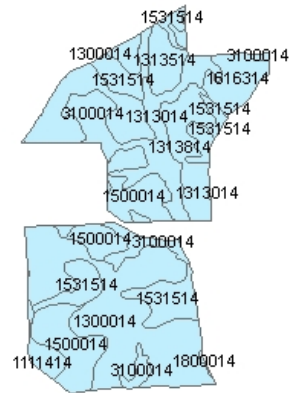


Appendix F
Soils Analysis
Supporting Documentation

BROCK SRI UNITS



Map Unit Description (OR)

Blue Mountain National Forests, Oregon And Washington

0031AO - Moist meadow

Mean annual precipitation: 21 to 26 inches

Frost-free period: 40 to 75 days

Mean annual temperature: 41 to 44 degrees F

Farmland class:

Bandarrow and similar soils

Extent: 30 to 60 percent of the unit

Landform(s): broad floodplains of mountain valleys
broad meadows of mountain slopes

Slope gradient: 0 to 5 percent

Parent material: alluvium derived from mixed

Restrictive feature(s): none

Seasonal high water table: approximately 9 inches

Flooding frequency: occasional

Ponding frequency: none

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Land capability subclass, non-irrigated:

Land capability subclass, irrigated:

Drainage class: poorly drained

Hydric soil class: no

Hydrologic group: D

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available Water Capacity</i>	<i>pH</i>	<i>Kw</i>	<i>Kf</i>
A -- 0 to 9 in	silt loam	moderate	1.7 to 1.9 in	5.1 to 6.0	.24	.24
AC -- 9 to 19 in	silt loam	moderate	1.9 to 2.1 in	5.6 to 6.5	.24	.24
C1 -- 19 to 30 in	loam	moderate	1.8 to 2.0 in	6.1 to 7.3	.24	.24
C2 -- 30 to 72 in	very gravelly loamy sand	moderately rapid	1.3 to 2.5 in	6.1 to 7.3	.05	.24

Ecological Site / Plant Association: Cusick's sedge (MM2918)

Melloe and similar soils

Extent: 30 to 60 percent of the unit

Landform(s): broad floodplains of mountain valleys
broad meadows of mountain slopes

Slope gradient: 0 to 5 percent

Parent material: alluvium derived from mixed

Restrictive feature(s): none

Seasonal high water table: approximately 13 inches

Flooding frequency: occasional

Ponding frequency: none

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Land capability subclass, non-irrigated:

Land capability subclass, irrigated:

Drainage class: poorly drained

Hydric soil class: no

Hydrologic group: D

Map Unit Description (OR)

Blue Mountain National Forests, Oregon And Washington

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available Water Capacity</i>	<i>pH</i>	<i>Kw</i>	<i>Kf</i>
Oi -- 0 to 1 in	slightly decomposed plant material	very rapid	0.4 to 0.7 in	4.5 to 5.5		
A -- 1 to 13 in	loam	moderate	1.5 to 2.1 in	6.1 to 7.3	.24	.24
Cg -- 13 to 19 in	clay loam	moderately slow	0.8 to 1.2 in	6.1 to 7.3	.20	.24
C -- 19 to 72 in	very cobbly sandy clay loam	moderately slow	1.6 to 3.7 in	5.6 to 7.3	.05	.24

Ecological Site / Plant Association: Cusick's sedge (MM2918)

Map Unit Description (OR)

Blue Mountain National Forests, Oregon And Washington

5776BN - Limberjim-Syrupcreek complex, 15 to 30 percent north slopes

Mean annual precipitation: 15 to 35 inches

Frost-free period: 70 to 100 days

Mean annual temperature: 41 to 44 degrees F

Farmland class:

Limberjim and similar soils

Extent: about 60 percent of the unit

Landform(s): mountain slopes

plateaus

Slope gradient: 15 to 30 percent

Parent material: volcanic ash over colluvium and residuum derived from basalt or andesitic tuff breccia

Restrictive feature(s): lithic bedrock at 40 to 60 inches

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Land capability subclass, non-irrigated:

Land capability subclass, irrigated:

Drainage class: well drained

Hydric soil class: no

Hydrologic group: B

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available Water Capacity</i>	<i>pH</i>	<i>Kw</i>	<i>Kf</i>
Oi --	0 to 1 in	slightly decomposed plant material	very rapid	0.4 to 0.7 in	4.5 to 5.5		
A --	1 to 6 in	ashy silt loam	moderately rapid	1.2 to 1.7 in	5.6 to 7.3	.32	.32
Bw --	6 to 16 in	ashy silt loam	moderately rapid	2.3 to 3.3 in	5.6 to 7.3	.32	.32
2Eb --	16 to 21 in	gravelly silt loam	moderate	0.5 to 1.0 in	5.6 to 7.3	.32	.37
2Btb --	21 to 42 in	very cobbly clay loam	moderate	0.8 to 2.9 in	5.6 to 7.3	.24	.37
2R --	42 to 52 in	unweathered bedrock	---				

Ecological Site / Plant Association: grand fir/twinflower (CWF311)

Syrupcreek and similar soils

Extent: about 25 percent of the unit

Landform(s): mountain slopes

plateaus

Slope gradient: 15 to 30 percent

Parent material: volcanic ash and loess over colluvium and residuum derived from basalt and andesitic tuff breccia

