Map Unit Description (OR)

Redmond Area Initial Legend, Oregon

DRAFT - SUBJECT TO CHANGE

107E - Gooserock-Lickskillet-Rock outcrop complex, 30 to 60 percent north slopes

Mean annual precipitation: 9 to 12 inches
Mean annual temperature: 48 to 52 degrees F
Frost-free period: 100 to 120 days
Farmland class: Not prime farmland

Gooserock, north and similar soils

Extent: about 60 percent of the unit
Landform(s): north-facing hillslopes
Slope gradient: 30 to 60 percent
Parent material: Surface Mazama volcanic ash mixed with cobbly or gravelly, loamy colluvium derived from basalt over very cobbly or very gravelly, calcareous, fine-loamy colluvium derived from acidic tuff
Restrictive feature(s): none
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 5
Wind erodibility index (WEI): 56
Land capability subclass, nonirrigated: 6e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: B

Representative soil profile:

		Texture	Permeability	Available water capacity	pH	Kw	Kf
A1 --	0 to 6 in	gravelly ashy loam	moderately rapid	0.8 to 1.2 in	7.4 to 8.4	.15	.24
A2 --	6 to 18 in	very cobbly ashy loam	moderate	1.3 to 2.8 in	7.4 to 8.4	.10	.28
Bw --	18 to 34 in	very cobbly ashy loam	moderate	1.3 to 3.3 in	7.9 to 8.4	.10	.37
2Bk1 --	34 to 45 in	very stony clay loam	moderately slow	0.6 to 1.4 in	7.9 to 8.4	.10	.37
2Bk2 --	45 to 62 in	very cobbly clay loam	moderately slow	0.8 to 2.2 in	7.9 to 8.4	.10	.37

Ecological site / plant association: JD NORTH 9-12 PZ (R010XB064OR)

Lickskillet, north and similar soils

Extent: about 30 percent of the unit
Landform(s): north-facing canyons
north-facing hillslopes
Slope gradient: 30 to 60 percent
Parent material: colluvium and residuum from volcanic rock.
Restrictive feature(s): lithic bedrock at 10 to 20 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 1
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Land capability subclass, nonirrigated: 7e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: D

Representative soil profile:			Texture	Permeability	Available water capacity	pH	Kw	Kf
A1 --	0 to 4 in		very gravelly loam	moderately rapid	0.2 to 0.5 in	6.6 to 7.8	.05	.24
A2 --	4 to 9 in		very gravelly loam	moderately rapid	0.2 to 0.6 in	6.6 to 7.8	.10	.32
Bw --	9 to 13 in		extremely gravelly loam	moderate	0.2 to 0.3 in	6.6 to 7.8	.05	.32
R --	13 to 17 in		unweathered bedrock	----				

Ecological site / plant association: JD SHALLOW NORTH 9-12 PZ (R010XB035OR)

Rock outcrop, north

Extent: about 10 percent of the unit
Landform(s): hillsides
Slope gradient: 30 to 60 percent
Parent material: basalt
Restrictive feature(s): lithic bedrock at 0 to 0 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor):
Wind erodibility group (WEG):
Wind erodibility index (WEI):
Land capability subclass, nonirrigated: 8
Land capability subclass, irrigated:
Drainage class:
Hydric soil class: no
Hydrologic group: D

Representative soil profile:			Texture	Permeability	Available water capacity	pH	Kw	Kf
R --	0 to 60 in		unweathered bedrock	----				

Ecological site / plant association:

141D - Ruckles-Lickskillet-Redcliff complex, 15 to 30 percent south slopes

Mean annual precipitation: 9 to 12 inches
Mean annual temperature: 48 to 52 degrees F
Frost-free period: 120 to 140 days
Farmland class: Farmland of statewide importance

Ruckles, south and similar soils

Extent: about 55 percent of the unit
Landform(s): ridges
shoulders adjacent to free faces
south-facing hillslopes
Slope gradient: 15 to 30 percent
Parent material: very stony or very cobbly, loamy colluvium over very stony or very cobbly, clayey colluvium derived from basalt and/or acidic tuff over basalt or acidic tuff
Restrictive feature(s): lithic bedrock at 9 to 20 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 1
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Land capability subclass, nonirrigated: 6s
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: D

