:						Pied	5.0	Hyri	1.0	Erfl	0.1	Bocu	5.0
	Gradient:	4 %	Length:	15 m			---	---	---	---	Erme2	0.1	Bogr2	15.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Hija	1.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Sihy	0.1
	Shape, Section:	Linear					Edaphic/zootic							
	Precipitation:	36-46 cm	Bedrock:	Basalt			Jumo	15.0	Guas2	15.0	Caoc4	1.0	Agsm	5.0
	Parent Material:	Residuum, ci					Pied	5.0	Hyri	5.0	Erfl	0.1	Bocu	5.0
	Condit-	Canopy	Surface Components				---	---	---	---	Erme2	0.1	Bogr2	10.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	Hija	1.0
	Tolerance:	1.m	25%	30%	20%	---%	---%	---	---	---	---	---	Sihy	0.1
	Natural:	1.m	25%	30%	20%	30%	15%	Fluvial: ---						
	Current:	1.m	25%	30%	20%	5%	50%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
134 0.2	Landform:	Elevated plains					Edaphic							
	Elevation:	1900-2200 m					Jumo	0.0	Gusa2	5.0	---	---	Agsm	15.0
	Slope:						Pied	0.0	Hyri	1.0	---	---	Bocu	5.0
	Gradient:	4 %	Length:	15 m			---	---	---	---	---	---	Bogr2	30.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Hija	5.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Sihy	1.0
	Shape, Section:	Linear					Edaphic/zootic							
	Precipitation:	36-46 cm	Bedrock:	Basalt			Jumo	0.0	Guas2	15.0	---	---	Agsm	15.0
	Parent Material:	Residuum, ci					Pied	0.0	Hyri	5.0	---	---	Bocu	1.0
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	Bogr2	10.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	Hija	5.0
	Tolerance:	1.m	5%	30%	5%	---%	---%	---	---	---	---	---	Sihy	0.1
	Natural:	1.m	5%	30%	5%	40%	25%	Fluvial: ---						
	Current:	1.m	5%	30%	0%	15%	50%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
134 0.3	Landform:	Hills	Edaphic							
	Elevation:	1900-2200 m	Jumo	15.0	---	---	Caoc4	1.0	Agsm	0.1
	Slope:		Pied	20.0	---	---	Erfl	0.0	Bocu	5.0
	Gradient:	25 % Length: 10 m	---	---	---	---	Erme2	0.1	Bogr2	20.0
	Aspect:	All Class: Simple	---	---	---	---	---	---	Hija	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	0.1
	Shape, Section:	Convex	---							
	Precipitation:	36-46 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m 35% 50% 30% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	1.m 35% 50% 30% 25% 10%	Fluvial: ---							
	Current:	1.m 35% 50% 30% 10% 25%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
135 0.1	Landform:	Elevated plains	Edaphic							
	Elevation:	1900-2200 m	Jumo	5.0	Artr2	10.0	Caoc4	1.0	Bocu	4.0
	Slope:		Juos	10.0	Putr2	2.0	Erfl	0.1	Bogr2	20.0
	Gradient:	4 % Length: 15 m	Pied	20.0	---	---	Erme2	1.0	Kopy	0.1
	Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Pofe	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	Spcr	0.1
	Shape, Section:	Linear	Edaphic/zootic							
	Precipitation:	36-46 cm Bedrock: Sandstone	Jumo	5.0	Artr2	10.0	Caoc4	1.0	Bocu	2.0
	Parent Material:	Residuum, ss, sh	Juos	10.0	Guas2	5.0	Erfl	0.1	Bogr2	10.0
	Condit-	«= Canopy =» «= Surface Components =»	Pied	20.0	Hyri	5.0	Erme2	1.0	Kopy	0.1
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	Putr2	1.0	---	---	Pofe	0.1
	Tolerance:	1.m 40% 10% 35% ---% ---%	---	---	---	---	---	---	Spcr	0.1
	Natural:	1.m 40% 10% 35% 25% 25%	Fluvial: ---							
	Current:	1.m 40% 10% 35% 15% 35%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
136 0.1	Landform:	Hills, mountains	Edaphic							
	Elevation:	1900-2200 m	Jumo	5.0	Artr2	10.0	Caoc4	1.0	Bocu	4.0
	Slope:		Juos	10.0	Putr2	2.0	Erfl	0.1	Bogr2	20.0
	Gradient:	25 % Length: 10 m	Pied	20.0	---	---	Erme2	1.0	Kopy	0.1
	Aspect:	All Class: Simple	---	---	---	---	---	---	Pofe	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	Spcr	0.1
	Shape, Section:	Convex	---							
	Precipitation:	36-46 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sh	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m 40% 30% 35% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	1.m 40% 30% 35% 20% 15%	Fluvial: ---							
	Current:	1.m 40% 30% 35% 10% 25%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
137	0.1	Landform:	Mountains					Edaphic							
		Elevation:	1900-2600 m					Jumo	5.0	Artr2	10.0	Caoc4	1.0	Bocu	2.0
		Slope:						Juos	10.0	Putr2	2.0	Erfl	0.1	Bogr2	10.0
		Gradient:	60 %	Length:	5 m			Pied	15.0	---	---	Erme2	1.0	Kopy	0.1
		Aspect:	South	Class:	Simple			---	---	---	---	---	---	Pofe	0.1
		Shape, Plan:	Linear					---	---	---	---	---	---	Spcr	0.1
		Shape, Section:	Convex					---							
		Precipitation:	36-46 cm	Bedrock:	Sandstone			---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
		Condit-	Canopy		Surface Components			---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m	35%	65%	30%	---%	---%	---	---	---	---	---	---	---	---
		Natural:	1.m	35%	65%	30%	10%	10%	Fluvial: ---							
		Current:	1.m	35%	65%	30%	10%	10%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
137	0.2	Landform:	Mountains					Edaphic							
		Elevation:	2500-2900 m					Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
		Slope:						Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
		Gradient:	60 %	Length:	5 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
		Aspect:	North	Class:	Simple			Potr5	10.0	Duga	5.0	Geca3	0.1	---	---
		Shape, Plan:	Linear					Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
		Shape, Section:	Convex					---							
		Precipitation:	60-70 cm	Bedrock:	Sandstone			---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, ls					---	---	---	---	---	---	---	---
		Condit-	Canopy		Surface Components			---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m	80%	65%	90%	---%	---%	---	---	---	---	---	---	---	---
		Natural:	1.m	80%	65%	90%	10%	0%	Fluvial: ---							
		Current:	1.m	80%	65%	90%	10%	0%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
137	0.3	Landform:	Escarpments					---							
		Elevation:	1900-2600 m					---	---	---	---	---	---	---	---
		Slope:						---	---	---	---	---	---	---	---
		Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
		Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
		Shape, Plan:	Linear					---	---	---	---	---	---	---	---
		Shape, Section:	Linear					---							
		Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
		Parent Material:	,					---	---	---	---	---	---	---	---
		Condit-	Canopy		Surface Components			---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
		Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
		Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
137	0.4	Landform:	Escarpments					---							
		Elevation:	2500-2900 m					---	---	---	---	---	---	---	---
		Slope:						---	---	---	---	---	---	---	---
		Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
		Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
		Shape, Plan:	Linear					---	---	---	---	---	---	---	---
		Shape, Section:	Linear					---							
		Precipitation:	60-70 cm	Bedrock: ---				---	---	---	---	---	---	---	---
		Parent Material:	,					---	---	---	---	---	---	---	---
		Condit-	«= Canopy =»	«= Surface Components =»				---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
		Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
		Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
139	0.1	Landform:	Elevated plains					Edaphic							
		Elevation:	1900-2200 m					Jumo	5.0	Artr2	10.0	Caoc4	1.0	Bocu	5.0
		Slope:						Juos	10.0	Putr2	2.0	Erfl	0.1	Bogr2	20.0
		Gradient:	4 %	Length:	15 m			Pied	20.0	---	---	Erme2	1.0	Kopy	1.0
		Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Pofe	0.1
		Shape, Plan:	Linear					---	---	---	---	---	---	Spcr	0.1
		Shape, Section:	Linear					Edaphic/zootic							
		Precipitation:	36-46 cm	Bedrock: Sandstone				Jumo	5.0	Artr2	10.0	Caoc4	1.0	Bocu	2.0
		Parent Material:	Residuum, ss, sh					Juos	10.0	Guas2	15.0	Erfl	0.1	Bogr2	10.0
		Condit-	«= Canopy =»	«= Surface Components =»				Pied	20.0	Hyri	5.0	Erme2	1.0	Kopy	0.1
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	Putr2	1.0	---	---	Pofe	0.1
		Tolerance:	1.m	40%	10%	35%	---%	---%	---	---	---	---	---	---	Spcr	0.1
		Natural:	1.m	40%	10%	35%	30%	25%	Fluvial: ---							
		Current:	1.m	40%	10%	35%	15%	40%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
139	0.2	Landform:	Hills, mountains					Edaphic							
		Elevation:	2200-2500 m					Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	5.0
		Slope:						Quga	1.0	Cefe	0.1	Luar3	4.0	Bltr	0.1
		Gradient:	25 %	Length:	10 m			---	---	Quga	1.0	Ptan2	0.1	Mumo	1.0
		Aspect:	North	Class:	Simple			---	---	---	---	---	---	Kopy	1.0
		Shape, Plan:	Linear					---	---	---	---	---	---	Pofe	1.0
		Shape, Section:	Convex					---							
		Precipitation:	46-60 cm	Bedrock: Sandstone				---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
		Condit-	«= Canopy =»	«= Surface Components =»				---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m	70%	20%	75%	---%	---%	---	---	---	---	---	---	---	---
		Natural:	3.m	70%	20%	75%	10%	10%	Fluvial: ---							
		Current:	3.m	50%	20%	75%	5%	15%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
139	0.3	Landform:	Hills, mountains	Edaphic							
		Elevation:	1900-2200 m	Jumo	5.0	Artr2	10.0	caoc4	1.0	Bocu	4.0
		Slope:		Juos	10.0	Putr2	2.0	Erfl	0.1	Bogr2	20.0
		Gradient:	25 % Length: 10 m	Pied	20.0	---	---	Erme2	1.0	Kopy	0.1
		Aspect:	South Class: Simple	---	---	---	---	---	---	Pofe	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Spcr	0.1
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 40% 30% 35% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 40% 30% 35% 20% 15%	Fluvial: ---							
		Current:	1.m 40% 30% 35% 10% 25%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
140	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1700-2100 m	Jude2	15.0	Nomi	1.0	---	---	Anci	3.0
		Slope:		Jumo	5.0	Rhch	2.0	---	---	Bocu	10.0
		Gradient:	4 % Length: 15 m	Pied	5.0	---	---	---	---	Bohi2	5.0
		Aspect:	Noninfl. Class: Simple	Qugr3	1.0	---	---	---	---	Bogr2	5.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	46-56 cm Bedrock: ---	Jude2	15.0	Nomi	1.0	---	---	Anci	1.0
		Parent Material:	Alluvium, ss, sh	Jumo	5.0	Rhch	2.0	---	---	Bocu	5.0
		Condit-	«= Canopy =» «= Surface Components =»	Pied	5.0	---	---	---	---	Bohi2	1.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	Qugr3	1.0	---	---	---	---	Bogr2	2.0
		Tolerance:	1.m 40% 20% 35% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 40% 20% 35% 30% 15%	Fluvial: ---							
		Current:	1.m 40% 20% 35% 5% 50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
140	0.2	Landform:	Hills	Edaphic/zootic							
		Elevation:	1700-2100 m	Jude2	15.0	Cemop	0.1	---	---	Anci	3.0
		Slope:		Jumo	5.0	Dawh2	2.0	---	---	Bocu	10.0
		Gradient:	25 % Length: 10 m	Pied	5.0	Open2	1.0	---	---	Bohi	5.0
		Aspect:	North Class: Simple	Qugr3	1.0	Nomi	0.1	---	---	Bogr2	5.0
		Shape, Plan:	Linear	---	---	Rhtr	3.0	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sts	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 40% 40% 35% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 40% 40% 35% 25% 10%	Fluvial: ---							
		Current:	1.m 40% 40% 35% 5% 25%	Lacustrine: ---							

Map Unit No. Comp «═══ Landscape Features ═══» «═══ Climax Plant Community (canopy cover) ═══»

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
140	0.3	Landform:	Hills	Edaphic							
		Elevation:	1300-1700 m	---	---	Mibi3	1.0	---	---	Anci	2.0
		Slope:		---	---	Nomi	0.1	---	---	Bocu	10.0
		Gradient:	25 % Length: 10 m	---	---	Prgl2	10.0	---	---	Boer4	5.0
		Aspect:	South Class: Simple	---	---	---	---	---	---	Bohi2	10.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Erin	2.0
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sts	---	---	---	---	---	---	---	---
		Condit-	«═ Canopy ═» «═ Surface Components ═»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 15% 50% 5% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 15% 50% 5% 25% 20%	Fluvial: ---							
		Current:	0.5m 15% 50% 5% 10% 35%	Lacustrine: ---							

Map Unit No. Comp «═══ Landscape Features ═══» «═══ Climax Plant Community (canopy cover) ═══»

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
143	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1300-1700 m	---	---	Nomi	0.1	Hean3	5.0	Bocu	5.0
		Slope:		---	---	Prgl2	5.0	---	---	Boer4	10.0
		Gradient:	4 % Length: 15 m	---	---	---	---	---	---	Himu2	20.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Hibe	5.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	36-46 cm Bedrock: ---	---	---	Gusa2	5.0	Hean3	25.0	Bocu	1.0
		Parent Material:	Alluvium, ba, ss	---	---	Nomi	1.0	---	---	Boer4	4.0
		Condit-	«═ Canopy ═» «═ Surface Components ═»	---	---	Prgl2	10.0	---	---	Himu2	10.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Hibe	5.0
		Tolerance:	0.5m 15% 20% 10% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 15% 20% 10% 30% 30%	Fluvial: ---							
		Current:	0.5m 15% 20% 0% 5% 55%	Lacustrine: ---							

Map Unit No. Comp «═══ Landscape Features ═══» «═══ Climax Plant Community (canopy cover) ═══»

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
143	0.2	Landform:	Hills	Edaphic							
		Elevation:	1300-1700 m	---	---	Mibi3	1.0	---	---	Anci	2.0
		Slope:		---	---	Nomi	0.1	---	---	Bocu	10.0
		Gradient:	25 % Length: 10 m	---	---	Prgl2	10.0	---	---	Boer4	5.0
		Aspect:	South Class: Simple	---	---	---	---	---	---	Bohi2	10.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Erin	2.0
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sts	---	---	---	---	---	---	---	---
		Condit-	«═ Canopy ═» «═ Surface Components ═»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 15% 40% 5% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 15% 40% 5% 25% 15%	Fluvial: ---							
		Current:	0.5m 15% 40% 5% 10% 30%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
143	0.3	Landform:	Hills	Edaphic							
		Elevation:	1700-2100 m	Jude2	15.0	Arpu5	5.0	---	---	Anci	3.0
		Slope:		Jumo	5.0	Nomi	1.0	---	---	Bocu	10.0
		Gradient:	25 % Length: 10 m	Pied	10.0	Rhchi	2.0	---	---	Bohi2	5.0
		Aspect:	North Class: Simple	Qugr3	5.0	---	---	---	---	Bogr2	5.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, ba	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 40% 40% 35% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 40% 40% 35% 20% 10%	Fluvial: ---							
		Current:	1.m 40% 40% 35% 5% 25%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
144	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1700-2100 m	Jude2	10.0	Nomi	0.1	---	---	Bocu	10.0
		Slope:		Jumo	3.0	---	---	---	---	Bohi2	2.0
		Gradient:	4 % Length: 15 m	Pied	0.0	---	---	---	---	Bogr2	15.0
		Aspect:	Noninfl. Class: Simple	Qugr3	0.0	---	---	---	---	Paob	10.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	46-56 cm Bedrock: Basalt	Jude2	10.0	Guas2	15.0	---	---	Bocu	5.0
		Parent Material:	Residuum, ci	Jumo	3.0	Nomi	1.0	---	---	Bohi2	1.0
		Condit-	Canopy / Surface Components	Pied	0.0	---	---	---	---	Bogr2	5.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	Qugr3	0.0	---	---	---	---	Paob	10.0
		Tolerance:	1.m 15% 40% 10% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 15% 40% 10% 30% 20%	Fluvial: ---							
		Current:	1.m 15% 40% 10% 5% 45%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
144	0.2	Landform:	Hills	Edaphic							
		Elevation:	1700-2100 m	Jude2	15.0	Cemop	0.1	---	---	Anci	3.0
		Slope:		Jumo	5.0	Dawh2	2.0	---	---	Bocu	10.0
		Gradient:	25 % Length: 10 m	Pied	5.0	Open2	1.0	---	---	Bohi2	5.0
		Aspect:	All Class: Simple	Qugr3	5.0	Nomi	0.1	---	---	Bogr2	5.0
		Shape, Plan:	Linear	---	---	Rhtr	3.0	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ci	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 40% 40% 35% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 40% 40% 35% 20% 15%	Fluvial: ---							
		Current:	1.m 40% 40% 35% 10% 25%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
145	0.1	Landform:	Mountains	Edaphic							
		Elevation:	1300-2000 m	---	---	Dawh2	0.1	---	---	Anci	2.0
		Slope:		---	---	Mibi3	1.0	---	---	Bocu	10.0
		Gradient:	60 % Length: 5 m	---	---	Nomi	0.1	---	---	Boer4	5.0
		Aspect:	South Class: Simple	---	---	Open2	0.1	---	---	Bohi2	10.0
		Shape, Plan:	Linear	---	---	Prgl2	5.0	---	---	Erin	2.0
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sts	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 5% 70% 5% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 5% 70% 5% 15% 5%	Fluvial: ---							
		Current:	0.5m 5% 70% 5% 15% 5%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
145	0.2	Landform:	Hills, mountains	Edaphic							
		Elevation:	1700-2300 m	Jude2	5.0	Cemop	3.0	ERIOG	1.0	Anci	3.0
		Slope:		Jumo	1.0	Dawh2	1.0	---	---	Bocu	10.0
		Gradient:	60 % Length: 5 m	Pied	10.0	Nomi	0.1	---	---	Bohi2	5.0
		Aspect:	North Class: Simple	Qugr3	10.0	Open2	1.0	---	---	Bogr2	5.0
		Shape, Plan:	Linear	---	---	Rhtr	3.0	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Conglomerate	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sts, ba	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 35% 70% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 35% 70% 30% 20% 5%	Fluvial: ---							
		Current:	1.m 35% 70% 30% 20% 5%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
145	0.3	Landform:	Escarpments	---							
		Elevation:	1300-2000 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	South Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
145 0.4	Landform:	Escarpments							---							
	Elevation:	1700-2300 m							---	---	---	---	---	---	---	---
	Slope:								---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m					---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple					---	---	---	---	---	---	---	---
	Shape, Plan:	Linear							---	---	---	---	---	---	---	---
	Shape, Section:	Linear							---							
	Precipitation:	46-56 cm	Bedrock: ---						---	---	---	---	---	---	---	---
	Parent Material:	,							---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---								
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---								

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
146 0.1	Landform:	Elevated plains							Edaphic							
	Elevation:	1700-2100 m							Jude2	15.0	Arpu5	5.0	---	---	Anci	3.0
	Slope:								Jumo	5.0	Nomi	1.0	---	---	Bocu	10.0
	Gradient:	4 %	Length:	15 m					Pidi	5.0	Rhchi	2.0	---	---	Bohi2	5.0
	Aspect:	Noninfl.	Class:	Simple					Quem	5.0	---	---	---	---	Bogr2	15.0
	Shape, Plan:	Linear							Quar	1.0	---	---	---	---	---	---
	Shape, Section:	Linear							Edaphic/zootic							
	Precipitation:	46-56 cm	Bedrock: ---						Jude2	15.0	Arpu5	5.0	---	---	Anci	3.0
	Parent Material:	Alluvium, ss, sts							Jumo	5.0	Nomi	1.0	---	---	Bocu	5.0
	Condit-	Canopy		Surface Components					Pidi	5.0	Rhchi	2.0	---	---	Bohi2	1.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		Quar	1.0	---	---	---	---	Bogr2	5.0
	Tolerance:	1.m	40%	20%	35%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	1.m	40%	20%	35%	30%	15%	Fluvial: ---								
	Current:	1.m	40%	20%	35%	5%	30%	Lacustrine: ---								

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
146 0.2	Landform:	Hills							Edaphic							
	Elevation:	1700-2100 m							Jude2	15.0	Arpu5	5.0	---	---	Anci	3.0
	Slope:								Jumo	5.0	Nomi	1.0	---	---	Bocu	10.0
	Gradient:	25 %	Length:	10 m					Pidi	5.0	Rhchi	2.0	---	---	Bohi2	5.0
	Aspect:	North	Class:	Simple					Quem	5.0	---	---	---	---	Bogr2	5.0
	Shape, Plan:	Linear							Quar	1.0	---	---	---	---	---	---
	Shape, Section:	Convex							---							
	Precipitation:	46-56 cm	Bedrock: ---						---	---	---	---	---	---	---	---
	Parent Material:	Alluvium, ss, sts							---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	1.m	40%	40%	35%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	1.m	40%	40%	35%	20%	15%	Fluvial: ---								
	Current:	1.m	40%	40%	35%	5%	30%	Lacustrine: ---								

Map Unit No. Comp

146 0.3

Landscape Features

Landform: Hills
Elevation: 1300-1700 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 36-46 cm Bedrock: ---
Parent Material: Alluvium, ss, sts

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	0.5m	15%	50%	5%	---%	---%
Natural:	0.5m	15%	50%	5%	25%	20%
Current:	0.5m	15%	50%	5%	10%	35%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
---	---	Mibi3	1.0	---	---	Anci	2.0
---	---	Nomi	0.1	---	---	Bocu	10.0
---	---	Prgl2	10.0	---	---	Boer4	5.0
---	---	---	---	---	---	Bohi2	10.0
---	---	---	---	---	---	Erin	2.0

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

147 0.1

Landscape Features

Landform: Elevated plains
Elevation: 1700-1800 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 46-56 cm Bedrock: ---
Parent Material: Alluvium, ss, sh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	0%	20%	15%	---%	---%
Natural:	1.m	0%	20%	15%	45%	20%
Current:	1.m	0%	20%	5%	10%	65%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/geographic							
---	---	---	---	---	---	Anba	5.0
---	---	---	---	---	---	Boer4	25.0
---	---	---	---	---	---	Bocu	15.0
---	---	---	---	---	---	Ledu	2.0
---	---	---	---	---	---	Mupo2	5.0
Topo/geographic/zoo							
---	---	Gusa2	15.0	---	---	Anba	1.0
---	---	---	---	---	---	Boer4	5.0
---	---	---	---	---	---	Bocu	10.0
---	---	---	---	---	---	Ledu	0.1
---	---	---	---	---	---	Mupo2	2.0

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

148 0.1

Landscape Features

Landform: Elevated plains
Elevation: 1700-2100 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 45-56 cm Bedrock: Sandstone
Parent Material: Residuum, ss, sh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	20%	35%	---%	---%
Natural:	1.m	40%	20%	35%	30%	15%
Current:	1.m	40%	20%	35%	5%	40%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	15.0	Arpu5	5.0	---	---	Anci	3.0
Jumo	5.0	Nomi	1.0	---	---	Bocu	10.0
Pidi	5.0	Rhchi	2.0	---	---	Bohi2	5.0
Quar	1.0	Rhmi3	1.0	---	---	Bogr2	15.0
Quem	5.0	---	---	---	---	---	---
Edaphic/zootic							
Jude2	15.0	Arpu5	5.0	---	---	Anci	1.0
Jumo	5.0	Gusa2	10.0	---	---	Bocu	5.0
Pidi	5.0	Nomi	2.0	---	---	Bohi2	1.0
Quar	1.0	Rhchi	2.0	---	---	Bogr2	5.0
Quem	5.0	Rhmi3	1.0	---	---	---	---

Fluvial: ---
Lacustrine: ---

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
148	0.2	Landform:	Hills	Edaphic							
		Elevation:	1700-2100 m	Jude2	15.0	Arpu5	5.0	---	---	Anci	3.0
		Slope:		Jumo	5.0	Nomi	1.0	---	---	Bocu	10.0
		Gradient:	25 % Length: 10 m	Pidi	5.0	Rhchi	2.0	---	---	Bohi2	5.0
		Aspect:	All Class: Simple	Quar	1.0	Rhmi3	1.0	---	---	Bogr2	5.0
		Shape, Plan:	Linear	Quem	5.0	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 40% 50% 35% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 40% 50% 35% 15% 10%	Fluvial: ---							
		Current:	1.m 40% 50% 35% 5% 20%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
149	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1700-2100 m	Jude2	15.0	Cemop	0.1	---	---	Anci	3.0
		Slope:		Jumo	5.0	Nomi	0.1	---	---	Bocu	10.0
		Gradient:	4 % Length: 15 m	Pied	5.0	Open2	0.1	---	---	Bohi2	5.0
		Aspect:	Noninfl. Class: Simple	Qugr3	1.0	Rhtr	1.0	---	---	Bogr2	15.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	46-56 cm Bedrock: Sandstone	Jude2	15.0	Cemop	0.1	---	---	Anci	1.0
		Parent Material:	Residuum, ss, sh	Jumo	5.0	Gusa2	10.0	---	---	Bocu	5.0
		Condit-	«= Canopy =» «= Surface Components =»	Pied	5.0	Nomi	1.0	---	---	Bohi2	1.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	Qugr3	1.0	Open2	0.1	---	---	Bogr2	5.0
		Tolerance:	1.m 40% 20% 35% ---% ---%	---	---	Rhtr	1.0	---	---	---	---
		Natural:	1.m 40% 20% 35% 30% 15%	Fluvial: ---							
		Current:	1.m 40% 20% 35% 5% 40%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
149	0.2	Landform:	Hills, mountains	Edaphic							
		Elevation:	1700-2100 m	Jude2	5.0	Cemop	0.1	---	---	Anba	0.1
		Slope:		Jumo	5.0	Dawh2	2.0	---	---	Anci	0.1
		Gradient:	25 % Length: 10 m	Pied	5.0	Nomi	0.1	---	---	Bocu	10.0
		Aspect:	All Class: Simple	Qugr3	15.0	Open2	1.0	---	---	Bohi2	15.0
		Shape, Plan:	Linear	---	---	Rhtr	3.0	---	---	Bogr2	5.0
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 40% 50% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 40% 50% 30% 20% 10%	Fluvial: ---							
		Current:	1.m 40% 50% 30% 10% 20%	Lacustrine: ---							

Map Unit No. Comp

150 0.1

Landform: Elevated plains
Elevation: 2200-2500 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 56-66 cm Bedrock: Sandstone
Parent Material: Residuum, ss, sh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	3.m	60%	40%	75%	---%	---%
Natural:	3.m	60%	40%	75%	10%	15%
Current:	3.m	50%	40%	75%	5%	20%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	5.0	Arpr	3.0	Acmil	1.0	Kopy	0.1
Pipos	50.0	Arpu5	10.0	---	---	Ledu	0.1
Quar	5.0	Cemo2	3.0	---	---	Mulo	0.1
Quem	1.0	Gawr3	1.0	---	---	Pofe	0.1
---	---	Qutu2	2.0	---	---	Sihy	0.1

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

150 0.2

Landform: Hills
Elevation: 2200-2500 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 56-66 cm Bedrock: Sandstone
Parent Material: Residuum, ss, sh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	3.m	60%	40%	75%	---%	---%
Natural:	3.m	60%	40%	75%	10%	15%
Current:	3.m	50%	40%	75%	5%	20%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	5.0	Arpr	3.0	Acmil	1.0	Kopy	0.1
Pipos	50.0	Arpu5	10.0	---	---	Ledu	0.1
Quar	5.0	Cemo2	3.0	---	---	Mulo	0.1
Quem	1.0	Gawr3	1.0	---	---	Pofe	0.1
---	---	Qutu2	2.0	---	---	Sihy	0.1

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

150 0.3

Landform: Hills
Elevation: 1000-1500 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 46-56 cm Bedrock: Sandstone
Parent Material: Residuum, ss, sh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	40%	35%	---%	---%
Natural:	1.m	40%	40%	35%	20%	15%
Current:	1.m	40%	40%	35%	5%	30%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	10.0	Arpu5	5.0	ERIOG	1.0	Anba	0.1
Juos	5.0	Gawr3	1.0	Erci6	0.1	Bocu	3.0
Pimo	5.0	Nomi	2.0	---	---	Bohi2	1.0
Quar	1.0	Qutu2	10.0	---	---	Sihy	0.1
Quem	0.1	Rhov	0.1	---	---	Trum	0.1

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
151 0.1	Landform:	Hills					Edaphic							
	Elevation:	2200-2500 m					Jude2	5.0	Arpr	3.0	Acmil	1.0	Kopy	0.1
	Slope:						Pipos	50.0	Arpu5	10.0	---	---	Ledu	0.1
	Gradient:	25 %	Length:	10 m			Quar	5.0	Cemo2	3.0	---	---	Mulo	0.1
	Aspect:	South	Class:	Simple			Quem	1.0	Gawr3	1.0	---	---	Pofe	0.1
	Shape, Plan:	Linear					---	---	Qutu2	2.0	---	---	Sihy	0.1
	Shape, Section:	Convex					---							
	Precipitation:	56-66 cm	Bedrock:	Sandstone			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m	60%	40%	75%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	3.m	60%	40%	75%	10%	15%	Fluvial: ---							
	Current:	3.m	60%	40%	75%	5%	20%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
151 0.2	Landform:	Hills					Edaphic							
	Elevation:	2100-2400 m					Abco	30.0	Arpr	2.0	Acmil	5.0	Pofe	1.0
	Slope:						Pipos	15.0	Cefe	2.0	Ptaq	2.0	Ledu	0.1
	Gradient:	25 %	Length:	10 m			Pist3	5.0	Rone	1.0	Veth	4.0	---	---
	Aspect:	North	Class:	Simple			Potr5	10.0	---	---	---	---	---	---
	Shape, Plan:	Linear					Psmeg	30.0	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	66-76 cm	Bedrock:	Sandstone			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	30%	80%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	80%	30%	80%	10%	10%	Fluvial: ---							
	Current:	1.m	60%	30%	80%	10%	10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
156 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	1600-2100 m					Pipos	60.0	Arpu5	0.0	ERIOG	0.1	Bocu	0.2
	Slope:						Qugr3	0.5	Cemo2	0.0	---	---	Kopy	1.0
	Gradient:	4 %	Length:	15 m			Quhy	1.0	---	---	---	---	Mulo	1.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Mumo	1.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Pofe	0.2
	Shape, Section:	Linear					---							
	Precipitation:	56-66 cm	Bedrock:	Conglomerate			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sts					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m	60%	40%	60%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	3.m	60%	40%	60%	15%	10%	Fluvial: ---							
	Current:	3.m	60%	40%	60%	10%	15%	Lacustrine: ---							

Map Unit No. Comp

156 0.2

Landscape Features

Landform: Hills, mountains
Elevation: 1600-2100 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 56-66 cm Bedrock: Conglomerate
Parent Material: Residuum, ss, sts

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	3.m	60%	40%	60%	---%	---%
Natural:	3.m	60%	40%	60%	15%	10%
Current:	3.m	60%	40%	60%	10%	15%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Pipos	60.0	Arpu5	1.0	ERIOG	0.1	Bocu	0.2
Qugr3	0.5	Cemo2	0.5	---	---	Kopy	1.0
Quhy	1.0	---	---	---	---	Mulo	1.0
---	---	---	---	---	---	Mumo	1.0
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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

158 0.1

Landscape Features

Landform: Elevated plains
Elevation: 2200-2500 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 46-60 cm Bedrock: Conglomerate
Parent Material: Residuum, ss, sts

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	3.m	70%	25%	75%	---%	---%
Natural:	3.m	70%	25%	75%	10%	10%
Current:	3.m	50%	25%	75%	5%	15%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Pipos	60.0	Cefe	0.2	Acmil	1.0	Fear2	5.0
Qugr3	0.1	Cemop	2.0	Luar3	1.0	Bltr	0.1
---	---	Gawr3	0.1	Pesp3	0.1	Kopy	1.0
---	---	---	---	---	---	Mumo	1.0
---	---	---	---	---	---	Pofe	1.0

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

158 0.2

Landscape Features

Landform: Hills
Elevation: 2200-2500 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 46-60 cm Bedrock: Conglomerate
Parent Material: Residuum, ss, sts

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	3.m	60%	35%	75%	---%	---%
Natural:	3.m	60%	35%	75%	10%	10%
Current:	3.m	60%	35%	75%	5%	15%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Pipos	60.0	Cefe	0.2	Acmil	1.0	Fear2	5.0
Qugr3	0.1	Cemop	2.0	Luar3	1.0	Bitr	0.1
---	---	Gawr3	0.1	Pesp3	0.1	Kopy	1.0
---	---	---	---	---	---	Mumo	1.0
---	---	---	---	---	---	Pofe	1.0

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Fluvial: ---
Lacustrine: ---

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
158	0.3	Landform:	Hills, mountains	Edaphic							
		Elevation:	1700-2100 m	Jude2	5.0	Cemop	0.1	---	---	Anba	0.1
		Slope:		Jumo	5.0	Dawh2	2.0	---	---	Anci	0.1
		Gradient:	25 % Length: 10 m	Pied	5.0	Open2	1.0	---	---	Bocu	10.0
		Aspect:	South Class: Simple	Qugr3	10.0	Nomi	0.1	---	---	Bohi2	15.0
		Shape, Plan:	Linear	---	---	Rhtr	3.0	---	---	Bogr2	5.0
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Conglomerate	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sts	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 40% 50% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 40% 50% 30% 25% 10%	Fluvial: ---							
		Current:	1.m 40% 50% 30% 10% 25%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
158	0.4	Landform:	Escarpments	---							
		Elevation:	1700-2100 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	All Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
159	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	2200-2500 m	Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	5.0
		Slope:		Quga	1.0	Cefe	0.2	Luar3	4.0	Bltr	0.1
		Gradient:	4 % Length: 15 m	---	---	Quga	1.0	Ptan2	0.2	Kopy	1.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Mumo	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	1.0
		Shape, Section:	Linear	---							
		Precipitation:	46-60 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 70% 25% 75% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 70% 25% 75% 10% 10%	Fluvial: ---							
		Current:	3.m 50% 25% 75% 5% 15%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
159	0.2	Landform:	Hills	Edaphic							
		Elevation:	2200-2500 m	Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	5.0
		Slope:		Quga	1.0	Cefe	0.2	Luar3	4.0	Bltr	0.1
		Gradient:	25 % Length: 10 m	---	---	Quga	1.0	Ptan2	0.2	Kopy	1.0
		Aspect:	All Class: Simple	---	---	---	---	---	---	Mumo	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	1.0
		Shape, Section:	Convex	---							
		Precipitation:	46-60 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 70% 40% 75% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 70% 40% 75% 10% 10%	Fluvial: ---							
		Current:	3.m 50% 40% 75% 5% 15%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
160	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	2000-2600 m	Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	5.0
		Slope:		Quga	1.0	Cefe	0.2	Luar3	4.0	Bltr	0.1
		Gradient:	4 % Length: 15 m	---	---	Quga	1.0	Ptan2	0.2	Kopy	1.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Mumo	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	1.0
		Shape, Section:	Linear	---							
		Precipitation:	46-60 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 70% 10% 75% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 70% 10% 75% 15% 10%	Fluvial: ---							
		Current:	3.m 50% 10% 75% 5% 20%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
161	0.1	Landform:	Hills, mountains	Edaphic							
		Elevation:	2200-2500 m	Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	5.0
		Slope:		Quga	1.0	Cefe	0.2	Luar3	4.0	Bltr	0.1
		Gradient:	25 % Length: 10 m	---	---	Quga	1.0	Ptan2	0.1	Kopy	1.0
		Aspect:	All Class: Simple	---	---	---	---	---	---	Mumo	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	1.0
		Shape, Section:	Convex	---							
		Precipitation:	56-60 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 70% 20% 75% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 70% 20% 75% 10% 10%	Fluvial: ---							
		Current:	3.m 50% 20% 75% 5% 15%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
162	0.1	Landform:	Elevated plains	Topo/geographic							
		Elevation:	2100-2300 m	Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	10.0
		Slope:		Quga	1.0	Cefe	0.2	Luar3	4.0	Kopy	1.0
		Gradient:	4 % Length: 15 m	---	---	Quga	1.0	Ptan2	0.1	Mumo	1.0
		Aspect:	All Class: Simple	---	---	---	---	---	---	Muvi	15.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	1.0
		Shape, Section:	Linear	---							
		Precipitation:	60-70 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sh, ls	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 80% 20% 75% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 80% 20% 75% 10% 5%	Fluvial: ---							
		Current:	3.m 50% 20% 75% 10% 10%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
162	0.2	Landform:	Elevated plains	Topo/geographic							
		Elevation:	2200-2400 m	Abco	30.0	Aruv	0.1	Alge	0.1	Brci2	0.1
		Slope:		Pipos	15.0	Bere	3.0	Arfr2	2.0	Fear2	0.1
		Gradient:	4 % Length: 15 m	Pist3	5.0	Pamy	1.0	Frvea	2.0	Muvi	1.0
		Aspect:	All Class: Simple	Potr5	10.0	Quga	5.0	Beca3	0.5	---	---
		Shape, Plan:	Linear	Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
		Shape, Section:	Linear	---							
		Precipitation:	70-80 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sh, ls	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 80% 35% 90% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 80% 35% 90% 15% 0%	Fluvial: ---							
		Current:	1.m 45% 35% 70% 10% 20%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
168	0.1	Landform:	Hills, mountains	Edaphic							
		Elevation:	1700-2300 m	Jude2	10.0	Arpu5	10.0	---	---	Anci	3.0
		Slope:		Jumo	5.0	Cemo2	5.0	---	---	Bocu	10.0
		Gradient:	60 % Length: 5 m	Pied	5.0	Nomi	1.0	---	---	Bohi2	5.0
		Aspect:	South Class: Simple	Qugr3	10.0	Rhchi	2.0	---	---	Bogr2	5.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Conglomerate	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sts	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 35% 70% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 35% 70% 30% 10% 10%	Fluvial: ---							
		Current:	1.m 35% 70% 30% 10% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
168 0.2	Landform:	Mountains	Edaphic							
	Elevation:	2500-2900 m	Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
	Slope:		Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient:	60 % Length: 5 m	Pist3	0.0	Pamy	1.0	Fram	2.0	---	---
	Aspect:	North Class: Simple	Potr5	10.0	Duga	5.0	Geca3	0.1	---	---
	Shape, Plan:	Linear	Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section:	Convex	---							
	Precipitation:	60-70 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ba, cg, ss, sts	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion Height	OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 1.m	70% 65% 80% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 1.m	70% 65% 80% 5% 5%	Fluvial: ---							
	Current: 1.m	70% 65% 80% 5% 5%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
168 0.3	Landform:	Escarpments	---							
	Elevation:	1700-2300 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect:	South Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Linear	---							
	Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion Height	OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:--- m	---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m	---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m	---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
168 0.4	Landform:	Escarpments	---							
	Elevation:	2500-2900 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect:	North Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Linear	---							
	Precipitation:	60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion Height	OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:--- m	---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m	---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m	---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
176	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	2500-2900 m	Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
		Slope:		Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
		Gradient:	4 % Length: 15 m	Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
		Aspect:	Noninfl. Class: Simple	Potr5	10.0	Duga	5.0	Geca3	0.1	---	---
		Shape, Plan:	Linear	Psmeg	30.0	Syor2	5.0	Laar	0.1	---	---
		Shape, Section:	Linear	---							
		Precipitation:	60-70 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh	---	---	---	---	---	---	---	---
		Condition	Canopy Height / OvStr / Surface Components RkFrg / Littr / VegBA / BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 80% 20% 90% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 80% 20% 90% 10% 0%	Fluvial: ---							
		Current:	1.m 60% 20% 90% 10% 0%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
176	0.2	Landform:	Hills, mountains	Edaphic							
		Elevation:	2500-2900 m	Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
		Slope:		Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
		Gradient:	25 % Length: 10 m	Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
		Aspect:	All Class: Simple	Potr5	10.0	Duga	5.0	Geca3	0.1	---	---
		Shape, Plan:	Linear	Psmeg	30.0	Syor2	5.0	Laar	0.1	---	---
		Shape, Section:	Convex	---							
		Precipitation:	60-70 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh	---	---	---	---	---	---	---	---
		Condition	Canopy Height / OvStr / Surface Components RkFrg / Littr / VegBA / BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 80% 20% 90% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 80% 20% 90% 10% 0%	Fluvial: ---							
		Current:	1.m 60% 20% 90% 10% 0%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
176	0.3	Landform:	Elevated plains	Edaphic							
		Elevation:	2500-2900 m	Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
		Slope:		Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
		Gradient:	25 % Length: 10 m	Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
		Aspect:	All Class: Simple	Potr5	10.0	Duga	5.0	Geca3	0.1	---	---
		Shape, Plan:	Linear	Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
		Shape, Section:	Convex	---							
		Precipitation:	60-70 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh	---	---	---	---	---	---	---	---
		Condition	Canopy Height / OvStr / Surface Components RkFrg / Littr / VegBA / BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 80% 20% 90% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 80% 20% 90% 10% 0%	Fluvial: ---							
		Current:	1.m 60% 20% 90% 10% 0%	Lacustrine: ---							

Map Unit No. Comp

176 0.4

Landscape Features

Landform: Hills, mountains
Elevation: 2500-2900 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 60-70 cm Bedrock: Sandstone
Parent Material: Residuum, ss, sh

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	80%	20%	90%	---%	---%
Natural:	1.m	80%	20%	90%	10%	0%
Current:	1.m	60%	20%	90%	10%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
Potr5	10.0	Ouga	5.0	Geca3	0.1	---	---
Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

177 0.1

Landscape Features

Landform: Mountains
Elevation: 2500-3000 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 60-70 cm Bedrock: Sandstone
Parent Material: Residuum, ss, sh

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	80%	65%	90%	---%	---%
Natural:	1.m	80%	65%	90%	10%	0%
Current:	1.m	80%	65%	90%	10%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Abco	20.0	Bere	3.0	Alge	0.1	Bran	1.0
Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
Potr5	10.0	Ouga	5.0	Geca3	0.1	---	---
Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

177 0.2

Landscape Features

Landform: Mountains
Elevation: 3300-3800 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 70-80 cm Bedrock: Sandstone
Parent Material: Residuum, ss, sh, an

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	90%	40%	90%	---%	---%
Natural:	1.m	90%	40%	90%	5%	0%
Current:	1.m	90%	40%	90%	5%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci2	0.1
Pien	50.0	Rimo2	0.1	Frvea	1.0	Lupa4	0.1
Potr5	1.0	Vamy2	10.0	Goob2	1.0	Trmo5	0.1
---	---	Vasc	1.0	Hapa6	1.0	---	---
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Fluvial: ---
Lacustrine: ---

