



Vegetation Unit Summaries for **Macleay Park (MAC)**

Report date: 7/29/2009

'*' = non-native invasive species

Visit data as of: 7/29/2009

Unit MAC*002

Size: 28.59 Acres

NVCS Class: Woodland

NVCS Subclass: Mixed evergreen-deciduous woodland

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

NVCS SubGroup: Natural / Semi-natural

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

Western Hemlock Forest

Landform: Other

Slope: Extremely Steep (over 30%)

Aspect: Northeast

Notes:

Visit date: 8/20/2003

Ecological Health: Fair.

% Tree canopy: 55%

% Non-Native Cover: not recorded

General Note:

Spotted some animal dens.

Management Note:

May not be able to control CLVI, RUDI, and HEHE at this point in these areas.

Eco Note:

Unit encompasses Balch Creek and NE and SE facing steep side-hills dominated by CLVI and HEHE. Soil is cobbly and loose.

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

Primary Management concerns: Invasives, Erosion, Domestic Animals, Litter, Utility Infrastructure, Hardscape Infrastructure, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Acer circinatum (vine maple)	20% to 50%	Y			
Clematis vitalba (clematis)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Thuja plicata (western red cedar)	20% to 50%		10-20"	Y	Y
Tsuga heterophylla (western hemlock)	20% to 50%		10-20"	Y	
Rubus spectabilis (salmonberry)	20% to 50%				
Populus balsamifera ssp. trichocarpa (black cott	10% to 20%		>30"	Y	
Pseudotsuga menziesii (Douglas fir)	10% to 20%		20-30"		
Hedera helix (English ivy)	10% to 20%				
Abies grandis (grand fir)	1% to 10%		20-30"	Y	
Aesculus hippocastanum (horsechestnut)	1% to 10%		5-10"	Y	
Alnus rubra (red alder)	1% to 10%		5-10"	Y	
Adiantum pedatum (maidenhair fern)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Euonymus occidentalis (western wahoo)	1% to 10%				
Geum macrophyllum (largeleaf avens)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				

Ranunculus repens (creeping buttercup)	1% to 10%			
Rubus discolor (Himalayan blackberry)	1% to 10%			
Rubus ursinus (trailing blackberry)	1% to 10%			
Symphoricarpos albus (snowberry)	1% to 10%			
Tolmiea menziesii (piggy-back plant)	1% to 10%			
Vancouveria hexandra (white inside-out-flower)	1% to 10%			
Fraxinus latifolia (Oregon ash)	trace	0-5"	Y	Y
Taxus brevifolia (Pacific yew)	trace	0-5"		
Cornus sericea ssp. sericea (red-osier dogwood)	trace			
Crataegus monogyna (European hawthorn)	trace			
Epilobium ciliatum ssp. watsonii (fringed willow)	trace			
Geranium robertianum (herb-Robert)	trace			
Lonicera ciliosa (western orange honeysuckle)	trace			
Spiraea douglasii (Douglas' spiraea)	trace			

Unit MAC*003

Size: 21.01 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, Middle 3rd

Slope: Extremely Steep (over 30%)

Aspect: North

Notes:

Visit date: 8/19/2003

Ecological Health: Fair.

% Tree canopy: 65%

% Non-Native Cover: not recorded

General Note:

Unit includes parking and picnic area.

Portland Heritage tree (PSME) with a DBH of 66.5 is in this unit near the stream.

Management Note:

Remove CRMO along creek and AEHY along creek.

Eco Note:

Unit has steep rock face/cliffs dropping off into Balch creek. The lower Macleay trail runs through the SW end of the unit.