Representative soil profile:

		Texture	Permeability	Available water capacity	pH	Kw	Kf
A --	0 to 4 in	gravelly sandy clay loam	moderate	0.1 to 0.6 in	6.6 to 7.3	.10	.15
Bt1 --	4 to 8 in	very cobbly sandy clay	slow	0.1 to 0.6 in	6.6 to 7.8	.05	.20
Bt2 --	8 to 12 in	extremely cobbly clay	slow	0.1 to 0.4 in	6.6 to 7.8	.02	.20
R --	12 to 16 in	unweathered bedrock	----				

Ecological site / plant association: JD DROUGHTY SHALLOW SOUTH 9-12 PZ (R010XB052OR)

Lickskillet, south and similar soils

Extent: about 30 percent of the unit
Landform(s): south-facing canyons
south-facing hillslopes
Slope gradient: 15 to 30 percent
Parent material: colluvium and residuum from volcanic rock.
Restrictive feature(s): lithic bedrock at 10 to 20 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 1
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Land capability subclass, nonirrigated: 7e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: D

Representative soil profile:			Texture	Permeability	Available water capacity	pH	Kw	Kf
A1	--	0 to 4 in	very gravelly loam	moderately rapid	0.2 to 0.5 in	6.6 to 7.8	.05	.24
A2	--	4 to 9 in	very gravelly loam	moderately rapid	0.2 to 0.6 in	6.6 to 7.8	.10	.32
Bw	--	9 to 13 in	extremely gravelly loam	moderate	0.2 to 0.3 in	6.6 to 7.8	.05	.32
R	--	13 to 17 in	unweathered bedrock	----				

Ecological site / plant association: JD DROUGHTY SHALLOW SOUTH 9-12 PZ (R010XB052OR)

Redcliff, south and similar soils

Extent: about 15 percent of the unit

Landform(s): south-facing hillslopes

Slope gradient: 15 to 30 percent

Parent material: Some surface influence of Mazama volcanic ash mixed with very gravelly or very cobbly, loamy colluvium derived from basalt over weathered basalt over hard basalt

Restrictive feature(s): lithic bedrock at 20 to 40 inches
paralithic bedrock at 20 to 40 inches

Seasonal high water table: greater than 60 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Land capability subclass, nonirrigated:

Land capability subclass, irrigated:

Drainage class: well drained

Hydric soil class: no

Hydrologic group: C

Representative soil profile:			Texture	Permeability	Available water capacity	pH	Kw	Kf
A	--	0 to 10 in	very gravelly loam	moderate	0.8 to 1.1 in	6.6 to 7.8	.15	.17
Bw1	--	10 to 20 in	very gravelly loam	moderate	0.4 to 1.1 in	7.4 to 8.4	.17	.24
Bw2	--	20 to 31 in	extremely cobbly loam	moderate	0.4 to 1.2 in	7.4 to 8.4	.17	.24
Cr	--	31 to 34 in	weathered bedrock	----				
R	--	34 to 44 in	unweathered bedrock	----				

Ecological site / plant association: JD DROUGHTY SHALLOW SOUTH 9-12 PZ (R010XB052OR)

144D - Sorf-Ruckles complex, 15 to 30 percent south slopes

Mean annual precipitation: 9 to 12 inches
Mean annual temperature: 48 to 52 degrees F
Frost-free period: 120 to 140 days
Farmland class: Not prime farmland

Sorf, south and similar soils

Extent: about 55 percent of the unit
Landform(s): south-facing hillslopes
Slope gradient: 15 to 30 percent
Parent material: loamy colluvium over calcareous, gravelly or cobbly, clayey colluvium or residuum over highly weathered, acidic tuff generally the John Day or Mascall Formations
Restrictive feature(s): paralithic bedrock at 20 to 40 inches
abrupt textural change at 3 to 6 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): 8
Wind erodibility index (WEI): 0
Land capability subclass, nonirrigated: 6e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: C

Representative soil profile:

Texture	Permeability	Available water capacity	pH	Kw	Kf
A -- 0 to 3 in	very gravelly loam	moderate	0.3 to 0.3 in	6.6 to 8.4	.20	.32
2Bt -- 3 to 11 in	gravelly clay	very slow	1.0 to 1.4 in	6.6 to 8.4	.24	.28
2Bt -- 3 to 11 in	gravelly clay	very slow	1.0 to 1.4 in	6.6 to 8.4	.24	.28
2Btk -- 11 to 19 in	gravelly clay	very slow	1.0 to 1.4 in	6.6 to 8.4	.24	.28
2Btk -- 11 to 19 in	gravelly clay	very slow	1.0 to 1.4 in	6.6 to 8.4	.24	.28
2Bk -- 19 to 35 in	very cobbly clay loam	moderately slow	1.6 to 2.9 in	7.9 to 8.4	.28	.32
2Bk -- 19 to 35 in	very cobbly clay loam	moderately slow	1.6 to 2.9 in	7.9 to 8.4	.28	.32
2Crk -- 35 to 45 in	weathered bedrock	----				

Ecological site / plant association: JD DROUGHTY CLAYEY SOUTH 9-12 PZ (R010XB043OR)

Ruckles, south and similar soils

Extent: about 30 percent of the unit
Landform(s): south-facing hillslopes
Slope gradient: 15 to 30 percent
Parent material: very stony or very cobbly, loamy colluvium over very stony or very cobbly, clayey colluvium derived from basalt and acidic tuff over basalt or acidic tuff
Restrictive feature(s): lithic bedrock at 10 to 20 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 1
Wind erodibility group (WEG): 8
Wind erodibility index (WEI): 0
Land capability subclass, nonirrigated: 6s
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: D

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Representative soil profile:	*Texture*	*Permeability*	*Available water capacity*	*pH*	*Kw*	*Kf*
A -- 0 to 1 in	very cobbly loam	moderately slow	0.1 to 0.2 in	6.6 to 7.8	.17	.28
Bt -- 1 to 11 in	very stony clay	slow	0.7 to 1.1 in	6.6 to 7.8	.20	.32
2R -- 11 to 15 in	unweathered bedrock	----				

Ecological site / plant association: JD DROUGHTY SHALLOW SOUTH 9-12 PZ (R010XB052OR)

162F - Lickskillet-Rock outcrop complex, 30 to 70 percent south slopes

Mean annual precipitation: 9 to 14 inches
Mean annual temperature: 45 to 52 degrees F
Frost-free period: 100 to 180 days
Farmland class: Not prime farmland

Lickskillet, south and similar soils

Extent: about 60 percent of the unit
Landform(s): south-facing hillslopes
Slope gradient: 30 to 70 percent
Parent material: colluvium and residuum from volcanic rock.
Restrictive feature(s): lithic bedrock at 10 to 20 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 1
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Land capability subclass, nonirrigated: 7s
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: D

Representative soil profile:	*Texture*	*Permeability*	*Available water capacity*	*pH*	*Kw*	*Kf*
A1 -- 0 to 4 in	very gravelly loam	moderately rapid	0.2 to 0.5 in	6.6 to 7.8	.05	.24
A2 -- 4 to 9 in	very gravelly loam	moderately rapid	0.2 to 0.6 in	6.6 to 7.8	.10	.32
Bw -- 9 to 13 in	extremely gravelly loam	moderate	0.2 to 0.3 in	6.6 to 7.8	.05	.32
R -- 13 to 17 in	unweathered bedrock	----				

Ecological site / plant association: JD SHALLOW SOUTH 9-12 PZ (R010XB051OR)

Rock outcrop, south

Extent: about 30 percent of the unit
Landform(s):
Slope gradient: 30 to 70 percent
Parent material:
Restrictive feature(s): lithic bedrock at 0 to 0 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor):
Wind erodibility group (WEG):
Wind erodibility index (WEI):
Land capability subclass, nonirrigated: 8
Land capability subclass, irrigated:
Drainage class:
Hydric soil class: no
Hydrologic group: D

Representative soil profile:	*Texture*	*Permeability*	*Available water capacity*	*pH*	*Kw*	*Kf*
R -- 0 to 60 in	unweathered bedrock	----				