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
177	0.3	Landform:	Escarpments	---							
		Elevation:	2500-3000 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	South Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
177	0.4	Landform:	Escarpments	---							
		Elevation:	3300-3800 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	North Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	70-80 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
178	0.1	Landform:	Escarpments	Edaphic							
		Elevation:	1900-2200 m	Pied	10.0	---	---	---	---	Bogr2	5.0
		Slope:		Jumo	10.0	---	---	---	---	Sihy	0.1
		Gradient:	60 % Length: 5 m	---	---	---	---	---	---	Stne2	10.0
		Aspect:	Westh Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	36-46 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
		Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 25% 65% 20% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 25% 65% 20% 20% 15%	Fluvial: ---							
		Current:	1.m 25% 65% 20% 20% 15%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
178 0.2	Landform: Escarpments	Edaphic							
	Elevation: 2500-2900 m	Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
	Slope:	Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient: 60 % Length: 5 m	Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect: Easth Class: Simple	Potr5	10.0	Guga	5.0	Geca3	0.1	---	---
	Shape, Plan: Linear	Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section: Linear	---							
	Precipitation: 60-70 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
	Parent Material: Residuum, ss, ls	---	---	---	---	---	---	---	---
	Condition: Canopy / Surface Components	---	---	---	---	---	---	---	---
	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 1.m 80% 65% 90% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 1.m 80% 65% 90% 10% 5%	Fluvial: ---							
	Current: 1.m 80% 65% 90% 10% 5%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
178 0.3	Landform: Escarpments	---							
	Elevation: 1900-2200 m	---	---	---	---	---	---	---	---
	Slope:	---	---	---	---	---	---	---	---
	Gradient: 100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect: Westh Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Linear	---							
	Precipitation: 36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material: ,	---	---	---	---	---	---	---	---
	Condition: Canopy / Surface Components	---	---	---	---	---	---	---	---
	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: --- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
178 0.4	Landform: Escarpments	---							
	Elevation: 2500-2900 m	---	---	---	---	---	---	---	---
	Slope:	---	---	---	---	---	---	---	---
	Gradient: 100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect: Easth Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Linear	---							
	Precipitation: 60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material: ,	---	---	---	---	---	---	---	---
	Condition: Canopy / Surface Components	---	---	---	---	---	---	---	---
	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: --- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
181	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	2900-3600 m	Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci2	0.1
		Slope:		Pien	50.0	Rimo2	0.1	Frvea	2.0	Lupa4	0.1
		Gradient:	4 % Length: 15 m	Potr5	1.0	Vamy2	10.0	Goob2	1.0	Trmo5	0.1
		Aspect:	Noninfl. Class: Simple	---	---	Vasc	1.0	Hapa6	1.0	---	---
		Shape, Plan:	Linear	---	---	---	---	Pode4	2.0	---	---
		Shape, Section:	Linear	---							
		Precipitation:	70-80 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh, an	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 90% 20% 95% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 90% 20% 95% 5% 0%	Fluvial: ---							
		Current:	0.5m 90% 20% 95% 5% 0%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
181	0.2	Landform:	Mountains	Edaphic							
		Elevation:	2900-3600 m	Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci2	0.1
		Slope:		Pien	50.0	Rimo2	10.0	Frvea	1.0	Lupa4	0.1
		Gradient:	25 % Length: 10 m	Potr5	1.0	Vamy2	10.0	Goob2	1.0	Trmo5	0.1
		Aspect:	All Class: Simple	---	---	Vasc	1.0	Hapa6	1.0	---	---
		Shape, Plan:	Linear	---	---	---	---	Pode4	2.0	---	---
		Shape, Section:	Convex	---							
		Precipitation:	70-80 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh, an	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 90% 20% 95% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 90% 20% 95% 5% 0%	Fluvial: ---							
		Current:	0.5m 90% 20% 95% 5% 0%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
183	0.1	Landform:	Elevated plains	Edaphic/fire							
		Elevation:	2900-3600 m	Ablaa	0.0	Juco6	0.0	ANTE	0.5	CAREX	5.0
		Slope:		Pien	0.0	---	---	TARA	0.5	Dain	10.0
		Gradient:	4 % Length: 15 m	Potr5	0.0	---	---	Viam	0.1	Feov	25.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Feth	25.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	Edaphic/fire/zootic							
		Precipitation:	70-80 cm Bedrock: ---	Ablaa	0.0	Juco6	0.0	ANTE	4.0	CAREX	40.0
		Parent Material:	Alluvium, ss, sh, an	Pien	0.0	---	---	TARA	10.0	Dain	1.0
		Condit-	«= Canopy =» «= Surface Components =»	Potr5	0.0	---	---	Viam	0.1	Feov	5.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Feth	0.1
		Tolerance:	0.m 0% 25% 35% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.m 0% 25% 35% 50% 0%	Fluvial: ---							
		Current:	0.m 0% 25% 20% 15% 50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
183	0.2	Landform:	Hills					Edaphic/fire							
		Elevation:	2900-3600 m					Ablaa	0.0	Juco6	0.0	ANTE	0.5	CAREX	5.0
		Slope:						Pien	0.0	---	---	TARA	0.5	Dain	10.0
		Gradient:	25 %	Length:	10 m			Potr5	0.0	---	---	Viam	0.1	Feov	25.0
		Aspect:	All	Class:	Simple			---	---	---	---	---	---	Feth	25.0
		Shape, Plan:	Linear					---	---	---	---	---	---	---	---
		Shape, Section:	Convex					---							
		Precipitation:	70-80 cm	Bedrock: ---				---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sh, an					---	---	---	---	---	---	---	---
		Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.m	0%	25%	30%	50%	---%	---	---	---	---	---	---	---	---
		Natural:	0.m	0%	25%	30%	50%	0%	Fluvial: ---							
		Current:	0.m	0%	25%	5%	20%	50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
183	0.3	Landform:	Hills					Edaphic							
		Elevation:	2900-3600 m					Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci2	0.1
		Slope:						Pien	50.0	Rimo2	0.1	Frvea	1.0	Lupa4	0.1
		Gradient:	25 %	Length:	10 m			Potr5	1.0	Vamy2	10.0	Goob6	1.0	Trmo5	0.1
		Aspect:	All	Class:	Simple			---	---	Vasc	1.0	Hapa6	1.0	---	---
		Shape, Plan:	Linear					---	---	---	---	Pode4	2.0	---	---
		Shape, Section:	Convex					---							
		Precipitation:	70-80 cm	Bedrock: ---				---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sh, ba					---	---	---	---	---	---	---	---
		Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m	90%	25%	95%	---%	---%	---	---	---	---	---	---	---	---
		Natural:	1.m	90%	25%	95%	5%	0%	Fluvial: ---							
		Current:	1.m	90%	25%	95%	5%	0%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
187	0.1	Landform:	Mountains					Edaphic							
		Elevation:	2500-2900 m					Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
		Slope:						Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
		Gradient:	60 %	Length:	5 m			Pist3	0.0	Pamy	1.0	Fram	2.0	---	---
		Aspect:	South	Class:	Simple			Potr5	10.0	Guga	5.0	Geca3	2.0	---	---
		Shape, Plan:	Linear					Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
		Shape, Section:	Convex					---							
		Precipitation:	60-70 cm	Bedrock: Sandstone				---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
		Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m	80%	65%	90%	---%	---%	---	---	---	---	---	---	---	---
		Natural:	1.m	80%	65%	90%	10%	0%	Fluvial: ---							
		Current:	1.m	80%	65%	90%	10%	0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
187 0.2	Landform:	Mountains					Edaphic							
	Elevation:	2900-3700 m					Ablaa	40.0	Juco6	0.0	Erex0	1.0	Brci2	0.1
	Slope:						Pien	50.0	Rimo2	0.1	Frvea	1.0	Lupa4	0.1
	Gradient:	60 %	Length:	5 m			Potr5	1.0	Vamy2	10.0	Goob2	1.0	Trmo5	0.1
	Aspect:	North	Class:	Simple			---	---	Vasc	1.0	Hapa6	1.0	---	---
	Shape, Plan:	Linear					---	---	---	---	Pode4	2.0	---	---
	Shape, Section:	Convex					---							
	Precipitation:	70-80 cm	Bedrock:	Sandstone			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sh, an					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	90%	65%	90%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	90%	65%	90%	5%	0%	Fluvial: ---							
	Current:	1.m	90%	65%	90%	5%	0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
187 0.3	Landform:	Escarpments					---							
	Elevation:	2500-2900 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	60-70 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
187 0.4	Landform:	Escarpments					---							
	Elevation:	2900-3700 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	70-80 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
188 0.1	Landform:	Mountains							Edaphic							
	Elevation:	2500-3000 m							Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
	Slope:								Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient:	60 %	Length:	5 m					Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	All	Class:	Simple					Potr5	10.0	Quga	5.0	Geca3	2.0	---	---
	Shape, Plan:	Linear							Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section:	Convex							---							
	Precipitation:	60-70 cm	Bedrock:	Andesite					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, an							---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	65%	90%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	1.m	80%	65%	90%	10%	0%		Fluvial: ---							
	Current:	1.m	80%	65%	90%	10%	0%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
188 0.2	Landform:	Escarpments							---							
	Elevation:	2500-3000 m							---	---	---	---	---	---	---	---
	Slope:								---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m					---	---	---	---	---	---	---	---
	Aspect:	All	Class:	Simple					---	---	---	---	---	---	---	---
	Shape, Plan:	Linear							---	---	---	---	---	---	---	---
	Shape, Section:	Linear							---							
	Precipitation:	60-70 cm	Bedrock:	---					---	---	---	---	---	---	---	---
	Parent Material:	,							---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%		Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
188 0.3	Landform:	Escarpments							---							
	Elevation:	2500-3000 m							---	---	---	---	---	---	---	---
	Slope:								---	---	---	---	---	---	---	---
	Gradient:	60 %	Length:	5 m					---	---	---	---	---	---	---	---
	Aspect:	All	Class:	Simple					---	---	---	---	---	---	---	---
	Shape, Plan:	Linear							---	---	---	---	---	---	---	---
	Shape, Section:	Linear							---							
	Precipitation:	60-70 cm	Bedrock:	---					---	---	---	---	---	---	---	---
	Parent Material:	,							---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%		Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
191 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	2200-2500 m					Pipos	65.0	Bere	3.0	Acmil	0.1	Fear2	10.0
	Slope:						Quga	1.0	Cefe	0.1	Luar3	0.1	Bltr	0.1
	Gradient:	4 %	Length:	15 m			---	---	Quga	1.0	Ptan2	0.1	Kopy	1.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Mumo	2.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Pofe	3.0
	Shape, Section:	Linear					---							
	Precipitation:	46-60 cm	Bedrock:	Basalt			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m	70%	20%	75%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	3.m	70%	20%	75%	15%	10%	Fluvial: ---							
	Current:	3.m	50%	20%	75%	5%	20%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
191 0.2	Landform:	Hills, mountains					Edaphic							
	Elevation:	2100-2600 m					Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	10.0
	Slope:						Quga	1.0	Cefe	0.1	Luar3	4.0	Bltr	0.1
	Gradient:	25 %	Length:	10 m			---	---	Quga	1.0	Ptan2	0.1	Kopy	1.0
	Aspect:	All	Class:	Simple			---	---	---	---	---	---	Mumo	2.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Pofe	3.0
	Shape, Section:	Convex					---							
	Precipitation:	46-60 cm	Bedrock:	Basalt			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m	70%	40%	75%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	3.m	70%	40%	75%	15%	5%	Fluvial: ---							
	Current:	3.m	50%	40%	75%	10%	15%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
192 0.1	Landform:	Mountains					Edaphic							
	Elevation:	2500-3000 m					Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
	Slope:						Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient:	60 %	Length:	5 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	South	Class:	Simple			Potr5	10.0	Quga	5.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section:	Convex					---							
	Precipitation:	60-70 cm	Bedrock:	Basalt			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m	80%	65%	90%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	3.m	80%	65%	90%	10%	0%	Fluvial: ---							
	Current:	3.m	80%	65%	90%	10%	0%	Lacustrine: ---							

Map Unit No. Comp

192 0.2

Landscape Features

Landform: Mountains
Elevation: 2900-3700 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 70-80 cm Bedrock: Basalt
Parent Material: Residuum, ci

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	0.5m	90%	65%	90%	---%	---%
Natural:	0.5m	90%	65%	90%	5%	0%
Current:	0.5m	90%	65%	90%	5%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci2	0.1
Pien	50.0	Rimo2	0.1	Frvea	1.0	Lupa4	0.1
Potr5	1.0	Vamy2	10.0	Goob2	1.0	Trmo5	0.1
---	---	Vasc	1.0	Hapa6	1.0	---	---
---	---	---	---	Pode4	2.0	---	---

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

192 0.3

Landscape Features

Landform: Escarpments
Elevation: 2500-3000 m
Slope:
Gradient: 100 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 60-70 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

192 0.4

Landscape Features

Landform: Escarpments
Elevation: 2900-3700 m
Slope:
Gradient: 100 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 70-80 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
193 0.1	Landform: Elevated plains	Edaphic							
	Elevation: 2200-2500 m	Pipos	60.0	Bere	3.0	Acmil	0.1	Fear2	10.0
	Slope:	Quga	1.0	Cefe	0.1	Lupa3	0.1	Bltr	0.1
	Gradient: 4 % Length: 15 m	---	---	Quga	1.0	Ptan2	0.1	Kopy	1.0
	Aspect: Noninfl. Class: Simple	---	---	---	---	---	---	Mumo	2.0
	Shape, Plan: Linear	---	---	---	---	---	---	Pofe	3.0
	Shape, Section: Linear	---							
	Precipitation: 46-60 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
	Parent Material: Residuum, ci	---	---	---	---	---	---	---	---
	Condit- «= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 3.m 70% 20% 75% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 3.m 70% 20% 75% 15% 10%	Fluvial: ---							
	Current: 3.m 50% 20% 75% 5% 20%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
193 0.2	Landform: Hills	Edaphic							
	Elevation: 2200-2500 m	Pipos	60.0	Bere	3.0	Acmil	5.0	Bltr2	1.0
	Slope:	Quga	0.1	Cefe	0.1	Luar3	4.0	Fear2	10.0
	Gradient: 25 % Length: 10 m	---	---	Quga	1.0	Ptan2	0.1	Kopy	1.0
	Aspect: All Class: Simple	---	---	---	---	---	---	Mumo	2.0
	Shape, Plan: Linear	---	---	---	---	---	---	Pofe	3.0
	Shape, Section: Convex	---							
	Precipitation: 46-60 cm Bedrock: Cinders	---	---	---	---	---	---	---	---
	Parent Material: Residuum, ci	---	---	---	---	---	---	---	---
	Condit- «= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 3.m 65% 50% 60% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 3.m 65% 50% 60% 10% 10%	Fluvial: ---							
	Current: 3.m 65% 50% 60% 10% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
194 0.1	Landform: Elevated plains	Edaphic							
	Elevation: 1900-2100 m	Jumo	15.0	Gusa2	1.0	Caco4	1.0	Agsm	10.0
	Slope:	Pied	10.0	Hyri	0.5	Erfl	0.1	Bocu	5.0
	Gradient: 4 % Length: 15 m	---	---	---	---	Erme2	0.1	Bogr2	15.0
	Aspect: Nonin Class: Simple	---	---	---	---	---	---	Bohi2	1.0
	Shape, Plan: Linear	---	---	---	---	---	---	Pofe	1.0
	Shape, Section: Linear	Edaphic/zootic							
	Precipitation: 36-46 cm Bedrock: Basalt	Jumo	15.0	Gusa2	10.0	Caoc4	1.0	Agsm	1.0
	Parent Material: Residuum, ci	Pied	10.0	Hyri	2.0	Erfl	0.1	Bocu	1.0
	Condit- «= Canopy =» «= Surface Components =»	---	---	---	---	Erme2	0.1	Bogr2	5.0
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Bohi2	0.5
	Tolerance: 1.m 35% 30% 30% ---% ---%	---	---	---	---	---	---	Pofe	1.0
	Natural: 1.m 35% 30% 30% 15% 20%	Fluvial: ---							
	Current: 1.m 35% 30% 30% 5% 40%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
194 0.2	Landform:	Hills							Edaphic							
	Elevation:	1900-2100 m							Jumo	5.0	Fapa2	0.1	---	---	Bocu	5.0
	Slope:								Pied	10.0	Rhtr	0.1	---	---	Bogr2	15.0
	Gradient:	25 %	Length:	10 m					---	---	---	---	---	---	Sihy	0.1
	Aspect:	All	Class:	Simple					---	---	---	---	---	---	---	---
	Shape, Plan:	Linear							---	---	---	---	---	---	---	---
	Shape, Section:	Convex							---							
	Precipitation:	36-46 cm	Bedrock:	Cinders					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci							---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components						---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	1.m	15%	40%	30%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	1.m	15%	40%	30%	25%	10%		Fluvial: ---							
	Current:	1.m	15%	40%	30%	10%	25%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
196 0.1	Landform:	Elevated plains							Edaphic							
	Elevation:	2200-2500 m							Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	10.0
	Slope:								Quga	1.0	Cefe	0.1	Luar3	4.0	Bltr	0.1
	Gradient:	4 %	Length:	15 m					---	---	Quga	1.0	Ptan2	0.1	Mumo	2.0
	Aspect:	Noninfl.	Class:	Simple					---	---	---	---	---	---	Kopy	1.0
	Shape, Plan:	Linear							---	---	---	---	---	---	Pofe	3.0
	Shape, Section:	Linear							---							
	Precipitation:	46-60 cm	Bedrock:	Basalt					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci							---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components						---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	3.m	70%	20%	75%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	3.m	70%	20%	75%	15%	10%		Fluvial: ---							
	Current:	3.m	50%	20%	75%	5%	20%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
196 0.2	Landform:	Hills							Edaphic							
	Elevation:	2200-2500 m							Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	10.0
	Slope:								Quga	1.0	Cefe	0.1	Luar3	4.0	Bltr	0.1
	Gradient:	25 %	Length:	10 m					---	---	Quga	1.0	Ptan2	0.1	Mumo	2.0
	Aspect:	Noninfl.	Class:	Simple					---	---	---	---	---	---	Kopy	1.0
	Shape, Plan:	Linear							---	---	---	---	---	---	Pofe	3.0
	Shape, Section:	Convex							---							
	Precipitation:	46-60 cm	Bedrock:	Basalt					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci							---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components						---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	3.m	70%	40%	75%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	3.m	70%	40%	75%	10%	10%		Fluvial: ---							
	Current:	3.m	50%	40%	75%	5%	15%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
196 0.3	Landform:	Hills					Edaphic							
	Elevation:	1900-2200 m					Jumo	15.0	---	---	Caoc4	1.0	Agsm	0.1
	Slope:						Pied	20.0	---	---	Erfl	0.1	Bocu	5.0
	Gradient:	25 %	Length:	10 m			---	---	---	---	Erme2	0.1	Bogr2	20.0
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	Hija	0.1
	Shape, Plan:	Linear					---	---	---	---	---	---	Pofe	0.1
	Shape, Section:	Convex					---							
	Precipitation:	36-46 cm	Bedrock:	Basalt			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---
	Tolerance:	1.m	35%	40%	30%	---%	---%	---	---	---	---	---	---	---
	Natural:	1.m	35%	40%	30%	25%	15%	Fluvial: ---						
	Current:	1.m	35%	40%	30%	20%	20%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
197 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	2500-2900 m					Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
	Slope:						Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient:	4 %	Length:	15 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	Noninfl.	Class:	Simple			Potr5	10.0	Guga	1.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Syor2	0.5	Laar	0.1	---	---
	Shape, Section:	Linear					---							
	Precipitation:	60-70 cm	Bedrock:	Basalt			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	20%	90%	---%	---%	---	---	---	---	---	---	---
	Natural:	1.m	80%	20%	90%	10%	0%	Fluvial: ---						
	Current:	1.m	60%	20%	90%	10%	0%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
197 0.2	Landform:	Hills					Edaphic							
	Elevation:	2500-2900 m					Abco	30.0	Bere	3.0	Alge	0.1	Bran	0.1
	Slope:						Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient:	25 %	Length:	10 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	All	Class:	Simple			Potr5	10.0	Guga	1.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Syor2	0.5	Laar	0.1	---	---
	Shape, Section:	Convex					---							
	Precipitation:	60-70 cm	Bedrock:	Cinders			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	40%	90%	---%	---%	---	---	---	---	---	---	---
	Natural:	1.m	80%	40%	90%	10%	0%	Fluvial: ---						
	Current:	1.m	80%	40%	90%	10%	0%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
198 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	2500-2900 m					Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
	Slope:						Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient:	4 %	Length:	15 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	Noninfl.	Class:	Simple			Potr5	10.0	Quga	5.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section:	Linear					---							
	Precipitation:	60-70 cm	Bedrock:	Basalt			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	20%	90%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	80%	20%	90%	10%	0%	Fluvial: ---							
	Current:	1.m	60%	20%	90%	10%	0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
198 0.2	Landform:	Hills					Edaphic							
	Elevation:	2500-2900 m					Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
	Slope:						Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient:	25 %	Length:	10 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	All	Class:	Simple			Potr5	10.0	Quga	5.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Syor2	5.0	Laar	0.1	---	---
	Shape, Section:	Convex					---							
	Precipitation:	60-70 cm	Bedrock:	Basalt			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	40%	90%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	80%	40%	90%	10%	0%	Fluvial: ---							
	Current:	1.m	60%	40%	90%	10%	0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
214 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	400-900 m					Cefl2	0.0	Cegr	1.0	Enfa	0.1	Bocu	0.1
	Slope:						Cegi	1.0	Lupa	1.0	HAPLO	1.0	Boer4	5.0
	Gradient:	4 %	Length:	15 m			Cemi2	4.0	Opun	3.0	---	---	Erin	1.0
	Aspect:	Noninfl.	Class:	Simple			---	---	Prve	1.0	---	---	Himu2	0.1
	Shape, Plan:	Linear					---	---	Sich	5.0	---	---	Mupo2	5.0
	Shape, Section:	Linear					Edaphic/zootic							
	Precipitation:	24-36 cm	Bedrock:	---			Cefl2	0.0	Cegr	1.0	Enfa	0.1	Bocu	0.1
	Parent Material:	Alluvium, ss, sts					Cegi	1.0	Lupa	1.0	HAPLO	1.0	Boer4	1.0
	Condit-	Canopy	Surface Components				Cemi2	4.0	Opun	3.0	---	---	Erin2	0.5
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	Prve	10.0	---	---	Himu2	0.1
	Tolerance:	0.5m	10%	25%	5%	---%	---%	---	---	Sich	3.0	---	---	Mupo2	2.0
	Natural:	0.5m	10%	25%	5%	15%	55%	Fluvial: ---							
	Current:	0.5m	10%	25%	5%	5%	65%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
214	0.2	Landform:	Hills	Edaphic							
		Elevation:	400-900 m	Cefl2	0.0	Cegr	1.0	Enfa	0.1	Bocu	0.1
		Slope:		Cegi	1.0	Ladi2	15.0	---	---	Boer4	5.0
		Gradient:	25 % Length: 10 m	Cemi2	4.0	Opun	2.0	---	---	Erin	1.0
		Aspect:	All Class: Simple	---	---	Prve	1.0	---	---	Himu2	0.1
		Shape, Plan:	Linear	---	---	Sich	5.0	---	---	Mupo2	4.0
		Shape, Section:	Convex	---							
		Precipitation:	24-36 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, ls	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 25% 60% 0% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 25% 60% 0% 15% 25%	Fluvial: ---							
		Current:	0.5m 25% 60% 0% 5% 35%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
235	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	400-900 m	Cefl2	0.1	Cegr	1.0	---	---	Bocu	1.0
		Slope:		Cegi	1.0	Open2	2.0	---	---	Boer4	5.0
		Gradient:	4 % Length: 15 m	Cemi2	4.0	Prve	1.0	---	---	Erin	1.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Himu2	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Mupo2	4.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	24-36 cm Bedrock: ---	Cefl2	0.1	Cegr	1.0	---	---	Bocu	0.1
		Parent Material:	Alluvium, gr, rh	Cegi	1.0	Open2	4.0	---	---	Boer4	1.0
		Condit-	Canopy / Surface Components	Cemi2	4.0	Prve	10.0	---	---	Erin	1.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Himu2	0.1
		Tolerance:	0.5m 10% 40% 5% ---% ---%	---	---	---	---	---	---	Mupo2	2.0
		Natural:	0.5m 10% 40% 5% 20% 35%	Fluvial: ---							
		Current:	0.5m 10% 40% 5% 5% 50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
236	0.1	Landform:	Hills	Edaphic							
		Elevation:	400-900 m	Cefl2	0.1	Cegr	1.0	---	---	Bocu	0.1
		Slope:		Cegi	2.0	Open2	2.0	---	---	Boer4	5.0
		Gradient:	25 % Length: 10 m	Cemi2	4.0	Prve	1.0	---	---	Erin	1.0
		Aspect:	All Class: Simple	---	---	---	---	---	---	Himu2	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Mupo2	4.0
		Shape, Section:	Convex	---							
		Precipitation:	24-36 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, gr, rh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 10% 50% 5% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 10% 50% 5% 15% 30%	Fluvial: ---							
		Current:	0.5m 10% 50% 5% 5% 40%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
237 0.1	Landform:	Elevated plains						Edaphic							
	Elevation:	400-900 m						Cegi	0.1	Dovi	10.0	---	---	Mupo2	0.1
	Slope:							Cemi2	5.0	Fosp2	5.0	---	---	---	---
	Gradient:	4 %	Length:	15 m				---	---	Sich	0.1	---	---	---	---
	Aspect:	Noninfl.	Class:	Simple				---	---	---	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Linear						---							
	Precipitation:	24-36 cm	Bedrock:	Tuff				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, tu						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	15%	85%	0%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	15%	85%	0%	5%	10%	Fluvial: ---							
	Current:	0.5m	15%	85%	0%	5%	10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
237 0.2	Landform:	Elevated plains						---							
	Elevation:	400-900 m						---	---	---	---	---	---	---	---
	Slope:							---	---	---	---	---	---	---	---
	Gradient:	4 %	Length:	15 m				---	---	---	---	---	---	---	---
	Aspect:	Noninfl.	Class:	Simple				---	---	---	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Linear						---							
	Precipitation:	24-36 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
237 0.3	Landform:	Escarpments						---							
	Elevation:	400-900 m						---	---	---	---	---	---	---	---
	Slope:							---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m				---	---	---	---	---	---	---	---
	Aspect:	All	Class:	Simple				---	---	---	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Linear						---							
	Precipitation:	24-36 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features																	
240	0.1	Landform:	Elevated plains																
		Elevation:	1100-1300 m																
		Slope:																	
		Gradient:	4 %	Length:	15 m														
		Aspect:	Noninfl.	Class:	Simple														
		Shape, Plan:	Linear																
		Shape, Section:	Linear																
		Precipitation:	24-36 cm	Bedrock: ---															
		Parent Material:	Alluvium, ss, ls																
		Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil											
		Tolerance:	0.5m	20%	50%	0%	---%	---%											
		Natural:	0.5m	20%	50%	0%	10%	40%											
		Current:	0.5m	30%	50%	0%	5%	45%											

Climax Plant Community (canopy cover)							
Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
---	---	Acco2	1.0	---	---	Arte3	1.0
---	---	Flce	5.0	---	---	Boer4	5.0
---	---	Ladi2	15.0	---	---	Bohi2	1.0
---	---	Prgl2	5.0	---	---	Mupo2	1.0
---	---	---	---	---	---	Trmu	1.0
Edaphic/zootic							
---	---	Acco2	1.0	---	---	Arte3	1.0
---	---	Flce	5.0	---	---	Boer4	1.0
---	---	Ladi2	15.0	---	---	Bohi2	0.5
---	---	Prgl2	15.0	---	---	Mupo2	0.5
---	---	---	---	---	---	Trmu	0.5
Fluvial: ---							
Lacustrine: ---							

Map Unit No.	Comp	Landscape Features																	
297	0.1	Landform:	Elevated plains																
		Elevation:	1000-1600 m																
		Slope:																	
		Gradient:	4 %	Length:	15 m														
		Aspect:	Noninfl.	Class:	Simple														
		Shape, Plan:	Linear																
		Shape, Section:	Linear																
		Precipitation:	46-56 cm	Bedrock: ---															
		Parent Material:	Alluvium, ss, sts																
		Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil											
		Tolerance:	1.m	40%	30%	35%	---%	---%											
		Natural:	1.m	40%	30%	35%	20%	25%											
		Current:	1.m	40%	30%	35%	5%	40%											

Climax Plant Community (canopy cover)							
Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic/fire							
Jude2	0.0	Arpu5	10.0	ERIOG	0.1	Ansa	1.0
Juos	0.0	Gawr3	1.0	Erci6	0.1	Bocu	5.0
Pimo	0.0	Nomi	2.0	---	---	Bogr2	10.0
Quar	0.0	Qutu2	30.0	---	---	Bohi2	1.0
Quem	0.1	Rhov	0.1	---	---	---	---
Edaphic/fire/zootic							
Jude2	0.0	Arpu5	10.0	ERIOG	0.1	Ansa	0.1
Juos	0.0	Gawr3	1.0	Erci6	0.1	Bocu	1.0
Pimo	0.0	Nomi	2.0	---	---	Bogr2	1.0
Quar	0.1	Qutu2	30.0	---	---	Bohi2	0.5
Quem	0.1	Rhov	0.1	---	---	---	---
Fluvial: ---							
Lacustrine: ---							

Map Unit No.	Comp	Landscape Features																	
297	0.2	Landform:	Hills																
		Elevation:	1000-1600 m																
		Slope:																	
		Gradient:	25 %	Length:	10 m														
		Aspect:	All	Class:	Simple														
		Shape, Plan:	Linear																
		Shape, Section:	Convex																
		Precipitation:	46-56 cm	Bedrock: ---															
		Parent Material:	Alluvium, ss, sts																
		Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil											
		Tolerance:	1.m	55%	50%	40%	---%	---%											
		Natural:	1.m	55%	50%	40%	20%	15%											
		Current:	1.m	55%	50%	40%	5%	25%											

Climax Plant Community (canopy cover)							
Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	10.0	Arpu5	5.0	ERIOG	0.1	Ansa	1.0
Juos	5.0	Cemo2	5.0	Erci6	0.1	Bocu	2.0
Pimo	5.0	Nomi	2.0	---	---	Bogr2	5.0
Quar	1.0	Qutu2	5.0	---	---	Bohi2	1.0
Quem	0.1	Rhov	2.0	---	---	Stsp3	10.0

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Fluvial: ---							
Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
297	0.3	Landform:	Escarpments	---							
		Elevation:	1000-1600 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	All Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy: Height / OvStr; Surface Components: RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
298	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	900-1000 m	---	---	Beha	3.0	ERIOG	0.1	Anba	1.0
		Slope:		---	---	Cegr	1.0	---	---	Bocu	10.0
		Gradient:	4 % Length: 15 m	---	---	Dawh2	2.0	---	---	Boer4	20.0
		Aspect:	Noninfl. Class: Simple	---	---	Open2	1.0	---	---	Himu2	5.0
		Shape, Plan:	Linear	---	---	Prve	5.0	---	---	Mupo2	4.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	24-36 cm Bedrock: ---	---	---	Beha	3.0	ERIOG	1.0	Anba	1.0
		Parent Material:	Alluvium, ss, sts	---	---	Cegr	1.0	---	---	Bocu	2.0
		Condition	Canopy: Height / OvStr; Surface Components: RkFrg, Littr, VegBA, BSoil	---	---	Dawh2	2.0	---	---	Boer4	5.0
		Tolerance:	0.5m 15% 25% 5% ---% ---%	---	---	Open2	3.0	---	---	Himu2	5.0
		Natural:	0.5m 15% 25% 5% 40% 30%	---	---	Prve	15.0	---	---	Mupo2	2.0
		Current:	0.5m 25% 25% 5% 10% 60%	Fluvial: ---							
				Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
298	0.2	Landform:	Hills	Edaphic							
		Elevation:	900-1000 m	---	---	Beha	3.0	---	---	Bocu	3.0
		Slope:		---	---	Caho3	5.0	---	---	Boer4	4.0
		Gradient:	25 % Length: 10 m	---	---	Dawh2	2.0	---	---	Bohi2	1.0
		Aspect:	North Class: Simple	---	---	Krpag	2.0	---	---	Mupo2	4.0
		Shape, Plan:	Linear	---	---	Prve	5.0	---	---	Stsp3	10.0
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, ls, gr, rh	---	---	---	---	---	---	---	---
		Condition	Canopy: Height / OvStr; Surface Components: RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 20% 65% 5% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 20% 65% 5% 15% 15%	Fluvial: ---							
		Current:	0.5m 20% 65% 5% 5% 25%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
298 0.3	Landform:	Escarpments					---							
	Elevation:	900-1000 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	60 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	All	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	24-36 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condition	Canopy Height	OvStr	Surface Components RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
299 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	400-900 m					Cefl2	0.1	Cegr	1.0	Enfa	0.0	Bocu	2.0
	Slope:						Cegi	1.0	Lypa	1.0	HAPLO	1.0	Boer4	5.0
	Gradient:	4 %	Length:	15 m			Cemi2	4.0	Open2	3.0	---	---	Erin	1.0
	Aspect:	Noninfl.	Class:	Simple			---	---	Prve	1.0	---	---	Himu2	0.1
	Shape, Plan:	Linear					---	---	Sich	5.0	---	---	Mupo2	4.0
	Shape, Section:	Linear					Edaphic/zootic							
	Precipitation:	24-36 cm	Bedrock: ---				Cefl2	0.1	Cegr	1.0	Enfr	0.1	Bocu	0.1
	Parent Material:	Alluvium, ss, sts					Cegi	1.0	Lypa	1.0	HAPLO	1.0	Boer4	1.0
	Condition	Canopy Height	OvStr	Surface Components RkFrg	Littr	VegBA	BSoil	Cemi2	4.0	Open2	3.0	---	---	Erin	1.0
								---	---	Prve	10.0	---	---	Himu2	0.1
	Tolerance:	0.5m	10%	25%	5%	---%	---%	---	---	Sich	3.0	---	---	Mupo2	2.0
	Natural:	0.5m	10%	25%	5%	15%	55%	Fluvial: ---							
	Current:	0.5m	15%	25%	5%	5%	65%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
299 0.2	Landform:	Hills					Edaphic							
	Elevation:	400-900 m					Cefl2	0.1	Cegr	1.0	Enfa	0.0	Bocu	1.0
	Slope:						Cegi	1.0	Ladi2	15.0	---	---	Boer4	10.0
	Gradient:	25 %	Length:	10 m			Cemi2	4.0	Open2	2.0	---	---	Erin2	1.0
	Aspect:	All	Class:	Simple			---	---	Prve	1.0	---	---	Himu2	0.0
	Shape, Plan:	Linear					---	---	Sich	5.0	---	---	Mupo2	4.0
	Shape, Section:	Convex					---							
	Precipitation:	24-36 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	Alluvium, ss, sts, sh					---	---	---	---	---	---	---	---
	Condition	Canopy Height	OvStr	Surface Components RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	10%	70%	0%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	10%	70%	0%	15%	15%	Fluvial: ---							
	Current:	0.5m	10%	70%	0%	5%	25%	Lacustrine: ---							

Map Unit No. Comp

299 0.3

Landscape Features

Landform: Escarpments
Elevation: 400-900 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 24-36 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

300 0.1

Landscape Features

Landform: Escarpments
Elevation: 1000-1700 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 46-56 cm Bedrock: Sandstone
Parent Material: Residuum, ss, ls

Condition	Canopy Height	OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	30%	70%	10%	---%	---%
Natural:	1.m	30%	70%	10%	10%	10%
Current:	1.m	30%	70%	10%	10%	10%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	5.0	Arpr	0.1	Pste3	0.1	Bocu	1.0
Jumo	10.0	Arpu5	5.0	---	---	Bohi2	1.0
Juos	1.0	Nomi	3.0	---	---	Kopy	0.1
Quar	1.0	Qutu2	10.0	---	---	Mulo	0.1
Quem	2.0	---	---	---	---	Pofe	0.1

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

300 0.2

Landscape Features

Landform: Escarpments
Elevation: 2100-2400 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 66-76 cm Bedrock: Sandstone
Parent Material: Residuum, ss, ls

Condition	Canopy Height	OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	75%	65%	70%	---%	---%
Natural:	1.m	75%	65%	70%	10%	5%
Current:	1.m	75%	65%	70%	10%	5%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Pipos	10.0	Arpr	1.0	Ptaq	1.0	Pofe	1.0
Pist3	10.0	Cafe	1.0	---	---	---	---
Psmeg	40.0	Rone	1.0	---	---	---	---
Quar	5.0	---	---	---	---	---	---
Quga	10.0	---	---	---	---	---	---

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features				Climax Plant Community (canopy cover)							
					Tree	%	Shrub	%	Forb	%	Graminoid	%
300 0.3	Landform:	Escarpments			---							
	Elevation:	1000-1700 m			---	---	---	---	---	---	---	---
	Slope:				---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m	---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear			---	---	---	---	---	---	---	---
	Shape, Section:	Linear			---							
	Precipitation:	46-56 cm	Bedrock:	---	---	---	---	---	---	---	---	---
	Parent Material:	,			---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components		---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features				Climax Plant Community (canopy cover)							
					Tree	%	Shrub	%	Forb	%	Graminoid	%
300 0.4	Landform:	Escarpments			---							
	Elevation:	2100-2400 m			---	---	---	---	---	---	---	---
	Slope:				---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m	---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear			---	---	---	---	---	---	---	---
	Shape, Section:	Linear			---							
	Precipitation:	66-76 cm	Bedrock:	---	---	---	---	---	---	---	---	---
	Parent Material:	,			---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components		---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features				Climax Plant Community (canopy cover)							
					Tree	%	Shrub	%	Forb	%	Graminoid	%
301 0.1	Landform:	Elevated plains			Edaphic							
	Elevation:	400-900 m			Cefl2	0.1	Acgr	1.0	Enfa	0.1	Boer4	10.0
	Slope:				Cegi	2.0	Cegr	1.0	---	---	Mupo2	5.0
	Gradient:	4 %	Length:	15 m	Cemi2	5.0	Krpag	1.0	---	---	---	---
	Aspect:	Noninfl.	Class:	Simple	---	---	Prve	1.0	---	---	---	---
	Shape, Plan:	Linear			---	---	Sich	5.0	---	---	---	---
	Shape, Section:	Linear			Edaphic/zootic							
	Precipitation:	24-36 cm	Bedrock:	---	Cefl2	0.1	Acgr	1.0	Enfa	0.1	Boer4	1.0
	Parent Material:	Alluvium, gr			Cegi	2.0	Cegr	1.0	---	---	Mupo2	4.0
	Condit-	Canopy	Surface Components		Cemi2	5.0	Krpag	1.0	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	Prve	5.0	---	---	---	---
	Tolerance:	1.m	15%	30%	5%	---%	---%	---	---	Sich	3.0	---	---	---	---
	Natural:	1.m	15%	30%	5%	15%	50%	Fluvial: ---							
	Current:	1.m	20%	30%	5%	5%	60%	Lacustrine: ---							

Map Unit No. Comp: 301 0.2

Landscape Features

Landform: Hills
Elevation: 400-900 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 24-36 cm Bedrock: Granite
Parent Material: Residuum, gr

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	15%	65%	5%	---%	---%
Natural:	1.m	15%	65%	5%	10%	20%
Current:	1.m	15%	65%	5%	5%	25%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Cefl2	0.1	Fosp2	5.0	Enfa	1.0	Bocu	3.0
Cegi	2.0	Opbi	2.0	---	---	Boer4	5.0
Cemi2	4.0	Open2	2.0	---	---	Bohi2	0.5
---	---	Prve	1.0	---	---	Erin	0.1
---	---	Sich	2.0	---	---	Mupo2	3.0

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp: 303 0.1

Landscape Features

Landform: Hills, mountains
Elevation: 400-900 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 24-36 cm Bedrock: Granite
Parent Material: Residuum, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	0.5m	10%	70%	5%	---%	---%
Natural:	0.5m	10%	70%	5%	5%	20%
Current:	0.5m	10%	70%	5%	5%	20%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Cefl2	0.1	Fosp2	5.0	Enfa	1.0	Bocu	1.0
Cegi	1.0	Opbi	2.0	---	---	Boer4	2.0
Cemi2	2.0	Open2	2.0	---	---	Bohi2	0.5
---	---	Prve	1.0	---	---	Erin	0.1
---	---	Sich	1.0	---	---	Mupo2	3.0

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp: 303 0.2

Landscape Features

Landform: Hills, mountains
Elevation: 1000-1600 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 46-56 cm Bedrock: Granite
Parent Material: Residuum, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	50%	70%	30%	---%	---%
Natural:	1.m	50%	70%	30%	5%	5%
Current:	1.m	50%	70%	30%	5%	5%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic/fire							
Jude2	0.0	Arpu5	10.0	ERIOG	0.1	Scsc	0.1
Jumo	0.0	Cemo2	5.0	Erci6	0.1	Bocu	1.0
Juos	0.0	Gawr3	1.0	---	---	Boer4	0.5
Pimo	0.0	Nomi	2.0	---	---	Bogr2	1.0
Quar	0.0	Qutu2	30.0	---	---	Bohi2	1.0

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
303 0.3	Landform:	Escarpments					---							
	Elevation:	400-900 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	24-36 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
303 0.4	Landform:	Escarpments					---							
	Elevation:	1000-1600 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	46-56 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
305 0.1	Landform:	Valley plains					Topo/edaphic							
	Elevation:	400-900 m					Cefl2	5.0	Acgr	0.1	---	---	Brru2	10.0
	Slope:						Cegi	0.1	Cosp3	0.1	---	---	---	---
	Gradient:	3 %	Length:	15 m			Cere2	0.1	---	---	---	---	---	---
	Aspect:	Noninfl.	Class:	Simple			Prve	10.0	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Concave					---							
	Precipitation:	24-36 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	Alluvium, gr, rh					---	---	---	---	---	---	---	---
	Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	10%	65%	5%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	10%	65%	5%	15%	15%	Fluvial: ---							
	Current:	0.5m	10%	65%	5%	5%	25%	Lacustrine: ---							

Map Unit No. Comp: 305 0.2

Landscape Features

Landform: Valley plains
Elevation: 400-900 m
Slope:
Gradient: 1 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Concave
Precipitation: 24-36 cm Bedrock: ---
Parent Material: Alluvium, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance	0.5m	25%	40%	15%	---%	---%
Natural	0.5m	25%	40%	15%	10%	45%
Current	0.5m	25%	40%	15%	5%	50%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Cefl2	0.1	Basa2	10.0	---	---	Brru2	25.0
Pofr2	0.1	Cepa5	0.1	---	---	---	---
Prve	25.0	Lyph	0.1	---	---	---	---
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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp: 306 0.1

Landscape Features

Landform: Valley plains
Elevation: 900-1000 m
Slope:
Gradient: 3 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Concave
Precipitation: 36-46 cm Bedrock: ---
Parent Material: Alluvium, gr, rh, ss

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance	0.5m	15%	40%	5%	---%	---%
Natural	0.5m	15%	40%	5%	10%	40%
Current	0.5m	15%	40%	5%	5%	45%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Prve	5.0	Acgr	5.0	---	---	Bocu	1.0
---	---	Basa2	10.0	---	---	Boer4	0.1
---	---	Beha	5.0	---	---	---	---
---	---	Chli2	5.0	---	---	---	---
---	---	Cosp3	0.1	---	---	---	---

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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp: 306 0.2

Landscape Features

Landform: Valley plains
Elevation: 900-1000 m
Slope:
Gradient: 1 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Concave
Precipitation: 24-36 cm Bedrock: ---
Parent Material: Alluvium, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance	0.5m	15%	45%	10%	---%	---%
Natural	0.5m	15%	45%	10%	20%	25%
Current	0.5m	15%	45%	10%	10%	35%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Plwr2	0.1	Bagl2	5.0	---	---	Boer4	0.1
Pofr2	10.0	Sago	0.1	---	---	Brru2	10.0
Prve	5.0	---	---	---	---	---	---
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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp	⇐ Landscape Features ⇒	Tree	%	Shrub	%	Forb	%	Graminoid	%
310 0.1	Landform: Elevated plains	Edaphic							
	Elevation: 300-400 m	Cegi	0.1	Acgr	1.0	---	---	---	---
	Slope:	Cemi2	1.0	Frde	10.0	---	---	---	---
	Gradient: 4 % Length: 15 m	Olte	1.0	Ladi2	0.1	---	---	---	---
	Aspect: Noninfl. Class: Simple	---	---	Lypa	0.1	---	---	---	---
	Shape, Plan: Linear	---	---	Prve	0.1	---	---	---	---
	Shape, Section: Linear	---							
	Precipitation: 15-14 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material: Alluvium, gr, rh	---	---	---	---	---	---	---	---
	Condit- ⇐ Canopy ⇒ ⇐ Surface Components ⇒	---	---	---	---	---	---	---	---
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 0.5m 10% 40% 5% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 0.5m 10% 40% 5% 5% 50%	Fluvial: ---							
	Current: 0.5m 10% 40% 0% 5% 55%	Lacustrine: ---							

