

Vegetation Unit Summaries for Munger Property (MUNG)

Report date: 7/29/2009 '*' = non-native invasive species

Visit data as of: 7/29/2009

Unit MUNG*003

Size: 0.51 Acres

NVCS Class: Woodland

NVCS Subclass: Deciduous woodland NVCS Group: Cold-deciduous woodland NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.846 North Pacific Broadleaf Mesic Seral Forest

Landform: Side-hill, Middle 3rd **Slope:** Extremely Steep (over 30%)

Aspect: West

Notes:

Visit date: 10/4/2004

Ecological Health: Severely Degraded.

% Tree canopy: 50% % Non-Native Cover: 85

General Note:

This unit is at the end of SW Ford St. It is characterized by utility infrastructure and encroachment by neighbors.

Management Note:

Encroachment activities include stone staircases, terraced gardens, and vegetation clearing.

Eco Note:

The encroaching gardens have many garden species and are spreading within the unit.

Primary Management concerns: Invasives, Soil Compaction, Litter, Yard Debris, Utility Infrastructure, Hardscape Infrastructure, Informal Trails, Encroachment.

Visit Species:

_	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Rubus discolor (Himalayan blackberry)	20% to 50%	Y			
Clematis vitalba (clematis)	10% to 20%	Y			
Hedera helix (English ivy)	10% to 20%				
Ilex aquafolium (English holly)	10% to 20%				
Pseudotsuga menziesii (Douglas fir)	1% to 10%		20-30"	Y	
Convolvulus arvensis (morning glory)	1% to 10%				
Epilobium ciliatum (willowherb)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Plantago major (common plantain)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Aesculus hippocastanum (horsechestnut)	trace		0-5"	Y	
Prunus avium (sweet pie cherry)	trace		0-5"	Y	
Corylus avellana (common filbert)	trace				
Crataegus monogyna (European hawthorn)	trace				
Galium aparine (cleavers)	trace				
Geranium molle (Dovefoot)	trace				
Hypericum perforatum (common St. John's wort)	trace				
Lactuca muralis (wall lettuce)	trace				
Lapsana communis (common nipplewort)	trace				
Lathyrus polyphyllus (Pacific leafy peavine)	trace				
Ranunculus repens (creeping buttercup)	trace				
Rumex obtusifolius (bitter dock)	trace				
Taraxacum officinale (common dandelion)	trace				

Unit MUNG*004

Size: 0.8 Acres
NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: West

Notes:

Visit date: 10/4/2004

Ecological Health: Poor. **% Tree canopy:** 65% **% Non-Native Cover:** 95

General Note:

The unit is a steep hill between SW Ford St. and the Jefferson St. off-ramp (Hwy 26).

Management Note:

Understory is mostly invasives species.

Eco Note:

Primary Management concerns: Invasives, Litter, Yard Debris, Informal Trails. **Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	10-20"		
Hedera helix (English ivy)	20% to 50%	Y			
Clematis vitalba (clematis)	20% to 50%				
Acer circinatum (vine maple)	10% to 20%	Y			
Ilex aquafolium (English holly)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Prunus avium (sweet pie cherry)	trace		0-5"	Y	
Geranium robertianum (herb-Robert)	trace				
Vinca minor (common small-leaf periwinkle)	trace				

Unit MUNG*006

Size: 0.20 Acres NVCS Class: Forest

NVCS Subclass: Evergreen forest

NVCS Group: Temperate needle-leaved evergreen forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.001 North Pacific Maritime Dry-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Middle 3rd **Slope:** Extremely Steep (over 30%)

Aspect: Northwest

Notes:

Visit date: 10/4/2004

Ecological Health: Severely Degraded.

% Tree canopy: 85% % Non-Native Cover: 95

General Note:

Steep slope below houses on SW Montgomery Dr.

Management Note:

Some ivy removal has taken place on the Douglas firs.

Eco Note:

Ivy is predominant ground cover and is climbing back up the Douglas fir trunks.

Primary Management concerns: Invasives.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	over 75% Y				
Pseudotsuga menziesii (Douglas fir)	50% to 75%	Y	20-30"		
Ilex aquafolium (English holly)	20% to 50%	Y			
Acer macrophyllum (bigleaf maple)	20% to 50%		5-10"	Y	
Polystichum munitum (sword fern)	1% to 10%				
Aesculus hippocastanum (horsechestnut)	trace		0-5"	Y	
Prunus laurocerasus (English laurel)	trace				

Unit MUNG*010

Size: 2.13 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: North

Notes:

Visit date: 10/6/2004

Ecological Health: Poor. **% Tree canopy:** 65% **% Non-Native Cover:** 70

General Note:

Unit consists of a small creek and it's sidewalls. There is flagging along the creek identifying "wetland delineation".

Management Note:

The creek bottom is infested with Japanese knotweed in the lower portions. There are several large blackberry infestations in open areas in the unit. Ivy is omnipresent throughout.