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

Primary Management concerns: Invasives, Erosion, Domestic Animals, Utility Infrastructure.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
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)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Rubus spectabilis (salmonberry)	20% to 50%	Y			
Alnus rubra (red alder)	10% to 20%		10-20"		
Thuja plicata (western red cedar)	10% to 20%		10-20"	Y	
Hedera helix (English ivy)	10% to 20%				
Aesculus hippocastanum (horsechestnut)	1% to 10%		10-20"		
Tsuga heterophylla (western hemlock)	1% to 10%		0-5"	Y	
Berberis nervosa (Oregon grape)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Ranunculus repens (creeping buttercup)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Sorbus aucuparia (European mountain ash)	trace		0-5"		
Adiantum pedatum (maidenhair fern)	trace				

Athyrium filix-femina (ladyfern)	trace
Crataegus monogyna (European hawthorn)	trace
Geranium robertianum (herb-Robert)	trace
Geum macrophyllum (largeleaf avens)	trace
Hydrophyllum tenuipes (Pacific waterleaf)	trace
Rubus discolor (Himalayan blackberry)	trace

Unit MAC*004

Size: 23.37 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: CES204.001 North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest

Landform: Side-hill, Middle 3rd

Slope: Extremely Steep (over 30%)

Aspect: Southwest

Notes:

Visit date: 8/19/2003

Ecological Health: Fair.

% Tree canopy: 70%

% Non-Native Cover: not recorded

General Note:

The unit consists of a steep SW facing slope running along Balch Creek. There is an old house like structure on trail in unit. There is possibly an old road grade that runs through unit also.

Management Note:

Remove the RUDI2 at the top of the unit. There is also a large patch of CLVI in the middle of the unit just above the trail that needs to be removed before it moves any further into the unit. ILAQ in spots.

Eco Note:

Balch Creek seem to be healthy and in fairly good shape there are some impacts by people and animals using the trail. Unit had good structure and diversity.

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

Primary Management concerns: Invasives, Hardscape Infrastructure, Vandalism, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	50% to 75%	Y	10-20"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Thuja plicata (western red cedar)	10% to 20%		10-20"	Y	
Acer circinatum (vine maple)	10% to 20%				
Berberis nervosa (Oregon grape)	10% to 20%				
Ilex aquafolium (English holly)	10% to 20%				
Rubus spectabilis (salmonberry)	10% to 20%				
Pseudotsuga menziesii (Douglas fir)	1% to 10%		20-30"	Y	
Tsuga heterophylla (western hemlock)	1% to 10%		20-30"	Y	
Abies grandis (grand fir)	1% to 10%		5-10"	Y	
Sorbus aucuparia (European mountain ash)	1% to 10%		0-5"		
Adiantum pedatum (maidenhair fern)	1% to 10%				
Clematis vitalba (clematis)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Euonymus occidentalis (western wahoo)	1% to 10%				
Gaultheria shallon (salal)	1% to 10%				
Hedera helix (English ivy)	1% to 10%				
Holodiscus discolor (oceanspray)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Smilacina racemosa (false Solomon's-seal)	1% to 10%				

Vaccinium parvifolium (red huckleberry)	1% to 10%	
Vancouveria hexandra (white inside-out-flower)	1% to 10%	
Taxus brevifolia (Pacific yew)	trace	5-10"
Prunus avium (sweet pie cherry)	trace	0-5"
Oxalis oregana (Oregon woodsorrel)	trace	
Tolmiea menziesii (piggy-back plant)	trace	

Unit MAC*005

Size: 9.94 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, Middle 3rd

Slope: Extremely Steep (over 30%)

Aspect: South

Notes:

Visit date: 8/19/2003

Ecological Health: Good.

% Tree canopy: 80%

% Non-Native Cover: not recorded

General Note:

This unit ran from the creeks edge up slope north and east. The slope was steep. There was some type of water retention structure at the creek and a fence running on what must have been the property line.

Management Note:

Remove ILAQ infestations.

Eco Note:

Unit was in good health besides the ILAQ and a little bit of HEHE by trail. Unit also had a diverse canopy with a range of ages classes, Some trees were very old late seral stage to old growth.

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

Primary Management concerns: Invasives, Litter, Utility Infrastructure, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	>30"		
Polystichum munitum (sword fern)	20% to 50%	Y			
Rubus spectabilis (salmonberry)	10% to 20%	Y			
Abies grandis (grand fir)	10% to 20%		20-30"	Y	
Acer macrophyllum (bigleaf maple)	10% to 20%		10-20"	Y	
Thuja plicata (western red cedar)	10% to 20%		5-10"	Y	
Berberis nervosa (Oregon grape)	10% to 20%				
Alnus rubra (red alder)	1% to 10%		10-20"		
Tsuga heterophylla (western hemlock)	1% to 10%		5-10"	Y	
Acer circinatum (vine maple)	1% to 10%				
Disporum hookeri (Hooker's fairybells)	1% to 10%				
Gaultheria shallon (salal)	1% to 10%				
Hedera helix (English ivy)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Rosa gymnocarpa (dwarf wood rose)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Vaccinium parvifolium (red huckleberry)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Achlys triphylla (vanillaleaf)	trace				
Asarum caudatum (wild ginger)	trace				
Holodiscus discolor (oceanspray)	trace				
Stachys cooleyae (Cooley's hedgenettle)	trace				
Trillium ovatum (trillium)	trace				

Unit MAC*006

Size: 8.56 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: 8/20/2003

Ecological Health: Poor.

% Tree canopy: 70%

% Non-Native Cover: not recorded

General Note:

Management Note:

ACPL becoming very well established off the Cumberland trail head.

Eco Note:

Unit has 2 ravines running through it, one of which still has some trickling water. Seep emerging from bank near trail head.

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

Primary Management concerns: Invasives, Domestic Animals, Litter, Utility Infrastructure, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Pseudotsuga menziesii</i> (Douglas fir)	20% to 50%	Y	20-30"		
<i>Tsuga heterophylla</i> (western hemlock)	20% to 50%	Y	20-30"	Y	
<i>Acer macrophyllum</i> (bigleaf maple)	20% to 50%	Y	10-20"	Y	
<i>Polystichum munitum</i> (sword fern)	20% to 50%				
<i>Acer circinatum</i> (vine maple)	10% to 20%	Y			
<i>Acer platanoides</i> (Norway maple)	10% to 20%		5-10"	Y	
<i>Hedera helix</i> (English ivy)	10% to 20%				
<i>Vancouveria hexandra</i> (white inside-out-flower)	10% to 20%				
<i>Thuja plicata</i> (western red cedar)	1% to 10%		20-30"	Y	
<i>Taxus brevifolia</i> (Pacific yew)	1% to 10%		5-10"		
<i>Adiantum pedatum</i> (maidenhair fern)	1% to 10%				
<i>Athyrium filix-femina</i> (ladyfern)	1% to 10%				
<i>Berberis nervosa</i> (Oregon grape)	1% to 10%				
<i>Corylus cornuta</i> (western beaked hazelnut)	1% to 10%				
<i>Hydrophyllum tenuipes</i> (Pacific waterleaf)	1% to 10%				
<i>Ilex aquafolium</i> (English holly)	1% to 10%				
<i>Prunus laurocerasus</i> (English laurel)	1% to 10%				
<i>Ranunculus repens</i> (creeping buttercup)	1% to 10%				
<i>Rubus discolor</i> (Himalayan blackberry)	1% to 10%				
<i>Rubus parviflorus</i> (thimbleberry)	1% to 10%				
<i>Rubus spectabilis</i> (salmonberry)	1% to 10%				
<i>Rubus ursinus</i> (trailing blackberry)	1% to 10%				
<i>Sambucus racemosa</i> (red elderberry)	1% to 10%				
<i>Tolmiea menziesii</i> (piggy-back plant)	1% to 10%				
<i>Vaccinium parvifolium</i> (red huckleberry)	1% to 10%				
<i>Geranium robertianum</i> (herb-Robert)	trace				
<i>Geum macrophyllum</i> (largeleaf avens)	trace				
<i>Populus balsamifera</i> ssp. <i>trichocarpa</i> (black cott	trace				
<i>Tiarella trifoliata</i> (foamflower)	trace				

Unit MAC*007

Size: 9.2 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, Middle 3rd

Slope: Extremely Steep (over 30%)

Aspect: North

Notes:

Visit date: 8/20/2003

Ecological Health: Fair.

% Tree canopy: 65%

% Non-Native Cover: not recorded

General Note:

Lots of foot and dog traffic.

Management Note:

Invasives receives a 3 due to the extraordinary amount of CLVI in north side of unit near bridge. RUDI also makes a grand appearance here as well. Mitigating for these area is crucial in order to protect remnant population of old growth in adjacent unit.