Map Unit No. Comp	⇐ Landscape Features ⇒	Tree	%	Shrub	%	Forb	%	Graminoid	%
333 0.1	Landform: Elevated plains	Edaphic							
	Elevation: 1500-1800 m	---	---	Cora	15.0	Caco4	0.1	Boer4	3.0
	Slope:	---	---	Open2	2.0	---	---	Bogr2	2.0
	Gradient: 4 % Length: 15 m	---	---	Rhtr	5.0	---	---	Orhy	1.0
	Aspect: Noninfl. Class: Simple	---	---	Yuba	1.0	---	---	Stco4	1.0
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Linear	---							
	Precipitation: 24-36 cm Bedrock: Sandstone	---	---	---	---	---	---	---	---
	Parent Material: Residuum, ss	---	---	---	---	---	---	---	---
	Condit- ⇐ Canopy ⇒ ⇐ Surface Components ⇒	---	---	---	---	---	---	---	---
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 0.5m 15% 50% 15% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 0.5m 15% 50% 15% 10% 25%	Fluvial: ---							
	Current: 0.5m 10% 50% 5% 5% 40%	Lacustrine: ---							

Map Unit No. Comp	⇐ Landscape Features ⇒	Tree	%	Shrub	%	Forb	%	Graminoid	%
333 0.2	Landform: Escarpments	---							
	Elevation: 1500-1800 m	---	---	---	---	---	---	---	---
	Slope:	---	---	---	---	---	---	---	---
	Gradient: 25 % Length: 10 m	---	---	---	---	---	---	---	---
	Aspect: All Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Linear	---							
	Precipitation: 24-36 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material: ,	---	---	---	---	---	---	---	---
	Condit- ⇐ Canopy ⇒ ⇐ Surface Components ⇒	---	---	---	---	---	---	---	---
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp

349 0.1

Landscape Features

Landform: Hills, mountains
Elevation: 1900-2200 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 36-46 cm Bedrock: Sandstone
Parent Material: Residuum, ss, sh, ls

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	25%	65%	20%	---%	---%
Natural:	1.m	25%	65%	20%	10%	10%
Current:	1.m	25%	65%	20%	10%	10%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	10.0	Cemo2	0.1	---	---	Bogr2	5.0
Pied	15.0	---	---	---	---	Pofe	0.1
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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

349 0.2

Landscape Features

Landform: Mountains
Elevation: 2500-3000 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 60-70 cm Bedrock: Sandstone
Parent Material: Residuum, ss, sh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	80%	65%	90%	---%	---%
Natural:	1.m	80%	65%	90%	10%	0%
Current:	1.m	80%	65%	90%	10%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
Potr5	10.0	Buga	5.0	Geca3	0.1	---	---
Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

349 0.3

Landscape Features

Landform: Escarpments
Elevation: 1900-2200 m
Slope:
Gradient: 100 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 36-46 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: ---
Lacustrine: ---

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
349	0.4	Landform:	Escarpments	---							
		Elevation:	2500-3000 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	North Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
351	0.1	Landform:	Hills, mountains	Edaphic							
		Elevation:	2200-2500 m	Pipos	60.0	Aruv	15.0	Acmil	5.0	Scsc2	0.1
		Slope:		---	---	Bere	0.1	Anro2	0.1	Bltr	0.1
		Gradient:	25 % Length: 10 m	---	---	Cefe	0.1	---	---	Fear2	0.1
		Aspect:	North Class: Simple	---	---	Quga	5.0	---	---	Kopy	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Mumo	2.0
		Shape, Section:	Convex	---							
		Precipitation:	46-60 cm Bedrock: Granite	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, gr	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 60% 50% 50% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 60% 50% 50% 10% 5%	Fluvial: ---							
		Current:	3.m 60% 50% 50% 10% 5%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
352	0.1	Landform:	Hills, mountains	Edaphic							
		Elevation:	1900-2200 m	Jumo	5.0	---	---	Caoc4	1.0	Agsc	1.0
		Slope:		Pied	15.0	---	---	Erfl	0.1	Bocu	0.1
		Gradient:	60 % Length: 5 m	---	---	---	---	Erme2	0.1	Bogr2	10.0
		Aspect:	South Class: Simple	---	---	---	---	---	---	Bohi2	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	1.0
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: Granite	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, gr, rh	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 25% 65% 25% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 25% 65% 25% 15% 15%	Fluvial: ---							
		Current:	1.m 25% 65% 25% 10% 20%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
352 0.2	Landform: Mountains	Edaphic							
	Elevation: 2500-3000 m	Abco	30.0	Bere	3.0	Alge2	0.1	Bran	0.1
	Slope:	Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient: 60 % Length: 5 m	Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect: North Class: Simple	Potr5	10.0	Quga	1.0	Geca3	0.1	---	---
	Shape, Plan: Linear	Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section: Convex	---							
	Precipitation: 60-70 cm Bedrock: Granite	---	---	---	---	---	---	---	---
	Parent Material: Residuum, gr, rh	---	---	---	---	---	---	---	---
	Condit- «= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 1.m 90% 65% 90% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 1.m 90% 65% 90% 10% 0%	Fluvial: ---							
	Current: 1.m 90% 65% 90% 10% 0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
352 0.3	Landform: Escarpments	---							
	Elevation: 1900-2200 m	---	---	---	---	---	---	---	---
	Slope:	---	---	---	---	---	---	---	---
	Gradient: 100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect: South Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Linear	---							
	Precipitation: 36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material: ,	---	---	---	---	---	---	---	---
	Condit- «= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: --- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
352 0.4	Landform: Escarpments	---							
	Elevation: 2500-3000 m	---	---	---	---	---	---	---	---
	Slope:	---	---	---	---	---	---	---	---
	Gradient: 100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect: North Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Linear	---							
	Precipitation: 60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material: ,	---	---	---	---	---	---	---	---
	Condit- «= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: --- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
355 0.1	Landform:	Elevated plains	Edaphic							
	Elevation:	1900-2200 m	Jumo	5.0	Artr2	15.0	Caoc4	1.0	Bocu	4.0
	Slope:		Juos	10.0	---	---	Erfl	0.1	Bogr2	10.0
	Gradient:	4 % Length: 15 m	Pied	15.0	---	---	Erme2	0.1	Mupu2	5.0
	Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Sihy	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	Spcr	0.1
	Shape, Section:	Linear	---							
	Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	Eolian, ss	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m 40% 0% 30% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	1.m 40% 0% 30% 15% 55%	Fluvial: ---							
	Current:	1.m 40% 0% 30% 10% 60%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
355 0.2	Landform:	Elevated plains	Edaphic							
	Elevation:	1900-2200 m	Jumo	10.0	Artr2	10.0	Caoc4	1.0	Bocu	4.0
	Slope:		Juos	0.0	Putr2	2.0	Erfl	0.1	Bogr2	20.0
	Gradient:	4 % Length: 15 m	Pied	20.0	---	---	Erme2	1.0	Kopy	0.1
	Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Pofe	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	Spcr	0.1
	Shape, Section:	Linear	Edaphic/zootic							
	Precipitation:	36-46 cm Bedrock: Basalt	Jumo	10.0	Artr2	10.0	Caoc4	1.0	Bocu	2.0
	Parent Material:	Residuum, ci	Juos	0.0	Gusa2	10.0	Erfl	0.1	Bogr2	10.0
	Condit-	Canopy / Surface Components	Pied	20.0	Putr2	2.0	Erme2	1.0	Kopy	0.1
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Pofe	0.1
	Tolerance:	1.m 40% 10% 35% ---% ---%	---	---	---	---	---	---	Spcr	0.1
	Natural:	1.m 40% 10% 35% 25% 30%	Fluvial: ---							
	Current:	1.m 40% 10% 35% 15% 40%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
356 0.1	Landform:	Elevated plains	Edaphic							
	Elevation:	1900-2200 m	Jumo	10.0	Arfi2	5.0	---	---	Anha	0.1
	Slope:		Pied	20.0	---	---	---	---	Scsc2	0.1
	Gradient:	4 % Length: 15 m	---	---	---	---	---	---	Bogr2	0.5
	Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Bohi2	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	Mupu2	1.0
	Shape, Section:	Linear	---							
	Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	Eolian, ss	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m 35% 10% 25% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	1.m 35% 10% 25% 10% 70%	Fluvial: ---							
	Current:	1.m 35% 10% 25% 5% 75%	Lacustrine: ---							

Map Unit No. Comp: 356 0.2

Landscape Features:

Landform:	Elevated plains
Elevation:	1900-2200 m
Slope:	
Gradient:	4 % Length: 15 m
Aspect:	Noninfl. Class: Simple
Shape, Plan:	Linear
Shape, Section:	Linear
Precipitation:	36-46 cm Bedrock: Limestone
Parent Material:	Residuum, ls, ss

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	35%	10%	30%	---%	---%
Natural:	1.m	35%	10%	30%	30%	30%
Current:	1.m	35%	10%	30%	15%	45%

Climax Plant Community (canopy cover):

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	15.0	---	---	Caoc4	1.0	Agsm	0.1
Pied	20.0	---	---	Erfl	0.1	Bocu	5.0
---	---	---	---	Ermi2	0.1	Bogr2	20.0
---	---	---	---	---	---	Hija	0.5
---	---	---	---	---	---	Pofe	0.5
Edaphic/zootic							
Jumo	15.0	Gusa2	15.0	Caoc4	1.0	Agsm	0.1
Pied	20.0	Hyri	5.0	Erfl	0.1	Bocu	2.0
---	---	---	---	Ermi2	0.1	Bogr2	10.0
---	---	---	---	---	---	Hija	0.5
---	---	---	---	---	---	Pofe	0.1
Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp: 370 0.1

Landscape Features:

Landform:	Valley plains
Elevation:	1700-2700 m
Slope:	
Gradient:	3 % Length: 15 m
Aspect:	Noninfl. Class: Simple
Shape, Plan:	Linear
Shape, Section:	Convex
Precipitation:	36-46 cm Bedrock: ---
Parent Material:	Alluvium, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	65%	40%	---%	---%
Natural:	1.m	40%	65%	40%	15%	5%
Current:	1.m	40%	65%	40%	5%	10%

Climax Plant Community (canopy cover):

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Jumo	0.0	Cere	3.0	---	---	Bocu	5.0
Juos	5.0	Mibi	10.0	---	---	Muem	0.1
Pidi	1.0	Nomi	0.1	---	---	Spcr	0.1
Quar	1.0	Rhtr	0.5	---	---	---	---
Quem	20.0	---	---	---	---	---	---

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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp: 370 0.2

Landscape Features:

Landform:	Valley plains
Elevation:	1700-2100 m
Slope:	
Gradient:	3 % Length: 15 m
Aspect:	Noninfl. Class: Simple
Shape, Plan:	Linear
Shape, Section:	Linear
Precipitation:	36-46 cm Bedrock: ---
Parent Material:	Alluvium, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	25%	40%	35%	---%	---%
Natural:	1.m	25%	40%	35%	20%	15%
Current:	1.m	25%	40%	25%	10%	25%

Climax Plant Community (canopy cover):

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Acne2	2.0	Opsp2	0.1	---	---	Bogr2	2.0
Chli2	5.0	Rhtr	2.0	---	---	Bohi2	3.0
Jumo	2.0	---	---	---	---	Carex	1.0
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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
371 0.1	Landform:	Valley plains					Topo/edaphic							
	Elevation:	1700-2100 m					Jumo	0.0	Cere	3.0	---	---	Bocu	1.0
	Slope:						Juos	5.0	Mibi	10.0	---	---	Bogr2	2.0
	Gradient:	3 %	Length:	15 m			Pidi	1.0	Nomi	0.1	---	---	Muem	0.1
	Aspect:	Noninfl.	Class:	Simple			Quar	1.0	Rhtr	2.0	---	---	Spcr	0.1
	Shape, Plan:	Linear					Quem	20.0	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	Alluvium, gr, rh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	40%	65%	40%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	40%	65%	40%	15%	5%	Fluvial: ---							
	Current:	1.m	40%	65%	40%	5%	10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
371 0.2	Landform:	Valley plains					Topo/edaphic							
	Elevation:	1700-2100 m					Pofr2	5.0	Saam2	5.0	---	---	Bocu	1.0
	Slope:						Saam2	20.0	Saex	1.0	---	---	Bogr2	1.0
	Gradient:	1 %	Length:	15 m			---	---	Sago	5.0	---	---	Bohi2	2.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	CAREX	1.0
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	Alluvium, gr, rh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	25%	40%	25%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	25%	40%	25%	20%	15%	Fluvial: ---							
	Current:	1.m	25%	40%	25%	10%	25%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
380 0.1	Landform:	Escarpments					Edaphic							
	Elevation:	1300-1700 m					---	---	Fosp2	5.0	---	---	Anci	1.0
	Slope:						---	---	Mibi3	1.0	---	---	Bocu	2.0
	Gradient:	60 %	Length:	5 m			---	---	Nomi	0.1	---	---	Bohi2	1.0
	Aspect:	South	Class:	Simple			---	---	Prgl2	1.0	---	---	Erin	1.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Muem	0.0
	Shape, Section:	Linear					---							
	Precipitation:	36-46 cm	Bedrock:	Limestone			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ls					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	5%	80%	0%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	5%	80%	0%	5%	15%	Fluvial: ---							
	Current:	0.5m	5%	80%	0%	5%	15%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
380 0.2	Landform:	Escarpments					Edaphic							
	Elevation:	1700-2200 m					Jude2	5.0	Cemop	15.0	---	---	Bocu	0.1
	Slope:						Juos	5.0	Dawh2	2.0	---	---	Bogr2	2.0
	Gradient:	60 %	Length:	5 m			Pied	3.0	Nomi2	1.0	---	---	Bohi2	0.1
	Aspect:	North	Class:	Simple			Qugr3	1.0	Open2	1.0	---	---	Stsp3	2.0
	Shape, Plan:	Linear					---	---	Rhtr	0.5	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	46-56 cm	Bedrock:	Limestone			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ls					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	30%	65%	20%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	30%	65%	20%	5%	10%	Fluvial: ---							
	Current:	1.m	30%	65%	20%	5%	10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
380 0.3	Landform:	Escarpments					---							
	Elevation:	1300-1700 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
380 0.4	Landform:	Escarpments					---							
	Elevation:	1700-2200 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	46-56 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
381	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1700-2200 m	Jude2	2.0	Arpu5	5.0	---	---	Anci	3.0
		Slope:		Pidi	3.0	Gawr3	1.0	---	---	Arte3	3.0
		Gradient:	4 % Length: 15 m	Quem	4.0	Mibi3	2.0	---	---	Bocu	5.0
		Aspect:	All Class: Simple	Quar	1.0	Nomi	0.1	---	---	Bohi2	4.0
		Shape, Plan:	Linear	Quto2	20.0	Rhchi	4.0	---	---	Erin	3.0
		Shape, Section:	Linear	---							
		Precipitation:	46-56 cm Bedrock: Rhyolite	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, rh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 30% 35% 25% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 30% 35% 25% 15% 45%	Fluvial: ---							
		Current:	1.m 30% 35% 25% 10% 50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
381	0.2	Landform:	Escarpments	---							
		Elevation:	1700-2100 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	25 % Length: 10 m	---	---	---	---	---	---	---	---
		Aspect:	All Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
390	0.1	Landform:	Hills	Edaphic							
		Elevation:	1700-2100 m	Jude2	20.0	Cemop	1.0	---	---	Bocu	0.1
		Slope:		Juao	5.0	Nomi	0.1	---	---	Bogr2	1.0
		Gradient:	25 % Length: 10 m	Pied	5.0	---	---	---	---	Bohi2	0.1
		Aspect:	South Class: Simple	Qugr3	5.0	---	---	---	---	Stco4	3.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	1.0
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, alt ash	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 30% 50% 25% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 30% 50% 25% 5% 15%	Fluvial: ---							
		Current:	1.m 30% 50% 25% 5% 15%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
390	0.2	Landform:	Hills	Edaphic							
		Elevation:	2500-2700 m	Pipos	10.0	Quga	1.0	---	---	Bran	0.0
		Slope:		Pist3	2.0	Rone	1.0	---	---	Fear2	1.0
		Gradient:	25 % Length: 10 m	Psmeg	40.0	---	---	---	---	Mumo	1.0
		Aspect:	North Class: Simple	Quga	1.0	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, alt ash	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 60% 50% 50% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 60% 50% 50% 5% 10%	Fluvial: ---							
		Current:	1.m 60% 50% 50% 5% 10%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
390	0.3	Landform:	Escarpments	---							
		Elevation:	1700-2100 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	60 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	South Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
390	0.4	Landform:	Escarpments	---							
		Elevation:	2500-2700 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	60 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	North Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
415	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1700-1900 m	---	---	Artr2	25.0	Erfl	0.1	Agsm	5.0
		Slope:		---	---	Atca2	2.0	---	---	Bocu	5.0
		Gradient:	4 % Length: 15 m	---	---	Eula5	5.0	---	---	Boer4	5.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Bogr2	15.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Stco4	5.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	24-36 cm Bedrock: Limestone	---	---	Artr2	25.0	Erfl	0.1	Agsm	2.0
		Parent Material:	Residuum, ls, ss	---	---	Atca2	2.0	---	---	Bocu	2.0
		Condit-	«= Canopy =» «= Surface Components =»	---	---	Eula5	3.0	---	---	Boer4	1.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	Gusa2	10.0	---	---	Bogr2	5.0
		Tolerance:	0.5m 30% 10% 15% ---% ---%	---	---	---	---	---	---	Stco4	2.0
		Natural:	0.5m 30% 10% 15% 35% 40%	Fluvial: ---							
		Current:	0.5m 30% 10% 15% 25% 50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
415	0.2	Landform:	Elevated plains	Edaphic							
		Elevation:	1700-1900 m	---	---	Artr2	15.0	Erfl	0.1	Agsm	5.0
		Slope:		---	---	Atca2	1.0	---	---	Bocu	5.0
		Gradient:	4 % Length: 15 m	---	---	Eula5	5.0	---	---	Boer4	5.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Bogr2	15.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Stco4	15.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	24-36 cm Bedrock: Limestone	---	---	Artr2	15.0	Erfl	0.0	Agsm	5.0
		Parent Material:	Residuum, ls, ss	---	---	Atca2	1.0	---	---	Bocu	2.0
		Condit-	«= Canopy =» «= Surface Components =»	---	---	Eula5	3.0	---	---	Boer4	3.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	Gusa2	15.0	---	---	Bogr2	10.0
		Tolerance:	0.5m 15% 10% 10% ---% ---%	---	---	---	---	---	---	Stco4	5.0
		Natural:	0.5m 15% 10% 10% 45% 35%	Fluvial: ---							
		Current:	0.5m 15% 10% 10% 15% 55%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
420	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1900-2200 m	Jumo	5.0	Artr2	5.0	Caoc4	0.1	Bocu	5.0
		Slope:		Juos	15.0	Comes	5.0	Erfl	0.1	Bogr2	10.0
		Gradient:	4 % Length: 15 m	Pied	10.0	Eula5	2.0	Erme2	0.1	Orhy	0.1
		Aspect:	Noninfl. Class: Simple	---	---	Putr2	1.0	---	---	Pofe	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Stco4	10.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	34-46 cm Bedrock: Limestone	Jumo	5.0	Artr2	5.0	Caoc4	0.1	Bocu	2.0
		Parent Material:	Residuum, ls	Juos	15.0	Comes	3.0	Erfl	0.1	Bogr2	5.0
		Condit-	«= Canopy =» «= Surface Components =»	Pied	10.0	Eula5	1.0	Erme2	0.1	Ohry	0.1
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	Gusa2	10.0	---	---	Pofe	0.1
		Tolerance:	1.m 40% 0% 35% ---% ---%	---	---	Putr2	0.5	---	---	Stco4	2.0
		Natural:	1.m 40% 0% 35% 25% 45%	Fluvial: ---							
		Current:	1.m 40% 0% 35% 15% 55%	Lacustrine: ---							

Map Unit No. Comp

420 0.2

Landform: Elevated plains
Elevation: 1900-2200 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 34-46 cm Bedrock: Limestone
Parent Material: Residuum, ls

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	5%	30%	---%	---%
Natural:	1.m	40%	5%	30%	35%	30%
Current:	1.m	40%	5%	30%	15%	50%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	5.0	Artr2	5.0	Caoc4	1.0	Agsm	1.0
Juos	15.0	Comes	5.0	Erfl	0.1	Bocu	5.0
Pied	20.0	Eula5	3.0	Erme2	0.1	Bogr2	10.0
---	---	Putr2	1.0	---	---	Pofe	0.1
---	---	---	---	---	---	Stco4	15.0
Edaphic/zootic							
Jumo	5.0	Artr2	5.0	Caco4	1.0	Agsm	0.5
Juos	15.0	Comes	3.0	Erfl	0.1	Bocu	2.0
Pied	20.0	Eula5	1.0	Erme2	0.1	Bogr2	5.0
---	---	Gusa2	10.0	---	---	Pofe	0.1
---	---	Putr2	0.5	---	---	Stco4	5.0

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

421 0.1

Landform: Hills
Elevation: 1900-2200 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 34-46 cm Bedrock: ---
Parent Material: Alluvium, ss, sts

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	25%	30%	---%	---%
Natural:	1.m	40%	25%	30%	35%	10%
Current:	1.m	40%	25%	30%	15%	40%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	5.0	Artr2	5.0	Caoc4	1.0	Agsm	1.0
Juos	15.0	Comes	1.0	Erfl	0.0	Bocu	3.0
Pied	20.0	Eula5	1.0	Erme2	0.0	Bogr2	5.0
---	---	Putr2	1.0	---	---	Pofe	0.1
---	---	---	---	---	---	Stco4	15.0

---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

421 0.2

Landform: Elevated plains
Elevation: 1900-2200 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 34-46 cm Bedrock: ---
Parent Material: Alluvium, ss, sh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	10%	35%	---%	---%
Natural:	1.m	40%	10%	35%	25%	30%
Current:	1.m	40%	10%	35%	15%	40%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	5.0	Artr2	10.0	Caoc4	1.0	Bocu	4.0
Juos	10.0	Putr2	2.0	Erfl	0.1	Bogr2	20.0
Pied	20.0	---	---	Erme2	1.0	Kopy	0.1
---	---	---	---	---	---	Pofe	0.1
---	---	---	---	---	---	Spcr	0.1
Edaphic/zootic							
Jumo	5.0	Artr2	10.0	Caco4	1.0	Bocu	2.0
Juos	10.0	Gusa2	10.0	Erfl	0.1	Bogr2	10.0
Pied	20.0	Putr2	1.0	Erme2	1.0	Kopy	0.1
---	---	---	---	---	---	Pofe	0.1
---	---	---	---	---	---	Spcr	0.1

Fluvial: ---
Lacustrine: ---

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
421	0.3	Landform:	Escarpments	---							
		Elevation:	1900-2200 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	60 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	All Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	34-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
422	0.1	Landform:	Hills	Edaphic							
		Elevation:	1700-1900 m	---	---	Artr2	10.0	Erfl	0.1	Agsm	5.0
		Slope:		---	---	Atca2	1.0	---	---	Bocu	2.0
		Gradient:	60 % Length: 5 m	---	---	Eula5	1.0	---	---	Boer4	3.0
		Aspect:	South Class: Simple	---	---	---	---	---	---	Stco4	10.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	24-36 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 15% 65% 10% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 15% 65% 10% 20% 10%	Fluvial: ---							
		Current:	0.5m 15% 65% 10% 15% 15%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
422	0.2	Landform:	Hills	Edaphic							
		Elevation:	1900-2300 m	Juno	5.0	Artr2	5.0	Caoc4	1.0	Agsm	1.0
		Slope:		Juos	10.0	Comes	1.0	Erfl	0.0	Bocu	1.0
		Gradient:	60 % Length: 5 m	Pied	10.0	Eula5	1.0	Erme2	0.0	Bogr2	2.0
		Aspect:	North Class: Simple	---	---	Putr2	1.0	---	---	Pofe	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Stco4	5.0
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 45% 65% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 45% 65% 30% 10% 10%	Fluvial: ---							
		Current:	1.m 45% 65% 30% 10% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
422 0.3	Landform:	Escarpments					---							
	Elevation:	1700-1900 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	24-36 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
422 0.4	Landform:	Escarpments					---							
	Elevation:	1900-2300 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	36-46 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
424 0.1	Landform:	Hills					Edaphic							
	Elevation:	900-1000 m					---	---	Beha	2.0	---	---	Bocu	3.0
	Slope:						---	---	Caho3	15.0	---	---	Boer4	4.0
	Gradient:	25 %	Length:	10 m			---	---	Dawh2	1.0	---	---	Bohi2	1.0
	Aspect:	All	Class:	Simple			---	---	Krpag	2.0	---	---	Mupo2	4.0
	Shape, Plan:	Linear					---	---	Prve	1.0	---	---	Stsp3	10.0
	Shape, Section:	Convex					---							
	Precipitation:	36-46 cm	Bedrock: Limestone				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ls					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	20%	65%	5%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	20%	65%	5%	15%	15%	Fluvial: ---							
	Current:	0.5m	20%	65%	5%	5%	25%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
424 0.2	Landform:	Elevated plains					Edaphic							
	Elevation:	400-900 m					Cefl2	0.0	Cegr	1.0	Enfa	0.0	Bocu	0.0
	Slope:						Cemi2	4.0	Ladi2	15.0	---	---	Boer4	0.0
	Gradient:	4 %	Length:	15 m			Cegi	1.0	Open2	2.0	---	---	Erin	1.0
	Aspect:	Noninfl.	Class:	Simple			---	---	Prve	1.0	---	---	Himu2	0.0
	Shape, Plan:	Linear					---	---	Sich	3.0	---	---	Mupo2	4.0
	Shape, Section:	Linear					---							
	Precipitation:	24-36 cm	Bedrock:	Limestone			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ls, sh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	25%	50%	0%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	25%	50%	0%	15%	35%	Fluvial: ---							
	Current:	0.5m	25%	50%	0%	5%	45%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
424 0.3	Landform:	Escarpments					---							
	Elevation:	900-1000 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	60 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	All	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
424 0.4	Landform:	Escarpments					---							
	Elevation:	400-900 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	60 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	All	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	24-36 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
427	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1300-1700 m	---	---	Dawh2	1.0	---	---	Anci	2.0
		Slope:		---	---	Mibi3	1.0	---	---	Bocu	10.0
		Gradient:	4 % Length: 15 m	---	---	Nomi	1.0	---	---	Bohi2	10.0
		Aspect:	Noninfl. Class: Simple	---	---	Open2	1.0	---	---	Erin	10.0
		Shape, Plan:	Linear	---	---	Prgl2	5.0	---	---	Muem	1.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	36-46 cm Bedrock: ---	---	---	Gusa2	15.0	---	---	Anci	1.0
		Parent Material:	Alluvium, ss, ls, gr, rh	---	---	Mibi3	5.0	---	---	Bocu	5.0
		Condit-	Canopy / Surface Components	---	---	Nomi	2.0	---	---	Bohi2	5.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	Open2	3.0	---	---	Erin	5.0
		Tolerance:	0.5m 15% 25% 5% ---% ---%	---	---	Prgl2	15.0	---	---	Muem	0.5
		Natural:	0.5m 15% 25% 5% 20% 50%	Fluvial: ---							
		Current:	0.5m 25% 25% 5% 5% 65%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
427	0.2	Landform:	Hills	Edaphic							
		Elevation:	1700-1900 m	Jude2	5.0	Cemop	5.0	---	---	Anci	1.0
		Slope:		Jumo	1.0	Dawh2	0.1	---	---	Bocu	5.0
		Gradient:	25 % Length: 10 m	Pied	5.0	Nomi	0.1	---	---	Bogr2	1.0
		Aspect:	North Class: Simple	Qugr3	5.0	Rhtr	3.0	---	---	Bohi2	2.0
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, rh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 50% 40% 40% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 50% 40% 40% 10% 20%	Fluvial: ---							
		Current:	1.m 50% 40% 40% 5% 25%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
427	0.3	Landform:	Escarpments	---							
		Elevation:	1300-1700 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	60 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	South Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
427 0.4	Landform:	Escarpments	---							
	Elevation:	1700-1900 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	60 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect:	North Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Convex	---							
	Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
428 0.1	Landform:	Elevated plains	Edaphic							
	Elevation:	900-1000 m	---	---	Beha	3.0	---	---	Bocu	3.0
	Slope:		---	---	Caho3	15.0	---	---	Boer4	4.0
	Gradient:	4 % Length: 15 m	---	---	Dawh2	2.0	---	---	Bohi2	1.0
	Aspect:	All Class: Simple	---	---	Krpag	2.0	---	---	Lyph	1.0
	Shape, Plan:	Linear	---	---	Prve	5.0	---	---	Mupo2	4.0
	Shape, Section:	Linear	Edaphic/zootic							
	Precipitation:	36-46 cm Bedrock: ---	---	---	Beha	3.0	---	---	Bocu	1.0
	Parent Material:	Alluvium, ss, ls	---	---	Cegr	1.0	---	---	Boer4	2.0
	Condit-	Canopy / Surface Components	---	---	Dawh2	2.0	---	---	Bohi2	0.5
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	Krpag	2.0	---	---	Lyph	0.5
	Tolerance:	0.5m 10% 15% 5% ---% ---%	---	---	Prve	15.0	---	---	Mupo2	2.0
	Natural:	0.5m 10% 15% 5% 10% 45%	Fluvial: ---							
	Current:	0.5m 20% 15% 5% 5% 55%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
429 0.1	Landform:	Elevated plains	Edaphic							
	Elevation:	1900-2200 m	Jumo	10.0	Eula5	5.0	---	---	Agsm	4.0
	Slope:		Pied	20.0	---	---	---	---	Bocu	3.0
	Gradient:	4 % Length: 15 m	---	---	---	---	---	---	Bogr2	15.0
	Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Pofe	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	Stne2	10.0
	Shape, Section:	Linear	Edaphic/zootic							
	Precipitation:	36-46 cm Bedrock: ---	Jumo	10.0	Eula5	2.0	---	---	Agsm	2.0
	Parent Material:	Alluvium, rh	Pied	20.0	Gusa2	15.0	---	---	Bocu	1.0
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	Bogr2	10.0
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Pofe	0.1
	Tolerance:	1.m 30% 0% 20% ---% ---%	---	---	---	---	---	---	Stne2	5.0
	Natural:	1.m 30% 0% 20% 25% 55%	Fluvial: ---							
	Current:	1.m 30% 0% 20% 10% 70%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
429	0.2	Landform:	Valley plains	Topo/edaphic							
		Elevation:	1900-2200 m	Jumo	0.0	Artr2	5.0	Caoc4	1.0	Agsm	0.1
		Slope:		Juos	0.0	Chna2	15.0	Erfl	0.1	Bocu	4.0
		Gradient:	3 % Length: 15 m	Pied	0.0	Hyri	0.1	Erme2	1.0	Bogr2	20.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Kopy	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Orhy	0.1
		Shape, Section:	Concave	Topo/edaphic/zootic							
		Precipitation:	36-46 cm Bedrock: ---	Jumo	0.0	Artr2	5.0	Caoc4	1.0	Agsm	2.0
		Parent Material:	Alluvium, alt ash	Juos	0.0	Chna2	25.0	Erfl	0.0	Bocu	1.0
		Condit-	Canopy / Surface Components	Pied	0.0	Hyri	2.0	Erme2	1.0	Bogr2	10.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Kopy	0.0
		Tolerance:	1.m 25% 0% 10% ---% ---%	---	---	---	---	---	---	Orhy	0.1
		Natural:	1.m 25% 0% 10% 30% 60%	Fluvial: ---							
		Current:	1.m 25% 0% 10% 15% 75%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
430	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	1900-2200 m	Jumo	10.0	---	---	---	---	Agsm	1.0
		Slope:		Pied	20.0	---	---	---	---	Bocu	5.0
		Gradient:	4 % Length: 15 m	---	---	---	---	---	---	Bogr2	25.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Pofe	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	1.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	36-46 cm Bedrock: ---	Jumo	10.0	Gusa2	10.0	---	---	Agsm	2.0
		Parent Material:	Alluvium, rh	Pied	20.0	Hyri	2.0	---	---	Bocu	1.0
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	Bogr2	10.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Pofe	0.1
		Tolerance:	1.m 30% 0% 20% ---% ---%	---	---	---	---	---	---	Sihy	0.1
		Natural:	1.m 30% 0% 20% 45% 35%	Fluvial: ---							
		Current:	1.m 30% 0% 20% 10% 70%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
431	0.1	Landform:	Hills	Edaphic							
		Elevation:	1900-2200 m	Jumo	10.0	---	---	---	---	Agsm	0.1
		Slope:		Pied	20.0	---	---	---	---	Bocu	5.0
		Gradient:	25 % Length: 10 m	---	---	---	---	---	---	Bogr2	20.0
		Aspect:	All Class: Simple	---	---	---	---	---	---	Pofe	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	1.0
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, rh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 30% 10% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 30% 10% 30% 35% 25%	Fluvial: ---							
		Current:	1.m 30% 10% 30% 10% 45%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
432 0.1	Landform: Hills	Edaphic							
	Elevation: 1900-2200 m	Jumo	10.0	Atca2	1.0	Erfl	0.0	Agsm	0.1
	Slope:	Pied	15.0	Cemo2	0.0	---	---	Bocu	4.0
	Gradient: 25 % Length: 10 m	---	---	Eula5	1.0	---	---	Bogr2	10.0
	Aspect: All Class: Simple	---	---	---	---	---	---	Pofe	0.1
	Shape, Plan: Linear	---	---	---	---	---	---	Stne2	15.0
	Shape, Section: Convex	---							
	Precipitation: 36-46 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
	Parent Material: Residuum, ls	---	---	---	---	---	---	---	---
	Condit- Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 1.m 35% 40% 30% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 1.m 35% 40% 30% 25% 15%	Fluvial: ---							
	Current: 1.m 35% 40% 30% 15% 25%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
433 0.1	Landform: Elevated plains	Edaphic							
	Elevation: 1900-2200 m	Jumo	10.0	Eula5	1.0	---	---	Bogr2	5.0
	Slope:	Pied	15.0	---	---	---	---	Sihy	1.0
	Gradient: 4 % Length: 15 m	---	---	---	---	---	---	Stne2	20.0
	Aspect: Noninfl. Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Linear	Edaphic/zootic							
	Precipitation: 36-46 cm Bedrock: Limestone	Jumo	10.0	Eula5	0.5	---	---	Bogr2	2.0
	Parent Material: Residuum, ls	Pied	15.0	Gusa2	10.0	---	---	Sihy	0.5
	Condit- Canopy / Surface Components	---	---	Hyri	2.0	---	---	Stne2	10.0
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 1.m 30% 30% 25% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 1.m 30% 30% 25% 25% 30%	Fluvial: ---							
	Current: 1.m 30% 30% 25% 15% 40%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
433 0.2	Landform: Elevated plains	Edaphic							
	Elevation: 1900-2200 m	Jumo	10.0	Eula5	5.0	---	---	Bogr2	5.0
	Slope:	Pied	15.0	---	---	---	---	Sihy	1.0
	Gradient: 4 % Length: 15 m	---	---	---	---	---	---	Stne2	20.0
	Aspect: Noninfl. Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Linear	Edaphic/zootic							
	Precipitation: 36-46 cm Bedrock: Limestone	Jumo	10.0	Eula5	1.0	---	---	Bogr2	3.0
	Parent Material: Residuum, ls	Pied	---	Gusa2	10.0	---	---	Sihy	0.5
	Condit- Canopy / Surface Components	---	---	Hyri	1.0	---	---	Stne2	10.0
	ion Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 1.m 30% 30% 25% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 1.m 30% 30% 25% 25% 30%	Fluvial: ---							
	Current: 1.m 30% 30% 25% 15% 40%	Lacustrine: ---							

Map Unit No. Comp

434 0.1

Landscape Features

Landform: Hills
Elevation: 1900-2200 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 36-46 cm Bedrock: ---
Parent Material: Alluvium, ss, sts

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	35%	40%	30%	---%	---%
Natural:	1.m	35%	40%	30%	25%	20%
Current:	1.m	35%	40%	30%	15%	30%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	10.0	Atca2	1.0	Erfl	0.1	Agsm	0.1
Pied	15.0	Cemo2	0.1	---	---	Bocu	4.0
---	---	Eula5	1.0	---	---	Bogr2	5.0
---	---	Putr2	1.0	---	---	Pofe	1.0
---	---	---	---	---	---	Stne2	15.0

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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp

434 0.2

Landscape Features

Landform: Elevated plains
Elevation: 1900-2200 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 36-46 cm Bedrock: ---
Parent Material: Alluvium, ss, sts

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	35%	10%	30%	---%	---%
Natural:	2.m	35%	10%	30%	30%	30%
Current:	2.m	35%	10%	30%	15%	45%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	15.0	---	---	Caoc4	1.0	Agsm	0.1
Pied	20.0	---	---	Erfl	0.1	Bocu	5.0
---	---	---	---	Erme2	0.1	Bogr2	20.0
---	---	---	---	---	---	Hija	0.1
---	---	---	---	---	---	Pofe	0.1
Edaphic/zootic							
Jumo	15.0	Gusa2	10.0	Caoc4	1.0	Agsm	0.1
Pied	20.0	Hyri	2.0	Erfl	0.1	Bocu	3.0
---	---	---	---	Erme2	0.1	Bogr2	10.0
---	---	---	---	---	---	Hija	0.1
---	---	---	---	---	---	Pofe	0.1
Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp

434 0.3

Landscape Features

Landform: Escarpments
Elevation: 1900-2200 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 36-46 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: ---							
Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
435	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	2200-2500 m	Pipos	60.0	Cefe	0.1	Acmil	5.0	Bltr	0.1
		Slope:		Quga	1.0	Quga	1.0	Luar3	1.0	Fear2	5.0
		Gradient:	4 % Length: 15 m	---	---	---	---	---	---	Kopy	1.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Mumo	2.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	3.0
		Shape, Section:	Linear	---							
		Precipitation:	46-60 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, rh	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 70% 25% 70% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 70% 25% 70% 15% 15%	Fluvial: ---							
		Current:	3.m 70% 25% 70% 10% 20%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
435	0.2	Landform:	Hills	Edaphic							
		Elevation:	1700-2100 m	Jude2	5.0	Arpu5	5.0	---	---	Anci	1.0
		Slope:		Jumo	1.0	Comes	0.1	---	---	Bocu	5.0
		Gradient:	25 % Length: 10 m	Pied	5.0	Dawh2	0.0	---	---	Bogr2	10.0
		Aspect:	South Class: Simple	Qugr3	5.0	Nomi	1.0	---	---	Bohi2	2.0
		Shape, Plan:	Linear	---	---	Rhchi	1.0	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, rh	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 50% 40% 40% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 50% 40% 40% 20% 20%	Fluvial: ---							
		Current:	1.m 50% 40% 40% 5% 35%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
437	0.1	Landform:	Mountains	Edaphic							
		Elevation:	1900-2300 m	Jumo	10.0	---	---	Caoc4	1.0	Bocu	5.0
		Slope:		Pied	15.0	---	---	Erfl	0.1	Bogr2	15.0
		Gradient:	60 % Length: 50 m	---	---	---	---	Erme2	0.1	Kopy	1.0
		Aspect:	South Class: Simple	---	---	---	---	---	---	Pofe	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	1.0
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: Rhyolite	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, rh	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 25% 70% 25% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 25% 70% 25% 25% 10%	Fluvial: ---							
		Current:	1.m 25% 70% 25% 25% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
437 0.2	Landform: Mountains	Edaphic							
	Elevation: 2500-3000 m	Abco	30.0	Bere	5.0	Alge	0.1	Bran	0.1
	Slope:	Pipos	15.0	Juco6	0.1	Arfr4	2.0	Fear2	0.1
	Gradient: 60 % Length: 5 m	Pist3	0.0	Pamy	1.0	Fram	2.0	---	---
	Aspect: North Class: Simple	Potr5	10.0	Quga	1.0	Geca3	0.1	---	---
	Shape, Plan: Linear	Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section: Convex	---							
	Precipitation: 60-70 cm Bedrock: Rhyolite	---	---	---	---	---	---	---	---
	Parent Material: Residuum, rh	---	---	---	---	---	---	---	---
	Condition: Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance: 1.m 90% 65% 90% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 1.m 90% 65% 90% 10% 0%	Fluvial: ---							
	Current: 1.m 90% 65% 90% 10% 0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
437 0.3	Landform: Escarpments	---							
	Elevation: 1900-2300 m	---	---	---	---	---	---	---	---
	Slope:	---	---	---	---	---	---	---	---
	Gradient: 60 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect: South Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Convex	---							
	Precipitation: 36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material: ,	---	---	---	---	---	---	---	---
	Condition: Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance: --- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features	Climax Plant Community (canopy cover)							
		Tree	%	Shrub	%	Forb	%	Graminoid	%
437 0.4	Landform: Escarpments	---							
	Elevation: 2500-3000 m	---	---	---	---	---	---	---	---
	Slope:	---	---	---	---	---	---	---	---
	Gradient: 60 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect: North Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan: Linear	---	---	---	---	---	---	---	---
	Shape, Section: Convex	---							
	Precipitation: 60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material: ,	---	---	---	---	---	---	---	---
	Condition: Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance: --- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural: --- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current: --- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
438 0.1	Landform:	Valley plains					Topo/edaphic							
	Elevation:	1900-2200 m					Jumo	5.0	Chna2	5.0	Caoc4	1.0	Bocu	2.0
	Slope:						Pied	10.0	Fapa2	1.0	Erfl	0.1	Bogr2	15.0
	Gradient:	3 %	Length:	15 m			---	---	Gusa2	0.5	Erme2	0.1	Hija	0.1
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Pofe	0.1
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Convex					Topo/edaphic/zootic							
	Precipitation:	36-46 cm	Bedrock:	---			Jumo	5.0	Chna2	15.0	Caoc4	1.0	Bocu	1.0
	Parent Material:	Alluvium, ss, sh					Pied	10.0	Fapa2	1.0	Erfl	0.1	Bogr2	5.0
	Condit-	Canopy	Surface Components				---	---	Gusa2	10.0	erme2	0.1	Hija	0.1
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	Pofe	0.1
	Tolerance:	1.m	20%	25%	10%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	20%	25%	10%	20%	45%	Fluvial: ---							
	Current:	1.m	30%	25%	10%	10%	55%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
438 0.2	Landform:	Valley plains					Topo/edaphic							
	Elevation:	1900-2200 m					Jumo	5.0	Chna2	5.0	Caco4	1.0	Bocu	2.0
	Slope:						Pied	10.0	Fapa2	1.0	Erfl	0.1	Bogr2	10.0
	Gradient:	3 %	Length:	15 m			---	---	---	---	Erme2	0.1	Hija	0.1
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Pofe	0.1
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Concave					Topo/edaphic/zootic							
	Precipitation:	36-46 cm	Bedrock:	---			Jumo	5.0	Chna2	10.0	Caco4	1.0	Bocu	0.5
	Parent Material:	Alluvium, ss, sh					Pied	10.0	Fapa2	1.0	Erfl	0.1	Bogr2	5.0
	Condit-	Canopy	Surface Components				---	---	Gusa2	10.0	Erme2	0.1	Hija	0.1
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	Pofe	0.1
	Tolerance:	1.m	15%	25%	5%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	15%	25%	5%	20%	50%	Fluvial: ---							
	Current:	1.m	15%	25%	5%	15%	60%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
440 0.1	Landform:	Valley plains					Topo/edaphic							
	Elevation:	1900-2200 m					Jumo	5.0	Chna2	5.0	Caco4	1.0	Bocu	2.0
	Slope:						Pied	10.0	Fapa2	1.0	Erfl	0.1	Bogr2	15.0
	Gradient:	3 %	Length:	15 m			---	---	Gusa2	0.5	Erme2	0.1	Hija	0.1
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Pofe	0.1
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Concave					Topo/edaphic/zootic							
	Precipitation:	36-46 cm	Bedrock:	---			Jumo	5.0	Chna2	15.0	Caco4	1.0	Bocu	1.0
	Parent Material:	Alluvium, ss, sh					Pied	10.0	Fapa2	1.0	Erfl	0.1	Bogr2	5.0
	Condit-	Canopy	Surface Components				---	---	Gusa2	10.0	Erme2	0.1	Hija	0.1
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	Pofe	0.1
	Tolerance:	1.m	20%	25%	10%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	20%	25%	10%	20%	45%	Fluvial: ---							
	Current:	1.m	30%	25%	10%	10%	55%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
440	0.2	Landform:	Valley plains	Topo/edaphic							
		Elevation:	1900-2200 m	Jumo	0.0	Saex	1.0	---	---	Bogr2	0.1
		Slope:		Pied	0.0	---	---	---	---	CAREX	5.0
		Gradient:	1 % Length: 15 m	Pofrw	25.0	---	---	---	---	Pofe	0.1
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Spcr	0.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	0.0
		Shape, Section:	Concave	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 25% 40% 35% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 25% 40% 35% 20% 15%	Fluvial: ---							
		Current:	1.m 25% 40% 25% 10% 25%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
441	0.1	Landform:	Valley plains	Topo/edaphic							
		Elevation:	1900-2200 m	Jumo	5.0	Artr2	5.0	Caoc4	1.0	Agsm	0.5
		Slope:		Juos	0.0	Chna2	1.0	Erfl	0.1	Bocu	2.0
		Gradient:	3 % Length: 15 m	Pied	10.0	Fapa2	1.0	Erme2	0.1	Bogr2	15.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Hija	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	0.1
		Shape, Section:	Concave	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 20% 20% 10% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 20% 20% 10% 15% 55%	Fluvial: ---							
		Current:	1.m 20% 20% 10% 10% 60%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
441	0.2	Landform:	Valley plains	Topo/edaphic							
		Elevation:	1900-2200 m	Jumo	0.0	Saex	1.0	---	---	Bogr2	0.1
		Slope:		Pied	0.0	---	---	---	---	CAREX	5.0
		Gradient:	1 % Length: 15 m	Pofrw	20.0	---	---	---	---	Pofe	0.1
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Spcr	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	1.0
		Shape, Section:	Concave	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ss, sh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 25% 40% 35% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 25% 40% 35% 20% 55%	Fluvial: ---							
		Current:	1.m 25% 40% 25% 10% 25%	Lacustrine: ---							