Eco Note:

The ivy hasn't completely choked out the native forb and shrubs in this unit. Especially along the creek there are large patches of native ferns and shrubs. For these reasons Ecohealth was raised to 4.

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water.

Primary Management concerns: Invasives.

Visit Species:

COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
50% to 75%	Y			
20% to 50%	Y	10-20"	Y	
20% to 50%	Y	10-20"		
10% to 20%	Y			
	50% to 75% 20% to 50% 20% to 50%	50% to 75% Y 20% to 50% Y 20% to 50% Y	50% to 75% Y 20% to 50% Y 10-20" 20% to 50% Y 10-20"	50% to 75% Y 20% to 50% Y 10-20" Y 20% to 50% Y 10-20"

Oemleria cerasiformis (Indian-plum) Rubus discolor (Himalayan blackberry)	10% to 20% Y 10% to 20%		
Alnus rubra (red alder)	1% to 10%	0-5"	Y
Thuja plicata (western red cedar)	1% to 10%	0-5"	Y
Athyrium filix-femina (ladyfern)	1% to 10%		
Equisetum telmateia (giant horsetail)	1% to 10%		
Polygonum cuspidatum (Japanese knotweed)	1% to 10%		
Rubus spectabilis (salmonberry)	1% to 10%		
Tolmiea menziesii (piggy-back plant)	1% to 10%		
Clematis vitalba (clematis)	trace		
Convolvulus arvensis (morning glory)	trace		
Corylus avellana (common filbert)	trace		
Geum urbanum (herb bennet)	trace		
Ilex aquafolium (English holly)	trace		
Prunus laurocerasus (English laurel)	trace		
Ranunculus repens (creeping buttercup)	trace		
Rumex obtusifolius (bitter dock)	trace		

Unit MUNG*012

Size: 3.97 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: Northwest

Notes:

Visit date: 10/5/2004

Ecological Health: Severely Degraded.

% Tree canopy: 80% % Non-Native Cover: 95

General Note:

Unit is located above the access road next to Hwy 26.

Management Note:

Some ivy removal has taken place.

Eco Note:

Fairly high native shrub diversity (for Munger property). There are several native tree species regenerating in this unit.

Primary Management concerns: Invasives.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	over 75% Y				
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	20-30"		
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Acer circinatum (vine maple)	10% to 20%	Y			
Polystichum munitum (sword fern)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Abies grandis (grand fir)	trace		5-10"	Y	
Thuja plicata (western red cedar)	trace		5-10"	Y	
Tsuga heterophylla (western hemlock)	trace		5-10"	Y	
Ilex aquafolium (English holly)	trace				

Unit MUNG*014

Size: 5.38 Acres NVCS Class: Forest **NVCS Subclass:** Evergreen forest

NVCS Group: Temperate needle-leaved evergreen forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: Northwest

Notes:

Visit date: 10/5/2004

Ecological Health: Severely Degraded.

% Tree canopy: 90% % Non-Native Cover: 90

General Note:

Steep sidehill above Hwy 26 access road and below SW Montgomery Dr.

Management Note:

This unit is so steep that most management activities would be hard to accomplish.

Eco Note:

This conifer stand has less dense ivy and higher native forb diversity than other Munger units.

Wetland indicators: Streams.

Primary Management concerns: Invasives, Litter, Large Refuse, Yard Debris.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Pseudotsuga menziesii (Douglas fir)	50% to 75%	Y	20-30"		
Hedera helix (English ivy)	50% to 75%	Y			
Acer macrophyllum (bigleaf maple)	10% to 20%		5-10"	Y	
Polystichum munitum (sword fern)	10% to 20%				
Ilex aquafolium (English holly)	1% to 10%	Y			
Prunus avium (sweet pie cherry)	1% to 10%		0-5"	Y	
Convolvulus arvensis (morning glory)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Tsuga heterophylla (western hemlock)	trace		5-10"	Y	
Aesculus hippocastanum (horsechestnut)	trace		0-5"	Y	
Clematis vitalba (clematis)	trace				

Unit MUNG*015

Size: 0.49 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Upper 3rd **Slope:** Extremely Steep (over 30%)

Aspect: Northwest

Notes:

Visit date: 10/5/2004

Ecological Health: Severely Degraded.

% Tree canopy: 75% % Non-Native Cover: 100

General Note:

Steep sidehill below a house located off of SW Montgomery Dr.

Management Note:

Some ivy has been removed off of Douglas fir trunks.

Eco Note:

Highway 26 is very loud in this unit.

Primary Management concerns: Invasives.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	over 75% Y				
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	20-30"		
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Vaccinium parvifolum (red huckleberry)	10% to 20%	Y			
Ilex aquafolium (English holly)	1% to 10%	Y			
Polystichum munitum (sword fern)	1% to 10%				
Prunus laurocerasus (English laurel)	trace				