Eco Note:

This unit is a deciduous dominated stand intertwined with old growth higher up on slope.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Acer circinatum (vine maple)	10% to 20%	Y			
Berberis nervosa (Oregon grape)	10% to 20%				
Clematis vitalba (clematis)	10% to 20%				
Sambucus racemosa (red elderberry)	10% to 20%				
Vaccinium parvifolium (red huckleberry)	10% to 20%				
Pseudotsuga menziesii (Douglas fir)	1% to 10%		20-30"		
Tsuga heterophylla (western hemlock)	1% to 10%		10-20"	Y	
Achlys triphylla (vanillaleaf)	1% to 10%				
Adiantum pedatum (maidenhair fern)	1% to 10%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Disporum hookeri (Hooker's fairybells)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Petasites frigidus (coltsfoot)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Rubus spectabilis (salmonberry)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Smilacina racemosa (false Solomon's-seal)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Abies grandis (grand fir)	trace		0-5"	Y	
Thuja plicata (western red cedar)	trace		0-5"	Y	
Amelanchier alnifolia (serviceberry)	trace				
Geranium robertianum (herb-Robert)	trace				
Geum macrophyllum (largeleaf avens)	trace				
Hedera helix (English ivy)	trace				
Hydrophyllum tenuipes (Pacific waterleaf)	trace				
Lactuca muralis (wall lettuce)	trace				
Rhamnus purshiana (cascara)	trace				

Unit MAC*008

Size: 33.33 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, Middle 3rd

Slope: Extremely Steep (over 30%)

Aspect: Northwest

Notes:

Visit date: 8/19/2003

Ecological Health: Good.

% Tree canopy: 85%

% Non-Native Cover: not recorded

General Note:

PSME 65" DBH; TSHE 35" DBH; Species of Interest: Taxus brevifolia (couldn't get a GPS reading); Large PSME leaning (ready to fall over) 25 degrees from vertical adjacent to (but away from) trail.

Management Note:

Invasives creeping in from edges--intervention highly recommended in order to protect this unique old growth stand.

Eco Note:

Remnant population of old growth PSME, TSHE and ABGR. Stand has good structural and age diversity. Late successional TSHE dominates.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Domestic Animals, Utility Infrastructure.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	>30"		
Tsuga heterophylla (western hemlock)	20% to 50%	Y	20-30"	Y	
Polystichum munitum (sword fern)	20% to 50%				
Acer circinatum (vine maple)	10% to 20%	Y			
Abies grandis (grand fir)	10% to 20%		20-30"	Y	
Acer macrophyllum (bigleaf maple)	10% to 20%		10-20"	Y	
Clematis vitalba (clematis)	10% to 20%				
Hedera helix (English ivy)	10% to 20%				
Thuja plicata (western red cedar)	1% to 10%		5-10"		
Achlys triphylla (vanillaleaf)	1% to 10%				
Adiantum pedatum (maidenhair fern)	1% to 10%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Gaultheria shallon (salal)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Lactuca muralis (wall lettuce)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Osmorhiza chilensis (mountain sweet-cicely)	1% to 10%				
Rosa gymnocarpa (dwarf wood rose)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Smilacina stellata (starry false-Solomon's seal)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Trillium ovatum (trillium)	1% to 10%				
Vaccinium parvifolium (red huckleberry)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Prunus avium (sweet pie cherry)	trace		5-10"		
Taxus brevifolia (Pacific yew)	trace		5-10"		
Cornus nuttallii (Pacific dogwood)	trace		0-5"		
Sorbus aucuparia (European mountain ash)	trace		0-5"		
Actaea rubra (red baneberry)	trace				
Asarum caudatum (wild ginger)	trace				
Disporum hookeri (Hooker's fairybells)	trace				
Galium triflorum (sweet-scented fragrant Bedstra)	trace				
Geum macrophyllum (largeleaf avens)	trace				
Holodiscus discolor (oceanspray)	trace				
Hydrophyllum tenuipes (Pacific waterleaf)	trace				

Montia sibirica (Siberian minerslettuce)	trace
Petasites frigidus (coltsfoot)	trace
Prunus laurocerasus (English laurel)	trace
Rhododendron macrophyllum (rhododendron)	trace
Tiarella trifoliata (foamflower)	trace
Viola glabella (stream violet)	trace