Ecological site / plant association:

163E - Gwinly-Kishwalk-Rock outcrop complex, 20 to 50 percent south slopes

Mean annual precipitation: 12 to 16 inches
Mean annual temperature: 45 to 50 degrees F
Frost-free period: 80 to 120 days
Farmland class: Not prime farmland

Gwinly, south and similar soils

Extent: about 40 percent of the unit
Landform(s): mountain slopes
Slope gradient: 20 to 50 percent
Parent material: colluvium derived from tuff or basalt over residuum weathered from tuff or basalt
Restrictive feature(s): lithic bedrock at 10 to 20 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 1
Wind erodibility group (WEG): 8
Wind erodibility index (WEI): 0
Land capability subclass, nonirrigated:
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: D

Representative soil profile:

	Texture	Permeability	Available water capacity	pH	Kw	Kf
H1 -- 0 to 6 in	very cobbly silt loam	moderate	0.4 to 0.6 in	6.6 to 7.8	.17	.37
H2 -- 6 to 10 in	very cobbly silty clay loam	moderately slow	0.2 to 0.4 in	6.6 to 7.3	.17	.37
H3 -- 10 to 14 in	extremely cobbly clay	slow	0.2 to 0.4 in	6.6 to 7.3	.15	.32
H4 -- 14 to 24 in	unweathered bedrock	----				

Ecological site / plant association: JD SHALLOW SOUTH 12-16 PZ (R010XB047OR)

Kishwalk, south and similar soils

Extent: about 35 percent of the unit
Landform(s): mountain slopes
Slope gradient: 20 to 50 percent
Parent material: colluvium derived from basalt
Restrictive feature(s): lithic bedrock at 20 to 40 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 8
Wind erodibility index (WEI): 0
Land capability subclass, nonirrigated: 6e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: C

Representative soil profile:

	Texture	Permeability	Available water capacity	pH	Kw	Kf
A -- 0 to 4 in	very cobbly loam	moderate	0.2 to 0.6 in	6.6 to 7.3	.05	.17
Bt1 -- 4 to 21 in	very cobbly clay loam	moderately slow	0.7 to 2.5 in	6.6 to 7.3	.05	.24
Bt2 -- 21 to 28 in	very stony clay	slow	0.2 to 0.8 in	6.6 to 7.3	.05	.20
2R -- 28 to 32 in	unweathered bedrock	----				

Ecological site / plant association: JD CLAYEY SOUTH 12-16 PZ (R010XB045OR)

Rock outcrop, south

Extent: about 20 percent of the unit
Landform(s):
Slope gradient: 20 to 50 percent
Parent material:
Restrictive feature(s): lithic bedrock at 0 to 0 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor):
Wind erodibility group (WEG):
Wind erodibility index (WEI):
Land capability subclass, nonirrigated: 8
Land capability subclass, irrigated:
Drainage class:
Hydric soil class: no
Hydrologic group: D

Representative soil profile:

		Texture	Permeability	Available water capacity	pH	Kw	Kf
R --	0 to 60 in	unweathered bedrock	----				

Ecological site / plant association:

196E - Belshaw-Tanksel complex, 20 to 50 percent north slopes

Mean annual precipitation: 12 to 16 inches
Mean annual temperature: 45 to 50 degrees F
Frost-free period: 80 to 120 days
Farmland class: Not prime farmland

Belshaw, north and similar soils

Extent: about 60 percent of the unit
Landform(s): north-facing hillslopes
Slope gradient: 20 to 50 percent
Parent material: surface Mazama ash mixed with cobbly and gravelly, fine-loamy colluvium over cobbly and gravelly, clayey colluvium over calcareous, cobbly and gravelly, fine-loamy residuum and colluvium generally derived from the Mascall or John Day Formations
Restrictive feature(s): abrupt textural change at 2 to 10 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): 6
Wind erodibility index (WEI): 48
Land capability subclass, nonirrigated:
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: D

Representative soil profile:

		Texture	Permeability	Available water capacity	pH	Kw	Kf
A --	0 to 2 in	cobbly silt loam	moderate	0.2 to 0.4 in	6.6 to 7.8	.28	.32
2Bt --	2 to 11 in	cobbly clay	very slow	1.3 to 1.6 in	7.9 to 8.4	.28	.28
2Btk --	11 to 23 in	cobbly clay loam	moderately slow	1.5 to 2.1 in	7.9 to 8.4	.28	.28
2Bk1 --	23 to 34 in	very cobbly sandy loam	moderately rapid	0.7 to 1.1 in	7.9 to 9.0	.15	.17
2Bk2 --	34 to 60 in	very cobbly loamy coarse sand	rapid	1.0 to 1.8 in	7.9 to 9.0	.10	.10

Ecological site / plant association: JD NORTH 12-16 PZ (R010XB070OR)

Tanksel, north and similar soils

Extent: about 25 percent of the unit
Landform(s): north-facing hillslopes
Slope gradient: 20 to 50 percent
Parent material: surface Mazama volcanic ash mixed with fine-loamy colluvium derived from basalt over very gravelly or very cobbly, clayey colluvium and residuum weathered from basalt over basalt
Restrictive feature(s): lithic bedrock at 20 to 40 inches
abrupt textural change at 7 to 14 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 5
Wind erodibility index (WEI): 56
Land capability subclass, nonirrigated: 4e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: C

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Representative soil profile:	*Texture*	*Permeability*	*Available water capacity*	*pH*	*Kw*	*Kf*
A -- 0 to 3 in	ashy loam	moderate	0.4 to 0.5 in	6.6 to 7.3	.15	.17
AB -- 3 to 8 in	ashy loam	moderate	0.6 to 0.9 in	6.6 to 7.3	.28	.28
2Bt1 -- 8 to 17 in	very gravelly clay loam	moderately slow	0.8 to 1.1 in	6.6 to 7.3	.17	.24
2Bt2 -- 17 to 28 in	extremely gravelly clay	very slow	0.8 to 2.0 in	6.6 to 7.3	.15	.24
3R -- 28 to 32 in	unweathered bedrock	----				

Ecological site / plant association: JD NORTH 12-16 PZ (R010XB070OR)

263E - Simas-Sorf complex, 5 to 40 percent slopes

Mean annual precipitation: 9 to 12 inches
Mean annual temperature: 45 to 52 degrees F
Frost-free period: 90 to 160 days
Farmland class: Not prime farmland

Simas, south and similar soils

Extent: about 55 percent of the unit
Landform(s):
Slope gradient: 5 to 40 percent
Parent material: gravelly or cobbly fine-loamy colluvium derived from basalt over calcareous gravelly and clayey colluvium over acidic tuff including the John Day or Mascall Formations
Restrictive feature(s): abrupt textural change at 4 to 12 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): 7
Wind erodibility index (WEI): 38
Land capability subclass, nonirrigated: 7s
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: C

Representative soil profile:

		Texture	Permeability	Available water capacity	pH	Kw	Kf
A --	0 to 4 in	cobbly clay loam	moderate	0.3 to 0.7 in	6.6 to 7.8	.24	.28
2Bt --	4 to 12 in	clay	very slow	1.0 to 1.4 in	7.4 to 8.4	.24	.24
2Btk --	12 to 21 in	clay	very slow	1.2 to 1.6 in	7.4 to 8.4	.24	.24
2Bk --	21 to 60 in	very cobbly clay loam	moderately slow	3.9 to 6.2 in	7.9 to 9.0	.20	.28

Ecological site / plant association: JD DROUGHTY SOUTH 9-12 PZ (R010XB044OR)

Sorf, south and similar soils

Extent: about 45 percent of the unit
Landform(s): hillslopes
Slope gradient: 5 to 40 percent
Parent material: colluvium derived from tuff over residuum weathered from tuff
Restrictive feature(s): paralithic bedrock at 20 to 40 inches
abrupt textural change at 3 to 6 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): 8
Wind erodibility index (WEI): 0
Land capability subclass, nonirrigated: 6e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: C