Restrictive feature(s): lithic bedrock at 20 to 40 inches
strongly contrasting textural stratification

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Land capability subclass, non-irrigated:

Land capability subclass, irrigated:

Drainage class: well drained

Hydric soil class: no

Hydrologic group: C

Map Unit Description (OR)

Blue Mountain National Forests, Oregon And Washington

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available Water Capacity</i>	<i>pH</i>	<i>Kw</i>	<i>Kf</i>
Oi -- 0 to 1 in	slightly decomposed plant material	very rapid	0.4 to 0.7 in	4.5 to 5.5		
A -- 1 to 4 in	silt loam	moderately rapid	0.7 to 1.1 in	5.6 to 7.3	.32	.32
Bw -- 4 to 15 in	silt loam	moderately rapid	2.5 to 3.7 in	5.6 to 7.3	.32	.32
2Btb1 -- 15 to 23 in	very cobbly loam	moderate	0.3 to 1.2 in	5.6 to 7.3	.17	.37
2Btb2 -- 23 to 29 in	very stony clay loam	moderate	0.2 to 0.9 in	5.6 to 7.3	.17	.37
3R -- 29 to 39 in	unweathered bedrock	----				

Ecological Site / Plant Association: grand fir/twinflower (CWF311)

Map Unit Description (OR)

Blue Mountain National Forests, Oregon And Washington

5776AO - Limberjim-Syrupcreek silt loam complex, 0 to 15 percent slopes

Mean annual precipitation: 25 to 32 inches

Frost-free period: 70 to 100 days

Mean annual temperature: 41 to 44 degrees F

Farmland class:

Limberjim and similar soils

Extent: about 60 percent of the unit

Landform(s): mountain slopes
plateaus

Slope gradient: 0 to 15 percent

Parent material: volcanic ash over colluvium and residuum derived from basalt or andesitic tuff breccia

Restrictive feature(s): lithic bedrock at 40 to 60 inches

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Land capability subclass, non-irrigated:

Land capability subclass, irrigated:

Drainage class: well drained

Hydric soil class: no

Hydrologic group: B

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available Water Capacity</i>	<i>pH</i>	<i>Kw</i>	<i>Kf</i>
Oi --	0 to 1 in	slightly decomposed plant material	very rapid	0.4 to 0.7 in	4.5 to 5.5		
A --	1 to 6 in	ashy silt loam	moderately rapid	1.2 to 1.7 in	5.6 to 7.3	.32	.32
Bw --	6 to 16 in	ashy silt loam	moderately rapid	2.3 to 3.3 in	5.6 to 7.3	.32	.32
2Eb --	16 to 21 in	gravelly silt loam	moderate	0.5 to 1.0 in	5.6 to 7.3	.32	.37
2Btb --	21 to 42 in	very cobbly clay loam	moderate	0.8 to 2.9 in	5.6 to 7.3	.24	.37
2R --	42 to 52 in	unweathered bedrock	---				

Ecological Site / Plant Association: grand fir/blue(big) huckleberry (CWS211)

grand fir/queencup beadlily (CWF421)

grand fir/twinflower (CWF311)

Syrupcreek and similar soils

Extent: about 25 percent of the unit

Landform(s): mountain slopes
plateaus

Slope gradient: 0 to 15 percent

Parent material: volcanic ash and loess over colluvium and residuum derived from basalt and andesitic tuff breccia

Restrictive feature(s): lithic bedrock at 20 to 40 inches
strongly contrasting textural stratification

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Land capability subclass, non-irrigated:

Land capability subclass, irrigated:

Drainage class: well drained

Hydric soil class: no

Hydrologic group: C

Map Unit Description (OR)

Blue Mountain National Forests, Oregon And Washington

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available Water Capacity</i>	<i>pH</i>	<i>Kw</i>	<i>Kf</i>
Oi -- 0 to 1 in	slightly decomposed plant material	very rapid	0.4 to 0.7 in	4.5 to 5.5		
A -- 1 to 4 in	silt loam	moderately rapid	0.7 to 1.1 in	5.6 to 7.3	.32	.32
Bw -- 4 to 15 in	silt loam	moderately rapid	2.5 to 3.7 in	5.6 to 7.3	.32	.32
2Btb1 -- 15 to 23 in	very cobbly loam	moderate	0.3 to 1.2 in	5.6 to 7.3	.17	.37
2Btb2 -- 23 to 29 in	very stony clay loam	moderate	0.2 to 0.9 in	5.6 to 7.3	.17	.37
3R -- 29 to 39 in	unweathered bedrock	----				

Ecological Site / Plant Association: grand fir/blue(big) huckleberry (CWS211)
 grand fir/twinflower (CWF311)

Ecological Site / Plant Association and Vegetation (OR)

Blue Mountain National Forests, Oregon And Washington

[Composition of forest understory vegetation is based on canopy cover. Composition of rangeland vegetation is based on dry weight]

Map Symbol and Soil Name	Ecological Site or Plant Association	Common Trees	Forest Understory or Rangeland Characteristic Vegetation	Composition	
				Forest	Range
Pct					
5776BN:					
Limberjim	grand fir/twinflower (CWF311)	Douglas-fir Engelmann spruce grand fir ponderosa pine western larch	---	---	---
Syrupcreek	grand fir/twinflower (CWF311)	Douglas-fir Engelmann spruce grand fir ponderosa pine western larch	---	---	---