Map Unit No. Comp	⇐ Landscape Features ⇒							⇐ Climax Plant Community (canopy cover) ⇒							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
448 0.1	Landform:	Hills, plains						Edaphic							
	Elevation:	2200-2500 m						Pipos	60.0	Aruv	10.0	Acmil	5.0	Bltr	1.0
	Slope:							Quga	0.1	Bere	1.0	Anro2	0.1	Fear2	10.0
	Gradient:	25 %	Length:	10 m				---	---	Cefe	0.1	Luar3	4.0	Kopy	1.0
	Aspect:	All	Class:	Simple				---	---	Quga	5.0	Ptaq	1.0	Mumo	2.0
	Shape, Plan:	Linear						---	---	Rice	0.1	---	---	Pofe	3.0
	Shape, Section:	Convex						---							
	Precipitation:	46-60 cm	Bedrock: Tuff					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, tu, pu						---	---	---	---	---	---	---	---
	Condit-	⇐ Canopy ⇒		⇐ Surface Components ⇒				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m	60%	40%	55%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	3.m	60%	40%	55%	10%	10%	Fluvial: ---							
	Current:	3.m	60%	40%	55%	5%	25%	Lacustrine: ---							

Map Unit No. Comp	⇐ Landscape Features ⇒							⇐ Climax Plant Community (canopy cover) ⇒							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
448 0.2	Landform:	Elevated plains						Edaphic							
	Elevation:	2200-2500 m						Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	10.0
	Slope:							Quga	0.1	Cefe	0.1	Luar3	4.0	Bltr	0.1
	Gradient:	4 %	Length:	15 m				---	---	Quga	1.0	Ptan2	0.1	Mumo	2.0
	Aspect:	Nonin	Class:	Simple				---	---	---	---	---	---	Kopy	1.0
	Shape, Plan:	Linear						---	---	---	---	---	---	Pofe	3.0
	Shape, Section:	Linear						---							
	Precipitation:	46-60 cm	Bedrock: Ash					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, as						---	---	---	---	---	---	---	---
	Condit-	⇐ Canopy ⇒		⇐ Surface Components ⇒				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m	70%	10%	75%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	3.m	70%	10%	75%	15%	10%	Fluvial: ---							
	Current:	3.m	50%	10%	75%	5%	20%	Lacustrine: ---							

Map Unit No. Comp	⇐ Landscape Features ⇒							⇐ Climax Plant Community (canopy cover) ⇒							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
451 0.1	Landform:	Hills, mountains						Edaphic							
	Elevation:	2500-2900 m						Abco	30.0	Bere	5.0	Alge2	0.1	Bran	0.1
	Slope:							Pipos	15.0	Juco6	0.1	Arfr4	2.0	Fear2	0.1
	Gradient:	25 %	Length:	10 m				Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	All	Class:	Simple				Potr5	10.0	Quga	1.0	Geca3	0.1	---	---
	Shape, Plan:	Linear						Psmeg	30.0	---	---	Laar	0.1	---	---
	Shape, Section:	Convex						---							
	Precipitation:	60-70 cm	Bedrock: Granite					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh						---	---	---	---	---	---	---	---
	Condit-	⇐ Canopy ⇒		⇐ Surface Components ⇒				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	90%	40%	90%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	90%	40%	90%	10%	0%	Fluvial: ---							
	Current:	1.m	80%	40%	90%	10%	0%	Lacustrine: ---							

Map Unit No. Comp

452 0.1

Landscape Features

Landform: Mountains
Elevation: 2500-3000 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 60-70 cm Bedrock: Granite
Parent Material: Residuum, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	90%	65%	90%	---%	---%
Natural:	1.m	90%	65%	90%	10%	0%
Current:	1.m	90%	65%	90%	10%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Abco	30.0	Bere	5.0	Alge	0.1	Bran	0.1
Pipos	15.0	Juco6	0.1	Arfr4	2.0	Fear2	0.1
Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
Potr5	10.0	Guga	1.0	Geca4	0.1	---	---
Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

452 0.2

Landscape Features

Landform: Mountains
Elevation: 2900-3800 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 70-80 cm Bedrock: Granite
Parent Material: Residuum, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	90%	50%	95%	---%	---%
Natural:	1.m	90%	50%	95%	5%	0%
Current:	1.m	90%	50%	95%	5%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci2	0.1
Pien	50.0	Rimo2	0.1	Frvea	1.0	Lupa4	0.1
Potr5	1.0	Vamy2	20.0	Goob2	1.0	Trmo5	0.1
---	---	Vasc	1.0	Hapa6	1.0	---	---
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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

452 0.3

Landscape Features

Landform: Escarpments
Elevation: 2500-3000 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 60-70 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
452 0.4	Landform:	Escarpments					---							
	Elevation:	2900-3800 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	60 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	70-80 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
454 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	2500-2900 m					Abco	30.0	Bere	5.0	Alge	0.1	Bran	0.1
	Slope:						Pipos	15.0	Juco6	0.1	Arfr4	2.0	Fear2	0.1
	Gradient:	4 %	Length:	15 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	Noninfl.	Class:	Simple			Potr5	10.0	Quga	1.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section:	Linear					---							
	Precipitation:	60-70 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, pu					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	50%	95%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	80%	50%	95%	10%	0%	Fluvial: ---							
	Current:	1.m	60%	50%	95%	10%	0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
454 0.2	Landform:	Hills					Edaphic							
	Elevation:	2500-2900 m					Abco	30.0	Bere	5.0	Alge	0.1	Bran	0.0
	Slope:						Pipos	15.0	Juco6	0.1	Arfr4	2.0	Fear2	0.1
	Gradient:	25 %	Length:	10 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	All	Class:	Simple			Potr5	10.0	Quga	1.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section:	Convex					---							
	Precipitation:	60-70 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, pu					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	40%	90%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	80%	40%	90%	10%	0%	Fluvial: ---							
	Current:	1.m	60%	40%	90%	10%	0%	Lacustrine: ---							

Map Unit No. Comp

455 0.1

Landform: Mountains
Elevation: 2500-2900 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 60-70 cm Bedrock: ---
Parent Material: Residuum, pu

Condition	Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	90%	65%	90%	---%	---%
Natural:	1.m	90%	65%	90%	10%	0%
Current:	1.m	90%	65%	90%	10%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Abco	30.0	Bere	5.0	Alge	0.1	Bran	0.1
Pipos	15.0	Juco6	0.1	Arfr4	2.0	Fear2	0.1
Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
Potr5	10.0	Quga	1.0	Geca3	0.1	---	---
Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

455 0.2

Landform: Mountains
Elevation: 2900-3600 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 70-80 cm Bedrock: Tuff
Parent Material: Residuum, tu, pu

Condition	Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	90%	65%	95%	---%	---%
Natural:	1.m	90%	65%	95%	5%	0%
Current:	1.m	90%	65%	95%	5%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci	0.1
Pien	50.0	Rimo2	0.1	Frvea	1.0	Lupa4	0.1
Potr5	1.0	Vamy2	20.0	Goob2	1.0	Trmo5	0.1
---	---	Vasc	1.0	Hapa6	1.0	---	---
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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

455 0.3

Landform: Escarpments
Elevation: 2500-2900 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 60-70 cm Bedrock: ---
Parent Material: ,

Condition	Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
455 0.4	Landform:	Escarpments					---							
	Elevation:	2900-3600 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	60 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	70-80 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
456 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	2200-2500 m					Pipos	60.0	Bere	1.0	Acmil	5.0	Bltr	1.0
	Slope:						Quga	0.1	Cefe	0.1	Anro2	0.1	Fear2	10.0
	Gradient:	4 %	Length:	15 m			---	---	Quga	5.0	Luar3	4.0	Kopy	1.0
	Aspect:	Noninfl.	Class:	Simple			---	---	Rice	0.1	Ptan2	0.5	Mumo	2.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Pofe	3.0
	Shape, Section:	Linear					---							
	Precipitation:	46-60 cm	Bedrock: Cinders				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m	65%	40%	60%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	3.m	65%	40%	60%	10%	10%	Fluvial: ---							
	Current:	3.m	65%	40%	60%	5%	15%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
456 0.2	Landform:	Hills					Edaphic							
	Elevation:	2200-2500 m					Pipos	20.0	Fapa	5.0	---	---	Anwr	0.1
	Slope:						---	---	Chna2	0.1	---	---	Bogr2	0.1
	Gradient:	25 %	Length:	10 m			---	---	---	---	---	---	Sihy	1.0
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	46-60 cm	Bedrock: Cinders				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m	25%	65%	20%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	3.m	25%	65%	20%	10%	10%	Fluvial: ---							
	Current:	3.m	25%	65%	20%	10%	10%	Lacustrine: ---							

Map Unit No. Comp

456 0.3

Landform: Hills
Elevation: 1900-2200 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 36-46 cm Bedrock: Cinders
Parent Material: Residuum, ci

Condition	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	15%	90%	10%	---%	---%
Natural:	1.m	15%	90%	10%	0%	0%
Current:	1.m	15%	90%	10%	0%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Pied	5.0	Fapa2	15.0	---	---	Bogr2	1.0
Jumo	1.0	Rhtr	0.1	---	---	---	---
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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp

458 0.1

Landform: Elevated plains
Elevation: 1900-2200 m
Slope:
Gradient: 4 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 36-46 cm Bedrock: Basalt
Parent Material: Residuum, ba, ci

Condition	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	30%	25%	30%	---%	---%
Natural:	1.m	30%	25%	30%	25%	20%
Current:	1.m	30%	25%	30%	10%	35%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	10.0	---	---	---	---	Agsm	2.0
Pied	20.0	---	---	---	---	Bocu	3.0
---	---	---	---	---	---	Bogr2	15.0
---	---	---	---	---	---	Pofe	0.1
---	---	---	---	---	---	Sihy	1.0
Edaphic/zootic							
Jumo	10.0	Gusa2	15.0	---	---	Agsm	4.0
Pied	20.0	Hyri	1.0	---	---	Bocu	2.0
---	---	---	---	---	---	Bogr2	5.0
---	---	---	---	---	---	Pofe	0.1
---	---	---	---	---	---	Sihy	0.5
Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp

458 0.2

Landform: Hills
Elevation: 1900-2200 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: All Class: Simple
Shape, Plan: Linear
Shape, Section: Concave
Precipitation: 36-46 cm Bedrock: Basalt
Parent Material: Residuum, ci

Condition	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	15%	90%	10%	---%	---%
Natural:	1.m	15%	90%	10%	0%	0%
Current:	1.m	15%	90%	10%	0%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	1.0	Fapa2	15.0	---	---	Bogr2	1.0
Pied	5.0	Rhtr	0.1	---	---	---	---
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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
461 0.1	Landform:	Elevated plains	edaphic							
	Elevation:	1600-2100 m	Jude2	10.0	Arpu5	5.0	---	---	Agsm	0.1
	Slope:		Pipos	50.0	Cemo2	2.0	---	---	Bocu	0.1
	Gradient:	4 % Length: 15 m	Quar	1.0	Gawr3	1.0	---	---	Bogr2	1.0
	Aspect:	Noninfl. Class: Simple	Quem	2.0	Nomi	0.1	---	---	Mulo	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	1.0
	Shape, Section:	Linear	---							
	Precipitation:	46-60 cm Bedrock: Diorite	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, di, gr	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m 70% 25% 70% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	3.m 70% 25% 70% 15% 15%	Fluvial: ---							
	Current:	3.m 70% 25% 70% 10% 20%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
461 0.2	Landform:	Hills	Edaphic							
	Elevation:	1600-2100 m	Jude2	10.0	Arpu5	5.0	---	---	Agsm	0.1
	Slope:		Pipos	50.0	Cemo2	2.0	---	---	Bocu	0.1
	Gradient:	25 % Length: 10 m	Quar	1.0	Gawr3	1.0	---	---	Bogr2	1.0
	Aspect:	North Class: Simple	Quem	2.0	Nomi	0.1	---	---	Mulo	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	1.0
	Shape, Section:	Convex	---							
	Precipitation:	46-60 cm Bedrock: Diorite	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, di, gr	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m 70% 40% 70% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	3.m 70% 40% 70% 15% 15%	Fluvial: ---							
	Current:	3.m 70% 40% 70% 10% 20%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
461 0.3	Landform:	Hills	Edaphic							
	Elevation:	1000-1500 m	Jude2	10.0	Arpu5	5.0	ERIDB	0.1	Bocu	1.0
	Slope:		Juos	15.0	Comes	5.0	Erci6	0.1	Boer4	0.1
	Gradient:	25 % Length: 10 m	Pimo	5.0	Gawr3	1.0	---	---	Bogr2	5.0
	Aspect:	South Class: Simple	Quar	0.1	Nomi	2.0	---	---	Bohi2	1.0
	Shape, Plan:	Linear	Quem	0.1	Qutu2	10.0	---	---	Stsp3	10.0
	Shape, Section:	Convex	---							
	Precipitation:	46-56 cm Bedrock: Diorite	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, di, gr	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m 55% 25% 40% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	1.m 55% 25% 40% 20% 15%	Fluvial: ---							
	Current:	1.m 55% 25% 40% 5% 30%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
466 0.1	Landform:	Elevated plains	Edaphic							
	Elevation:	2900-3800 m	Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci2	0.1
	Slope:		Pien	50.0	Rimo2	0.1	Frvea	1.0	Lupa4	0.1
	Gradient:	4 % Length: 15 m	Potr5	1.0	Vamy2	20.0	Goob2	1.0	Trmo5	0.1
	Aspect:	Noninfl. Class: Simple	---	---	Vasc	1.0	Hapa6	1.0	---	---
	Shape, Plan:	Linear	---	---	---	---	Pode4	2.0	---	---
	Shape, Section:	Linear	---							
	Precipitation:	70-80 cm Bedrock: Granite	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion Height	OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 0.5m	90% 30% 95% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 0.5m	90% 30% 95% 5% 0%	Fluvial: ---							
	Current: 0.5m	90% 30% 95% 5% 0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
466 0.2	Landform:	Hills, mountains	Edaphic							
	Elevation:	2900-3800 m	Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci2	0.1
	Slope:		Pien	50.0	Rimo2	0.1	Frvea	1.0	Lupa4	0.1
	Gradient:	25 % Length: 10 m	Potr5	1.0	Vamy2	20.0	Goob2	1.0	Trmo5	0.1
	Aspect:	All Class: Simple	---	---	Vasc	1.0	Hapa6	5.0	---	---
	Shape, Plan:	Linear	---	---	---	---	Pode4	2.0	---	---
	Shape, Section:	Convex	---							
	Precipitation:	70-80 cm Bedrock: Granite	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion Height	OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance: 0.5m	90% 40% 95% ---% ---%	---	---	---	---	---	---	---	---
	Natural: 0.5m	90% 40% 95% 5% 0%	Fluvial: ---							
	Current: 0.5m	90% 40% 95% 5% 0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
471 0.1	Landform:	Valley plains	Topo/edaphic							
	Elevation:	2900-3700 m	---	---	Pofr4	1.0	Anpa	0.1	Bran	1.0
	Slope:		---	---	---	---	Caro2	1.0	CAREX	5.0
	Gradient:	3 % Length: 15 m	---	---	---	---	Erfo	0.1	Dain	10.0
	Aspect:	Noninfl. Class: Simple	---	---	---	---	Laar	1.0	Feov	15.0
	Shape, Plan:	Linear	---	---	---	---	Viam	1.0	Feth	25.0
	Shape, Section:	Concave	Topo/edaphic/zootic							
	Precipitation:	70-80 cm Bedrock: ---	---	---	Pofr4	20.0	Anpa	0.1	Bran	0.1
	Parent Material:	Alluvium, an, rh, ss, gr	---	---	---	---	Caro2	2.0	CAREX	15.0
	Condit-	Canopy / Surface Components	---	---	---	---	Erfo	0.1	Dain	2.0
	ion Height	OvStr RkFrg Littr VegBA BSoil	---	---	---	---	Laar	1.0	Feov	10.0
	Tolerance: 0.m	0% 0% 30% ---% ---%	---	---	---	---	Viam	2.0	Feth	5.0
	Natural: 0.m	0% 0% 30% 50% 20%	Fluvial: ---							
	Current: 0.m	0% 0% 30% 20% 50%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
471 0.2	Landform:	Valley plains						Topo/edaphic							
	Elevation:	2900-3700 m						---	---	Pofr4	0.5	Cale4	0.1	Caaq	10.0
	Slope:							---	---	---	---	Hadi	0.1	Cave6	10.0
	Gradient:	1 %	Length:	15 m				---	---	---	---	Oxfe	1.0	Dece	20.0
	Aspect:	Noninfl.	Class:	Simple				---	---	---	---	Pepa3	1.0	Feov	15.0
	Shape, Plan:	Linear						---	---	---	---	Veca2	5.0	Popr	1.0
	Shape, Section:	Concave						Topo/edaphic/zootic							
	Precipitation:	70-80 cm	Bedrock:	---				---	---	Pofr4	10.0	Cale4	0.1	Caaq	2.0
	Parent Material:	Alluvium, an, rh, ss, gr						---	---	---	---	Hadi	0.1	Cave6	3.0
	Condit-	Canopy	Surface Components					---	---	---	---	Oxfe	1.0	Dece	5.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	Pepa3	1.0	Feov	5.0
	Tolerance:	0.m	0%	0%	30%	---%	---%	---	---	---	---	Veca2	10.0	Popr	20.0
	Natural:	0.m	0%	0%	30%	70%	0%	Fluvial: ---							
	Current:	0.05m	5%	0%	30%	50%	20%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
471 0.3	Landform:	Valley plains						Topo/edaphic							
	Elevation:	2900-3700 m						---	---	---	---	Cale4	15.0	Caaq	10.0
	Slope:							---	---	---	---	Oxfe	1.0	Cave6	5.0
	Gradient:	1 %	Length:	15 m				---	---	---	---	Trgr	1.0	Jual2	2.0
	Aspect:	Noninfl.	Class:	Simple				---	---	---	---	Veca2	5.0	Judr	5.0
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Concave						---							
	Precipitation:	70-80 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	Alluvium, rh, gr, ss, sh						---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.m	0%	0%	55%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.m	0%	0%	55%	45%	0%	Fluvial: ---							
	Current:	0.m	0%	0%	55%	25%	20%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
473 0.1	Landform:	Mountains						Edaphic							
	Elevation:	3800-4100 m						---	---	Sain3	0.0	Arob3	3.0	Carud	3.0
	Slope:							---	---	Sape	0.0	Ernae	2.0	Feovb	3.0
	Gradient:	25 %	Length:	10 m				---	---	Saplm	0.0	Gerot	12.0	Kobe	25.0
	Aspect:	All	Class:	Simple				---	---	---	---	Papu2	1.0	Poar2	0.1
	Shape, Plan:	Linear						---	---	---	---	Serh	2.0	Trsp2	2.0
	Shape, Section:	Convex						---							
	Precipitation:	80-88 cm	Bedrock:	Granite				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, ss						---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.m	0%	45%	15%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.m	0%	45%	15%	45%	0%	Fluvial: ---							
	Current:	0.m	0%	45%	15%	30%	15%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
474 0.1	Landform:	Hills, mountains	Edaphic							
	Elevation:	1300-1700 m	---	---	Fosp2	10.0	---	---	Bohi2	0.1
	Slope:		---	---	Nomi	1.0	---	---	Anci	0.1
	Gradient:	60 % Length: 5 m	---	---	Prgl2	5.0	---	---	Erin	0.1
	Aspect:	South Class: Simple	---	---	---	---	---	---	Meum	0.1
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Convex	---							
	Precipitation:	36-46 cm Bedrock: Granite	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m 5% 65% 10% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	0.5m 5% 65% 10% 10% 15%	Fluvial: ---							
	Current:	0.5m 5% 65% 10% 10% 15%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
474 0.2	Landform:	Hills, mountains	Edaphic							
	Elevation:	1700-2200 m	Jude2	5.0	Cemop	0.1	---	---	Bocu	0.1
	Slope:		Jumo	5.0	Dawh2	2.0	---	---	Bogr2	2.0
	Gradient:	60 % Length: 5 m	Pied	3.0	Nomi	0.1	---	---	Bohi2	0.1
	Aspect:	North Class: Simple	Qugr3	2.0	Open2	1.0	---	---	---	---
	Shape, Plan:	Linear	---	---	Rhtr	3.0	---	---	---	---
	Shape, Section:	Convex	---							
	Precipitation:	46-56 cm Bedrock: Granite	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m 30% 65% 20% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	1.m 30% 65% 20% 10% 5%	Fluvial: ---							
	Current:	1.m 30% 65% 20% 10% 5%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
474 0.3	Landform:	Escarpments	---							
	Elevation:	1300-1700 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect:	South Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Linear	---							
	Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
474 0.4	Landform:	Escarpments					---							
	Elevation:	1300-1700 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	36-46 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
475 0.1	Landform:	Hills, mountains					Edaphic							
	Elevation:	1300-1700 m					---	---	Fosp2	10.0	---	---	Anci	0.1
	Slope:						---	---	Nomi	1.0	---	---	Bohi2	0.1
	Gradient:	60 %	Length:	5 m			---	---	Prgl2	5.0	---	---	Erin	0.1
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	Muem	1.0
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	36-46 cm	Bedrock: Granite				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	5%	75%	5%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	5%	75%	5%	10%	10%	Fluvial: ---							
	Current:	0.5m	5%	75%	5%	10%	10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
475 0.2	Landform:	Hills, mountains					Edaphic							
	Elevation:	1700-2200 m					Jude2	5.0	Arpu5	1.0	---	---	Bocu	0.1
	Slope:						Jumo	1.0	Cemo2	5.0	---	---	Bogr2	2.0
	Gradient:	60 %	Length:	5 m			Pidi	3.0	Nomi	0.1	---	---	Bohi2	0.1
	Aspect:	North	Class:	Simple			Quar	1.0	---	---	---	---	---	---
	Shape, Plan:	Linear					Quem	2.0	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	46-56 cm	Bedrock: Granite				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	30%	75%	20%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	30%	75%	20%	10%	10%	Fluvial: ---							
	Current:	0.5m	30%	75%	20%	10%	10%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
475	0.3	Landform:	Escarpments	---							
		Elevation:	1300-1700 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	South Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
475	0.4	Landform:	Escarpments	---							
		Elevation:	1700-2200 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	North Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
476	0.1	Landform:	Hills, mountains	Edaphic							
		Elevation:	1700-2200 m	Jude2	5.0	Arpu5	1.0	---	---	Bocu	0.1
		Slope:		Jumo	1.0	Cemo2	5.0	---	---	Bogr2	2.0
		Gradient:	60 % Length: 5 m	Pidi	3.0	Nomi	0.1	---	---	Bihi2	0.1
		Aspect:	South Class: Simple	Quar	1.0	---	---	---	---	---	---
		Shape, Plan:	Linear	Quem	3.0	---	---	---	---	---	---
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Granite	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, gr, rh	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 30% 75% 10% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 30% 75% 10% 10% 15%	Fluvial: ---							
		Current:	1.m 30% 75% 10% 10% 15%	Lacustrine: ---							

Map Unit No. Comp

476 0.2

Landform: Hills, mountains
Elevation: 2400-2800 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 60-70 cm Bedrock: Granite
Parent Material: Residuum, gr, rh

Condition	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	80%	75%	90%	---%	---%
Natural:	1.m	80%	75%	90%	10%	0%
Current:	1.m	80%	75%	90%	10%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Abco	30.0	Rere	5.0	Alge	0.1	Bran	0.1
Pipos	15.0	Juco6	0.1	Arfr4	2.0	Fear2	0.1
Pist3	1.0	Pamy	1.0	Frvea	2.0	---	---
Potr5	10.0	Quga	1.0	Geca3	0.1	---	---
Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

476 0.3

Landform: Escarpments
Elevation: 1700-2200 m
Slope:
Gradient: 100 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 46-56 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

476 0.4

Landform: Escarpments
Elevation: 2400-2800 m
Slope:
Gradient: 100 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 60-70 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
477 0.1	Landform:	Hills							Edaphic							
	Elevation:	900-1000 m							---	---	Fosp2	10.0	---	---	Anci	0.1
	Slope:								---	---	Nomi	1.0	---	---	Bocu	5.0
	Gradient:	25 %	Length:	10 m					---	---	Prve	5.0	---	---	Bohi2	1.0
	Aspect:	All	Class:	Simple					---	---	---	---	---	---	Erin	0.1
	Shape, Plan:	Linear							---	---	---	---	---	---	Muem	0.1
	Shape, Section:	Convex							---							
	Precipitation:	36-46 cm	Bedrock:	Granite					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr							---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components						---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	0.5m	10%	75%	5%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	0.5m	10%	75%	5%	10%	10%		Fluvial: ---							
	Current:	0.5m	10%	75%	5%	5%	15%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
477 0.2	Landform:	Elevated plains							Edaphic							
	Elevation:	900-1000 m							---	---	Beha	3.0	---	---	Bocu	3.0
	Slope:								---	---	Cegr	1.0	---	---	Boer4	4.0
	Gradient:	4 %	Length:	15 m					---	---	Dawh2	2.0	---	---	Bohi2	1.0
	Aspect:	All	Class:	Simple					---	---	Krpag	2.0	---	---	Lyph	1.0
	Shape, Plan:	Linear							---	---	Prve	5.0	---	---	Mupo2	4.0
	Shape, Section:	Linear							---							
	Precipitation:	36-46 cm	Bedrock:	Granite					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr							---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components						---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	0.5m	15%	40%	5%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	0.5m	15%	40%	5%	15%	35%		Fluvial: ---							
	Current:	0.5m	15%	40%	5%	5%	55%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
478 0.1	Landform:	Hills, mountains							Edaphic							
	Elevation:	1300-1700 m							---	---	Fosp2	10.0	---	---	Bohi2	0.1
	Slope:								---	---	Dawh2	1.0	---	---	Anci	0.1
	Gradient:	60 %	Length:	5 m					---	---	Nomi	0.1	---	---	Erin	0.1
	Aspect:	South	Class:	Simple					---	---	Open2	0.1	---	---	Meum	0.1
	Shape, Plan:	Linear							---	---	Prgl2	5.0	---	---	---	---
	Shape, Section:	Convex							---							
	Precipitation:	36-46 cm	Bedrock:	Granite					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh							---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components						---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	0.5m	5%	70%	5%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	0.5m	5%	70%	5%	10%	15%		Fluvial: ---							
	Current:	0.5m	5%	70%	5%	10%	15%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
478 0.2	Landform:	Hills, mountains					Edaphic							
	Elevation:	1700-2200 m					Jude2	5.0	Cemop	5.0	---	---	Bocu	1.0
	Slope:						Jumo	5.0	Nomi	0.1	---	---	Bogr2	10.0
	Gradient:	60 %	Length:	5 m			Pied	3.0	Rhtr	2.0	---	---	Bohi2	1.0
	Aspect:	North	Class:	Simple			Ougr3	2.0	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	46-56 cm	Bedrock:	Granite			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---
	Tolerance:	0.5m	30%	70%	10%	---%	---%	---	---	---	---	---	---	---
	Natural:	0.5m	30%	70%	10%	10%	10%	Fluvial: ---						
	Current:	0.5m	30%	70%	10%	10%	10%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
478 0.3	Landform:	Escarpments					---							
	Elevation:	1300-1700 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	46-56 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---						
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
478 0.4	Landform:	Escarpments					---							
	Elevation:	1700-2200 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---						
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
479 0.1	Landform:	Hills, mountains					Edaphic							
	Elevation:	1700-2200 m					Jude2	5.0	Cemop	5.0	---	---	Bocu	1.0
	Slope:						Jumo	5.0	Nomi	0.1	---	---	Bogr2	10.0
	Gradient:	60 %	Length:	5 m			Pied	3.0	Rhtr	2.0	---	---	Bohi2	1.0
	Aspect:	South	Class:	Simple			Qugr3	2.0	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	46-56 cm	Bedrock:	Granite			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	30%	70%	10%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	30%	70%	10%	10%	10%	Fluvial: ---							
	Current:	1.m	30%	70%	10%	10%	10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
479 0.2	Landform:	Mountains					Edaphic							
	Elevation:	2400-2800 m					Abco	30.0	Bere	5.0	Alge	0.1	Bran	0.1
	Slope:						Pipos	15.0	Juco6	0.1	Arfr4	2.0	Fear2	0.1
	Gradient:	60 %	Length:	5 m			Pist3	1.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	North	Class:	Simple			Potr5	10.0	Quga	1.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Syor2	0.1	Laar	0.1	---	---
	Shape, Section:	Convex					---							
	Precipitation:	60-70 cm	Bedrock:	Granite			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	65%	90%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	80%	65%	90%	10%	5%	Fluvial: ---							
	Current:	1.m	80%	65%	90%	10%	5%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
479 0.3	Landform:	Escarpments					---							
	Elevation:	1700-2200 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	46-56 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features															
479 0.4	Landform:	Escarpments														
	Elevation:	2400-2800 m														
	Slope:															
	Gradient:	100 %	Length:	5 m												
	Aspect:	North	Class:	Simple												
	Shape, Plan:	Linear														
	Shape, Section:	Linear														
	Precipitation:	60-70 cm	Bedrock:	---												
	Parent Material:	,														
	Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil									
	Tolerance:	--- m	---%	---%	---%	---%	---%									
	Natural:	--- m	---%	---%	---%	---%	---%									
	Current:	--- m	---%	---%	---%	---%	---%									

Map Unit No. Comp	Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
479 0.4	---							
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	Fluvial: ---							
	Lacustrine: ---							

Map Unit No. Comp	Landscape Features															
481 0.1	Landform:	Elevated plains														
	Elevation:	1000-1600 m														
	Slope:															
	Gradient:	4 %	Length:	15 m												
	Aspect:	Noninfl.	Class:	Simple												
	Shape, Plan:	Linear														
	Shape, Section:	Linear														
	Precipitation:	46-56 cm	Bedrock:	limestone												
	Parent Material:	Residuum, ls														
	Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil									
	Tolerance:	1.m	55%	25%	30%	---%	---%									
	Natural:	1.m	55%	25%	30%	15%	25%									
	Current:	1.m	55%	25%	30%	5%	30%									

Map Unit No. Comp	Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
481 0.1	Edaphic							
	Jude2	10.0	Arpu5	5.0	ERIOG	0.1	Bocu	1.0
	Juos	15.0	Comes	5.0	Erci6	0.1	Boer4	0.1
	Pimo	5.0	Gawr3	1.0	---	---	Bogr2	10.0
	Quar	0.1	Nomi	2.0	---	---	Bohi2	1.0
	Quem	0.1	Qutu2	10.0	---	---	Stsp3	10.0
	Edaphic/zootic							
	Jude2	10.0	Arpu5	5.0	ERIOG	1.0	Bocu	0.5
	Juos	15.0	Comes	3.0	Erci6	0.1	Boer4	0.5
	Pimo	5.0	Gawr3	1.0	---	---	Bogr2	5.0
	Quar	0.1	Gusa2	10.0	---	---	Bohi2	0.5
	Quem	0.1	Qutu2	10.0	---	---	Stsp3	2.0
	Fluvial: ---							
	Lacustrine: ---							

Map Unit No. Comp	Landscape Features															
482 0.1	Landform:	Hills														
	Elevation:	1000-1600 m														
	Slope:															
	Gradient:	25 %	Length:	10 m												
	Aspect:	North	Class:	Simple												
	Shape, Plan:	Linear														
	Shape, Section:	Convex														
	Precipitation:	46-56 cm	Bedrock:	Limestone												
	Parent Material:	Residuum, ls														
	Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil									
	Tolerance:	1.m	55%	25%	40%	---%	---%									
	Natural:	1.m	55%	25%	40%	20%	20%									
	Current:	1.m	55%	25%	40%	5%	35%									

Map Unit No. Comp	Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
482 0.1	Edaphic							
	Jude2	10.0	Arpu5	5.0	ERIOG	0.1	Bocu	1.0
	Juos	15.0	Comes	5.0	Erci6	0.1	Boer4	0.1
	Pimo	5.0	Gawr3	1.0	---	---	Bogr2	15.0
	Quar	0.1	Nomi	2.0	---	---	Bohi2	1.0
	Quem	0.1	Qutu2	10.0	---	---	Stsp3	10.0

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	Fluvial: ---							
	Lacustrine: ---							

Map Unit No. Comp

482 0.2

Landform: Hills
Elevation: 1000-1600 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 46-56 cm Bedrock: Limestone
Parent Material: Residuum, ls

Condition	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	40%	45%	20%	---%	---%
Natural:	1.m	40%	45%	20%	15%	25%
Current:	1.m	40%	45%	20%	5%	35%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	5.0	Arpu5	0.1	ERIOG	0.1	Bocu	1.0
Juos	10.0	Comes	5.0	Erci6	0.1	Boer4	0.1
Pimo	1.0	Cemo2	15.0	---	---	Bogr2	5.0
Quar	0.1	Nomi	1.0	---	---	Bohi2	1.0
Quem	0.1	Qutu2	1.0	---	---	Stsp3	5.0

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

483 0.1

Landform: Hills, mountains
Elevation: 1000-1600 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 46-56 cm Bedrock: Limestone
Parent Material: Residuum, ls

Condition	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	50%	65%	30%	---%	---%
Natural:	1.m	50%	65%	30%	5%	10%
Current:	1.m	50%	65%	30%	5%	10%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	10.0	Arpu5	5.0	ERIOG	0.1	Bocu	1.0
Juos	15.0	Comes	5.0	Erci6	0.1	Boer4	0.1
Pimo	5.0	Gawr3	1.0	---	---	Bogr2	1.0
Quar	0.1	Nomi	2.0	---	---	Bohi2	1.0
Quem	0.1	Qutu2	10.0	---	---	Stsp3	5.0

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

483 0.2

Landform: Escarpments
Elevation: 1900-2300 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 36-46 cm Bedrock: Limestone
Parent Material: Residuum, ls

Condition	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	30%	65%	25%	---%	---%
Natural:	1.m	30%	65%	25%	10%	15%
Current:	1.m	30%	65%	25%	10%	15%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jumo	5.0	Beha	0.1	Erci6	0.1	Bocu	3.0
Juos	10.0	Caho3	5.0	---	---	Boer4	0.1
Pimo	5.0	Cemo2	5.0	---	---	Bohi2	1.0
---	---	Nomi	2.0	---	---	Mupo	0.1
---	---	Qutu2	10.0	---	---	Trmu	0.1

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
483 0.3	Landform:	Escarpments					---							
	Elevation:	1900-2300 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	36-46 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components			---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
483 0.4	Landform:	Escarpments					---							
	Elevation:	1900-2300 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	36-46 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components			---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
485 0.1	Landform:	Elevated plains					Edaphic/fire							
	Elevation:	1000-1600 m					Jude2	0.0	Arpu5	15.0	ERIOG	0.1	Ansc	0.1
	Slope:						Jumo	0.0	Gawr3	1.0	Erci6	0.1	Bocu	1.0
	Gradient:	4 %	Length:	15 m			Juos	0.0	Nomi	5.0	---	---	Boer4	0.1
	Aspect:	Noninfl.	Class:	Simple			Pimo	0.0	Qutu2	30.0	---	---	Bogr2	5.0
	Shape, Plan:	Linear					Quar	0.1	Rhov	0.1	---	---	Bohi2	1.0
	Shape, Section:	Linear					---							
	Precipitation:	46-56 cm	Bedrock: Granite				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr					---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components			---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	50%	40%	30%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	50%	40%	30%	15%	15%	Fluvial: ---							
	Current:	1.m	50%	40%	30%	5%	25%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
485	0.2	Landform:	Hills	Edaphic							
		Elevation:	1000-1600 m	Jude2	0.0	Arpu5	15.0	ERIOG	0.1	Ansc	0.1
		Slope:		Juno	0.0	Gawr3	1.0	Erci6	0.1	Bocu	1.0
		Gradient:	25 % Length: 10 m	Juos	0.0	Nomi	5.0	---	---	Boer4	0.1
		Aspect:	All Class: Simple	Pimo	0.0	Qutu2	30.0	---	---	Bogr2	1.0
		Shape, Plan:	Linear	Quar	0.1	Rhov	0.1	---	---	Bohi2	1.0
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Granite	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, gr	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 50% 45% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 50% 45% 30% 15% 10%	Fluvial: ---							
		Current:	1.m 50% 45% 30% 5% 20%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
486	0.1	Landform:	Mountains	Edaphic							
		Elevation:	1000-1600 m	Jude2	10.0	Arpu5	5.0	ERIOG	0.1	Bocu	1.0
		Slope:		Juos	15.0	Gawr3	1.0	Erci6	0.1	Boer4	0.1
		Gradient:	60 % Length: 5 m	Pimo	5.0	Nomi	2.0	---	---	Bogr2	1.0
		Aspect:	South Class: Simple	Quar	0.1	Qutu2	10.0	---	---	Bohi2	1.0
		Shape, Plan:	Linear	Quem	0.1	---	---	---	---	Stsp3	5.0
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Granite	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, gr, rh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 50% 70% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 50% 70% 30% 5% 10%	Fluvial: ---							
		Current:	1.m 50% 70% 30% 5% 10%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
486	0.2	Landform:	Mountains	Topo/fire							
		Elevation:	1600-2100 m	Cuarg	30.0	Arpu5	10.0	---	---	Bocu	1.0
		Slope:		Jude2	5.0	Cemo2	2.0	---	---	Bogr2	1.0
		Gradient:	60 % Length: 5 m	Pimo	1.0	Nomi	2.0	---	---	Mulo	0.1
		Aspect:	North Class: Simple	Pipos	5.0	Qutu2	5.0	---	---	Mumo	0.1
		Shape, Plan:	Linear	Quar	1.0	---	---	---	---	Pofe	0.1
		Shape, Section:	Convex	---							
		Precipitation:	46-60 cm Bedrock: Granite	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, gr, rh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 60% 70% 50% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 60% 70% 50% 5% 10%	Fluvial: ---							
		Current:	3.m 60% 70% 50% 5% 10%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
486	0.3	Landform:	Escarpments	---							
		Elevation:	1000-1600 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	South Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy: Height, OvStr; Surface Components: RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
486	0.4	Landform:	Escarpments	---							
		Elevation:	1600-2100 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
		Aspect:	North Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Linear	---							
		Precipitation:	46-60 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy: Height, OvStr; Surface Components: RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
487	0.1	Landform:	Mountains	Edaphic							
		Elevation:	1000-1600 m	Jude2	10.0	Arpu5	5.0	ERIO6	0.1	Bocu	1.0
		Slope:		Juos	15.0	Gawr3	1.0	Erci6	0.1	Boer4	0.1
		Gradient:	60 % Length: 5 m	Pimo	5.0	Nomi	2.0	---	---	Bogr2	1.0
		Aspect:	South Class: Simple	Quar	0.1	Qutu2	10.0	---	---	Bohi2	1.0
		Shape, Plan:	Linear	Quem	0.1	---	---	---	---	Stsp3	5.0
		Shape, Section:	Convex	---							
		Precipitation:	46-56 cm Bedrock: Granite	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, gr, rh	---	---	---	---	---	---	---	---
		Condition	Canopy: Height, OvStr; Surface Components: RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	1.m 50% 70% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 50% 70% 30% 5% 10%	Fluvial: ---							
		Current:	1.m 50% 70% 30% 5% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
487 0.2	Landform:	Mountains							Edaphic							
	Elevation:	2500-3000 m							Abco	30.0	Bere	5.0	Arfr2	2.0	Bran	0.1
	Slope:								Pipos	15.0	Juco6	0.1	Frvea	2.0	Fear2	0.1
	Gradient:	60 %	Length:	5 m					Pist3	5.0	Famy	1.0	Geri	0.1	---	---
	Aspect:	North	Class:	Simple					Potr5	10.0	Guga	1.0	---	---	---	---
	Shape, Plan:	Linear							Psmeg	30.0	Syor2	0.1	---	---	---	---
	Shape, Section:	Convex							---							
	Precipitation:	60-70 cm	Bedrock:	Granite					---	---	---	---	---	---	---	---
	Parent Material:	Residuum, gr, rh							---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	65%	90%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	1.m	80%	65%	90%	10%	5%		Fluvial: ---							
	Current:	1.m	80%	65%	90%	10%	5%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
487 0.3	Landform:	Escarpments							---							
	Elevation:	1000-1600 m							---	---	---	---	---	---	---	---
	Slope:								---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m					---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple					---	---	---	---	---	---	---	---
	Shape, Plan:	Linear							---	---	---	---	---	---	---	---
	Shape, Section:	Linear							---							
	Precipitation:	46-56 cm	Bedrock:	---					---	---	---	---	---	---	---	---
	Parent Material:	,							---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%		Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features								Climax Plant Community (canopy cover)							
									Tree	%	Shrub	%	Forb	%	Graminoid	%
487 0.4	Landform:	Escarpments							---							
	Elevation:	2500-3000 m							---	---	---	---	---	---	---	---
	Slope:								---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m					---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple					---	---	---	---	---	---	---	---
	Shape, Plan:	Linear							---	---	---	---	---	---	---	---
	Shape, Section:	Linear							---							
	Precipitation:	60-70 cm	Bedrock:	---					---	---	---	---	---	---	---	---
	Parent Material:	,							---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil		---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%		---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%		Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%		Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
490 0.1	Landform:	Hills					Edaphic							
	Elevation:	1300-1700 m					---	---	Mibi3	1.0	---	---	Anci	2.0
	Slope:						---	---	Nomi	0.1	---	---	Bocu	10.0
	Gradient:	25 %	Length:	10 m			---	---	Prgl2	10.0	---	---	Bohi2	10.0
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	Erin	2.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Muem	1.0
	Shape, Section:	Convex					---							
	Precipitation:	36-46 cm	Bedrock:	Conglomerate			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, rh, gr					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	15%	50%	5%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	15%	50%	5%	20%	25%	Fluvial: ---							
	Current:	0.5m	25%	50%	5%	5%	40%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
490 0.2	Landform:	Hills					Edaphic							
	Elevation:	1700-2100 m					Jude2	5.0	Arpu5	5.0	---	---	Anci	1.0
	Slope:						Pidi	5.0	Comes	0.1	---	---	Bocu	5.0
	Gradient:	25 %	Length:	10 m			Quem	5.0	Dawh2	1.0	---	---	Bogr2	1.0
	Aspect:	North	Class:	Simple			Quar	1.0	Nomi	1.0	---	---	Bohi2	2.0
	Shape, Plan:	Linear					Jumo	1.0	Rhchi	1.0	---	---	---	---
	Shape, Section:	Convex					---							
	Precipitation:	46-56 cm	Bedrock:	Conglomerate			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sts					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	50%	30%	40%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	50%	30%	40%	15%	20%	Fluvial: ---							
	Current:	1.m	50%	30%	40%	5%	30%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
490 0.3	Landform:	Elevated plains					Edaphic							
	Elevation:	1300-1600 m					---	---	Mibi3	1.0	---	---	Anci	2.0
	Slope:						---	---	Nomi	0.1	---	---	Bocu	10.0
	Gradient:	4 %	Length:	15 m			---	---	Prgl2	10.0	---	---	Boer4	5.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Bohi2	10.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Erin	2.0
	Shape, Section:	Linear					Edaphic/zootic							
	Precipitation:	36-46 cm	Bedrock:	Conglomerate			---	---	Gusa2	15.0	---	---	Anci	1.0
	Parent Material:	Residuum, ss, sh, gr					---	---	Mibi3	5.0	---	---	Bocu	4.0
	Condit-	Canopy	Surface Components				---	---	Nomi	1.0	---	---	Boer4	1.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	Prgl2	25.0	---	---	Bohi2	5.0
	Tolerance:	0.5m	15%	30%	5%	---%	---%	---	---	---	---	---	---	Erin	1.0
	Natural:	0.5m	15%	30%	5%	25%	45%	Fluvial: ---							
	Current:	0.5m	25%	30%	5%	5%	60%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
491 0.1	Landform:	Hills	Edaphic							
	Elevation:	1300-1700 m	---	---	Mibi3	1.0	---	---	Anci	2.0
	Slope:		---	---	Nomi	0.1	---	---	Bocu	10.0
	Gradient:	25 % Length: 10 m	---	---	Prgl2	10.0	---	---	Bohi2	10.0
	Aspect:	South Class: Simple	---	---	---	---	---	---	Erin	2.0
	Shape, Plan:	Linear	---	---	---	---	---	---	Muem	1.0
	Shape, Section:	Convex	---							
	Precipitation:	36-46 cm Bedrock: Conglomerate	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, rh, gr	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m 15% 50% 5% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	0.5m 15% 50% 5% 25% 20%	Fluvial: ---							
	Current:	0.5m 15% 50% 5% 15% 30%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
491 0.2	Landform:	Hills	Edaphic							
	Elevation:	1700-2100 m	Jude2	5.0	Comes	0.1	---	---	Anci	1.0
	Slope:		Jumo	1.0	Dawh2	0.1	---	---	Bocu	5.0
	Gradient:	25 % Length: 10 m	Pied	5.0	Nomi	1.0	---	---	Bogr2	1.0
	Aspect:	North Class: Simple	Qugr3	1.0	Rhchi	1.0	---	---	Bohi	2.0
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Convex	---							
	Precipitation:	46-56 cm Bedrock: Conglomerate	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sts	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m 50% 25% 40% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	1.m 50% 25% 40% 20% 10%	Fluvial: ---							
	Current:	1.m 50% 25% 40% 5% 25%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
491 0.3	Landform:	Elevated plains	Edaphic							
	Elevation:	1300-1600 m	---	---	Mibi3	1.0	---	---	Anci	2.0
	Slope:		---	---	Nomi	0.1	---	---	Bocu	10.0
	Gradient:	4 % Length: 15 m	---	---	Prgl2	10.0	---	---	Boer4	5.0
	Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Bohi2	10.0
	Shape, Plan:	Linear	---	---	---	---	---	---	Erin	2.0
	Shape, Section:	Linear	Edaphic/zootic							
	Precipitation:	36-46 cm Bedrock: Conglomerate	---	---	Gusa2	25.0	---	---	Anci	1.0
	Parent Material:	Residuum, ss, sts	---	---	Mibi3	5.0	---	---	Bocu	4.0
	Condit-	Canopy / Surface Components	---	---	Nomi	1.0	---	---	Boer4	1.0
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	Prgl2	20.0	---	---	Bohi2	5.0
	Tolerance:	0.5m 15% 30% 5% ---% ---%	---	---	---	---	---	---	Erin	1.0
	Natural:	0.5m 15% 30% 5% 25% 45%	Fluvial: ---							
	Current:	0.5m 25% 30% 5% 10% 55%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
500	0.1	Landform:	Valley plains	Topo/edaphic							
		Elevation:	2200-2500 m	Pipos	0.0	Quga	0.0	Acmil	2.0	Fear2	40.0
		Slope:		---	---	---	---	Arno2	0.1	Kopy	1.0
		Gradient:	3 % Length: 15 m	---	---	---	---	Arfr4	0.1	Mumo	10.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	Ersp	0.1	Pofe	0.1
		Shape, Plan:	Linear	---	---	---	---	---	---	Popr	0.5
		Shape, Section:	Concave	Topo/edaphic/zootic							
		Precipitation:	46-60 cm Bedrock: ---	Pipos	0.0	Quga	0.0	Acmil	5.0	Fear2	10.0
		Parent Material:	Alluvium, rh	---	---	---	---	Arno2	1.0	Kopy	1.0
		Condit-	Canopy / Surface Components	---	---	---	---	Arfr4	1.0	Mumo	4.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	Ersp	1.0	Pofe	0.1
		Tolerance:	0.m 0% 5% 20% ---% ---%	---	---	---	---	---	---	Popr	35.0
		Natural:	0.m 0% 5% 20% 15% 30%	Fluvial: ---							
		Current:	0.m 0% 5% 10% 35% 50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
500	0.2	Landform:	Valley plains	Edaphic							
		Elevation:	2200-2500 m	Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	10.0
		Slope:		Quga	1.0	Cefe	0.1	Luar3	4.0	Bltr	0.1
		Gradient:	3 % Length: 15 m	---	---	Quga	1.0	Ptan2	0.1	Kopy	1.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Mumo	2.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	3.0
		Shape, Section:	Concave	---							
		Precipitation:	46-60 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, rh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 60% 5% 50% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 60% 5% 50% 15% 35%	Fluvial: ---							
		Current:	3.m 60% 5% 50% 5% 40%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
501	0.1	Landform:	Valley plains	Topo/edaphic							
		Elevation:	2200-2500 m	Pipos	0.0	Quga	0.0	Acmil	1.0	Fear2	40.0
		Slope:		---	---	---	---	Arno2	0.1	Kopy	1.0
		Gradient:	3 % Length: 15 m	---	---	---	---	Arfr4	0.1	Mumo	10.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	Ersp	0.1	Pofe	0.1
		Shape, Plan:	Linear	---	---	---	---	Poan5	0.1	Popr	0.5
		Shape, Section:	Concave	Topo/edaphic/zootic							
		Precipitation:	46-60 cm Bedrock: ---	Pipos	0.0	Quga	0.0	Acmil	5.0	Fear2	10.0
		Parent Material:	Alluvium, rh, ss	---	---	---	---	Arno2	1.0	Kopy	1.0
		Condit-	Canopy / Surface Components	---	---	---	---	Arfr4	1.0	Mumo	4.0
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	Ersp	1.0	Pofe	0.1
		Tolerance:	0.m 0% 5% 20% ---% ---%	---	---	---	---	Poan5	1.0	Popr	35.0
		Natural:	0.m 0% 5% 20% 45% 30%	Fluvial: ---							
		Current:	0.m 0% 5% 10% 35% 50%	Lacustrine: ---							

Map Unit No. Comp

501 0.2

Landscape Features

Landform: Valley plains
Elevation: 2200-2500 m
Slope:
Gradient: 1 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Concave
Precipitation: 46-60 cm Bedrock: ---
Parent Material: Alluvium, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	3.m	40%	5%	30%	---%	---%
Natural:	3.m	40%	5%	30%	35%	30%
Current:	3.m	40%	5%	30%	5%	60%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Poan3	10.0	Bere	0.1	Acmil	2.0	Bran	2.0
---	---	Pamy	0.1	Arfr2	1.0	CAREX	5.0
---	---	Quga	0.1	Frvea	0.1	Kopy	0.1
---	---	Sasc	5.0	---	---	Pofe	0.1
---	---	---	---	---	---	---	---
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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

510 0.1

Landscape Features

Landform: Valley plains
Elevation: 1000-1600 m
Slope:
Gradient: 3 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Concave
Precipitation: 46-60 cm Bedrock: ---
Parent Material: Alluvium, ss, ls, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	30%	0%	30%	---%	---%
Natural:	1.m	30%	0%	30%	40%	30%
Current:	1.m	30%	0%	30%	20%	60%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Jumo	0.0	Arpu5	5.0	ERIOG	0.1	Scsc	0.1
Juos	10.0	Gawr3	1.0	Erci6	0.1	Bocu	5.0
Juma	1.0	Nomi	1.0	---	---	Boer4	2.0
Pimo	10.0	Qutu2	5.0	---	---	Bogr2	10.0
Quar	0.1	Rhov	0.1	---	---	Bohi2	1.0
Topo/edaphic/zootic							
Jumo	0.0	Arpu5	5.0	ERIOG	1.0	Scsc	0.1
Juos	10.0	Gawr3	1.0	Erci6	0.1	Bocu	0.5
Juma	1.0	Nomi	1.0	---	---	Boer4	0.1
Pimo	10.0	Qutu2	5.0	---	---	Bogr2	5.0
Quar	0.1	Rhov	0.1	---	---	Bohi2	0.5

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

510 0.2

Landscape Features

Landform: Valley plains
Elevation: 1000-1600 m
Slope:
Gradient: 3 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Concave
Precipitation: 46-60 cm Bedrock: ---
Parent Material: Alluvium, ss, ls, gr, rh

Condition	Canopy Height	Canopy OvStr	Surface Components RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	30%	0%	20%	---%	---%
Natural:	1.m	30%	0%	20%	40%	40%
Current:	1.m	30%	0%	20%	20%	50%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Jumo	0.0	Arpu5	5.0	ERIOG	0.1	Scsc	0.1
Juos	10.0	Gawr3	1.0	Erci6	0.1	Bocu	5.0
Juma	1.0	Nomi	1.0	---	---	Boer4	3.0
Pimo	5.0	Qutu2	5.0	---	---	Bogr2	10.0
Quar	0.1	Rhov	0.1	---	---	Bohi2	1.0
Topo/edaphic/zootic							
Jumo	1.0	Arpu5	5.0	ERIOG	1.0	Scsc	0.1
Juos	10.0	Gawr3	1.0	Erci6	0.1	Bocu	2.0
Juma	1.0	Nomi	1.0	---	---	Boer4	1.0
Pimo	5.0	Qutu2	5.0	---	---	Bogr2	5.0
Quar	0.1	Rhov	0.1	---	---	Bohi2	0.5

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
515 0.1	Landform:	Valley plains					Topo/edaphic							
	Elevation:	1900-2200 m					Jude2	0.0	Betr2	0.1	---	---	Agsm	0.5
	Slope:						Jumo	0.0	Rhtr	0.1	---	---	Scsc	1.0
	Gradient:	3 %	Length:	15 m			Pied	0.0	---	---	---	---	Bocu2	5.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Bogr2	40.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Paob	1.0
	Shape, Section:	Concave					Topo/edaphic/zootic							
	Precipitation:	36-46 cm	Bedrock:	---			Jude2	0.0	Betr2	0.1	---	---	Agsm	1.0
	Parent Material:	Alluvium, ls, ss					Jumo	0.0	Gusa2	20.0	---	---	Scsc	1.0
	Condit-	Canopy	Surface Components				Pied	0.0	Rhtr	0.1	---	---	Bocu	1.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	Bogr2	15.0
	Tolerance:	0.m	0%	5%	15%	---%	---%	---	---	---	---	---	---	Paob	1.0
	Natural:	0.m	0%	5%	15%	55%	25%	Fluvial: ---							
	Current:	0.m	0%	5%	10%	40%	45%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
515 0.2	Landform:	Valley plains					Topo/edaphic							
	Elevation:	1700-2100 m					Jumo	0.1	Saex	1.0	---	---	Bogr2	0.1
	Slope:						Pied	0.1	---	---	---	---	CAREX	5.0
	Gradient:	1 %	Length:	15 m			Pofrw	20.0	---	---	---	---	Pofe	1.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Spcr	0.1
	Shape, Plan:	Linear					---	---	---	---	---	---	Sihy	1.0
	Shape, Section:	Concave					Topo/edaphic/zootic							
	Precipitation:	46-56 cm	Bedrock:	---			Jumo	0.1	Saex	0.1	---	---	Bogr2	1.0
	Parent Material:	Alluvium, ls, ss					Pied	0.1	---	---	---	---	CAREX	10.0
	Condit-	Canopy	Surface Components				Pofrw	10.0	---	---	---	---	Pofe	0.5
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	Spcr	0.1
	Tolerance:	1.m	25%	5%	25%	---%	---%	---	---	---	---	---	---	Sihy	1.0
	Natural:	1.m	25%	5%	25%	25%	40%	Fluvial: ---							
	Current:	1.m	10%	5%	25%	10%	60%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
516 0.1	Landform:	Valley plains					Topo/edaphic							
	Elevation:	2200-2500 m					Pipos	0.0	---	---	---	---	Bltr	1.0
	Slope:						Quga	0.0	---	---	---	---	Fear2	45.0
	Gradient:	3 %	Length:	15 m			---	---	---	---	---	---	Kopy	1.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Mumo	10.0
	Shape, Plan:	Linear					---	---	---	---	---	---	Popr	1.0
	Shape, Section:	Concave					Topo/edaphic/zootic							
	Precipitation:	46-60 cm	Bedrock:	---			Pipos	0.0	---	---	---	---	Bltr	1.0
	Parent Material:	Alluvium, ls, ss					Quga	0.0	---	---	---	---	Fear2	10.0
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	Kopy	1.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	Mumo	2.0
	Tolerance:	0.m	0%	5%	30%	---%	---%	---	---	---	---	---	---	Popr	50.0
	Natural:	0.m	0%	5%	30%	45%	20%	Fluvial: ---							
	Current:	0.m	0%	5%	25%	20%	50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
516	0.2	Landform:	Valley plains					Topo/edaphic							
		Elevation:	2200-2500 m					Jusc2	0.1	---	---	---	---	Fear2	10.0
		Slope:						Pipos	0.1	---	---	---	---	Kopy	1.0
		Gradient:	1 %	Length:	15 m			Poan3	10.0	---	---	---	---	Pofe	5.0
		Aspect:	Noninfl.	Class:	Simple			---	---	---	---	---	---	Popr	1.0
		Shape, Plan:	Linear					---	---	---	---	---	---	---	---
		Shape, Section:	Concave					Topo/edaphic/zootic							
		Precipitation:	46-60 cm	Bedrock:	---			Jusc2	0.1	---	---	---	---	Fear2	1.0
		Parent Material:	Alluvium, ls, ss					Pipos	0.1	---	---	---	---	Kopy	1.0
		Condit-	Canopy		Surface Components			Poan3	4.0	---	---	---	---	Pofe	1.0
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	Popr	15.0
		Tolerance:	3.m	40%	5%	30%	---%	---%	---	---	---	---	---	---	---
		Natural:	3.m	40%	5%	30%	45%	20%	Fluvial: ---						
		Current:	3.m	40%	5%	30%	35%	30%	Lacustrine: ---						

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
517	0.1	Landform:	Valley plains					Topo/edaphic							
		Elevation:	2500-2900 m					Abco	0.0	Syor2	0.1	---	---	Bltr	1.0
		Slope:						Pipos	0.0	---	---	---	---	Bran	15.0
		Gradient:	3 %	Length:	15 m			Psmeg	0.0	---	---	---	---	Fear2	25.0
		Aspect:	Noninfl.	Class:	Simple			Pipu	0.0	---	---	---	---	Mumo	10.0
		Shape, Plan:	Linear					---	---	---	---	---	---	Popr	5.0
		Shape, Section:	Concave					Topo/edaphic/zootic							
		Precipitation:	60-70 cm	Bedrock:	---			Abco	0.0	Syor2	0.1	---	---	Bltr	1.0
		Parent Material:	Alluvium, ls, ss					Pipos	0.0	---	---	---	---	Bran	5.0
		Condit-	Canopy		Surface Components			Psmeg	0.0	---	---	---	---	Fear2	5.0
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	Pipu	0.0	---	---	---	---	Mumo	2.0
		Tolerance:	0.m	0%	5%	5%	---%	---%	---	---	---	---	---	---	Popr	50.0
		Natural:	0.m	0%	5%	5%	50%	40%	Fluvial: ---							
		Current:	0.m	0%	5%	5%	45%	45%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features						Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
517	0.2	Landform:	Valley plains					Topo/edaphic							
		Elevation:	2500-2900 m					Jusc2	0.0	---	---	---	---	Bltr	0.1
		Slope:						Pipos	0.1	---	---	---	---	Fear2	10.0
		Gradient:	1 %	Length:	15 m			Poan3	30.0	---	---	---	---	Bran	0.1
		Aspect:	Noninfl.	Class:	Simple			Psmeg	0.1	---	---	---	---	Mumo	2.0
		Shape, Plan:	Linear					Pipu	0.1	---	---	---	---	Popr	5.0
		Shape, Section:	Concave					Topo/edaphic/zootic							
		Precipitation:	60-70 cm	Bedrock:	---			Jusc2	0.0	---	---	---	---	Bltr	0.1
		Parent Material:	Alluvium, ls, ss					Pipos	0.1	---	---	---	---	Fear2	1.0
		Condit-	Canopy		Surface Components			Poan3	15.0	---	---	---	---	Bran	0.1
		ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	Psmeg	0.1	---	---	---	Mumo	0.1
		Tolerance:	1.m	50%	5%	40%	---%	---%	Pipu	0.1	---	---	---	Popr	30.0
		Natural:	1.m	50%	5%	40%	20%	35%	Fluvial: ---						
		Current:	1.m	50%	5%	40%	10%	45%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
518 0.1	Landform:	Valley plains						Topo/edaphic							
	Elevation:	1900-2200 m						Jude2	0.0	Betr2	0.1	---	---	Agsm	0.1
	Slope:							Jumo	0.0	Rhtr	0.1	---	---	Scsc	2.0
	Gradient:	3 %	Length:	15 m				Pied	0.0	---	---	---	---	Bocu	1.0
	Aspect:	Noninfl.	Class:	Simple				---	---	---	---	---	---	Bogr2	40.0
	Shape, Plan:	Linear						---	---	---	---	---	---	Paob	1.0
	Shape, Section:	Concave						Topo/edaphic/zootic							
	Precipitation:	36-46 cm	Bedrock:	---				Jude2	0.0	Betr2	0.1	---	---	Agsm	0.5
	Parent Material:	Alluvium, ls, ss						Jumo	0.0	Gusa2	15.0	---	---	Scsc	1.0
	Condit-	Canopy	Surface Components					Pied	0.0	Rhtr	0.1	---	---	Bocu	0.5
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	Bogr2	20.0
	Tolerance:	0.m	0%	5%	15%	---%	---%	---	---	---	---	---	---	Paob	1.0
	Natural:	0.m	0%	5%	15%	55%	25%	Fluvial: ---							
	Current:	0.m	0%	5%	10%	40%	45%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
551 0.1	Landform:	Hills						Edaphic							
	Elevation:	1900-2200 m						Jude2	15.0	Betr2	0.1	---	---	Agsm	0.1
	Slope:							Jumo	5.0	Cemo2	1.0	---	---	Bocu	1.0
	Gradient:	25 %	Length:	10 m				Pied	15.0	Quun	0.1	---	---	Bogr2	10.0
	Aspect:	All	Class:	Simple				---	---	Rhtr	1.0	---	---	Lyph	0.1
	Shape, Plan:	Linear						---	---	---	---	---	---	Sihy	0.1
	Shape, Section:	Concave						---							
	Precipitation:	36-46 cm	Bedrock:	Limestone				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ls						---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	35%	50%	35%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	35%	50%	35%	25%	10%	Fluvial: ---							
	Current:	1.m	35%	50%	30%	10%	25%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
551 0.2	Landform:	Elevated plains						Edaphic							
	Elevation:	1900-2200 m						Jude2	15.0	Betr2	0.1	---	---	Agsm	0.1
	Slope:							Jumo	5.0	Cemo2	2.0	---	---	Bocu	1.0
	Gradient:	4 %	Length:	15 m				Pied	15.0	Quun	0.1	---	---	Bogr2	10.0
	Aspect:	Noninfl.	Class:	Simple				---	---	Rhtr	0.1	---	---	Lyph	0.1
	Shape, Plan:	Linear						---	---	---	---	---	---	Stne2	10.0
	Shape, Section:	Linear						Edaphic/zootic							
	Precipitation:	36-46 cm	Bedrock:	---				Jude2	15.0	Betr2	0.1	---	---	Agsm	1.0
	Parent Material:	Alluvium, ls, sts						Jumo	5.0	Cemo2	1.0	---	---	Bocu	1.0
	Condit-	Canopy	Surface Components					Pied	15.0	Gusa2	10.0	---	---	Bogr2	5.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	Quun	0.1	---	---	Lyph	0.1
	Tolerance:	1.m	40%	35%	30%	---%	---%	---	---	Rhtr	0.1	---	---	Stne2	1.0
	Natural:	1.m	40%	35%	30%	25%	10%	Fluvial: ---							
	Current:	1.m	40%	35%	30%	10%	25%	Lacustrine: ---							

Map Unit No. Comp «═══ Landscape Features ═══»

553 0.1

Landform: Mountains
Elevation: 2500-2900 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 60-70 cm Bedrock: Limestone
Parent Material: Residuum, ls

Condit-ion	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	80%	65%	75%	---%	---%
Natural:	1.m	80%	65%	75%	15%	0%
Current:	1.m	80%	65%	75%	15%	0%

«═══ Climax Plant Community (canopy cover) ═══»

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Abco	30.0	Bere	3.0	Alge	0.1	Bran	10.0
Pipos	15.0	Juco6	0.1	Arfr4	2.0	Fear2	0.1
Pist3	5.0	Pamy	1.0	Frvea	2.0	---	---
Potr5	10.0	Quga	1.0	Geca3	0.1	---	---
Psmeg	30.0	Rone	0.1	Larr	0.1	---	---

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---	---	---	---	---	---	---	---

Fluvial: ---
Lacustrine: ---

Map Unit No. Comp «═══ Landscape Features ═══»

553 0.2

Landform: Mountains
Elevation: 2900-3700 m
Slope:
Gradient: 60 % Length: 5 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 70-80 cm Bedrock: Limestone
Parent Material: Residuum, ls

Condit-ion	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	0.5m	90%	65%	95%	---%	---%
Natural:	0.5m	90%	65%	95%	5%	0%
Current:	0.5m	90%	65%	95%	5%	0%

«═══ Climax Plant Community (canopy cover) ═══»

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Ablaa	40.0	Juco6	0.0	Erex4	2.0	Brci2	0.1
Pien	50.0	Rimo2	0.1	Frvea	2.0	Lupa4	0.1
Potr5	1.0	Vamy2	10.0	Goob2	1.0	Trmo5	0.1
---	---	Vasc	1.0	Hapa6	1.0	---	---
---	---	---	---	Pode4	2.0	---	---

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp «═══ Landscape Features ═══»

553 0.3

Landform: Escarpments
Elevation: 2500-2900 m
Slope:
Gradient: 100 % Length: 5 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Linear
Precipitation: 60-70 cm Bedrock: ---
Parent Material: ,

Condit-ion	Canopy Height	OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

«═══ Climax Plant Community (canopy cover) ═══»

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
553 0.4	Landform:	Escarpments					---							
	Elevation:	2900-3700 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	70-80 cm	Bedrock: ---				---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
554 0.1	Landform:	Elevated plains					Edaphic							
	Elevation:	2900-3700 m					Ablaa	0.0	Juco6	0.0	Arfr2	0.1	CAREX	5.0
	Slope:						Pien	0.0	---	---	Caro2	1.0	Dain	10.0
	Gradient:	4 %	Length:	15 m			Potr5	0.0	---	---	Laar	1.0	Feov	25.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	Poan5	3.0	Feth	25.0
	Shape, Plan:	Linear					---	---	---	---	Viam	1.0	---	---
	Shape, Section:	Linear					---							
	Precipitation:	70-80 cm	Bedrock: Sandstone				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.m	0%	20%	45%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.m	0%	20%	45%	55%	0%	Fluvial: ---							
	Current:	0.m	0%	20%	10%	25%	45%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
554 0.2	Landform:	Hills					Edaphic							
	Elevation:	2900-3700 m					Ablaa	40.0	Juco6	1.0	Erex4	2.0	Brci2	0.1
	Slope:						Pien	50.0	Rimo2	0.1	Frvea	2.0	Lupa4	0.1
	Gradient:	25 %	Length:	10 m			Potr5	1.0	Vamy2	10.0	Goob2	1.0	Trmo5	0.1
	Aspect:	All	Class:	Simple			---	---	Vasc	1.0	Hapa6	1.0	---	---
	Shape, Plan:	Linear					---	---	---	---	Pode4	2.0	---	---
	Shape, Section:	Convex					---							
	Precipitation:	70-80 cm	Bedrock: Sandstone				---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ss, sh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.5m	90%	20%	95%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	0.5m	90%	20%	95%	5%	0%	Fluvial: ---							
	Current:	0.5m	90%	20%	95%	5%	0%	Lacustrine: ---							

Map Unit 555 0.1

Landscape Features	
Landform:	Mountains
Elevation:	2900-3700 m
Slope:	
Gradient:	25 % Length: 10 m
Aspect:	All Class: Simple
Shape, Plan:	Linear
Shape, Section:	Convex
Precipitation:	70-80 cm Bedrock: Rhyolite
Parent Material:	Residuum, rh, da

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	0.m	0%	20%	45%	---%	---%
Natural:	0.m	0%	20%	45%	55%	0%
Current:	0.m	0%	20%	10%	25%	45%

Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Ablaa	0.0	Juco6	0.0	Arfr2	0.1	CAREX	5.0
Pien	0.0	---	---	Caro2	1.0	Dain	10.0
Potr5	0.0	---	---	Laar	1.0	Feov	25.0
---	---	---	---	Poan5	3.0	Feth	25.0
---	---	---	---	Viam	1.0	---	---

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Fluvial: ---							
Lacustrine: ---							

Map Unit 556 0.1

Landscape Features	
Landform:	Hills
Elevation:	2500-2900 m
Slope:	
Gradient:	25 % Length: 10 m
Aspect:	All Class: Simple
Shape, Plan:	Linear
Shape, Section:	Convex
Precipitation:	60-70 cm Bedrock: ---
Parent Material:	Alluvium, ss, sh

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	60%	25%	50%	---%	---%
Natural:	1.m	60%	25%	50%	15%	10%
Current:	1.m	60%	25%	50%	10%	15%

Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic							
Pipos	0.0	Guga	60.0	---	---	Bltr	1.0
Psmeg	0.0	---	---	---	---	Bran	1.0
---	---	---	---	---	---	Fear2	5.0
---	---	---	---	---	---	Kopy	2.0
---	---	---	---	---	---	Mumo	5.0

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Fluvial: ---							
Lacustrine: ---							

Map Unit 556 0.2

Landscape Features	
Landform:	Elevated plains
Elevation:	2500-2900 m
Slope:	
Gradient:	4 % Length: 15 m
Aspect:	Noninfl. Class: Simple
Shape, Plan:	Linear
Shape, Section:	Linear
Precipitation:	60-70 cm Bedrock: ---
Parent Material:	Alluvium, ss, sh

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	0.m	0%	25%	10%	---%	---%
Natural:	0.m	0%	25%	10%	60%	0%
Current:	0.m	0%	25%	5%	25%	45%

Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo/edaphic/fire							
---	---	---	---	Arfr4	0.1	Bran	20.0
---	---	---	---	Caro2	1.0	Dapa2	5.0
---	---	---	---	Laar	0.5	Fear2	30.0
---	---	---	---	Viam	0.1	Mumo	5.0
---	---	---	---	---	---	Popr	0.5
Topo/edaphic/fire/zo							
---	---	---	---	Arfr4	1.0	Bran	10.0
---	---	---	---	Caro2	1.0	Dapa2	3.0
---	---	---	---	Laar	1.0	Fear2	15.0
---	---	---	---	Viam	1.0	Mumo	2.0
---	---	---	---	---	---	Popr	15.0
Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
556 0.3	Landform:	Valley plains					Topo/edaphic							
	Elevation:	2500-2900 m					Acne2	5.0	Sabe2	10.0	Hadi	5.0	Cala	1.0
	Slope:						Alob2	20.0	Sala5	30.0	Liaq	5.0	Cane2	10.0
	Gradient:	3 %	Length:	15 m			Alte2	15.0	Samo2	5.0	Oxfe	5.0	Elac	1.0
	Aspect:	Noninfl.	Class:	Simple			Poan3	1.0	---	---	Rahy	4.0	Elma	1.0
	Shape, Plan:	Linear					---	---	---	---	Vepe2	5.0	Juar2	10.0
	Shape, Section:	Concave					---							
	Precipitation:	60-70 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	Alluvium, ss, sh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	20%	60%	---%	---%	---	---	---	---	---	---	---
	Natural:	1.m	80%	20%	60%	30%	0%	Fluvial: ---						
	Current:	1.m	80%	20%	60%	20%	10%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
558 0.1	Landform:	Valley plains					Topo/edaphic							
	Elevation:	2500-2900 m					Pipos	0.0	Guga	0.0	Arfr2	0.1	Bran	20.0
	Slope:						Psmeg	0.0	Pofr4	1.0	Caro2	1.0	Dapa2	5.0
	Gradient:	3 %	Length:	15 m			---	---	---	---	Laar	1.0	Fear2	10.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	Poan5	2.0	Mumo	5.0
	Shape, Plan:	Linear					---	---	---	---	Viam	1.0	Popr	0.5
	Shape, Section:	Linear					Topo/edaphic/zootic							
	Precipitation:	60-70 cm	Bedrock:	---			Pipos	0.0	Guga	0.0	Arfr2	1.0	Bran	5.0
	Parent Material:	Alluvium, ss, sh, gr					Psmeg	0.0	Pofr4	20.0	Caro2	1.0	Dapa2	1.0
	Condit-	Canopy	Surface Components				---	---	---	---	Laar	1.0	Fear2	5.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	Poan5	2.0	Mumo	1.0
	Tolerance:	0.m	0%	5%	30%	---%	---%	---	---	---	---	Viam	1.0	Popr	30.0
	Natural:	0.m	0%	5%	30%	55%	20%	Fluvial: ---						
	Current:	0.m	25%	5%	10%	30%	55%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
558 0.2	Landform:	Valley plains					Topo/edaphic							
	Elevation:	2500-2900 m					Acne2	5.0	Pamy	1.0	---	---	Cave6	1.0
	Slope:						Alob2	2.0	ROSA	2.0	---	---	Elma	1.0
	Gradient:	1 %	Length:	15 m			Poac	2.0	Saex	5.0	---	---	Feov	2.0
	Aspect:	Noninfl.	Class:	Simple			Poan3	20.0	Sala5	0.1	---	---	---	---
	Shape, Plan:	Linear					Pipu	0.1	---	---	---	---	---	---
	Shape, Section:	Concave					Topo/edaphic/zootic							
	Precipitation:	60-70 cm	Bedrock:	---			Acne2	5.0	Pamy	1.0	---	---	Cave6	1.0
	Parent Material:	Alluvium, ss, sh, gr					Ablo2	2.0	ROSA	2.0	---	---	Elma	0.5
	Condit-	Canopy	Surface Components				Poac	2.0	Saex	2.0	---	---	Feov	1.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	Poan3	10.0	Sala5	0.1	---	---	---	---
	Tolerance:	1.m	40%	5%	35%	---%	---%	Pipu	0.1	---	---	---	---	---	---
	Natural:	1.m	40%	5%	35%	45%	15%	Fluvial: ---						
	Current:	1.m	40%	5%	35%	15%	45%	Lacustrine: ---						

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
559 0.1	Landform:	Valley plains					Topo/edaphic							
	Elevation:	2500-2900 m					Pipos	0.0	Buga	0.0	Arfr2	0.1	Bran	20.0
	Slope:						Psmeg	0.0	Pofr4	1.0	Caro2	1.0	Dapa2	5.0
	Gradient:	3 %	Length:	15 m			---	---	---	---	Laar	1.0	Fear2	20.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	Poan5	2.0	Mumo	5.0
	Shape, Plan:	Linear					---	---	---	---	Viam	1.0	Popr	0.5
	Shape, Section:	Concave					Topo/edaphic/zootic							
	Precipitation:	60-70 cm	Bedrock:	---			Pipos	0.0	Buga	0.0	Arfr2	1.0	Bran	5.0
	Parent Material:	Alluvium, ss, sh, gr					Psmeg	0.0	Pofr4	20.0	Caro2	1.0	Dapa2	2.0
	Condit-	Canopy	Surface Components				---	---	---	---	Laar	1.0	Fear2	5.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	Poan5	2.0	Mumo	1.0
	Tolerance:	0.m	0%	5%	30%	---%	---%	---	---	---	---	Viam	1.0	Popr	30.0
	Natural:	0.m	0%	5%	30%	55%	20%	Fluvial: ---							
	Current:	0.m	25%	5%	10%	30%	55%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
559 0.2	Landform:	Valley plains					Topo/edaphic							
	Elevation:	2500-2900 m					Acne2	5.0	Pamy	1.0	---	---	Cave6	1.0
	Slope:						Alob2	2.0	ROSA	2.0	---	---	Elma	1.0
	Gradient:	1 %	Length:	15 m			Poac	2.0	Saex	5.0	---	---	Feov	2.0
	Aspect:	Noninfl.	Class:	Simple			Poan3	20.0	Sala5	0.5	---	---	---	---
	Shape, Plan:	Linear					Pipu	0.5	---	---	---	---	---	---
	Shape, Section:	Concave					Topo/edaphic/zootic							
	Precipitation:	60-70 cm	Bedrock:	---			Acne2	5.0	Pamy	1.0	---	---	Cave6	1.0
	Parent Material:	Alluvium, ss, sh					Alob2	2.0	ROSA	2.0	---	---	Elma	1.0
	Condit-	Canopy	Surface Components				Poac	2.0	Saex	1.0	---	---	Feov	1.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	Poan3	10.0	Sala5	0.5	---	---	---	---
	Tolerance:	1.m	40%	5%	35%	---%	---%	Pipu	0.5	---	---	---	---	---	---
	Natural:	1.m	40%	5%	35%	45%	15%	Fluvial: ---							
	Current:	1.m	40%	5%	35%	15%	45%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
560 0.1	Landform:	Elevated plains					Edaphic/fire							
	Elevation:	2200-2500 m					Pipos	0.0	---	---	Acmil	1.0	Bltr	1.0
	Slope:						---	---	---	---	Arlu	0.1	Fear2	40.0
	Gradient:	4 %	Length:	15 m			---	---	---	---	Arfr4	2.0	Mumo	10.0
	Aspect:	Noninfl.	Class:	Simple			---	---	---	---	Laar	2.0	Pofe	2.0
	Shape, Plan:	Linear					---	---	---	---	Taof	0.5	Popr	0.5
	Shape, Section:	Linear					Edaphic/fire/zootic							
	Precipitation:	46-60 cm	Bedrock:	basalt			Pipos	0.0	Chna2	1.0	Acmil	5.0	Bltr	1.0
	Parent Material:	Residuum, ci					---	---	Hyri	1.0	Arlu	2.0	Fear2	10.0
	Condit-	Canopy	Surface Components				---	---	---	---	Arfr4	3.0	Mumo	5.0
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	Laar	2.0	Pofe	0.5
	Tolerance:	0.m	0%	30%	30%	---%	---%	---	---	---	---	Tafo	1.0	Popr	15.0
	Natural:	0.m	0%	30%	30%	50%	10%	Fluvial: ---							
	Current:	0.m	0%	30%	5%	35%	30%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
561	0.1	Landform:	Elevated plains	Edaphic/fire							
		Elevation:	2200-2500 m	Pipos	0.0	Quga	0.0	Acmil	1.0	Bltr	0.5
		Slope:		---	---	---	---	---	---	Fear2	40.0
		Gradient:	4 % Length: 15 m	---	---	---	---	---	---	Mumo	10.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Pofe	3.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Popr	0.5
		Shape, Section:	Linear	Edaphic/fire/zootic							
		Precipitation:	46-60 cm Bedrock: ---	Pipos	0.0	Quga	0.0	Acmil	5.0	Bltr	0.5
		Parent Material:	Alluvium, ss, ba	---	---	---	---	---	---	Fear2	5.0
		Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	Mumo	2.0
				---	---	---	---	---	---	Pofe	1.0
		Tolerance:	0.m 0% 10% 30% ---% ---%	---	---	---	---	---	---	Popr	15.0
		Natural:	0.m 0% 10% 30% 50% 10%	Fluvial: ---							
		Current:	0.m 0% 10% 10% 25% 55%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
562	0.1	Landform:	Hills	Edaphic							
		Elevation:	1900-2200 m	Jude2	15.0	Betr2	0.1	---	---	Scsc	2.0
		Slope:		Jumo	5.0	Cemo2	0.5	---	---	Bocu	1.0
		Gradient:	25 % Length: 10 m	Pied	15.0	Quun	0.5	---	---	Bogr2	10.0
		Aspect:	All Class: Simple	---	---	Rhtr	0.1	---	---	Lyph	0.5
		Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	0.2
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, ls	---	---	---	---	---	---	---	---
		Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
				---	---	---	---	---	---	---	---
		Tolerance:	1.m 40% 40% 30% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 40% 40% 30% 25% 5%	Fluvial: ---							
		Current:	1.m 40% 40% 30% 10% 20%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
563	0.1	Landform:	Hills, mountains	Edaphic							
		Elevation:	1900-2200 m	Jude2	15.0	Betr2	0.1	---	---	Scsc	2.0
		Slope:		Jumo	5.0	Cemo2	0.5	---	---	Bocu	1.0
		Gradient:	60 % Length: 5 m	Pied	10.0	Quun	0.5	---	---	Bogr2	5.0
		Aspect:	South Class: Simple	---	---	Rhtr	0.1	---	---	Lyph	0.2
		Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	0.1
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
		Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
				---	---	---	---	---	---	---	---
		Tolerance:	1.m 30% 70% 25% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	1.m 30% 70% 25% 10% 10%	Fluvial: ---							
		Current:	1.m 30% 70% 25% 10% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
563 0.2	Landform:	Mountains					Edaphic							
	Elevation:	2500-2900 m					Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
	Slope:						Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
	Gradient:	60 %	Length:	5 m			Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
	Aspect:	North	Class:	Simple			Potr5	10.0	Quga	5.0	Geca3	0.1	---	---
	Shape, Plan:	Linear					Psmeg	30.0	Rone	0.1	Laar	0.1	---	---
	Shape, Section:	Convex					---							
	Precipitation:	60-70 cm	Bedrock:	Limestone			---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ls					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m	80%	50%	70%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	1.m	80%	50%	70%	30%	0%	Fluvial: ---							
	Current:	1.m	80%	50%	70%	30%	0%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
563 0.3	Landform:	Escarpments					---							
	Elevation:	1900-2200 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	South	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
563 0.4	Landform:	Escarpments					---							
	Elevation:	2500-2900 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	100 %	Length:	5 m			---	---	---	---	---	---	---	---
	Aspect:	North	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Linear					---							
	Precipitation:	60-70 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit 565 0.1

Landscape Features

Landform:	Elevated plains
Elevation:	1900-2200 m
Slope:	
Gradient:	4 % Length: 15 m
Aspect:	Noninfl. Class: Simple
Shape, Plan:	Linear
Shape, Section:	Linear
Precipitation:	36-46 cm Bedrock: Limestone
Parent Material:	Residuum, ls

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	35%	25%	30%	---%	---%
Natural:	1.m	35%	25%	30%	25%	15%
Current:	1.m	35%	25%	30%	10%	30%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	15.0	Betr2	0.1	---	---	Scsc	2.0
Jumo	5.0	Cemo2	1.0	---	---	Bocu	5.0
Pied	15.0	Quun	0.3	---	---	Bogr2	10.0
---	---	Rhtr	0.1	---	---	Lyph	0.5
---	---	---	---	---	---	Sihy	1.0
Edaphic/zootic							
Jude2	15.0	Betr2	0.1	---	---	Scsc	1.0
Jumo	5.0	Cemo2	0.5	---	---	Bocu	2.0
Pied	15.0	Gusa2	10.0	---	---	Bogr2	5.0
---	---	Quun	0.3	---	---	Lyph	0.5
---	---	Rhtr	0.1	---	---	Sihy	1.0
Fluvial: ---							
Lacustrine: ---							

Map Unit 565 0.2

Landscape Features

Landform:	Hills
Elevation:	1900-2200 m
Slope:	
Gradient:	25 % Length: 10 m
Aspect:	All Class: simple
Shape, Plan:	linear
Shape, Section:	convex
Precipitation:	36-46 cm Bedrock: Limestone
Parent Material:	Residuum, ls

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	1.m	35%	50%	30%	---%	---%
Natural:	1.m	35%	50%	30%	25%	10%
Current:	1.m	35%	50%	30%	10%	25%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Jude2	15.0	Betr2	0.1	---	---	Scsc	2.0
Jumo	5.0	Cemo2	1.0	---	---	Bocu	1.0
Pied	15.0	Quun	0.1	---	---	Bogr2	10.0
---	---	Rhtr	0.1	---	---	Lyph	0.5
---	---	---	---	---	---	Sihy	0.3

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Fluvial: ---							
Lacustrine: ---							

Map Unit 571 0.1

Landscape Features

Landform:	Mountains
Elevation:	2200-2500 m
Slope:	
Gradient:	25 % Length: 10 m
Aspect:	South Class: Simple
Shape, Plan:	Linear
Shape, Section:	Convex
Precipitation:	46-60 cm Bedrock: Limestone
Parent Material:	Residuum, ls

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	3.m	70%	40%	75%	---%	---%
Natural:	3.m	70%	40%	75%	35%	0%
Current:	3.m	70%	40%	70%	20%	15%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Pipos	60.0	Cefe	0.1	Acmil	5.0	Bltr	0.2
Quga	0.5	Quga	5.0	Anro2	0.1	Fear2	5.0
---	---	---	---	Luar3	4.0	Kopy	1.0
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---	---	---	---	---	---	Pofe	3.0

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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp

571 0.2

Landscape Features

Landform: Mountains
Elevation: 2500-3000 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 60-70 cm Bedrock: Limestone
Parent Material: Residuum, ls

Condition	Canopy Height	OvStr	RkFrg	Surface Components Littr	VegBA	BSoil
Tolerance:	1.m	80%	40%	70%	---%	---%
Natural:	1.m	80%	40%	70%	30%	0%
Current:	1.m	80%	40%	70%	20%	10%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
Potr5	10.0	Quga	5.0	Geca3	0.1	---	---
Psmeg	30.0	Rone	0.5	Laar	0.1	---	---

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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp

572 0.1

Landscape Features

Landform: Mountains
Elevation: 2500-3000 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: South Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 60-70 cm Bedrock: Limestone
Parent Material: Residuum, ls

Condition	Canopy Height	OvStr	RkFrg	Surface Components Littr	VegBA	BSoil
Tolerance:	1.m	80%	25%	70%	---%	---%
Natural:	1.m	80%	25%	70%	30%	0%
Current:	1.m	80%	25%	70%	20%	10%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Abco	30.0	Bere	3.0	Alge	0.1	Bran	1.0
Pipos	15.0	Juco6	0.1	Arfr2	2.0	Fear2	0.1
Pist3	0.0	Pamy	1.0	Frvea	2.0	---	---
Potr5	10.0	Quga	5.0	Geca3	0.1	---	---
Psmeg	30.0	Rone	0.5	Laar	0.1	---	---

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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp

572 0.2

Landscape Features

Landform: Mountains
Elevation: 2900-3700 m
Slope:
Gradient: 25 % Length: 10 m
Aspect: North Class: Simple
Shape, Plan: Linear
Shape, Section: Convex
Precipitation: 70-80 cm Bedrock: Limestone
Parent Material: Residuum, ls

Condition	Canopy Height	OvStr	RkFrg	Surface Components Littr	VegBA	BSoil
Tolerance:	1.m	90%	25%	95%	---%	---%
Natural:	1.m	90%	25%	95%	5%	0%
Current:	1.m	90%	25%	95%	5%	0%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Edaphic							
Ablaa	40.0	Juco6	0.1	Erex4	2.0	Brci2	0.1
Pien	50.0	Rimo2	0.1	Frvea	2.0	Lupa4	0.1
Potr5	1.0	Vamy2	10.0	Goob2	1.0	Trmo5	0.1
---	---	Vasc	1.0	Hapa6	1.0	---	---
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Fluvial: ---							
Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
576 0.1	Landform:	Hills	Edaphic							
	Elevation:	1900-2200 m	Jude2	15.0	Betr2	0.1	---	---	Scsc	2.0
	Slope:		Jumo	5.0	Cemo2	1.0	---	---	Bocu	1.0
	Gradient:	25 % Length: 10 m	Pied	15.0	Quun	0.1	---	---	Bogr2	10.0
	Aspect:	South Class: Simple	---	---	Rhtr	0.1	---	---	Lyph	0.5
	Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	0.3
	Shape, Section:	Convex	---							
	Precipitation:	36-46 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m 35% 50% 30% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	1.m 35% 50% 30% 25% 10%	Fluvial: ---							
	Current:	1.m 35% 50% 30% 15% 20%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
576 0.2	Landform:	Mountains	Edaphic							
	Elevation:	2200-2500 m	Pipos	60.0	Cefe	0.1	Acmil	5.0	Bltr	0.2
	Slope:		Quga	0.5	Quga	5.0	Anro2	0.1	Fear2	5.0
	Gradient:	25 % Length: 10 m	---	---	---	---	Luar3	4.0	Kopy	1.0
	Aspect:	North Class: Simple	---	---	---	---	---	---	Mumo	2.0
	Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	3.0
	Shape, Section:	Convex	---							
	Precipitation:	46-60 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m 70% 40% 70% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	3.m 70% 40% 70% 35% 0%	Fluvial: ---							
	Current:	3.m 70% 40% 70% 20% 15%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
580 0.1	Landform:	Elevated plains	Edaphic							
	Elevation:	2500-2900 m	Pipos	0.0	---	---	Arfr4	0.1	Bran	20.0
	Slope:		Potr5	0.0	---	---	Caro2	1.0	Dapa2	5.0
	Gradient:	4 % Length: 15 m	Psmeg	0.0	---	---	Laar	1.0	Fear2	35.0
	Aspect:	Noninfl. Class: Simple	---	---	---	---	Viam	1.0	Kopy	1.0
	Shape, Plan:	Linear	---	---	---	---	---	---	Mumo	1.0
	Shape, Section:	Linear	---							
	Precipitation:	60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	Alluvium, rh, ss	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	0.m 0% 25% 40% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	0.m 0% 25% 40% 50% 10%	Fluvial: ---							
	Current:	0.m 0% 25% 5% 35% 50%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
581	0.1	Landform:	Elevated plains	Edaphic							
		Elevation:	2200-2500 m	Pipos	0.0	Arlu	0.5	---	---	Agsm	5.0
		Slope:		Jude2	0.0	Chna2	1.0	---	---	Bogr2	15.0
		Gradient:	4 % Length: 15 m	---	---	Hyri	0.5	---	---	Kopy	5.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Mumo	30.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Sihy	1.0
		Shape, Section:	Linear	Edaphic/zootic							
		Precipitation:	46-60 cm Bedrock: Basalt	Pipos	0.0	Arlu	2.0	---	---	Agsm	5.0
		Parent Material:	Residuum, ci	Jude2	0.0	Chna2	15.0	---	---	Bogr2	30.0
		Condit-	Canopy / Surface Components	---	---	Hyri	2.0	---	---	Kopy	0.5
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	Mumo	5.0
		Tolerance:	0.m 0% 25% 10% ---% ---%	---	---	---	---	---	---	Sihy	1.0
		Natural:	0.m 0% 25% 10% 50% 10%	Fluvial: ---							
		Current:	0.m 0% 25% 0% 40% 30%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
582	0.1	Landform:	Elevated plains	Edaphic/fire							
		Elevation:	2500-2900 m	Pipos	0.0	---	---	Arfr4	0.1	Bran	20.0
		Slope:		Potr5	0.0	---	---	Caro2	1.0	Dapa2	5.0
		Gradient:	4 % Length: 15 m	Psmeg	0.0	---	---	Laar	1.0	Fear2	35.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	Viam	1.0	Kopy	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Mumo	0.5
		Shape, Section:	Linear	---							
		Precipitation:	60-70 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ci	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.m 0% 20% 20% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.m 0% 20% 20% 55% 0%	Fluvial: ---							
		Current:	0.m 0% 20% 10% 25% 60%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover)							
				Tree	%	Shrub	%	Forb	%	Graminoid	%
592	0.1	Landform:	Hills	Edaphic							
		Elevation:	1300-1700 m	---	---	Fosp2	5.0	---	---	Anci	1.0
		Slope:		---	---	Mibi3	1.0	---	---	Bocu	2.0
		Gradient:	60 % Length: 5 m	---	---	Nomi	0.1	---	---	Bohi2	1.0
		Aspect:	South Class: Simple	---	---	Prgl2	1.0	---	---	Erin	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Muem	0.5
		Shape, Section:	Convex	---							
		Precipitation:	36-46 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	0.5m 5% 75% 5% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 5% 75% 5% 10% 10%	Fluvial: ---							
		Current:	0.5m 5% 75% 5% 5% 15%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
592 0.2	Landform:	Hills	Edaphic							
	Elevation:	1700-2100 m	Jude2	5.0	Arpu5	5.0	---	---	Anci	1.0
	Slope:		Jumo	1.0	Ceno2	15.0	---	---	Bocu	2.0
	Gradient:	60 % Length: 5 m	Pidi	5.0	Nomi	0.2	---	---	Bohi2	1.0
	Aspect:	North Class: Simple	Quar	1.0	Rhchi	0.1	---	---	Bogr2	3.0
	Shape, Plan:	Linear	Quem	1.0	---	---	---	---	---	---
	Shape, Section:	Convex	---							
	Precipitation:	46-56 cm Bedrock: Limestone	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ls	---	---	---	---	---	---	---	---
	Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance:	1.m 30% 75% 25% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	1.m 30% 75% 25% 10% 10%	Fluvial: ---							
	Current:	1.m 30% 75% 25% 10% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
592 0.3	Landform:	Escarpments	---							
	Elevation:	1300-1700 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect:	South Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Linear	---							
	Precipitation:	36-46 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover)							
			Tree	%	Shrub	%	Forb	%	Graminoid	%
592 0.4	Landform:	Escarpments	---							
	Elevation:	1700-2100 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect:	North Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Linear	---							
	Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
700 0.1	Landform:	Escarpments	---							
	Elevation:	2200-2500 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect:	All Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Linear	---							
	Precipitation:	46-60 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
700 0.2	Landform:	Elevated plains	Edaphic							
	Elevation:	2200-2500 m	Pipos	20.0	Fapa2	5.0	---	---	Anwr	0.1
	Slope:		---	---	Chna2	0.1	---	---	Bogr2	0.1
	Gradient:	4 % Length: 15 m	---	---	---	---	---	---	Sihy	1.0
	Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Linear	---							
	Precipitation:	46-60 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
	Parent Material:	Residuum, ci	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	3.m 25% 65% 20% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	3.m 25% 65% 20% 10% 10%	Fluvial: ---							
	Current:	3.m 25% 65% 20% 10% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
705 0.1	Landform:	Escarpments	---							
	Elevation:	2200-2500 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	100 % Length: 5 m	---	---	---	---	---	---	---	---
	Aspect:	All Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Linear	---							
	Precipitation:	46-60 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
705	0.2	Landform:	Elevated plains	Edaphic							
		Elevation:	2200-2500 m	Pipos	60.0	Bere	3.0	Acmil	5.0	Fear2	10.0
		Slope:		Duga	1.0	Cefe	0.1	Luar5	4.0	Bltr	0.1
		Gradient:	4 % Length: 15 m	---	---	Duga	1.0	Ptan2	0.1	Mumo	2.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	Kopy	1.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Pofe	3.0
		Shape, Section:	Linear	---							
		Precipitation:	46-60 cm Bedrock: Basalt	---	---	---	---	---	---	---	---
		Parent Material:	Residuum, ci	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	3.m 50% 20% 75% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 50% 20% 75% 15% 10%	Fluvial: ---							
		Current:	3.m 50% 20% 75% 5% 20%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
800	0.1	Landform:	Valley plains	---							
		Elevation:	2900-3700 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	7 % Length: --- m	---	---	---	---	---	---	---	---
		Aspect:	--- Class: ---	---	---	---	---	---	---	---	---
		Shape, Plan:	---	---	---	---	---	---	---	---	---
		Shape, Section:	---	---							
		Precipitation:	70-80 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: Perennial, Continuous, Gaining, 1							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
800	0.2	Landform:	Valley plains	Topo-edaphic							
		Elevation:	2900-3700 m	Alte2	5.0	Samo2	80.0	Cale4	3.0	Caaq	5.0
		Slope:		---	---	---	---	Pegr2	1.0	Cave6	10.0
		Gradient:	7 % Length: 15 m	---	---	---	---	Trgr	1.0	Dece	20.0
		Aspect:	Noninfl. Class: Simple	---	---	---	---	Veca2	10.0	Feov	15.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Juca6	2.0
		Shape, Section:	Concave	---							
		Precipitation:	70-80 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, rh, gr, ss, sh	---	---	---	---	---	---	---	---
		Condition	Canopy Height / Surface Components OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	0.5m 90% 20% 70% 30% 0%	Fluvial: ---							
		Current:	0.5m 90% 20% 70% 30% 0%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
801	0.1	Landform:	Valley plains	---							
		Elevation:	2500-2900 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	7 % Length: --- m	---	---	---	---	---	---	---	---
		Aspect:	--- Class: ---	---	---	---	---	---	---	---	---
		Shape, Plan:	---	---	---	---	---	---	---	---	---
		Shape, Section:	---	---							
		Precipitation:	60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: Perennial, Continuous, Gaining, 1							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
801	0.2	Landform:	Valley plains	Topo-edaphic							
		Elevation:	2500-2900 m	Acne2	5.0	Sabe2	10.0	Hadi	5.0	cabe3	5.0
		Slope:		Alte2	15.0	Sala5	25.0	Oxfe	5.0	Cane2	10.0
		Gradient:	7 % Length: 15 m	Poan3	1.0	Samo2	5.0	Rahy	5.0	Dece	5.0
		Aspect:	Noninf. Class: Simple	---	---	---	---	vepe2	5.0	Feov	5.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Jusc	5.0
		Shape, Section:	Concave	---							
		Precipitation:	60-70 cm Bedrock: rh, gr	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, rh, gr	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 80% 20% 60% 30% 0%	Fluvial: ---							
		Current:	3.m 80% 20% 60% 30% 0%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
802	0.1	Landform:	Valley plains	---							
		Elevation:	2400-2800 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	3 % Length: --- m	---	---	---	---	---	---	---	---
		Aspect:	--- Class: ---	---	---	---	---	---	---	---	---
		Shape, Plan:	---	---	---	---	---	---	---	---	---
		Shape, Section:	---	---							
		Precipitation:	60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	«= Canopy =» «= Surface Components =»	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: Perennial, Intermittent, Gaining, 2							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
802 0.2	Landform:	Valley plains						Topo-edaphic							
	Elevation:	2400-2800 m						Poffr	---	Saex	---	---	---	---	---
	Slope:							---	---	Sago	---	---	---	---	---
	Gradient:	3 %	Length:	15 m				---	---	Sala6	---	---	---	---	---
	Aspect:	Noninfl.	Class:	Simple				---	---	Tach	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Concave						---							
	Precipitation:	60-70 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,						---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
803 0.1	Landform:	Valley plains						---							
	Elevation:	1900-2200 m						---	---	---	---	---	---	---	---
	Slope:							---	---	---	---	---	---	---	---
	Gradient:	7 %	Length:	--- m				---	---	---	---	---	---	---	---
	Aspect:	---	Class:	---				---	---	---	---	---	---	---	---
	Shape, Plan:	---						---	---	---	---	---	---	---	---
	Shape, Section:	---						---							
	Precipitation:	36-46 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	,						---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: Perennial, Continuous, Losingg, 1							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
803 0.2	Landform:	Valley plains						Topo-edaphic							
	Elevation:	1900-2200 m						Pofrw	---	Saam2	---	---	---	---	---
	Slope:							---	---	Saex	---	---	---	---	---
	Gradient:	7 %	Length:	15 m				---	---	Sair	---	---	---	---	---
	Aspect:	Noninf.	Class:	Simple				---	---	---	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Concave						---							
	Precipitation:	36-46 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,						---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components					---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
804 0.1	Landform:	Valley plains						---							
	Elevation:	1900-2100 m						---	---	---	---	---	---	---	---
	Slope:							---	---	---	---	---	---	---	---
	Gradient:	7 %	Length:	--- m				---	---	---	---	---	---	---	---
	Aspect:	---	Class:	---				---	---	---	---	---	---	---	---
	Shape, Plan:	---						---	---	---	---	---	---	---	---
	Shape, Section:	---						---							
	Precipitation:	36-46 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: Perennial, Continuous, Losingg, 1							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
804 0.2	Landform:	Valley plains						Topo-edaphic							
	Elevation:	1900-2200 m						Pofrw	---	Saam2	---	---	---	---	---
	Slope:							---	---	Saex	---	---	---	---	---
	Gradient:	7 %	Length:	15 m				---	---	Sair	---	---	---	---	---
	Aspect:	Noninf.	Class:	Simple				---	---	---	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Concave						---							
	Precipitation:	36-46 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
805 0.1	Landform:	Valley plains						---							
	Elevation:	2200-2400 m						---	---	---	---	---	---	---	---
	Slope:							---	---	---	---	---	---	---	---
	Gradient:	3 %	Length:	--- m				---	---	---	---	---	---	---	---
	Aspect:	---	Class:	---				---	---	---	---	---	---	---	---
	Shape, Plan:	---						---	---	---	---	---	---	---	---
	Shape, Section:	---						---							
	Precipitation:	46-60 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: Perennial, Intermittent, Gaining, 2							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
805 0.2	Landform:	Valley plains	Topo-edaphic							
	Elevation:	2200-2500 m	Poan3	---	Sabe2	---	---	---	---	---
	Slope:		---	---	Sala5	---	---	---	---	---
	Gradient:	3 % Length: 15 m	---	---	Sair	---	---	---	---	---
	Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Concave	---							
	Precipitation:	46-60 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,	---	---	---	---	---	---	---	---
	Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
810 0.1	Landform:	Valley plains	---							
	Elevation:	1700-2100 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	7 % Length: --- m	---	---	---	---	---	---	---	---
	Aspect:	--- Class: ---	---	---	---	---	---	---	---	---
	Shape, Plan:	---	---	---	---	---	---	---	---	---
	Shape, Section:	---	---							
	Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: Perennial, Continuous, Losing, 1							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
810 0.2	Landform:	Valley plains	Topo-edaphic							
	Elevation:	1700-2100 m	Plwr2	---	Saam2	---	---	---	---	---
	Slope:		---	---	Sabo	---	---	---	---	---
	Gradient:	7 % Length: 15 m	---	---	Sala6	---	---	---	---	---
	Aspect:	Noninf. Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Concave	---							
	Precipitation:	46-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,	---	---	---	---	---	---	---	---
	Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover) Tree %	Shrub %	Forb %	Graminoid %
813 0.1	Landform:	Valley plains					---			
	Elevation:	1700-2100 m					--- ---	--- ---	--- ---	--- ---
	Slope:						--- ---	--- ---	--- ---	--- ---
	Gradient:	7 %	Length:	--- m			--- ---	--- ---	--- ---	--- ---
	Aspect:	---	Class:	---			--- ---	--- ---	--- ---	--- ---
	Shape, Plan:	---					--- ---	--- ---	--- ---	--- ---
	Shape, Section:	---					---			
	Precipitation:	46-56 cm	Bedrock:	---			--- ---	--- ---	--- ---	--- ---
	Parent Material:	,					--- ---	--- ---	--- ---	--- ---
	Condit-	Canopy	Surface Components				--- ---	--- ---	--- ---	--- ---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil --- ---	--- ---	--- ---	--- ---
	Tolerance:	--- m	---%	---%	---%	---%	---% --- ---	--- ---	--- ---	--- ---
	Natural:	--- m	---%	---%	---%	---%	---% Fluvial: Perennial, Continuous, Gaining, 1			
	Current:	--- m	---%	---%	---%	---%	---% Lacustrine: ---			

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover) Tree %	Shrub %	Forb %	Graminoid %
813 0.2	Landform:	Valley plains					Topo-edaphic			
	Elevation:	1700-2100 m					Piwr2 ---	Saam2 ---	--- ---	--- ---
	Slope:						Pofr2 ---	Sabo ---	--- ---	--- ---
	Gradient:	7 %	Length:	15 m			--- ---	Sala6 ---	--- ---	--- ---
	Aspect:	Noninfl.	Class:	Simple			--- ---	--- ---	--- ---	--- ---
	Shape, Plan:	Linear					--- ---	--- ---	--- ---	--- ---
	Shape, Section:	Concave					---			
	Precipitation:	46-56 cm	Bedrock:	---			--- ---	--- ---	--- ---	--- ---
	Parent Material:	Alluvium,					--- ---	--- ---	--- ---	--- ---
	Condit-	Canopy	Surface Components				--- ---	--- ---	--- ---	--- ---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil --- ---	--- ---	--- ---	--- ---
	Tolerance:	--- m	---%	---%	---%	---%	---% --- ---	--- ---	--- ---	--- ---
	Natural:	--- m	---%	---%	---%	---%	---% Fluvial: ---			
	Current:	--- m	---%	---%	---%	---%	---% Lacustrine: ---			

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover) Tree %	Shrub %	Forb %	Graminoid %
815 0.1	Landform:	Valley plains					---			
	Elevation:	1000-1700 m					--- ---	--- ---	--- ---	--- ---
	Slope:						--- ---	--- ---	--- ---	--- ---
	Gradient:	7 %	Length:	--- m			--- ---	--- ---	--- ---	--- ---
	Aspect:	---	Class:	---			--- ---	--- ---	--- ---	--- ---
	Shape, Plan:	---					--- ---	--- ---	--- ---	--- ---
	Shape, Section:	---					---			
	Precipitation:	46-56 cm	Bedrock:	---			--- ---	--- ---	--- ---	--- ---
	Parent Material:	,					--- ---	--- ---	--- ---	--- ---
	Condit-	Canopy	Surface Components				--- ---	--- ---	--- ---	--- ---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil --- ---	--- ---	--- ---	--- ---
	Tolerance:	--- m	---%	---%	---%	---%	---% --- ---	--- ---	--- ---	--- ---
	Natural:	--- m	---%	---%	---%	---%	---% Fluvial: Perennial, Continuous, Losing, 1			
	Current:	--- m	---%	---%	---%	---%	---% Lacustrine: ---			

Map Unit No. Comp	Landscape Features			Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
815 0.2	Landform:	Valley plains		Topo-edaphic							
	Elevation:	1000-1700 m		Plwr2	---	Sabo	---	---	---	---	---
	Slope:			Pofr2	---	Sago	---	---	---	---	---
	Gradient:	7 %	Length: 15 m	---	---	Sala6	---	---	---	---	---
	Aspect:	Noninfl.	Class: Simple	---	---	Sata	---	---	---	---	---
	Shape, Plan:	Lineare		---	---	---	---	---	---	---	---
	Shape, Section:	Concave		---							
	Precipitation:	46-56 cm	Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,		---	---	---	---	---	---	---	---
	Condition	Canopy Height	Surface Components OvStr / RkFrg / Littr / VegBA / BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---% / ---% / ---% / ---% / ---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---% / ---% / ---% / ---% / ---%	Fluvial: ---							
	Current:	--- m	---% / ---% / ---% / ---% / ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features			Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
824 0.1	Landform:	Valley plains		---							
	Elevation:	0400-0900 m		---	---	---	---	---	---	---	---
	Slope:			---	---	---	---	---	---	---	---
	Gradient:	7 %	Length: --- m	---	---	---	---	---	---	---	---
	Aspect:	---	Class: ---	---	---	---	---	---	---	---	---
	Shape, Plan:	---		---	---	---	---	---	---	---	---
	Shape, Section:	---		---							
	Precipitation:	24-36 cm	Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,		---	---	---	---	---	---	---	---
	Condition	Canopy Height	Surface Components OvStr / RkFrg / Littr / VegBA / BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---% / ---% / ---% / ---% / ---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---% / ---% / ---% / ---% / ---%	Fluvial: Perennial, Continuous, Gaining, 1							
	Current:	--- m	---% / ---% / ---% / ---% / ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features			Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
824 0.2	Landform:	Valley plains		Topo-edaphic							
	Elevation:	0400-0900 m		Pofr2	---	Sabo	---	---	---	---	---
	Slope:			---	---	Sago	---	---	---	---	---
	Gradient:	7 %	Length: 15 m	---	---	Sata	---	---	---	---	---
	Aspect:	Noninfl.	Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear		---	---	---	---	---	---	---	---
	Shape, Section:	Concave		---							
	Precipitation:	24-36 cm	Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,		---	---	---	---	---	---	---	---
	Condition	Canopy Height	Surface Components OvStr / RkFrg / Littr / VegBA / BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---% / ---% / ---% / ---% / ---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---% / ---% / ---% / ---% / ---%	Fluvial: ---							
	Current:	--- m	---% / ---% / ---% / ---% / ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features			Climax Plant Community (canopy cover) Tree %	Shrub %	Forb %	Graminoid %
826 0.1	Landform:	Valley plains		---			
	Elevation:	2900-3800 m		--- ---	--- ---	--- ---	--- ---
	Slope:			--- ---	--- ---	--- ---	--- ---
	Gradient:	3 %	Length: --- m	--- ---	--- ---	--- ---	--- ---
	Aspect:	---	Class: ---	--- ---	--- ---	--- ---	--- ---
	Shape, Plan:	---		--- ---	--- ---	--- ---	--- ---
	Shape, Section:	---		---			
	Precipitation:	70-80 cm	Bedrock: ---	--- ---	--- ---	--- ---	--- ---
	Parent Material:	,		--- ---	--- ---	--- ---	--- ---
	Condit-	Canopy	Surface Components	--- ---	--- ---	--- ---	--- ---
	ion	Height	OvStr RkFrg Littr VegBA BSoil	--- ---	--- ---	--- ---	--- ---
	Tolerance:	--- m	---% ---% ---% ---% ---%	--- ---	--- ---	--- ---	--- ---
	Natural:	--- m	---% ---% ---% ---% ---%	Fluvial: Perennial, Continuous, Gaining, 2			
	Current:	--- m	---% ---% ---% ---% ---%	Lacustrine: ---			

Map Unit No. Comp	Landscape Features			Climax Plant Community (canopy cover) Tree %	Shrub %	Forb %	Graminoid %
826 0.2	Landform:	Valley plains		Topo-edaphic			
	Elevation:	2900-3800 m		Aite2 5.0	Samo2 80.0	Cale4 3.0	Caaq 5.0
	Slope:			--- ---	--- ---	Pegr2 1.0	Cave6 10.0
	Gradient:	3 %	Length: 15 m	--- ---	--- ---	Trgr 1.0	Dece 20.0
	Aspect:	Noninf.	Class: Simple	--- ---	--- ---	Veca2 10.0	Feov 15.0
	Shape, Plan:	Linear		--- ---	--- ---	--- ---	Juca6 2.0
	Shape, Section:	Concave		---			
	Precipitation:	70-80 cm	Bedrock: ---	--- ---	--- ---	--- ---	--- ---
	Parent Material:	Alluvium,		--- ---	--- ---	--- ---	--- ---
	Condit-	Canopy	Surface Components	--- ---	--- ---	--- ---	--- ---
	ion	Height	OvStr RkFrg Littr VegBA BSoil	--- ---	--- ---	--- ---	--- ---
	Tolerance:	--- m	---% ---% ---% ---% ---%	--- ---	--- ---	--- ---	--- ---
	Natural:	--- m	---% ---% ---% ---% ---%	Fluvial: ---			
	Current:	--- m	---% ---% ---% ---% ---%	Lacustrine: ---			

Map Unit No. Comp	Landscape Features			Climax Plant Community (canopy cover) Tree %	Shrub %	Forb %	Graminoid %
827 0.1	Landform:	Valley plains		---			
	Elevation:	2500-2900 m		--- ---	--- ---	--- ---	--- ---
	Slope:			--- ---	--- ---	--- ---	--- ---
	Gradient:	3 %	Length: --- m	--- ---	--- ---	--- ---	--- ---
	Aspect:	---	Class: ---	--- ---	--- ---	--- ---	--- ---
	Shape, Plan:	---		--- ---	--- ---	--- ---	--- ---
	Shape, Section:	---		---			
	Precipitation:	60-70 cm	Bedrock: ---	--- ---	--- ---	--- ---	--- ---
	Parent Material:	,		--- ---	--- ---	--- ---	--- ---
	Condit-	Canopy	Surface Components	--- ---	--- ---	--- ---	--- ---
	ion	Height	OvStr RkFrg Littr VegBA BSoil	--- ---	--- ---	--- ---	--- ---
	Tolerance:	--- m	---% ---% ---% ---% ---%	--- ---	--- ---	--- ---	--- ---
	Natural:	--- m	---% ---% ---% ---% ---%	Fluvial: Perennial, Continuous, Gaining, 2			
	Current:	--- m	---% ---% ---% ---% ---%	Lacustrine: ---			

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
827	0.2	Landform:	Valley plains	Topo-edaphic							
		Elevation:	2500-2900 m	Acne2	5.0	Sabe2	10.0	Hadi	5.0	Cabe3	5.0
		Slope:		Alob2	25.0	Sala5	25.0	Oxfe	5.0	Cane2	10.0
		Gradient:	3 % Length: 15 m	Alte2	15.0	Samo2	5.0	Rahy	5.0	Dece	5.0
		Aspect:	Noninf. Class: Simple	Poan3	---	---	---	Vepe2	5.0	Feov	5.0
		Shape, Plan:	Linear	---	---	---	---	---	---	Jusc	5.0
		Shape, Section:	Concave	---							
		Precipitation:	60-70 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, rh, gr, ss, sh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	3.m 80% 20% 60% 30% 0%	Fluvial: ---							
		Current:	3.m 80% 20% 60% 30% 0%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
828	0.1	Landform:	Valley plains	---							
		Elevation:	2200-2500 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	3 % Length: --- m	---	---	---	---	---	---	---	---
		Aspect:	--- Class: ---	---	---	---	---	---	---	---	---
		Shape, Plan:	---	---	---	---	---	---	---	---	---
		Shape, Section:	---	---							
		Precipitation:	46-60 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: Perennial, Continuous, Gaining, 2							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
828	0.2	Landform:	Valley plains	Topo-edaphic							
		Elevation:	2200-2500 m	Acne2	15.0	Sabe2	20.0	Eqar	0.1	Cane2	10.0
		Slope:		Alte2	1.0	Saex5	2.0	Irmi	1.0	Fear2	5.0
		Gradient:	3 % Length: 15 m	Poan3	1.0	Sair	10.0	Luar3	1.0	---	---
		Aspect:	Noninfi. Class: Simple	---	---	Sala5	10.0	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Concave	---							
		Precipitation:	46-60 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium, rh, gr, ss, sh	---	---	---	---	---	---	---	---
		Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
		ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	4.m 50% 20% 50% 20% 10%	Fluvial: ---							
		Current:	4.m 50% 20% 50% 20% 10%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
829 0.1	Landform:	Valley plains					---							
	Elevation:	1900-2200 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	3 %	Length:	--- m			---	---	---	---	---	---	---	---
	Aspect:	---	Class:	---			---	---	---	---	---	---	---	---
	Shape, Plan:	---					---	---	---	---	---	---	---	---
	Shape, Section:	---					---							
	Precipitation:	46-60 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: Perennial, Continuous, Losing, 2							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
829 0.2	Landform:	Valley plains					Topo-edaphic							
	Elevation:	1900-2200 m					Pofrw	1.0	Saam2	10.0	---	---	---	---
	Slope:						---	---	Saex	5.0	---	---	---	---
	Gradient:	3 %	Length:	15 m			---	---	Sair	15.0	---	---	---	---
	Aspect:	Noninfi.	Class:	Simple			---	---	---	---	---	---	---	---
	Shape, Plan:	Linear					---	---	---	---	---	---	---	---
	Shape, Section:	Concave					---							
	Precipitation:	46-60 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	Alluvium, rh, gr, ss, sh					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	2.m	40%	20%	40%	15%	25%	Fluvial: ---							
	Current:	2.m	40%	20%	40%	15%	25%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features						Climax Plant Community (canopy cover)							
							Tree	%	Shrub	%	Forb	%	Graminoid	%
835 0.1	Landform:	Valley plains					---							
	Elevation:	1900-2200 m					---	---	---	---	---	---	---	---
	Slope:						---	---	---	---	---	---	---	---
	Gradient:	3 %	Length:	--- m			---	---	---	---	---	---	---	---
	Aspect:	---	Class:	---			---	---	---	---	---	---	---	---
	Shape, Plan:	---					---	---	---	---	---	---	---	---
	Shape, Section:	---					---							
	Precipitation:	36-46 cm	Bedrock:	---			---	---	---	---	---	---	---	---
	Parent Material:	,					---	---	---	---	---	---	---	---
	Condit-	Canopy	Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: Perennial, Continuous, Losing, 2							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
835 0.2	Landform:	Valley plains						Topo-edaphic							
	Elevation:	1900-2200 m						Pofrw	1.0	Saam2	10.0	---	---	---	---
	Slope:							---	---	Saex	5.0	---	---	---	---
	Gradient:	3 %	Length:	15 m				---	---	Sair	15.0	---	---	---	---
	Aspect:	Noninfl.	Class:	Simple				---	---	---	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Concave						---							
	Precipitation:	36-46 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
840 0.1	Landform:	Valley plains						---							
	Elevation:	1300-1700 m						---	---	---	---	---	---	---	---
	Slope:							---	---	---	---	---	---	---	---
	Gradient:	3 %	Length:	--- m				---	---	---	---	---	---	---	---
	Aspect:	---	Class:	---				---	---	---	---	---	---	---	---
	Shape, Plan:	---						---	---	---	---	---	---	---	---
	Shape, Section:	---						---							
	Precipitation:	36-46 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: Perennial, Continuous, Losing, 2							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover)							
								Tree	%	Shrub	%	Forb	%	Graminoid	%
840 0.2	Landform:	Valley plains						Topo-edaphic							
	Elevation:	1300-1700 m						Plwr2	---	Saam2	---	---	---	---	---
	Slope:							Pofr2	---	Sabo	---	---	---	---	---
	Gradient:	3 %	Length:	15 m				---	---	Sala6	---	---	---	---	---
	Aspect:	Noninfl.	Class:	Simple				---	---	Sata	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Concave						---							
	Precipitation:	36-46 cm	Bedrock:	---				---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
841 0.1	Landform:	Valley plains	---							
	Elevation:	1700-2100 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	3 % Length: --- m	---	---	---	---	---	---	---	---
	Aspect:	--- Class: ---	---	---	---	---	---	---	---	---
	Shape, Plan:	---	---	---	---	---	---	---	---	---
	Shape, Section:	---	---							
	Precipitation:	45-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: Perennial, Continuous, Losing, 2							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
841 0.2	Landform:	Valley plains	Topo-edaphic							
	Elevation:	1700-2100 m	Plwr2	---	Saam2	---	---	---	---	---
	Slope:		Pofr2	---	Sabo	---	---	---	---	---
	Gradient:	3 % Length: 15 m	---	---	Sala6	---	---	---	---	---
	Aspect:	Noninfl. Class: Simple	---	---	---	---	---	---	---	---
	Shape, Plan:	Linear	---	---	---	---	---	---	---	---
	Shape, Section:	Concave	---							
	Precipitation:	45-56 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
842 0.1	Landform:	Valley plains	---							
	Elevation:	1600-2100 m	---	---	---	---	---	---	---	---
	Slope:		---	---	---	---	---	---	---	---
	Gradient:	3 % Length: --- m	---	---	---	---	---	---	---	---
	Aspect:	--- Class: ---	---	---	---	---	---	---	---	---
	Shape, Plan:	---	---	---	---	---	---	---	---	---
	Shape, Section:	---	---							
	Precipitation:	55-66 cm Bedrock: ---	---	---	---	---	---	---	---	---
	Parent Material:	,	---	---	---	---	---	---	---	---
	Condit-	Canopy / Surface Components	---	---	---	---	---	---	---	---
	ion	Height OvStr RkFrg Littr VegBA BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
	Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: Perennial, Continuous, Gaining, 2							
	Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
842	0.2	Landform:	Valley plains	Topo-edaphic							
		Elevation:	1600-2100 m	Alob2	---	Sabe2	---	---	---	---	---
		Slope:		Poan3	---	---	---	---	---	---	---
		Gradient:	3 % Length: 15 m	---	---	---	---	---	---	---	---
		Aspect:	--- Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Concave	---							
		Precipitation:	55-66 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium,	---	---	---	---	---	---	---	---
		Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
845	0.1	Landform:	Valley plains	---							
		Elevation:	0400-0900 m	---	---	---	---	---	---	---	---
		Slope:		---	---	---	---	---	---	---	---
		Gradient:	3 % Length: --- m	---	---	---	---	---	---	---	---
		Aspect:	--- Class: ---	---	---	---	---	---	---	---	---
		Shape, Plan:	---	---	---	---	---	---	---	---	---
		Shape, Section:	---	---							
		Precipitation:	24-36 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	,	---	---	---	---	---	---	---	---
		Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: Perennial, Continuous, Losing, 2							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No.	Comp	Landscape Features		Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
845	0.2	Landform:	Valley plains	Topo-edaphic							
		Elevation:	0400-0900 m	Pofr2	---	Sabo	---	---	---	---	---
		Slope:		---	---	Sago	---	---	---	---	---
		Gradient:	3 % Length: 15 m	---	---	Sata	---	---	---	---	---
		Aspect:	Noninfi. Class: Simple	---	---	---	---	---	---	---	---
		Shape, Plan:	Linear	---	---	---	---	---	---	---	---
		Shape, Section:	Concave	---							
		Precipitation:	24-36 cm Bedrock: ---	---	---	---	---	---	---	---	---
		Parent Material:	Alluvium,	---	---	---	---	---	---	---	---
		Condition	Canopy: Height; Surface Components: OvStr, RkFrg, Littr, VegBA, BSoil	---	---	---	---	---	---	---	---
		Tolerance:	--- m ---% ---% ---% ---% ---%	---	---	---	---	---	---	---	---
		Natural:	--- m ---% ---% ---% ---% ---%	Fluvial: ---							
		Current:	--- m ---% ---% ---% ---% ---%	Lacustrine: ---							

Map Unit No. Comp

846 0.1

Landscape Features

Landform: Valley plains
Elevation: 0900-1000 m
Slope:
Gradient: 3 % Length: --- m
Aspect: --- Class: ---
Shape, Plan: ---
Shape, Section: ---
Precipitation: 24-36 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: Perennial, Continuous, Losing, 2
Lacustrine: ---

Map Unit No. Comp

846 0.2

Landscape Features

Landform: Valley plains
Elevation: 0900-1000 m
Slope:
Gradient: 3 % Length: 15 m
Aspect: Noninfl. Class: Simple
Shape, Plan: Linear
Shape, Section: Concave
Precipitation: 24-36 cm Bedrock: ---
Parent Material: Alluvium,

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%
Topo-edaphic							
Plwr2	---	Sabo	---	---	---	---	---
Pofr2	---	Sago	---	---	---	---	---
---	---	Sala6	---	---	---	---	---
---	---	Sata	---	---	---	---	---
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Fluvial: ---
Lacustrine: ---

Map Unit No. Comp

860 0.1

Landscape Features

Landform: Valley plains
Elevation: 0400-0900 m
Slope:
Gradient: 1 % Length: --- m
Aspect: --- Class: ---
Shape, Plan: ---
Shape, Section: ---
Precipitation: 24-36 cm Bedrock: ---
Parent Material: ,

Condition	Canopy Height	Surface Components OvStr	RkFrg	Littr	VegBA	BSoil
Tolerance:	--- m	---%	---%	---%	---%	---%
Natural:	--- m	---%	---%	---%	---%	---%
Current:	--- m	---%	---%	---%	---%	---%

Climax Plant Community (canopy cover)

Tree	%	Shrub	%	Forb	%	Graminoid	%

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Fluvial: Perennial, Continuous, Losing, 3
Lacustrine: ---

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
860 0.2	Landform:	Valley plains						Topo-edaphic							
	Elevation:	0400-0900 m						Pofr2	---	Sabo	---	---	---	---	---
	Slope:							---	---	Sago	---	---	---	---	---
	Gradient:	1 %	Length:	15 m				---	---	Sata	---	---	---	---	---
	Aspect:	Noninfl.	Class:	Simple				---	---	---	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Concave						---							
	Precipitation:	24-36 cm	Bedrock: ---					---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
861 0.1	Landform:	Valley plains						---							
	Elevation:	0900-1000 m						---	---	---	---	---	---	---	---
	Slope:							---	---	---	---	---	---	---	---
	Gradient:	1 %	Length:	--- m				---	---	---	---	---	---	---	---
	Aspect:	---	Class:	---				---	---	---	---	---	---	---	---
	Shape, Plan:	---						---	---	---	---	---	---	---	---
	Shape, Section:	---						---							
	Precipitation:	24-36 cm	Bedrock: ---					---	---	---	---	---	---	---	---
	Parent Material:	,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: Perennial, Continuous, Losing, 3							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Map Unit No. Comp	Landscape Features							Climax Plant Community (canopy cover) Tree	%	Shrub	%	Forb	%	Graminoid	%
861 0.2	Landform:	Valley plains						Topo-edaphic							
	Elevation:	0900-1000 m						Plwr2	---	Sabo	---	---	---	---	---
	Slope:							Pofr2	---	Sago	---	---	---	---	---
	Gradient:	1 %	Length:	15 m				---	---	Sala6	---	---	---	---	---
	Aspect:	Noninfl.	Class:	Simple				---	---	sata	---	---	---	---	---
	Shape, Plan:	Linear						---	---	---	---	---	---	---	---
	Shape, Section:	Concave						---							
	Precipitation:	24-36 cm	Bedrock: ---					---	---	---	---	---	---	---	---
	Parent Material:	Alluvium,						---	---	---	---	---	---	---	---
	Condit-	Canopy		Surface Components				---	---	---	---	---	---	---	---
	ion	Height	OvStr	RkFrg	Littr	VegBA	BSoil	---	---	---	---	---	---	---	---
	Tolerance:	--- m	---%	---%	---%	---%	---%	---	---	---	---	---	---	---	---
	Natural:	--- m	---%	---%	---%	---%	---%	Fluvial: ---							
	Current:	--- m	---%	---%	---%	---%	---%	Lacustrine: ---							

Appendix D

Table 4a. Interpretations For General Ecosystem Survey. USDA-FS, R-3 Date 02/02/89 Page 1

Map Unit No.	Comp	Soil Loss For Pot.	Nat.	Cur.	Tol.	Soil Cond.	Eros. Hazard	Potentials Re-veg.	Re-for.	Production Potentials For Pipos	Psmeg	Pien	Hb/Wd	Forg.	ForgM	FulWd
		«= t/ha/yr			=»					«= Site Index		=»	«= lb/ac/yr		=»	cd/ac
101	0.1	2.8	0.4	1.3	6.6	Unsat	Slight	Mod	NA	---	---	---	500	400	450	---
103	0.1	4.7	0.6	2.7	6.6	Unsat	Slight	Mod	NA	---	---	---	350	300	350	---
103	0.2	20.4	4.0	11.8	6.6	Unsat	Severe	Mod	NA	---	---	---	500	400	450	---
110	0.1	1.8	0.3	0.8	6.6	Unsat	Slight	Mod	NA	---	---	---	500	400	450	---
110	0.2	24.5	2.4	4.3	6.6	Sat	Severe	Mod	NA	---	---	---	800	50	1200	4
110	0.3	20.7	4.1	10.0	6.6	Unsat	Severe	Mod	NA	---	---	---	500	400	450	---
120	0.1	4.0	0.5	1.8	6.6	Unsat	Slight	Mod	NA	---	---	---	600	600	600	---
120	0.2	15.4	2.2	6.9	6.6	Unsat	Mod	Mod	NA	---	---	---	450	350	575	---
121	0.1	1.8	0.2	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	700	50	800	6
121	0.2	24.3	3.6	4.3	6.6	Sat	Severe	Mod	NA	---	---	---	700	100	1200	8
122	0.1	5.4	0.5	0.8	6.6	Unsat	Slight	Mod	NA	---	---	---	700	200	1200	8
122	0.2	4.2	0.2	0.5	6.6	Unsat	Slight	Mod	NA	---	---	---	700	200	1200	6
124	0.1	18.4	3.3	3.3	6.6	Sat	Severe	Low	NA	---	---	---	650	175	1100	6
124	0.2	18.4	3.3	3.3	6.6	Sat	Severe	Low	NA	---	---	---	650	175	1100	6
124	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
126	0.1	18.4	9.2	9.2	6.6	Unsuit	Severe	Low	NA	---	---	---	400	300	350	---
126	0.2	21.8	3.9	4.7	6.6	Sat	Severe	Low	NA	---	---	---	700	25	800	2
126	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
126	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
127	0.1	15.7	1.9	3.3	6.6	Unsat	Mod	Mod	NA	---	---	---	800	50	1200	4
127	0.2	2.1	0.2	0.4	6.6	Unsat	Slight	Mod	NA	---	---	---	700	100	1200	2
128	0.1	2.1	0.1	0.3	6.6	Unsat	Slight	Mod	NA	---	---	---	800	50	1200	4
128	0.2	15.7	2.2	3.1	6.6	Sat	Mod	Mod	NA	---	---	---	800	100	1200	2
129	0.1	5.4	0.3	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	700	275	1200	8
129	0.2	13.2	2.4	3.5	6.6	Sat	Mod	Mod	NA	---	---	---	575	150	850	6
130	0.1	5.4	0.4	0.8	6.6	Unsat	Slight	Mod	NA	---	---	---	700	275	1200	8
131	0.1	20.4	2.1	3.7	6.6	Sat	Severe	Mod	NA	---	---	---	700	275	1200	8
132	0.1	18.4	4.1	4.1	6.6	Sat	Severe	Low	NA	---	---	---	650	150	1100	6
132	0.2	27.4	0.0	0.0	9.0	Sat	Severe	Low	Low	60	65	---	300	50	3300	---
132	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
132	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
134	0.1	2.4	0.3	0.8	6.6	Unsat	Slight	Mod	NA	---	---	---	650	225	1100	---
134	0.2	2.4	0.4	1.2	6.6	Unsat	Slight	Mod	NA	---	---	---	650	225	1100	---
134	0.3	17.7	1.8	3.2	6.6	Sat	Severe	Mod	NA	---	---	---	700	275	1200	8
135	0.1	3.5	0.2	0.4	6.6	Unsat	Slight	Mod	NA	---	---	---	700	200	1200	8
136	0.1	31.9	3.2	4.7	6.6	Sat	Severe	Mod	NA	---	---	---	700	200	1200	8
137	0.1	18.4	3.3	3.3	6.6	Sat	Severe	Low	NA	---	---	---	650	175	1100	6
137	0.2	27.4	0.0	0.0	9.0	Sat	Severe	Low	Low	60	65	---	300	50	3300	---
137	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
137	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
139	0.1	3.5	0.2	0.4	6.6	Unsat	Slight	Mod	NA	---	---	---	700	200	1200	8
139	0.2	37.8	0.8	1.1	9.0	Sat	Severe	Mod	Mod	70	---	---	500	250	2500	---
139	0.3	31.9	3.2	4.7	6.6	Sat	Severe	Mod	NA	---	---	---	---	---	---	---
140	0.1	3.3	0.2	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	750	200	1200	8
140	0.2	15.7	1.2	2.8	6.6	Unsat	Mod	Mod	NA	---	---	---	750	200	1200	8
140	0.3	13.2	3.7	6.4	6.6	Sat	Mod	Mod	NA	---	---	---	550	450	500	---
143	0.1	2.4	0.4	1.7	6.6	Unsat	Slight	Mod	NA	---	---	---	350	300	350	---
143	0.2	20.4	5.8	9.8	6.6	Unsat	Severe	Mod	NA	---	---	---	550	450	500	---

Table 4a. Interpretations For General Ecosystem Survey. USDA-FS, R-3 Date 02/02/89 Page 2

Map Unit No. Comp	Soil Loss For Pot.	Nat.	Cur.	Tol.	Soil Cond.	Eros. Hazard	Potentials Re-veg.	Re-for.	Production Potentials For Pipos	Psmeg	Pien	Hb/Wd	Forg.	ForgM	FulWd
	«= t/ha/yr =»								«= Site Index =»			«= lb/ac/yr =»			cd/ac
143 0.3	24.3	2.4	4.3	6.6	Sat	Severe	Mod	NA	---	---	---	750	200	1200	8
144 0.1	1.8	0.3	0.9	6.6	Unsat	Slight	Mod	NA	---	---	---	700	100	1000	---
144 0.2	24.3	2.4	3.6	6.6	Sat	Severe	Mod	NA	---	---	---	750	200	1200	8
145 0.1	18.4	8.0	8.0	6.6	Unsuit	Severe	Low	NA	---	---	---	550	450	500	---
145 0.2	21.8	2.7	2.7	6.6	Sat	Severe	Low	NA	---	---	---	650	150	1100	6
145 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
145 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
146 0.1	3.3	0.2	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	750	200	1200	8
146 0.2	15.7	1.5	2.8	6.6	Unsat	Mod	Mod	NA	---	---	---	750	200	1200	8
146 0.3	13.2	3.7	6.4	6.6	Unsat	Mod	Mod	NA	---	---	---	550	450	500	---
147 0.1	3.3	0.3	1.8	6.6	Unsat	Slight	Mod	NA	---	---	---	1200	1200	1200	---
148 0.1	3.3	0.2	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	750	200	1200	8
148 0.2	24.3	2.9	4.3	4.5	Sat	Severe	Mod	NA	---	---	---	750	200	1200	6
149 0.1	3.3	0.2	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	750	200	1200	8
149 0.2	24.3	2.9	4.3	4.5	Sat	Severe	Mod	NA	---	---	---	750	200	1200	8
150 0.1	1.7	0.0	0.0	9.0	Sat	Slight	Mod	Mod	70	---	---	500	50	2500	---
150 0.2	19.7	0.4	0.6	9.0	Sat	Mod	Mod	Mod	70	---	---	500	50	2500	---
150 0.3	15.7	1.5	2.8	6.6	Sat	Mod	Mod	NA	---	---	---	700	100	1200	8
151 0.1	19.7	0.4	0.6	9.0	Sat	Mod	Mod	Mod	70	---	---	500	50	2500	---
151 0.2	54.3	0.7	0.7	9.0	Sat	Severe	Mod	Mod	65	70	---	300	50	3500	---
156 0.1	2.3	0.0	0.1	9.0	Sat	Slight	Mod	Mod	65	---	---	550	50	2400	---
156 0.2	26.3	1.0	1.3	9.0	Sat	Severe	Mod	Mod	65	---	---	550	50	2400	---
158 0.1	3.3	0.0	0.1	9.0	Sat	Slight	Mod	Mod	70	---	---	500	250	2500	---
158 0.2	24.3	0.5	0.7	9.0	Sat	Severe	Mod	Mod	70	---	---	500	250	2500	---
158 0.3	15.7	1.5	2.8	4.5	Sat	Severe	Mod	NA	---	---	---	750	200	1200	8
158 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
159 0.1	2.1	0.0	0.0	9.0	Sat	Slight	Mod	Mod	70	---	---	500	250	2500	---
159 0.2	15.7	0.3	0.4	9.0	Sat	Mod	Mod	Mod	70	---	---	500	250	2500	---
160 0.1	6.5	0.0	0.1	9.0	Sat	Slight	Mod	Mod	70	---	---	500	250	2500	---
161 0.1	37.8	0.8	1.1	9.0	Sat	Severe	Mod	Mod	70	---	---	500	250	2500	---
162 0.1	3.3	0.0	0.0	9.0	Sat	Slight	Mod	Mod	80	---	---	600	250	3000	---
162 0.2	2.7	0.0	0.0	9.0	Sat	Slight	High	High	85	85	---	700	300	3500	---
168 0.1	21.8	3.9	3.9	6.6	Sat	Severe	Low	NA	---	---	---	650	150	1100	6
168 0.2	27.4	0.5	0.5	6.6	Sat	Severe	Low	Low	60	65	---	300	50	3300	---
168 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
168 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
176 0.1	2.7	0.0	0.0	9.0	Sat	Slight	Mod	Mod	65	70	---	400	150	3500	---
176 0.2	2.7	0.0	0.0	9.0	Sat	Slight	Mod	Mod	65	70	---	400	150	3500	---
176 0.3	30.8	0.0	0.0	9.0	Sat	Severe	Mod	Mod	65	70	---	400	100	3000	---
176 0.4	30.8	0.0	0.0	9.0	Sat	Severe	Mod	Mod	65	70	---	400	100	3000	---
177 0.1	27.4	0.0	0.0	9.0	Sat	Severe	Low	Low	60	65	---	300	50	3300	---
177 0.2	96.9	0.7	0.7	6.6	Sat	Severe	Low	Low	---	---	70	100	25	2800	---
177 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
177 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
178 0.1	11.9	2.2	2.2	4.5	Sat	Mod	Low	NA	---	---	---	400	75	600	4
178 0.2	27.4	0.0	0.0	9.0	Sat	Severe	Low	Low	60	65	---	300	50	---	---
178 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
178 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 4a. Interpretations For General Ecosystem Survey. USDA-FS, R-3 Date 02/02/89 Page 3

Map Unit No.	Comp	Soil Loss For Pot.	Nat.	Cur.	Tol.	Soil Cond.	Eros. Hazard	Potentials Re-veg.	Re-for.	Production Potentials For Pipos	Psmeg	Pien	Hb/Wd	Forg.	ForgM	FulWd
		t/ha/yr								Site Index			lb/ac/yr			cd/ac
181	0.1	4.8	0.0	0.0	6.6	Sat	Slight	Mod	Mod	---	---	75	100	50	3000	---
181	0.2	54.3	0.1	0.1	6.6	Sat	Severe	Mod	Mod	---	---	75	100	50	3000	---
183	0.1	4.8	0.1	1.2	6.6	Unsat	Slight	Mod	Mod	---	---	---	3500	3300	3300	---
183	0.2	35.2	1.1	13.2	6.6	Unsat	Severe	Mod	Mod	---	---	75	3500	3300	3300	---
183	0.3	54.3	0.1	0.1	6.6	Sat	Severe	Mod	Mod	---	---	75	100	50	3000	---
187	0.1	27.4	0.0	0.0	9.0	Sat	Severe	Low	Low	60	65	---	400	100	2800	---
187	0.2	31.3	0.2	0.2	6.6	Sat	Severe	Low	Low	---	---	70	100	25	2800	---
187	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
187	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
188	0.1	27.4	0.0	0.0	9.0	Sat	Severe	Low	Low	60	65	---	400	100	2800	---
188	0.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
188	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
191	0.1	2.9	0.0	0.0	9.0	Sat	Slight	Mod	Mod	70	---	---	500	250	2500	---
191	0.2	21.0	0.2	0.4	9.0	Sat	Mod	Mod	Mod	70	---	---	500	250	2500	---
192	0.1	27.4	0.0	0.0	9.0	Sat	Severe	Low	Low	60	65	---	300	50	3300	---
192	0.2	31.3	0.2	0.2	6.6	Sat	Severe	Low	Low	---	---	70	100	25	2800	---
192	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
192	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
193	0.1	2.9	0.0	0.0	9.0	Sat	Slight	Mod	Mod	70	---	---	500	250	2500	---
193	0.2	15.7	0.8	0.8	9.0	Sat	Mod	Mod	Mod	60	---	---	500	300	2500	---
194	0.1	2.4	0.3	0.5	6.6	Unsat	Slight	Mod	NA	---	---	---	650	225	1100	---
194	0.2	13.2	1.4	2.6	6.6	Sat	Mod	Mod	NA	---	---	---	200	75	500	---
196	0.1	2.9	0.0	0.0	9.0	Sat	Slight	Mod	Mod	70	---	---	500	250	2500	---
196	0.2	21.0	0.4	0.6	9.0	Sat	Mod	Mod	Mod	70	---	---	500	250	2500	---
196	0.3	17.7	1.8	2.2	6.6	Sat	Severe	Mod	NA	---	---	---	700	275	1200	8
197	0.1	4.2	0.0	0.0	9.0	Sat	Slight	High	High	65	70	---	400	150	3500	---
197	0.2	19.7	0.0	0.0	9.0	Sat	Mod	Mod	Mod	60	65	---	375	125	2800	---
198	0.1	1.4	0.0	0.0	9.0	Sat	Slight	High	High	65	70	---	400	150	3500	---
198	0.2	30.4	0.0	0.0	9.0	Sat	Severe	Mod	Mod	65	70	---	400	150	3500	---
214	0.1	1.3	0.5	0.8	4.5	Unsat	Slight	Low	NA	---	---	---	200	100	150	---
214	0.2	3.2	1.4	2.0	4.5	Sat	Slight	Low	NA	---	---	---	150	75	100	---
235	0.1	0.8	0.3	0.5	4.5	Sat	Slight	Low	NA	---	---	---	200	100	150	---
236	0.1	9.8	4.1	5.9	4.5	Unsat	Mod	Low	NA	---	---	---	100	75	150	---
237	0.1	0.2	0.2	0.2	2.2	Sat	Slight	Low	NA	---	---	---	50	25	25	---
237	0.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
237	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
240	0.1	0.8	0.4	0.5	4.5	Sat	Slight	Low	NA	---	---	---	200	150	200	---
297	0.1	2.1	0.2	0.3	6.6	Unsat	Slight	Mod	NA	---	---	---	800	50	1200	4
297	0.2	15.7	1.2	2.1	6.6	Sat	Mod	Mod	NA	---	---	---	700	100	1200	8
297	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
298	0.1	1.8	0.3	0.8	6.6	Sat	Slight	Mod	NA	---	---	---	500	400	450	---
298	0.2	4.3	1.6	2.3	6.6	Sat	Slight	Mod	NA	---	---	---	400	100	300	---
298	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
299	0.1	1.3	0.5	0.7	4.5	Unsat	Slight	Low	NA	---	---	---	200	100	150	---
299	0.2	3.2	1.6	2.3	4.5	Sat	Slight	Low	NA	---	---	---	150	75	100	---
299	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
300	0.1	14.1	5.2	5.2	4.5	Unsuit	Severe	Low	NA	---	---	---	600	150	1000	4
300	0.2	17.7	0.5	0.5	9.0	Sat	Mod	Low	Low	---	---	---	100	25	75	---

Table 4a. Interpretations For General Ecosystem Survey.

Map Unit No. Comp	Soil Loss For Pot. (t/ha/yr)	Nat. (t/ha/yr)	Cur. (t/ha/yr)	Tol. (t/ha/yr)	Soil Cond.	Eros. Hazard	Potentials Re-veg.	Re-for.	Production Potentials For Pipos (Site Index)	Psmeg (Site Index)	Pien (Site Index)	Hb/Wd (lb/ac/yr)	Forg. (lb/ac/yr)	ForgM (lb/ac/yr)	FulWd cd/ac
300 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
300 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
301 0.1	1.3	0.5	0.7	4.5	Sat	Slight	Low	NA	---	---	---	150	75	200	---
301 0.2	3.2	1.5	1.8	2.2	Sat	Mod	Low	NA	---	---	---	75	50	50	---
303 0.1	8.8	5.3	5.3	2.2	Unsuit	Mod	Low	NA	---	---	---	75	25	25	---
303 0.2	14.1	2.8	2.8	6.6	Sat	Mod	Low	NA	---	---	---	800	100	1200	2
303 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
303 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
305 0.1	0.2	0.0	0.1	4.5	Sat	Slight	Low	NA	---	---	---	250	150	200	---
305 0.2	0.3	0.0	0.1	4.5	Sat	Slight	Low	NA	---	---	---	50	25	50	---
306 0.1	0.9	0.4	0.5	6.6	Sat	Slight	Mod	NA	---	---	---	300	150	200	---
306 0.2	0.4	0.1	0.1	6.6	Sat	Slight	Mod	NA	---	---	---	550	500	550	---
310 0.1	0.8	0.5	0.6	2.2	Sat	Slight	Low	NA	---	---	---	75	25	50	---
333 0.1	0.8	0.3	0.5	2.2	Sat	Slight	Low	NA	---	---	---	100	75	75	---
333 0.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
349 0.1	11.9	3.2	3.2	6.6	Sat	Mod	Low	NA	---	---	---	550	300	800	4
349 0.2	27.4	0.0	0.0	9.0	Sat	Severe	Low	Low	60	65	---	300	50	3300	---
349 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
349 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
351 0.1	15.7	1.3	1.3	6.6	Sat	Mod	Mod	Mod	55	---	---	375	150	1800	---
352 0.1	11.9	2.2	2.7	4.5	Sat	Mod	Low	NA	---	---	---	400	300	600	4
352 0.2	17.7	0.0	0.0	9.0	Sat	Mod	Low	Low	45	50	---	250	45	2800	---
352 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
352 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
355 0.1	2.5	0.3	0.4	6.6	Sat	Slight	Mod	NA	---	---	---	500	100	650	5
355 0.2	3.5	0.2	0.4	6.6	Unsat	Slight	Mod	NA	---	---	---	700	200	1200	8
356 0.1	2.5	0.5	0.6	6.6	Sat	Slight	Mod	NA	---	---	---	400	50	100	4
356 0.2	5.4	0.4	0.8	6.6	Unsat	Slight	Mod	NA	---	---	---	700	275	1200	8
370 0.1	0.3	0.0	0.0	6.6	Sat	Slight	Mod	NA	---	---	---	525	475	5700	---
370 0.2	1.0	0.1	0.2	6.6	Sat	Slight	Mod	NA	---	---	---	250	100	500	---
371 0.1	0.3	0.0	0.0	6.6	Sat	Slight	Mod	NA	---	---	---	525	475	575	---
371 0.2	0.4	0.0	0.1	6.6	Sat	Slight	Mod	NA	---	---	---	1500	1400	1500	---
380 0.1	11.9	9.2	9.2	4.5	Unsuit	Mod	Low	NA	---	---	---	400	75	100	---
380 0.2	14.1	4.4	4.4	4.5	Sat	Severe	Low	NA	---	---	---	650	175	950	4
380 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
380 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
381 0.1	1.4	0.2	0.3	4.5	Sat	Slight	Mod	NA	---	---	---	750	200	1200	4
381 0.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
390 0.1	15.7	4.1	4.1	6.6	Sat	Mod	Mod	NA	---	---	---	750	200	1200	6
390 0.2	19.7	1.8	1.8	9.0	Sat	Mod	Mod	Mod	40	45	---	150	750	1000	---
390 0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
390 0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
415 0.1	2.6	0.3	0.4	6.6	Unsat	Slight	Mod	NA	---	---	---	450	350	750	---
415 0.2	2.6	0.2	0.9	4.5	Unsat	Slight	Mod	NA	---	---	---	400	300	500	---
420 0.1	3.5	0.2	0.4	4.5	Unsat	Slight	Mod	NA	---	---	---	650	175	950	6
420 0.2	3.5	0.2	0.5	6.6	Unsat	Slight	Mod	NA	---	---	---	600	175	1000	8
421 0.1	20.7	1.3	3.0	6.6	Sat	Severe	Mod	NA	---	---	---	625	175	1000	8
421 0.2	5.4	0.4	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	700	200	1200	8

Map Unit No.	Comp	Soil Loss For Pot.	Nat.	Cur.	Tol.	Soil Cond.	Eros. Hazard	Potentials Re-veg.	Re-for.	Production Potentials For Pipos	Psmeg	Pien	Hb/Wd	Forg.	ForgM	FulWd
		«= t/ha/yr =»								«= Site Index =»			«= lb/ac/yr =»			cd/ac
421	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
422	0.1	13.7	3.9	4.6	4.5	Unsat	Severe	Low	NA	---	---	---	300	200	400	---
422	0.2	18.4	3.1	3.1	6.6	Sat	Severe	Low	NA	---	---	---	575	150	850	6
422	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
424	0.1	4.3	1.6	2.3	6.6	Sat	Slight	Mod	NA	---	---	---	400	100	300	---
424	0.2	0.8	0.3	0.5	4.5	Sat	Slight	Low	NA	---	---	---	150	75	100	---
424	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
424	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
427	0.1	1.8	0.6	0.9	6.6	Unsat	Slight	Mod	NA	---	---	---	450	400	500	---
427	0.2	15.7	1.8	2.2	6.6	Sat	Mod	Mod	NA	---	---	---	700	100	1200	8
427	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
427	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
428	0.1	1.8	0.9	1.0	6.6	Unsat	Slight	Mod	NA	---	---	---	450	150	350	---
429	0.1	3.5	0.5	0.9	6.6	Unsat	Slight	Mod	NA	---	---	---	650	225	1100	8
429	0.2	2.7	0.5	0.8	6.6	Sat	Slight	Mod	NA	---	---	---	575	225	1000	---
430	0.1	3.5	0.2	0.9	6.6	Unsat	Slight	Mod	NA	---	---	---	650	225	1100	8
431	0.1	39.8	2.6	7.4	6.6	Unsat	Severe	Mod	NA	---	---	---	650	225	1100	8
432	0.1	13.2	1.3	2.0	6.6	Sat	Mod	Mod	NA	---	---	---	575	150	850	6
433	0.1	1.8	0.2	0.3	6.6	Unsat	Slight	Mod	NA	---	---	---	700	200	1000	6
433	0.2	1.8	0.2	0.3	4.5	Unsat	Slight	Mod	NA	---	---	---	650	175	950	4
434	0.1	13.2	1.3	2.0	6.6	Sat	Mod	Mod	NA	---	---	---	575	150	850	6
434	0.2	5.4	0.4	0.8	6.6	Unsat	Slight	Mod	NA	---	---	---	700	275	1200	8
434	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
435	0.1	2.1	0.0	0.0	9.0	Sat	Slight	Mod	Mod	65	---	---	450	225	1500	---
435	0.2	15.7	1.2	2.2	6.6	Sat	Mod	Mod	NA	---	---	---	700	100	1200	8
437	0.1	11.9	1.5	1.5	6.6	Sat	Mod	Low	NA	---	---	---	650	175	950	6
437	0.2	17.7	0.0	0.0	9.0	Sat	Mod	Low	Low	45	50	---	250	45	2800	---
437	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
437	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
438	0.1	1.4	0.4	0.5	6.6	Sat	Slight	Mod	NA	---	---	---	700	200	1200	---
438	0.2	1.4	0.4	0.5	6.6	Sat	Slight	Mod	NA	---	---	---	500	150	900	---
440	0.1	1.4	0.4	0.5	6.6	Sat	Slight	Mod	NA	---	---	---	700	200	1200	---
440	0.2	0.4	0.0	0.0	6.6	Sat	Slight	Mod	NA	---	---	---	1600	200	1600	---
441	0.1	1.4	0.4	0.5	6.6	Sat	Slight	Mod	NA	---	---	---	600	250	1500	4
441	0.2	0.4	0.0	0.0	6.6	Sat	Slight	Mod	NA	---	---	---	1600	200	1600	---
448	0.1	15.7	1.0	1.3	9.0	Sat	Mod	Mod	Mod	60	---	---	550	300	2500	---
448	0.2	1.4	0.0	0.0	9.0	Sat	Slight	Mod	Mod	70	---	---	500	250	2500	---
451	0.1	19.7	0.0	0.0	9.0	Sat	Mod	Mod	Mod	60	65	---	375	125	3300	---
452	0.1	17.7	0.0	0.0	9.0	Sat	Mod	Low	Low	45	50	---	250	45	2800	---
452	0.2	62.9	0.1	0.1	6.6	Sat	Severe	Low	Low	---	---	65	75	25	2400	---
452	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
452	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
454	0.1	1.7	0.0	0.0	9.0	Sat	Slight	Mod	Mod	60	65	---	375	125	3300	---
454	0.2	19.7	0.0	0.0	9.0	Sat	Mod	Mod	Mod	60	65	---	375	125	3300	---
455	0.1	17.7	0.0	0.0	9.0	Sat	Mod	Low	Low	45	50	---	250	45	2800	---
455	0.2	20.3	0.0	0.0	6.6	Sat	Severe	Low	Low	---	---	70	100	50	2800	---
455	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
455	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 4a. Interpretations For General Ecosystem Survey. USDA-FS, R-3 Date 02/02/89 Page 6

Map Unit No.	Comp	Soil Loss For Pot.	Nat.	Cur.	Tol.	Soil Cond.	Eros. Hazard	Potentials Re-veg.	Re-for.	Production Potentials For Pipos	Psmeg	Pien	Hb/Wd	Forg.	ForgM	FulWd
		«= t/ha/yr			=»					«= Site Index		=»	«= lb/ac/yr		=»	cd/ac
456	0.1	1.4	0.0	0.0	9.0	Sat	Slight	Mod	Mod	60	---	---	550	300	2500	---
456	0.2	5.1	1.4	1.4	9.0	Sat	Slight	Mod	Mod	40	---	---	75	50	75	---
456	0.3	4.3	2.5	2.5	6.6	Sat	Slight	Mod	NA	---	---	---	25	25	25	2
458	0.1	2.8	0.2	0.5	6.6	Sat	Slight	Mod	NA	---	---	---	650	225	1100	8
458	0.2	4.3	2.5	2.5	6.6	Sat	Slight	Mod	NA	---	---	---	25	25	25	2
461	0.1	2.7	0.0	0.0	9.0	Sat	Slight	Mod	Mod	60	---	---	800	50	1800	---
461	0.2	19.7	0.4	0.5	9.0	Sat	Mod	Mod	Mod	60	---	---	800	50	1800	---
461	0.3	24.5	1.9	3.3	6.6	Sat	Severe	Mod	NA	---	---	---	700	100	1200	8
466	0.1	3.1	0.0	0.0	6.6	Sat	Slight	Mod	Mod	---	---	70	100	50	2800	---
466	0.2	22.6	0.0	0.0	6.6	Sat	Severe	Mod	Mod	---	---	70	100	50	2800	---
471	0.1	7.1	0.2	1.0	6.6	Unsat	Mod	Mod	Mod	---	---	---	3500	3300	3500	---
471	0.2	3.2	0.0	0.1	6.6	Unsat	Slight	Mod	Mod	---	---	---	4000	3300	3500	---
471	0.3	3.2	0.0	0.1	6.6	Sat	Slight	Mod	Mod	---	---	---	5500	4500	5500	---
473	0.1	22.6	2.0	3.9	2.2	Unsat	Severe	Low	NA	---	---	---	550	250	250	---
474	0.1	11.9	5.2	5.2	4.5	Unsuit	Mod	Low	NA	---	---	---	400	300	350	---
474	0.2	14.1	3.7	3.7	6.6	Sat	Mod	Low	NA	---	---	---	650	175	950	---
474	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
474	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
475	0.1	11.9	6.2	6.2	4.5	Unsuit	Mod	Low	NA	---	---	---	400	300	350	---
475	0.2	11.9	3.0	3.0	4.5	Sat	Mod	Low	NA	---	---	---	650	175	950	4
475	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
475	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
476	0.1	14.1	5.2	5.2	4.5	Unsuit	Severe	Low	NA	---	---	---	650	175	950	4
476	0.2	17.7	0.0	0.0	9.0	Sat	Mod	Low	Low	45	50	---	250	45	2800	---
476	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
476	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
477	0.1	4.3	2.1	2.6	4.5	Sat	Slight	Mod	NA	---	---	---	400	300	350	---
477	0.2	1.1	0.4	0.6	6.6	Sat	Slight	Mod	NA	---	---	---	450	150	350	---
478	0.1	11.9	6.2	6.2	4.5	Unsuit	Mod	Low	NA	---	---	---	400	300	350	---
478	0.2	14.1	5.2	5.2	4.5	Unsuit	Severe	Low	NA	---	---	---	650	175	950	4
478	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
478	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
479	0.1	14.1	5.2	5.2	4.5	Unsuit	Severe	Low	NA	---	---	---	650	175	950	4
479	0.2	17.7	0.0	0.0	9.0	Sat	Mod	Low	Low	45	50	---	250	45	2800	---
479	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
479	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
481	0.1	3.3	0.4	0.6	6.6	Sat	Slight	Mod	NA	---	---	---	700	100	1200	8
482	0.1	37.8	2.9	5.2	6.6	Sat	Severe	Mod	NA	---	---	---	700	100	1200	8
482	0.2	24.3	5.1	7.1	4.5	Unsuit	Severe	Mod	NA	---	---	---	600	75	1000	6
483	0.1	21.8	4.3	4.3	6.6	Sat	Severe	Low	NA	---	---	---	600	75	1000	6
483	0.2	14.1	3.1	3.1	4.5	Sat	Severe	Low	NA	---	---	---	600	50	150	6
483	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
483	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
485	0.1	1.4	0.1	0.2	6.6	Sat	Slight	Mod	NA	---	---	---	800	100	1200	2
485	0.2	15.7	2.2	3.1	6.6	Sat	Mod	Mod	NA	---	---	---	800	100	1200	2
486	0.1	17.7	4.0	4.0	6.6	Sat	Severe	Low	Low	---	---	---	600	75	1000	6
486	0.2	14.1	1.3	1.3	6.6	Sat	Mod	Low	NA	---	---	---	500	50	100	---
486	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Map Unit No.	Comp	Soil Loss For Pot. (t/ha/yr)	Nat.	Cur.	Tol.	Soil Cond.	Eros. Hazard	Potentials Re-veg.	Re-for.	Production Potentials For Pipos (Site Index)	Psmeg	Pien	Hb/Wd (lb/ac/yr)	Forg.	ForgM	FulWd cd/ac
486	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
487	0.1	14.1	2.8	2.8	6.6	Sat	Mod	Low	NA	---	---	---	600	75	1000	6
487	0.2	17.7	0.0	0.0	9.0	Sat	Mod	Low	Low	45	50	---	250	45	2800	---
487	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
487	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
490	0.1	13.2	4.5	7.0	6.6	Unsat	Mod	Mod	NA	---	---	---	450	400	500	---
490	0.2	24.5	2.3	3.4	6.6	Sat	Severe	Mod	NA	---	---	---	700	100	1200	8
490	0.3	1.8	0.5	0.9	6.6	Unsat	Slight	Mod	NA	---	---	---	550	450	500	---
491	0.1	13.2	3.7	5.3	6.6	Sat	Mod	Mod	NA	---	---	---	450	400	500	---
491	0.2	24.5	1.9	3.4	6.6	Sat	Severe	Mod	NA	---	---	---	700	100	1200	8
491	0.3	1.8	0.5	0.8	6.6	Unsat	Slight	Mod	NA	---	---	---	550	450	500	---
500	0.1	5.0	1.3	0.8	9.0	Unsat	Slight	Mod	Mod	---	---	---	800	500	3000	---
500	0.2	3.2	0.2	0.3	9.0	Sat	Slight	Mod	Mod	---	---	---	425	200	2100	---
501	0.1	5.0	0.3	0.8	9.0	Unsat	Slight	Mod	Mod	---	---	---	800	500	3000	---
501	0.2	1.4	0.1	0.3	9.0	Sat	Slight	Mod	Mod	---	---	---	600	300	3000	---
510	0.1	5.0	0.2	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	1000	500	2000	8
510	0.2	5.0	0.4	0.9	6.6	Unsat	Slight	Mod	NA	---	---	---	1000	500	2000	8
515	0.1	4.2	0.2	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	1500	1400	1500	---
515	0.2	1.8	0.2	0.4	6.6	Unsat	Slight	Mod	NA	---	---	---	1600	500	1600	---
516	0.1	5.0	0.2	0.8	9.0	Unsat	Slight	Mod	Mod	---	---	---	1000	600	3000	---
516	0.2	2.2	0.0	0.1	9.0	Unsat	Slight	Mod	Mod	---	---	---	3000	500	3000	---
517	0.1	6.2	0.7	0.9	9.0	Unsat	Slight	High	High	---	---	---	1000	600	3000	---
517	0.2	2.8	0.2	0.3	9.0	Unsat	Slight	High	High	---	---	---	3800	800	3800	---
518	0.1	4.2	0.2	0.6	6.6	Unsat	Slight	Mod	NA	---	---	---	1500	1400	1500	---
551	0.1	20.4	1.7	3.7	4.5	Sat	Severe	Mod	NA	---	---	---	700	125	1500	8
551	0.2	1.8	0.1	0.3	6.6	Unsat	Slight	Mod	NA	---	---	---	725	150	1600	8
553	0.1	27.4	0.3	0.3	9.0	Sat	Severe	Low	Low	60	65	---	300	50	3000	---
553	0.2	20.3	0.0	0.0	6.6	Sat	Severe	Low	Low	---	---	70	100	25	3000	---
553	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
553	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
554	0.1	4.8	0.0	1.2	6.6	Sat	Slight	Mod	Mod	---	---	75	3250	3000	3250	---
554	0.2	54.3	0.1	0.1	6.6	Sat	Severe	Mod	Mod	---	---	75	100	25	3000	---
555	0.1	54.3	0.1	14.1	6.6	Unsat	Severe	Mod	Mod	---	---	75	3000	2800	3000	---
556	0.1	47.5	2.9	3.6	9.0	Sat	Severe	Mod	Mod	---	---	---	800	250	3000	---
556	0.2	13.5	0.7	4.2	9.0	Unsat	Mod	High	High	---	---	---	3000	2800	3000	---
556	0.3	1.4	0.0	0.0	9.0	Sat	Slight	High	High	---	---	---	5000	4000	5000	---
558	0.1	6.2	0.1	1.2	9.0	Unsat	Slight	High	High	---	---	---	3750	3550	3750	---
558	0.2	2.8	0.0	0.3	9.0	Unsat	Slight	High	High	---	---	---	3800	800	3800	---
559	0.1	6.2	0.1	1.2	9.0	Unsat	Slight	High	High	---	---	---	3750	3550	3750	---
559	0.2	2.8	0.0	0.3	9.0	Unsat	Slight	High	High	---	---	---	3800	800	3800	---
560	0.1	2.9	0.0	0.6	9.0	Unsat	Slight	Mod	Mod	75	---	---	3000	2800	3000	---
561	0.1	6.5	0.2	1.6	9.0	Unsat	Slight	Mod	Mod	75	---	---	3000	2800	3000	---
562	0.1	20.4	2.0	3.6	6.6	Sat	Severe	Mod	NA	---	---	---	750	175	1500	8
563	0.1	18.4	4.1	4.1	4.5	Sat	Severe	Low	NA	---	---	---	600	100	1200	4
563	0.2	84.7	0.1	0.1	9.0	Sat	Severe	Low	Low	60	65	---	300	50	3300	---
563	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
563	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
565	0.1	2.8	0.2	0.5	4.5	Unsat	Slight	Mod	NA	---	---	---	700	150	1500	6

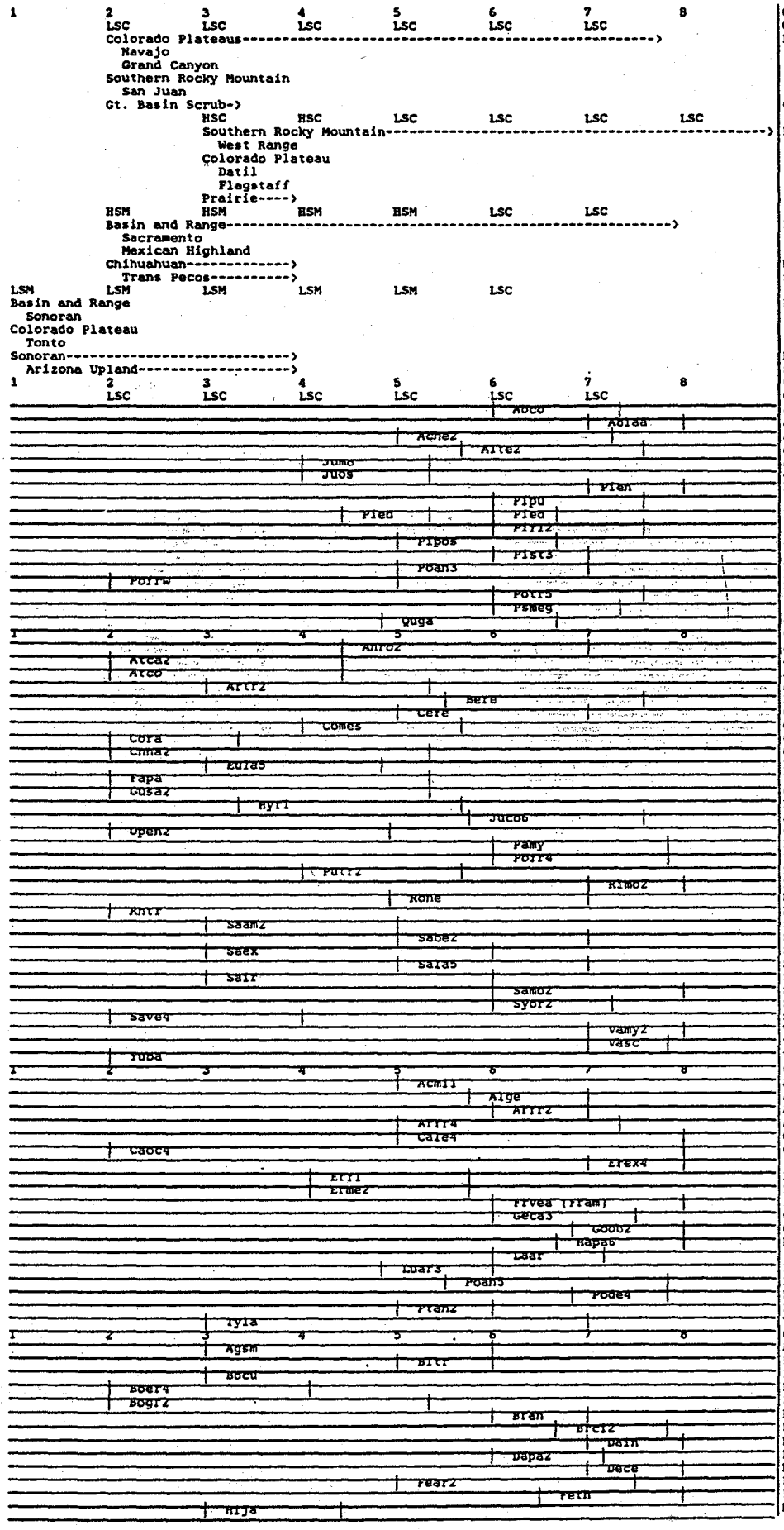
Table 4a. Interpretations For General Ecosystem Survey. USDA-FS, R-3 Date 02/02/89 Page 8

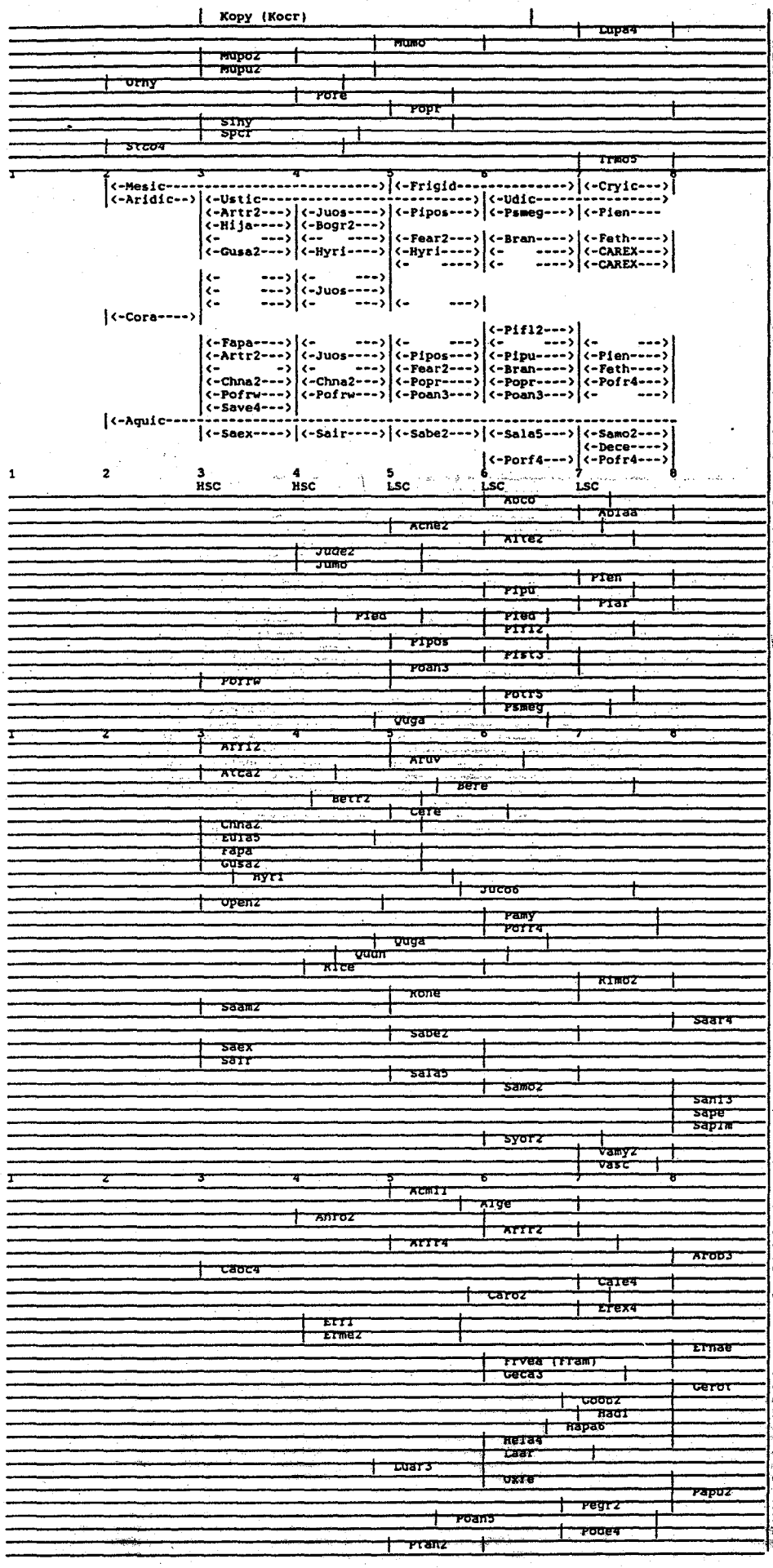
Map Unit No.	Comp	Soil Loss For Pot.	Nat.	Cur.	Tol.	Soil Cond.	Eros. Hazard	Potentials Re-veg.	Re-for.	Production Potentials For Pipos	Psmeg	Pien	Hb/Wd	Forg.	ForgM	FulWd
		«= t/ha/yr			=»					«= Site Index		=»	«= lb/ac/yr		=»	cd/ac
565	0.2	20.4	2.1	3.7	4.5	Sat	Severe	Mod	NA	---	---	---	700	150	1500	6
571	0.1	24.3	0.0	0.3	9.0	Sat	Severe	Mod	Mod	65	---	---	400	200	2400	---
571	0.2	30.4	0.0	0.4	9.0	Sat	Severe	Mod	Mod	65	70	---	400	150	3500	---
572	0.1	47.5	0.1	0.6	9.0	Sat	Severe	Mod	Mod	65	70	---	400	150	3500	---
572	0.2	54.3	0.1	0.1	6.6	Sat	Severe	Mod	Mod	---	---	75	100	50	3600	---
576	0.1	20.4	2.1	3.1	4.5	Sat	Severe	Mod	NA	---	---	---	700	150	1500	6
576	0.2	24.3	0.0	0.3	9.0	Sat	Severe	Mod	Mod	65	---	---	400	200	2400	---
580	0.1	4.2	0.0	0.9	9.0	Unsat	Slight	High	High	65	70	---	4000	3800	4000	---
581	0.1	2.9	0.2	0.6	9.0	Unsat	Slight	Mod	Mod	45	---	---	1000	550	1000	---
582	0.1	4.2	0.1	1.1	9.0	Sat	Slight	High	High	70	75	---	3000	2800	3000	---
592	0.1	18.4	9.6	11.6	4.5	Unsuit	Severe	Low	NA	---	---	---	300	50	75	---
592	0.2	21.8	4.8	4.8	4.5	Unsuit	Severe	Low	NA	---	---	---	400	75	300	4
592	0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
592	0.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
700	0.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
700	0.2	0.4	0.1	0.1	9.0	Sat	Slight	Mod	Mod	40	---	---	75	50	75	---
705	0.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
705	0.2	3.3	0.0	0.1	9.0	Sat	Slight	Mod	Mod	70	---	---	500	250	2500	---

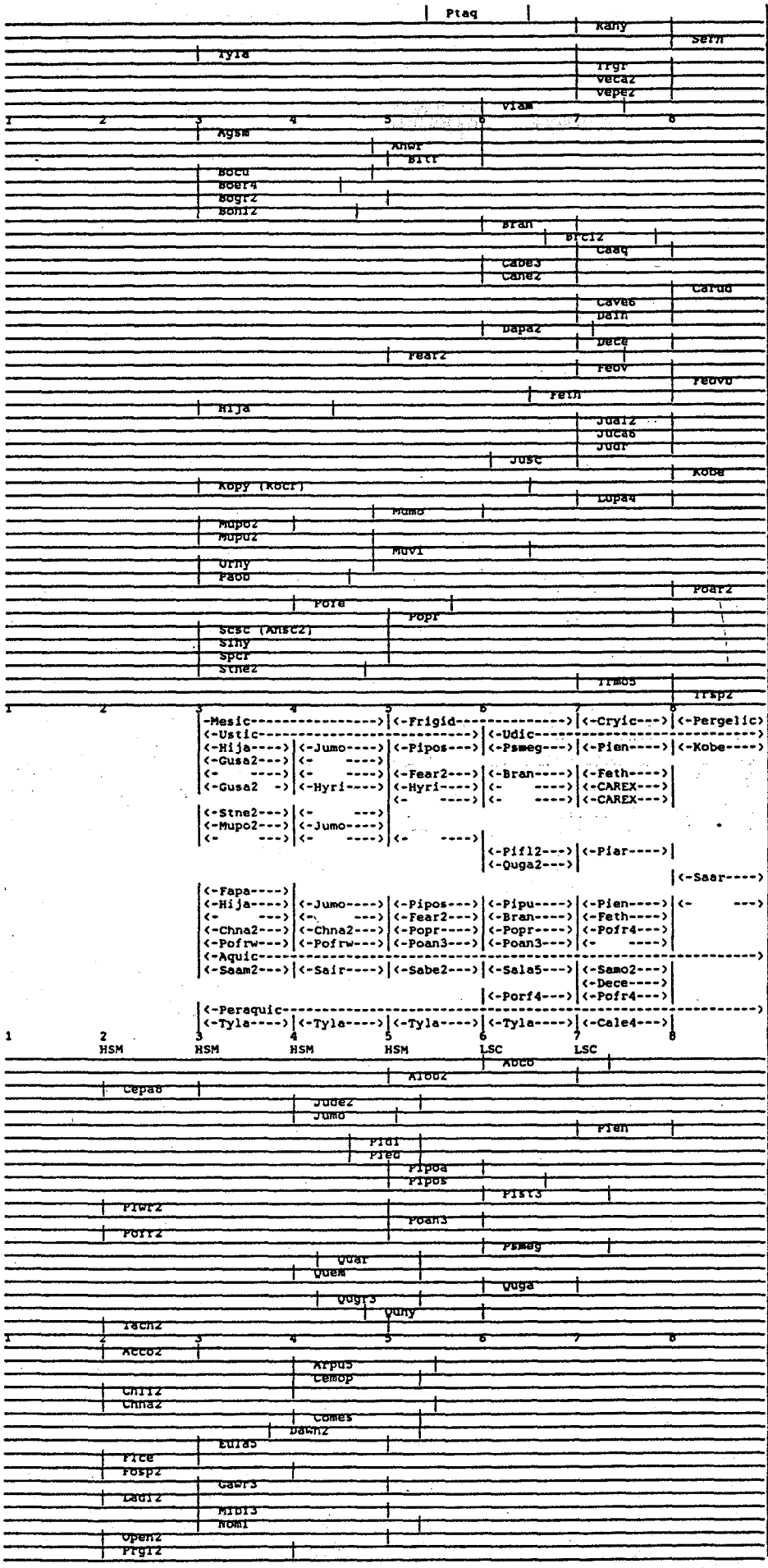
OUTPUT SCREEN

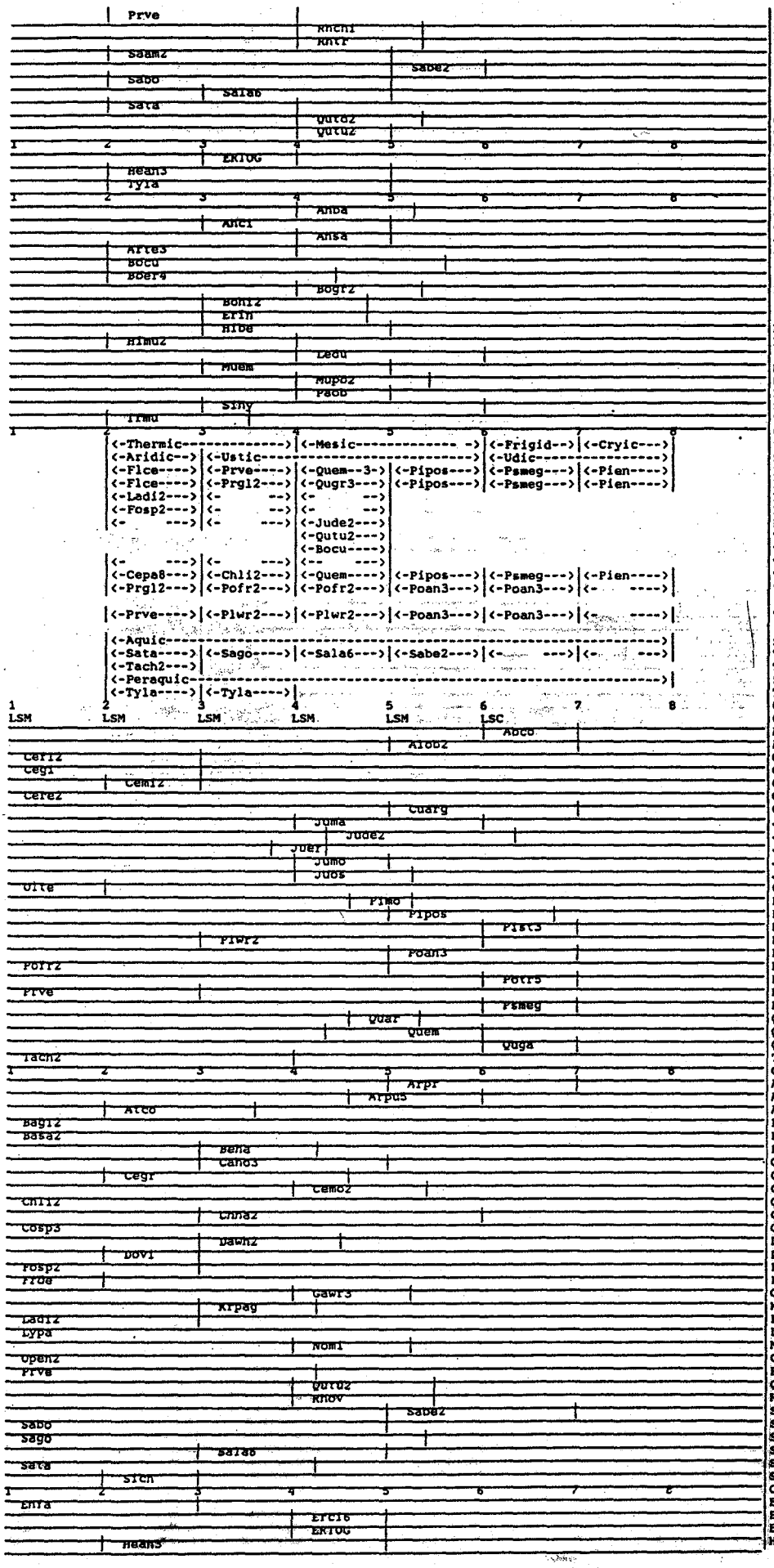
Appendix E

Table 5. Gradient Analysis for General Ecosystems. - USDA-FS, R-3 - 11/01/88




Koeleria pyramidata
Luzula parviflora
Muhlenbergia montana
Muhlenbergia porteri
Muhlenbergia pungens
Oryzopsis hymenoides
Poa fendleriana
Poa pratensis
Sitanion hystrix
Sporoblus cryptandrus
Stipa comata
Trisetum montanum
Column number
CLIMAX CLASS
STR
SMR
Edaphic
Edaphic/zootic
Edaphic/fire
Edap/fire/zoo (elev plain)
Edaphic/fire/zoo (hill/mtn)
Edaphic (CaCO3)
Edaphic (sandy)
Edaphic (clayey)
Topographic
Topo (dry/cold-south aspect)
Topo-edaphic (excess drain)
Topo-edaphic (H20 >150 cm)
Topo-edap/fire (H20 >150 cm
Topo-edap/fire/zoo (H20 >150 cm)
Topo-edaphic (H20 50-150 cm)
Topo-edap (H20 <150-sal/alk)
SMR
Topo-edaphic (H20 <50 cm)
Topo-edaphic (H20 <50 cm)
Topo-edaphic/zoo (H20 <50cm)
Column number
Climatic class
TREES
Abies concolor
Abies lasiocarpa arizonica
Acer negundo
Alnus tenufolia
Juniperous deppeana
Juniperous monosperma
Picea engelmannii
Picea pungens
Pinus aristata
Pinus edulis
Pinus flexilis
Pinus ponderosa scupulorum
Pinus strobliformis
Poplulus angustifolia
Poplulus fremontii wislizenii
Poplulus tremulodies
Pseudotsuga menziesii glauca
Quercus gambelii
Column number
SHRUBS
Artemisia filifolia
Arctostaphylos uva-ursi
Atriplex canescens
Berberis repens
Berberis trifoliata
Ceanothus fendleri
Chrysothnmnus nauseosus
Eurotia lanata
Fallugia paradoxa
Gutierrezia sarthrae
Hymenoxys richardsonii
Juniperous communis
Opuntia engelmannii
Pachystima myrsintes
Potentilla fruticosa
Quercus gambelii
Qucerus undVlata
Ribes cereum
Ribies montigenum
Robinia neomexicana
Salix amydalodies
Salix arctica
Salix bebbiana
Salix exigua
Salix irrorata
Salix lasiandra
Salix monticola
Salix nivalis
Salix petrophila
Salix plantifolia monica
Symphoricarpos oreophilus
Vaccinium mytillus
Vaccinium scoparium
Column number
FORBS
Achillea millefolium lanulosa
Allium geyerii
Antennaria rosea
Artemisia franseriodes
Artemisia frigida
Arenaria obtusloba
Castilleja occidentalis
Caltha leptosepala
Campanula rotundifolia
Erigerion eximius
Erigeron flagellaris
Erigeron melanocephalus
Eritrichium nanum elongatum
Fragaria vesca americana
Geranium caespitosum
Geum rossii turbinatum
Goodyera oblongifolia
Habenaria dilatata
Haplopappus parryie
Heracleum lanatum
Lathyrus arizonicus
Lupinus argenteus
Oxypolis fendleri
Paronychia pulvinata
Pedicularis groenlandica
Potentilla anscrina
Polemonium delicatum
Pterospera endromedea


Pteridium aquilinum
Ranunculus hydrocharoides
Sedum rhodanthum
Typha latifolia
Trautvetteria grandis
Veratrum californicum
Veronica peregrina
Vicia americana
Column number GRAMMINOIDS
Agropyron smithii
Andropogon wrightii
Blepharoneuron tricholepis
Bouteloua curtipendula
Bouteloua eriopoda
Bouteloua gracilis
Bouteloua hirsuta
Bromus anomalus
Bromus ciliatus
Carex aquatilis
Carex bella
Carex nebraskensis
Carex rupestris dummondiana
Carex vesicaria
Danthonia intermedia
Danthonia parryi
Deschampsia cespitosa
Festuca arizonica
Festuca ovina
Festuca ovina bracyphylla
Festuca thurberi
Hilaria jamesii
Juncus albeccens
Juncus castaneus
Juncus drummondii
Juncus scirpodes
Kobresia bellardi
Koeleria pyramidata
Luzula paraviflora
Muhlenbergia montana
Muhlenbergia porteri
Muhlenbergia pungens
Muhlenbergia virenscens
Oryzopsis hymenoides
Panicum obtusum
Poa artica
Poa fendleriana
Poa pratensis
Schizachyrium scoparium
Sitanion hystrix
Sporoblus cryptandrus
Stipa neomexicana
Trisetum montanum
Trisetum spicatum
Column number CLIMAX CLASS
STR
SMR
Edaphic
Edaphic/zootic
Edaphic/fire
Edap/fire/zoo (elev plain)
Edaphic/fire/zoo (hill/mtn)
Edaphic (CaCO3)
Edaphic (sandy)
Edaphic (clayey)
Topo (dry/cold-south aspect)
Topo/fire (south aspect)
Topo (snow pack)
Topo-edaphic (excess drain)
Topo-edaphic (H20 >150 cm)
Topo-edap/fire (H20 >150 cm
Topo-edap/fire/zoo (H20 >150 cm)
Topo-edaphic (H20 50-150 cm)
SMR
Topo-edaphic (H20 <50 cm)
Topo-edaphic (H20 <50 cm)
Topo-edaphic/zoo (H20 <50cm)
Topo-edaphic (H20 <50 cm)
Column number
Climatic class TREES
Abies concolor
Alnus oblongifolia
Celtis pallida
Juniperous deppeana
Juniperous momosperma
Picea engelmannii
Pinus discolor
Pinus edulis
Pinus ponderoas arizonica
Pinus ponderosa scupulorum
Pinus strobiformis
Platanus wrightii
Populus angustifolia
Populus fremontii
Pseudotsuga menziesii glauca
Quercus arizonica
Quercus emoryi
Quercus gambelii
Quercus grisea
Quercus hypoleucoides
Tamarix chinensis
Column number SHRUBS
Acacia constricta
Arctostaphylos pungens
Cerococarpus montanus paucid.
Chilopsis linearis
Chrysothnmus nauseosus
Cowania mexicana stansburiana
Dasylirion wheeleri
Eurotia lanata
Flourensia cernua
Fouquieria splendens
Garry wrightii
Larrea divaricata
Mimosa biuncifera
Noilna microcarpa
Opuntia englmannii
Prosopis glandulosa


Prve
Rnchl
Rntr
Saamz
Sabe2
Sabo
Salab
Sata
Qutu2
Qutuz
1 2 3 4 5 6 7 8
Ektog
Hean3
Tyla
1 2 3 4 5 6 7 8
Anba
Ancl
Ansa
Arte3
Bocu
Bbera
Bogr2
Bohl2
Erin
Hibe
Himu2
Ledu
Muem
Mupo2
Paob
Sihy
Trmu
1 2 3 4 5 6 7 8
<-Thermic----------> <-Mesic---------- -> <-Frigid--> <-Cryic--->
<-Aridic--> <-Ustic----------> <-Udic----------> <-Pipos---> <-Psmeg---> <-Pien---->
<-Flce----> <-Prve----> <-Quem--3-> <-Pipos---> <-Psmeg---> <-Pien---->
<-Flce----> <-Prgl2---> <-Quqr3---> <-Pipos---> <-Psmeg---> <-Pien---->
<-Ladi2---> <- --> <- -->
<-Fosp2---> <- --> <- -->
<- ---> <- ---> <-Jude2--->
<-qutu2--->
<-Bocu---->
<- ---> <- ---> <-- --->
<-Cepa8---> <-Chli2---> <-Quem----> <-Pipos---> <-Psmeg---> <-Pien---->
<-Prgl2---> <-Pofr2---> <-Pofr2---> <-Poan3---> <-Poan3---> <- ---->
<-Prve----> <-Plwr2---> <-Plwr2---> <-Poan3---> <-Poan3---> <- ---->
<-Aquic----------
<-Sata----> <-Sago----> <-Sala6---> <-Sabe2---> <- ---> <- --->
<-Tach2--->
<-Peraquic----------
<-Tyla----> <-Tyla---->
1 2 3 4 5 6 7 8
LSM LSM LSM LSM LSM LSC
Abco
Alobz
Cerlz
Cegl
Cemlz
Cerez
Cuarg
Juma
Judez
Juel
Jumo
Juos
Olte
Pimo
Pipos
Pist3
Plwrz
Poan3
Pofrz
Potr5
Prve
Psmeg
Quar
Quem
Quga
Tach2
1 2 3 4 5 6 7 8
Arpr
Arpus
Atco
Bagl2
Basa2
Bena
Cano3
Cegr
Cemoz
Chlz
Chnaz
Cosp3
Dawhz
Dovl
Fosp2
Frue
Gawr3
Krpag
Ladlz
Lypa
Nom1
Openz
Prve
Qutu2
Rnov
Sabe2
Sabo
Sago
Salab
Sata
Sich
1 2 3 4 5 6 7 8
Enfa
Erc16
Ektog
Hean3
Prosopis velutina
Rhus choriophylla
Rhus trilobata
Salix amydaloides
Salix bebbiana
Salix bonplandiana
Salix lasioepis
Salix taxifolia
Quercus toumeyi
Quercus turbinella
Column number FORBS
Erigerion
Helianthus annuus
Typha latifolia
Column number GRAMMINOIDS
Andropogon barbompodes
Andropogon cirratus
Andropogon saccharides
Aristida ternipes
Bouteloua curtipendula
Bouteloua eriopoda
Bouteloua gracilis
Bouteloua hirsuta
Eragrostis intermedia
Hilaria belangeri
Hilaria mutica
Leptochloa dubia
Muhlenbergia emersleyi
Muhlenbergia porteri
Panicum obtusum
Sitanion hystrix
Tridens mutica
Column number CLIMAX CLASS
STR
SMR
Edaphic (western section)
Edaphic (eastern section)
Edaphic (CaCO3)
Edaphic (shallow)
Edaphic (clayey/elev plain)
Topo/fire
Topographic (wind)
Topo-edap (excess drained)
Topo-edaphic (H20 >150 cm)
Topo-edaphic (H20 50-150 cm)-(eastern section)
Topo-edaphic (H20 50-150 cm)-(western section)
SMR
Topo-edaphic (H20 <50 cm)
Topo-edap/zoo (H20 <50 cm)
SMR
Topo-edaphic (H20 <50 cm)
Column number
Climatic class TREES
Abies concolorts
Alnus oblongifolia
Cercidium flordum
Cereus giganteus
Cercidum microphyllum
Celtis reticulata
Cupressus arizonica glabra
Juglans majors
Juniperous deppeana
Juniperous erythrocapa
Juniperous monosperma
Juniperous ostesperma
Olney tesota
Pinus monophylla
Pinus ponderosa scupulorum
Pinus strobiformis
Platanus wrightii
Populus angustifolia
Populus fremontii
Populus tremuloides
Prosopis velutina
Pseudotsuga menziesii glauca
Quercus arizonica
Quercus emoryi
Quercus gambelii
Tamarix chinensis
Column number SHRUBS
Arctostaphylos pringlei
Arctostaphylos punguns
Atriplex conterfolia
Baccaris glutinosa
Baccaris sarothides
Berberis haematocarpa
Canotia holacantha
Ceanothus greggii
Cerococarpus montanus
Chilopsis linearis
Chrysothnmnus nauseosus
Condalia spatulata
Dasylirion wheeleri
Dodonaea viscosa
Fouquieria splendens
Franseria deltoidea
Garrya wrightii
Krameria paravifolia.glandul.
Larrea divaricata
Lycium pallidum
Nolina microcarpa
Opuntia engelmannii
Prosopis velutina
Quercus turbinella
Rhus ovata
Salix bebbiana
Salix bonplandiana
Salix goodingii
Salix lasioepis
Salix taxifolia
Simmondsia chinensis
Column number FORBS
Encelia farinosa
Erodium cirutarium
Erigerion
Helianthus annuus

	1	2	3	4	5	6	7	8
Psoralea teniflora				Pste3				
Typha latifolia	Tyla							
Column number **GRAMMINOIDS**	1	2	3	4	5	6	7	8
Andropogon barbompodes			Anba					
Andropogon saccharoides				Ansa				
Bouteloua curtipendula		Bocu						
Bouteloua eriopoda			Boer4					
Bouteloua gracilis				Bogr2				
Bouteloua hirsuta			Bohi2					
Bromus rubens	Brru2							
Eragrostis intermedia		Erin						
Hilaria belangeri			Hibe					
Hilaria mutica		Himu2						
Koeleria pyramidata			Kopy (Kocr)					
Muhenbergia longiligala					Mulo			
Muhenbergia porteri		Mupo2						
Panicum obtusum				Paob				
Pao fendleriana				Pofe				
Sitanion hystrix			Siny					
Stipa speciosa			Stsp3					
Tridens mutica				Trmu				

Column number **CLIMAX CLASS**	1	2	3	4	5	6	7	8
STR	Hyperther.->	<-Thermic------------->		<--Mesic------------->		<-Frigid-->		
SMR	Aridic----------------->		<-Ustic---------------------------->			<-Udic---->		
Edaphic	<-Frde----->	<-Cemi2--->	<-Prve---->	<-Quar---->	<-Pipos--->	<-Psmeg--->		
Edaphic/zootic								
Edaphic/fire				<-Qutu2--->				
Topo/fire					<-Cuarg--->			
Edaphic (CaCO3)	<-Ladi2---->	<-Ladi2--->	<-Caho3--->	- --->	<- --->			
Edaphic (shallow)	<-Fosp2---->	<-Fosp2--->	<- -->	<- --->				
Edaphic (shallow/tuff)		<-Dovi---->						
Edaphic (clayey/elev plain)				<--Jude2-->				
Topo-edaphic (excess drain)	<- ---->	<- -->	<- -->					
Topo-edaphic (H20 >150 cm)	<-Olte---->	<-Cefl2--->	<-Chli2--->	<-Quem---->	<-Pipos--->	<-Psmeg--->		
Topo-edaphic (H20 50-150 cm)	<-Prve---->	<-Prve---->	<-Plwr2--->	<-Plwr2--->	<-Poan3--->	<-Poan3--->		
Topo-edap (H20 >150cm sal/alk)		<-Atco---->						
SMR	<-Aquic-->							
Topo-edaphic (H20 <50 cm)	<-Sabo---->	<-Sata---->	<-Sago---->	<-Sala6--->	<-Sabe2--->	<- -->		
Topo-edap/zoo (H20 <50 cm)	<-Tach2--->	<-Tach2--->	<-Tach2--->					
SMR	<-Peraquic--->							
Topo-edaphic (H20 <50 cm)	<-Tyla---->	<-Tyla----->						

Column number **CLIMATE**	1	2	3	4	5	6	7	8
Climatic Class		LSC	LSC	LSC	LSC	LSC	LSC	
NOAA ( )		Farmington			Jacob Lk.2NE			
Soil temp./moist. study [ ]					T39NR2ES8			
Climatic Type (Trewartha)		BSkf			Dcbf			
MAAT deg. C		12{11}	10	8	5{7}	4	1	
AT deg. C by 4 seasons		{2/16/22/5}			{-1/10/16/3}			
AT deg. C by 2 seasons		{19/4}			{13/1}			
AT deg. C by soil season		{23/0}			{16/-2}			
MAST deg. C @ 50 cm		13{12}	11[12]	9[9]	6[5]{8}	5[5]	2	
MSST deg. C @ 50 cm					12[11]	9[10]	6	
MWST deg. C @ 50 cm				5	2[0]	1[-1]	-1	
MAST deg. C @ 50 cm Disc					7	6	-2	
MSST deg. C @ 50 cm Disc					12	10	4	
MWST deg. C @ 50 cm Disc.								
FFP no. days		170{166}	150	130	100{120}	90	60	
MAP cm		20{21}	30	40	56{48}	66	76	
AP % of ann. by 4 seasons		{19/16/36/29			{24/18/32/27			
AP % of ann. by 2 seasons		{52/48}			{50/50}			
AP % of ann. by soil seasons		{49/27}			{40/32}			
MAS cm		70	80	90	120	150	180	
MASA cm		10P	15P	20P	35C	70C	120C	
SP mo.(s)		12/1-4/1	12/1-4/1	12/1-4/1	11/1-4/15	10/15-4/15	10/15/15	
aPET cm		{71}			{53}			
Water balance cm		-60{-50}	-50	-30	10{-6}	40	70	
MLSP % of An.		60{48}	60	60	55{50}	50	50	
2 yr 6hr st. cm		3.0	3.0	3.6	4.0	4.6	5.0	
ME m		1700{1675}	1800	2100	2400	2700	3000	
STR		Mesic	Mesic	Mesic	Frigid	Frigid	Cryic	
SMR		Aridic	Ustic	Ustic	Ustic	Udic	Udic	

Column number	1	2	3	4	5	6	7	8
Climatic Class			HSC	HSC	HSC	LSC	LSC	LSC
NOAA ( )			Vaughn	Mtn. Air	Flagstaff	Cloudcroft		
Soil temp./moist. study [ ]				T26NR7ES16	T13NR13ES8			
Climatic Type (Trewartha)			BSkf	BSkf	Dcbf	Dcbf		
MAAT deg. C			12{12}	9{11}	5{7}	4{4}	1	-3
AT deg. C by 4 seasons			{3/16/21/7}	{3/15/20/6}	{0/10/17/3}	{ }		
AT deg. C by 2 seasons			{18/5}	{17/4}	{14/1}	{ }		
AT deg. C by soil season			{22/2}	{21/1}	{17/-1}	{ }		
MAST deg. C @ 50 cm			13{13}	10[10]{12}	6[7]{8}	5[5]	2[3]	-2[-1]
MSST deg. C @ 50 cm				[ ]	12[9]	9[9]	6[6]	4[4]
MWST deg. C @ 50 cm				5[ ]	2[2]	1[1]	-1[-1]	-6[-6]
MAST deg. C @ 50 cm Disc					7	6	3[ ]	
MSST deg. C @ 50 cm Disc					12	10	7[ ]	4
MWST deg. C @ 50 cm Disc.								
FFP no. days			165{167}	150{147}	120{120}	90{ }	60	30
MAP cm			30{31}	40{34}	56{52}	66{66}	76	86
AP % of ann. by 4 seasons			{11/26/50/15	{15/14/53/19	{28/13/32/27			
AP % of ann. by 2 seasons			{75/25}	{67/33}	{45/55}			
AP % of ann. by soil season			{57/15}	{62/19}	{40/35}			
MAS cm			60	80	110	140	170	210
MASA cm			10P	10P	20P	50C	120C	15P
SP mo.(s)			12/1-4/1	12/1-4/1	11/1-3/15	11/1-4/15	10/15-5/15	10/15-6/1
aPET cm			{69}	{65}	{51}	{44}		
Water balance cm			-60{-38}	-40{-32}	10{-3}	40{22}	90	150
MLSP % of An.			40{25}	40{33}	50{55}	50	50	50
2 yr 6hr st. cm			3.0	3.6	4.0	4.6	5.0	5.0
ME m			1800{1820}	2100{1987}	2400{2135}	2700	3200	3800
STR			Mesic	Mesic	Frigid	Frigid	Cryic	Pergelic
SMR			Ustic	Ustic	Ustic	Udic	Udic	Udic

Column number	1	2	3	4	5	6	7	8
Climatic Class		HSM	HSM	HSM	HSM	LSC	LSC	
NOAA ( )		Douglas	Apache 6WNW					
Soil temp./moist. study [ ]					T29SR30ES20			
Climatic Type (Trewartha)		BShw	Caf					
MAAT deg. C		18{16}	15{14}	12	9	6	3	
AT deg. C by 4 seasons		{9/20/25/12}	{8/17/22/10}					
AT deg. C by 2 seasons		{22/11}	{20/9}					
AT deg. C by soil seasons		{25/8}	{23/6}					
MAST deg. C @ 50 cm		19{17}	16{15}	13[ ]	10	7	4	
MSST deg. C @ 50 cm					12	9	6	
MWST deg. C @ 50 cm								
MAST deg. C @ 50 cm Disc								
MSST deg. C @ 50 cm Disc								
MWST deg. C @ 50 cm Disc.								
FFP no. days		230{201}	200{178}	170	140	110	80	
MAP cm		39{32}	40{46}	50	60	70	76	

	{13/6/64/17}	{22/5/47/26}						AP % of ann. by 4 seasons
	{70/30}	{52/48}						AP % of ann. by 2 seasons
	{71/15}	{56/24}						AP % of ann. by soil seasons
	0	0	20	50	110	190		MAS cm
	0	0	0	15P	45C	75C		MASA cm
				12/15-3/15	12/1-5/1	11/155/15		SP mo.(s)
	{86}	{75}						aPET cm
	-60{-55}	-30{-30}	0	50	80	140		Water balance cm
	40{30}	40{48}	40	45	50	50		MLSP % of An.
	3.0	3.6	4.0	4.6	5.0	5.6		2 yr 6hr st. cm
	1200{1249}	1500{1643}	1800	2300	2600	3200		ME m
	Thermic	Thermic	Mesic	Mesic	Frigid	Cryic		STR
	Aridic	Ustic	Ustic	Ustic	Udic	Udic		SMR
1	2	3	4	5	6	7	8	Column number
LSM	LSM	LSM	LSM	LSM	LSC			Climatic Class
Apache Jn.	Carefree	Globe	Pleasant VRS					NOAA ( )
				T4NR17ES16				Soil temp./moist. study [ ]
BShf	BShf	BShf	Doaf					Climatic Type (Trewartha)
22 {22}	19{20}	16{17}	13{11}	9	7			MAAT deg. C
{14/25/31/17}	{12/23/29/16}	{9/20/26/12}	{4/14/21/7}					AT deg. C by 4 seasons
{28/16}	{26/14}	{23/10}	{17/6}					AT deg. C by 2 seasons
{31/12}	{30/11}	{27/7}	{21/3}					AT deg. C by soil seasons
23[20]{23}	20[ ]{21}	17[17]{18}	14[13]{12}	10	8			MAST deg. C @ 50 cm
				14	10			MSST deg. C @ 50 cm
	[10]	[7]	[5]					MWST deg. C @ 50 cm
								MAST deg. C @ 50 cm Disc
								MSST deg. C @ 50 cm Disc
								MWST deg. C @ 50 cm Disc.
310{313}	260{281}	230{213}	200{127}	170	140			FFP no. days
24{25}	30{31}	40{40}	50{50}	60	70			MAP cm
{32/8/28/33}	{28/6/34/32}	{24/7/43/26}	{29/10/35/26					AP % of ann. by 4 seasons
{36/64}	{40/60}	{49/51}	{45/55}					AP % of ann. by 2 seasons
{36/36}	{42/32}	{52/27}	{43/33}					AP % of ann. by soil seasons
0	0	0	30	60	110			MAS cm
0	0	0	0	10P	25C			MASA cm
				12/15-3/1	12/1-5/1			SP mo.(s)
{133}	{118}	{90}	{67}					aPET cm
-130{-107}	-110{-87}	-40{-50}	-10{-17}	30	70			Water balance cm
60{65}	60{60}	60{51}	60{55}	60	60			MLSP % of Annual
3.0	3.0	3.6	4.0	4.6	5.0			2 yr 6hr st. cm
300{520}	600{771}	1200{1082}	1500{1539}	1900	2300			ME m
Hyperthermic	Thermic	Thermic	Mesic	Mesic	Frigid			STR
Ardic	Aridic	Ustic	Ustic	Ustic	Udic			SMR
1	2	3	4	5	6	7	8	Column number SOILS
ARIDISOLS		ALFISOLS						
Argids		Ustalfs		Boralfs				
Haplargids		Haplustalfs		Eutroboralf	Glossoboralf	Cryoboralfs		
Lithic	Lithic	Lithic	Lithic	Lithic	Lithic	Lithic		
Typic	Ustalfic	Aridic	Typic	Typic	Eutric	Typic		
	Ustollic			Mollic		Mollic		
				Glossic	Typic			
Vertic	Vertic	Vertic	Vertic					
Natriargids								
	Haplic							
				Ustalfs	Udalfs			
				Haplustalf	Hapludalf			
				Lithic	Lithic			
				Udic	Glossoboric			
Paleargids		Paleustalfs		Paleboralfs				
Typic	Ustollic	Aridic	Typic	Typic	Typic	Typic		
		INCEPTISOLS						
Orthids		Ochrepts						
Camborthids		Ustochrepts			Dystrochrept	Cryochrepts		
Lithic	Lithic	Lithic	Lithic	Lithic	Lithic	Lithic	Lithic	
Typic	Ustochreptic	Aridic	Typic	Udic	Typic	Dystric	Pergelic	
	Ustollic							
Vertic	Vertic	Vertic	Vertic					
Fluventic	Fluventic	Fluventic	Fluventic	Fluventic	Fluventic			
					Eutrochrepts			
					Lithic			
					Typic			
				Andepts				
				Vitrandepts		Cryandepts		
				Typic	Typic	Dystric		
				Mollic				
							Umbrepts	
							Cryumbrepts	
							Pergelic	
1	2	3	4	5	6	7	8	Column number
Calciorthids								
Lithic	Lithic							
Typic	Ustochrepti							
	Ustollic							
Vertic	Vertic							
ENTISOLS								
Orthents								
Torriorthents		Ustorthents			Udorthents	Cryothents		
Lithic	Lithic	Lithic	Lithic	Lithic	Lithic	Lithic	Lithic	
Typic	Ustic	Typic	Typic	Typic	Typic	Typic	Pergelic	
Aquents								
Fluvaquents								
Typic	Typic	Typic	Typic	Typic	Typic	Typic		
Fluvents								
Ustifluvents					Udifluvents	Cryofluvents		
Typic	Typic	Typic	Typic	Typic	Typic	Typic		
Aquic	Aquic	Aquic	Aquic	Aquic	Aquic	Aquic		
Torrifluvents								
Typic	Ustic	Typic	Typic					
Psamments								
Torripsamments		Ustipsamments						
Lithic	Lithic	Lithic	Lithic	Lithic				
Typic	Ustic	Typic	Typic	Typic				
HISTOSOLS								
Fibrist								
						Cryofibrists		
						Terric		
Hemist								
						Cryohemists		
						Typic		
		MOLLISOLS						
		Ustolls						
		Argiustolls		Argiborolls		Cryoborolls		
		Lithic	Lithic	Lithic	Lithic	Lithic		
		Typic	Typic	Typic	Udic	Argic		
		Pachic	Pachic		Pachic Udic	Argic Pachic		
				Argiustolls				
				Udic				
		Haplustolls		Haploborolls		Cryoborolls		

		Lithic Typic Pachic Cumulic Aquic Fluventic	Lithic Typic Pachic Cumulic Aquic Fluventic	Lithic Typic Pachic Cumulic Aquic Fluventic Haplustolls Udic	Lithic Udic Pachic Udic Cumulic Aquic Fluventic Hapludolls Typic	Lithic Typic Pachic Cumulic Aquic Fluventic	Lithic Pergelic		
		Aquolls Haploaquolls Typic Cumulic	Typic Cumulic	Typic Cumulic	Typic Cumulic	Cryaquolls Typic Cumulic	Pergelic		
VERTISOLS Torrerts Torrerts Typic Mollic 1	Typic Mollic 2	Usterts Chromusterts Typic Entic 3	Typic Entic 4	5	6	7	8	Column number	VEGETATION
	SHRUBS		WOODS	FORESTS					
	LSC	LSC	LSC	LSC	LSC	LSC		Climatic class	
	Microphyll Shrub(cold)	Microphyll Shrub(cold) Perennial Grassland	Coniferous Woodland Microphyll Shrub(cold)	Coniferous Forest Deciduous Shrub	Coniferous Forest Deciduous Shrub	Coniferous Forest Deciduous Shrub		Life form @ primary climax	
	Cora	Artr2 Save	Juos	Pipos	Psmeg Pifl2 Pipu	Pien Piar		Primary	
		Hija	Bogr2	Fear2	Bran	Feth		Disclimax	
	Gusa2 Chna2	Gusa2 Chna2	Hyri Chna2	Hyri Popr	Popr	CAREX Pofr4			
	HERBACEOUS								
	Hydromorphic								
	Tyla	Tyla	Tyla	Tyla	Tyla			Primary climax	
						Dece		Disclimax	
	SHRUBS								
	Deciduous								
	Hydromorphic								
		Saex	Sair	Sabe2	Sala5	Samo2		Primary climax Disclimax	
	Xeromorphic								
	Fapa	Fapa						Primary climax Disclimax	
	FORESTS								
	Deciduous								
	Hydromorphic								
		Pofrw	Pofrw	Poan3	Poan3	Alte2		Primary climax Disclimax	
		HERBACEOUS	WOODS	FORESTS			HERBACEOUS		
		HSC	HSC	LSC	LSC	LSC	LSC	Climatic class	
		Perennial Grassland	Coniferous Woodland Deciduous Shrub	Coniferous Forest Deciduous Shrub	Coniferous Forest Deciduous Shrub	Coniferous Forest Deciduous Shrub	Cushion Plant	Life form @ primary climax	
		Hija Stne2 Mupu2	Jumo	Pipos	Psmeg Pifl2 Pipu	Pien Piar	Kobe Gerot	Primary climax	
			Bogr2	Fear2	Bran	Feth		Disclimax	
		Gusa2 Chna2	Hyri Chna2	Hyri Popr	Popr	CAREX Pofr4			
		HERBACEOUS							
		Hydromorphic							
		Tyla	Tyla	Tyla	Tyla	Cale4 Dece		Primary climax	
								Disclimax	
		SHRUBS							
		Deciduous							
		Hydromorphic							
		Saam2	Sair	Sabe2	Sala5	Samo2		Primary climax Disclimax	
		Xeromorphic							
		Fapa	Fapa					Primary climax Disclimax	
		FORESTS							
		Deciduous							
		Pofrw	Pofrw	Poan3	Poan3	Alte2		Primary Disclimax	
	SHRUBS		WOODS	FORESTS					
	HSM	HSM	HSM	HSM	LSC	LSC		Climatic class	
	Microphyll Sclero-phyllous Shrub (small leaved Microphyll Shrub (mild)	Microphyll Shrub (mild) Perennial Grassland	Mixed oak-Conifer Woodland Sclero-phyllous Shrub (large leaved)	Coniferous Forest Schero-phyllous Shrub (large leaved)	Coniferous Forest Deciduous Shrub	Coniferous Forest Deciduous Shrub		Life form @ primary climax	
	Flce Ladi2 Fosp2	Prve Prgl2	Quem Qugr3	Pipoa Pipos	Psmeg	Pien		Primary climax	
			Bocu					Disclimax	
	HERBACEOUS								
	Hydromorphic								
	Tyla	Tyla	Tyla	Tyla				Primary climax Disclimax	
	SHRUBS								
	Deciduous								
	Hydromorphic								
	Sata	Sago	Sala6	Sabe2				Primary climax Disclimax	
	Xeromorphic								
	Cepa8	Chli2						Primary climax Disclimax	
	FORESTS								
	Deciduous								
	Hydromorphic								
	Prgl2	Pofr2	Pofr2	Poan3	Poan3	Alte2		Primary climax Disclimax	
	Prve	Plwr2	Plwr2	Poan3	Poan3	Alte2		Primary climax Disclimax	
SHRUBS			WOODS	FORESTS					
LSM	LSM	LSM	LSM	LSM	LSC			Climatic class	
Stem Succulent	Stem Succulent	Microphyll Shrub(mild)	Coniferous Woodland	Coniferous Forest	Coniferous Forest			Life form @ primary climax	

(large) Microphyll Sclero-phyllous Shrub (small) leaved) Microphyll Shrub	(large) Microphyll Sclero-phyllous Shrub (small leaved) Microphyll Shrub	Perennial Grassland	Sclero-phyllous Shrub (large leaved)	Sclero-phyllous Shrub (large leaved)	Decidious Shrub	
Frde Ladi2 Fosp2	Cemi2 Ladi2 Fosp2 Dovi	Prve Caho3	Quar	Pipos Cuarg	Psmeg	Primary climax
			Qutu2			Disclimax
HERBACEOUS						
Hydromorphic Tyla	Tyla	Tyla	Tyla			Primary climax Disclimax
SHRUBS						
Deciduous Hydromorphic Sata	Sago	Sala6	Sabe2			Primary climax Disclimax
Xeromorphic Olte	Cefl2	Chli2				Primary climax Disclimax
FORESTS						
Deciduous Prve	Plwr2	Plwr2	Poan3	Poan3	Alte2	Primary Disclimax

Column number	Columns along gradient numbered one to eight.
Climatic class	Classification by seasonal distribution of winter precipitation
NOAA ( )	National Oceanic and Atmospheric Adminstration-climatological data
Soil temp./moist. study [ ]	Long term soil temperature/moisture study (Forest I D number and location)
Data for modal site	Data not enclosed in ( ) or [ ] is prediced from graphs etc. for modal site.
Climatic Type(Trewartha)	Classification according to Trewartha
MAAT deg. C	Mean annual air temperature
AT deg. C by 4 seasons	Air temp. by (Jan. Feb. Mar.)-(Apr. May June)-(July Aug. Sept.)-(Oct. Nov. Dec)
AT deg. C by 2 seasons	Air temp. by (April-Sept.)-(Oct.-Mar.)
AT deg. C by soil seasons	Air temp. by soil seasons (June-Aug.)-(Dec.-Feb.)
MAST deg. C @ 50 cm	Mean annual soil temperature
MSST deg. C @ 50 cm	Mean summer soil temperature (June-August)
MWST deg. C @ 50 cm	Mean winter soil temperature (Dec.-Feb.)
MAST deg. C @ 50 cm Disc	Mean annual soil temperature @ disclimax (Removal of overstory)
MSST deg. C @ 50 cm Disc	Mean summer soil temperature @ disclimax (Removal of overstory)
MWST deg. C @ 50 cm Disc.	Mean winter soil temperature @ disclimax (Removal of overstory)
FFP no. days	Freeze free period
MAP cm	Mean annual precipitation
AP % of ann. by 4 seasons	Annual ppt. by (Jan. Feb. Mar.)-(Apr. May June)-(July Aug. Sept.)-(Oct. Nov. Dec.)
AP % of ann. by 2 seasons	Annual ppt. by (April-Sept.)-(Oct.-Mar.)
AP % of ann. by soil seasons	Annual ppt. by soil seasons (June-Aug.)-(Dec.-Feb.)
MAS cm	Mean annual snow
MASA cm	Mean annual snow accumulation
SP mo.(s)	Snow period
aPET cm	Adjusted potential evapo-transpiration
Water balance cm	Water balance
MLSP % of An.	Mean low sun precipitation as percent of annual
2 yr 6hr st. cm	Storm probability for USLE
ME m	Mean elevation
STR	Soil temperature regime
SMR	Soil moisture regime

B Dry climates

- BShs Hot steppe with summer drought
- BShw Hot steppe with winter drought
- BShf Hot steppe with no seasonal distinction of drought
- BSks Cold steppe with summer drought
- BSkw Cold steppe with winter drought
- BSkf Cold steppe with no seasonal distinction of drought

- BWhs Hot desert with summer drought
- BWhw Hot desert with winter drought
- BWhf Hot desert with no seasonal distinction of drought
- BWks Cold desert with summer drought
- BWks Cold desert with winter drought
- BWkf Cold desert with no seasonal distinction of drought

C Subtropical climates

- Csa Subtropical with dry hot summer
- Csb Subtropical with dry cool summer
- Cfa Subtropical humid with hot summer
- Cfb Subtropical humid with cool summer
- Cwa Subtropical with dry winter and hot summer
- Cwb Subtropical with dry winter and cool summer

D Temporate climates

- Dsca Temperate continental with dry hot summer
- Dcsb Temporate continental with dry cool summer
- Dcfa Temporate continental with no dry season and hot summer
- Dcfb Temporate continental with no dry season and cool summer
- Dcwa Temperate continental with dry winter and hot summer
- Dcwb Temperate continental with dry winter and cool summer

E Boreal climates

November 1988

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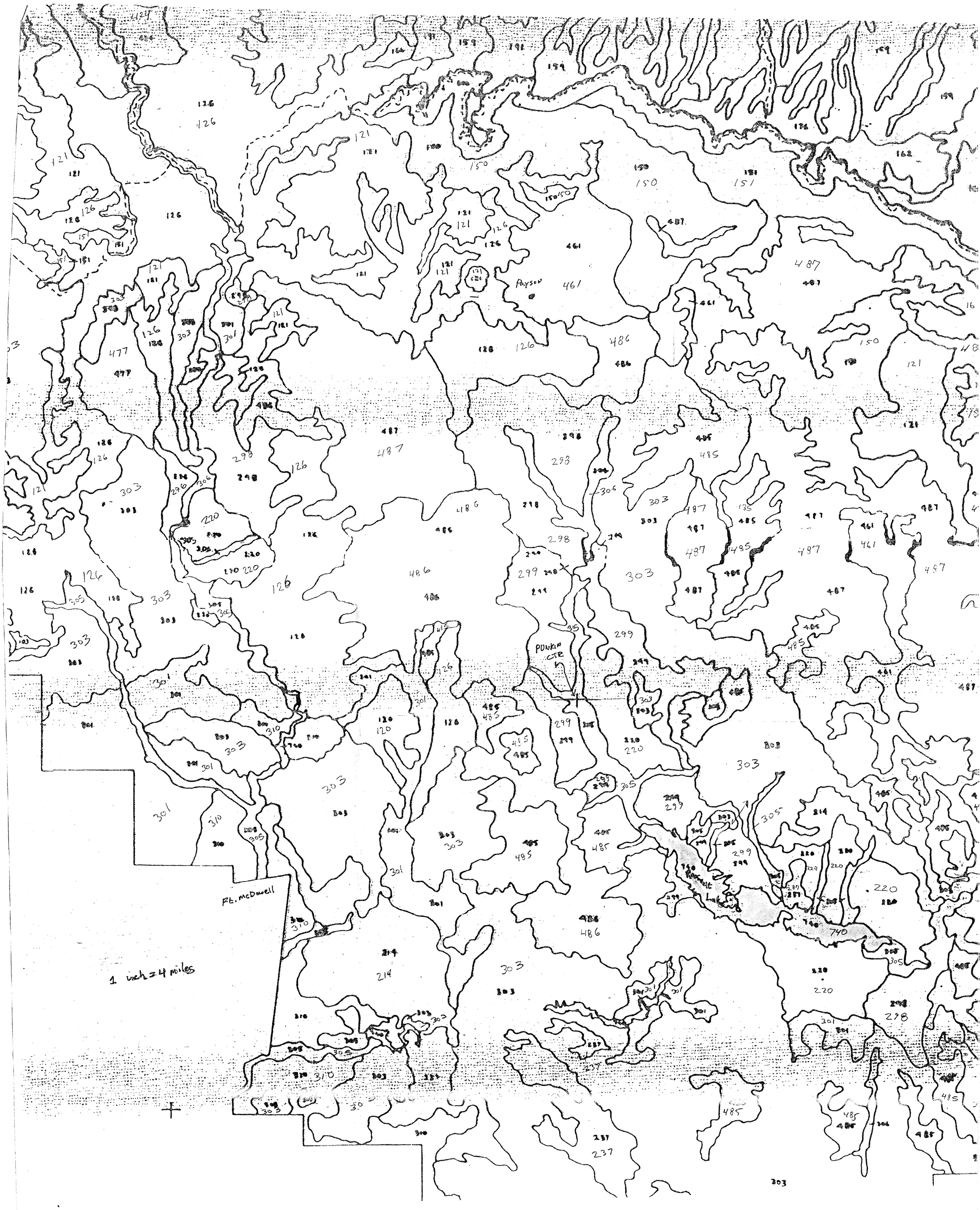
Payson
PUNKIN CTR
Roosevelt Lake
Ft. McDowell
1 inch = 4 miles