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Representative soil profile:	*Texture*	*Permeability*	*Available water capacity*	*pH*	*Kw*	*Kf*
A -- 0 to 3 in	very gravelly loam	moderate	0.2 to 0.4 in	6.6 to 7.8	.10	.32
2Bt -- 3 to 11 in	gravelly clay	slow	0.7 to 1.3 in	6.6 to 7.8	.10	.17
2Btk -- 11 to 19 in	gravelly clay	slow	0.7 to 1.3 in	7.9 to 8.4	.10	.20
2Bk -- 19 to 35 in	very cobbly clay loam	moderate	1.5 to 3.4 in	7.9 to 8.4	.05	.32
2Crk -- 35 to 45 in	weathered bedrock	----				

Ecological site / plant association: JD CLAYEY 9-12 PZ (R010XB022OR)

322D - Twickenham-Simas-Sorf complex, 15 to 40 percent south slopes

Mean annual precipitation: 9 to 12 inches
Mean annual temperature: 48 to 52 degrees F
Frost-free period: 100 to 150 days
Farmland class: Not prime farmland

Twickenham, south and similar soils

Extent: about 50 percent of the unit
Landform(s): south-facing hillsides
Slope gradient: 15 to 40 percent
Parent material: fine-loamy colluvium derived from basalt over clayey colluvium derived from acidic tuff over calcareous clayey colluvium derived from acidic tuff of the John Day formation
Restrictive feature(s): abrupt textural change at 2 to 8 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): 6
Wind erodibility index (WEI): 48
Land capability subclass, nonirrigated: 6e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: D

Representative soil profile:

		Texture	Permeability	Available water capacity	pH	Kw	Kf
A	0 to 6 in	loam	moderate	0.4 to 1.1 in	6.6 to 8.4	.24	.28
2Bt1	6 to 13 in	clay	very slow	0.6 to 1.3 in	7.4 to 8.4	.20	.28
3Bt2	13 to 19 in	silty clay loam	very slow	0.5 to 1.1 in	7.4 to 8.4	.37	.43
3Bk	19 to 60 in	very gravelly clay	very slow	2.9 to 7.4 in	8.5 to 9.0	.10	.28

Ecological site / plant association: JD DROUGHTY SOUTH 9-12 PZ (R010XB044OR)

Simas, south and similar soils

Extent: about 35 percent of the unit
Landform(s): south-facing hillslopes
Slope gradient: 15 to 40 percent
Parent material: gravelly or cobbly fine-loamy colluvium derived from basalt over calcareous gravelly and clayey colluvium over acidic tuff including the John Day or Mascall Formations
Restrictive feature(s): abrupt textural change at 4 to 12 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): 7
Wind erodibility index (WEI): 38
Land capability subclass, nonirrigated: 6e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: C

DRAFT - SUBJECT TO CHANGE

Representative soil profile:			*Texture*	*Permeability*	*Available water capacity*	*pH*	*Kw*	*Kf*
A	--	0 to 4 in	cobbly clay loam	moderate	0.3 to 0.7 in	6.6 to 7.8	.24	.28
2Bt	--	4 to 12 in	clay	very slow	1.0 to 1.4 in	7.4 to 8.4	.24	.24
2Btk	--	12 to 21 in	clay	very slow	1.2 to 1.6 in	7.4 to 8.4	.24	.24
2Bk	--	21 to 60 in	very cobbly clay loam	moderately slow	3.9 to 6.2 in	7.9 to 9.0	.20	.28

Ecological site / plant association: JD CLAYEY SOUTH 9-12 PZ (R010XB041OR)

Sorf, south and similar soils

Extent: about 10 percent of the unit

Landform(s): hillslopes

Slope gradient: 15 to 40 percent

Parent material: colluvium derived from tuff over residuum weathered from tuff

Restrictive feature(s): paralithic bedrock at 20 to 40 inches
abrupt textural change at 3 to 6 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): 8

Wind erodibility index (WEI): 0

Land capability subclass, nonirrigated: 6e

Land capability subclass, irrigated:

Drainage class: well drained

Hydric soil class: no

Hydrologic group: C

Representative soil profile:			*Texture*	*Permeability*	*Available water capacity*	*pH*	*Kw*	*Kf*
A	--	0 to 3 in	very gravelly loam	moderate	0.2 to 0.4 in	6.6 to 7.8	.10	.32
2Bt	--	3 to 11 in	gravelly clay	slow	0.7 to 1.3 in	6.6 to 7.8	.10	.17
2Btk	--	11 to 19 in	gravelly clay	slow	0.7 to 1.3 in	7.9 to 8.4	.10	.20
2Bk	--	19 to 35 in	very cobbly clay loam	moderate	1.5 to 3.4 in	7.9 to 8.4	.05	.32
2Crk	--	35 to 45 in	weathered bedrock	----				

Ecological site / plant association: JD DROUGHTY SOUTH 9-12 PZ (R010XB044OR)

356D - Simas-Ruckles-Rock outcrop complex, 15 to 40 percent south slopes

Mean annual precipitation: 9 to 12 inches
Mean annual temperature: 47 to 52 degrees F
Frost-free period: 90 to 120 days
Farmland class: Farmland of statewide importance

Simas, south and similar soils

Extent: about 55 percent of the unit
Landform(s): hillsides
Slope gradient: 15 to 40 percent
Parent material: gravelly or cobbly fine-loamy colluvium derived from basalt over calcareous gravelly and clayey colluvium over acidic tuff including the John Day or Mascall Formations
Restrictive feature(s): abrupt textural change at 4 to 12 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): 7
Wind erodibility index (WEI): 38
Land capability subclass, nonirrigated: 6e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: C

Representative soil profile:

		Texture	Permeability	Available water capacity	pH	Kw	Kf
A --	0 to 4 in	cobbly clay loam	moderate	0.3 to 0.7 in	6.6 to 7.8	.24	.28
2Bt --	4 to 12 in	clay	very slow	1.0 to 1.4 in	7.4 to 8.4	.24	.24
2Btk --	12 to 21 in	clay	very slow	1.2 to 1.6 in	7.4 to 8.4	.24	.24
2Bk --	21 to 60 in	very cobbly clay loam	moderately slow	3.9 to 6.2 in	7.9 to 9.0	.20	.28

Ecological site / plant association: JD DROUGHTY SOUTH 9-12 PZ (R010XB044OR)

Ruckles, south and similar soils

Extent: about 20 percent of the unit
Landform(s): south-facing hillslopes
Slope gradient: 15 to 40 percent
Parent material: stony, cobbly, or gravelly clayey colluvium derived from acidic tuff over basalt or acidic tuff
Restrictive feature(s): lithic bedrock at 9 to 20 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor): 1
Wind erodibility group (WEG): 7
Wind erodibility index (WEI): 38
Land capability subclass, nonirrigated: 6e
Land capability subclass, irrigated:
Drainage class: well drained
Hydric soil class: no
Hydrologic group: D

Representative soil profile:			Texture	Permeability	Available water capacity	pH	Kw	Kf
A	--	0 to 4 in	gravelly sandy clay loam	moderate	0.1 to 0.6 in	6.6 to 7.3	.10	.15
Bt1	--	4 to 8 in	very cobbly sandy clay	slow	0.1 to 0.6 in	6.6 to 7.8	.05	.20
Bt2	--	8 to 12 in	extremely cobbly clay	slow	0.1 to 0.4 in	6.6 to 7.8	.02	.20
R	--	12 to 16 in	unweathered bedrock	----				

Ecological site / plant association: JD DROUGHTY SHALLOW SOUTH 9-12 PZ (R010XB052OR)

Rock outcrop, south

Extent: about 15 percent of the unit
Landform(s): hillsides
Slope gradient: 15 to 40 percent
Parent material: basalt
Restrictive feature(s): lithic bedrock at 0 to 0 inches
Seasonal high water table: greater than 60 inches
Flooding frequency: none
Ponding frequency: none

Soil loss tolerance (T factor):
Wind erodibility group (WEG):
Wind erodibility index (WEI):
Land capability subclass, nonirrigated: 8
Land capability subclass, irrigated:
Drainage class:
Hydric soil class: no
Hydrologic group: D

Representative soil profile:			Texture	Permeability	Available water capacity	pH	Kw	Kf
R	--	0 to 60 in	unweathered bedrock	----				

Ecological site / plant association: