Corvallis Forest
Natural Resources Inventory
(Rock Creek Watershed Property)

Prepared for:
City of Corvallis
Public Works Department

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TROUT MOUNTAIN FORESTRY

Contents

Introduction 1
- Why this inventory was conducted
- Relationship to other inventories
- What was measured

Vegetation types 2
- Why we refined the vegetation types
- Type characteristics

Methods 3
- Data measurements
- Accuracy

Results 4
- High Points
- Timber volume
- Reproduction
- Snags
- Woody debris
- Understory vegetation / Invasive species
- Carbon stocks
- Growth and Yield

Vegetation cover type map 7

Plant association map 8

Stand Visualizations 9
- How SVS works
- Interpreting the images
- Images for selected stands

Recommendations 15

Appendix: Figures & Reports 16
- How to read a data table
- Glossary of terms

1. Species summary 17
2. Vegetation type summary 18
3. Stand summary – trees >5.5" dbh 19
4. Snag summary 35
5. Woody debris summary 38
6. Lesser vegetation / Invasive species 40
   - Invasive species
   - Plant associations key
   - Species list

7. Statistics 47

Introduction

In December 2006 the Corvallis City Council adopted the Corvallis Forest Stewardship Plan (CFSP) for city-owned forestland on the east flank of Marys Peak. Two years in development, this was the first comprehensive, multi-resource plan in the history of the city's ownership. It was a joint effort of the Corvallis Public Works staff, its Watershed Management Advisory Commission (WMAC), and its consultant Trout Mountain Forestry. One recommendation was to conduct this updated forest resource inventory.

Why this inventory was conducted

Prior to development of the CFSP, much of the resource information on the forest was compiled in the 1980s. As such, it was either dated, general in nature, or simply lacking. The CFSP included assessments of water quality, stream structure, fish and wildlife habitat, soils, vegetation, and forest stand structure, but updated information on forest stands was needed.

Ownership objectives have changed since the 1980s; from a focus on income and timber management, to vision that emphasizes a "*healthy ecosystem with a diverse forest and productive habitat for all species native to the watershed*."[1] Baseline resource information is needed to evaluate the effectiveness of the management program over time.

Relationship to other inventories

- 1984 Timber Harvest Plan – a timber focused approach, which broke the forest into 40-acre harvest blocks; limited stand structure or non-timber data
- 1993 Woodland Management Inc. updated Harvest Plan –updating the 1980 data, with adjustments for spotted owl reserve circles; approach and information was otherwise unchanged
- 2006 Corvallis Forest Stewardship Plan (CFSP) – includes detailed information on non-timber resources; timber volumes were updated from the 1980 data, but not remeasured.

This inventory is in support of its goals and objectives of the CFSP. Future inventories are planned periodically for monitoring and assessment of the management approach over time.

What was measured

To supplement the non-forest inventories of the CFSP, this inventory focused on living and dead trees and understory vegetation. Specific measurements are detailed in the Methods section.

- Trees: merchantable timber, immature trees, and seedlings

[1] Corvallis Forest Stewardship Plan (2006), page 8.

- Snags: standing dead trees
- Down wood: dead trees lying on the forest floor
- Understory vegetation: shrubs, forbs, grasses, ferns

Vegetation types

All forest inventories begin by classifying the forest into areas of similar age, species, and condition of trees. These *vegetation types* allow stands to be grouped for ease and accuracy of measurement, results in a more accurate assessment of resource qualities, and is often the basis for management. The vegetation types used in this inventory are detailed below. A map is found on page 7.

Why we refined the vegetation types of the CFSP

The four vegetation types[2] used in the CFSP have proved inadequate to reflect the management needs and opportunities, and the wide diversity of conditions found across the forest. The vegetation types classified in the CFSP span 50 years of age or more, too wide to reflect management needs — the prescriptions for a 25 year-old plantation are not the same as those for a 50 year-old plantation. That system also failed to account for differences in past management — riparian areas that had no past harvesting were classed the same as those with heavy past cutting.

In addition, the original system failed to align with definitions of Old Growth forests used by the Forest Stewardship Council (FSC), whose system the Corvallis Forest is certified under. The new types now distinguish between old stands that that have been logged or contain limited old forest structure, and those that exhibit full old growth characteristics.

Finally, the new classification more closely reflects desired future conditions for the forest, and distinguishes between middle-age stands that are nearing desired structure, versus those that are unlikely to reach this without some management assistance.

Type characteristics

Vegetation types are based on average dominant tree age, then differentiated based on condition, density, or origin. See Table 1 below.

[2] Young (20-50 yrs old; plantations), Middle-aged (50-110 yrs old; natural stands, past logging or ag origin), Older (>110 years; never logged), and non-forest.

Table 1. Vegetation types

Symbol	*Vegetation type*	*Age*	*Description*
O1	Old Growth, Type 1[3]	≥200 yrs[4]	Late successional (LS) structure, never logged, ≥20 ac
O2	Old Growth, Type 2		Unlogged stands <20 acres, or logged stands >3 ac with LS structure
O3	Old Growth, Type 3		Residual OG trees or LS character (>1 tree/ac)
M	Middle age	60-110 yrs	Little old forest structure; post-logging or natural origin
M+	Older middle age	110-200 yrs	Single species, single age, undeveloped understory; little old forest structure; post-logging or natural origin
M-ag	Middle age, Ag		Old pasture or agricultural origin
P0	Plantation, pre-merch	1-19 yrs	Pre merchantable
P1	Plantation, part-merch	20-34 yrs	Partially merchantable
P2	Plantation, merch	≥35 yrs	Fully merchantable
R–	Riparian, low density	varies	Mixed hardwood and conifers, past logging or low density
R+	Riparian, high density	varies	Mixed hardwood and conifers, high density
NF	Non-forest		Meadows; water system infrastructure

Methods

The inventory began with a review of aerial photography[5], and mapping forest vegetation into units similar in dominant vegetation, age, density, and condition. Minimum stand size for forested types is 5 acres and 1.0 acres for non-forest areas. Cruising for the project was done by Duck Creek Associates in March and April 2009. A total of 405 plots were measured.

Trout Mountain Forestry designed the cruise methodology. A nested plot design methodology was used. Trees ≥5.5” diameter at breast height (dbh) were measured using a variable radius plot. Trees between 4’ tall[6] and 5.4” dbh were measured using a 1/100-ac subplot (11.78’ radius). Biodiversity measures were taken using a 1/50-ac subplot (16.65’ radius). Woody debris was measured using a 66-foot transect. An understory vegetation baseline survey was conducted by Carex Working Group in spring 2010, using a 1/50-ac plot on a proportional random selection of 100 forest inventory plots. Findings of their report (July, 2010) are incorporated in this report and appendix.

Cruise data were compiled by Trout Mountain Forestry using Forest Projection and Planning System (FPS) software (Forest Biometrics Research Institute, 2009). A variety of reports and summaries were developed, with key results included in the Appendix.

[3] These three sub-types correspond to Forest Stewardship Council classification of Old Growth forests, Pacific Coast USA Standards, version 9.0, 5/9/05.
[4] Younger stands are classed as O1 if well-developed late successional structure is present
[5] 2005 NAIP orthophotos
[6] Trees under 4’ tall were frequently suppressed and were not recorded

Data measurements

Tree measures:

- Species
- Diameter (dbh)
- Total height[7]
- Crown class[7]
- Defect[7]
- Live crown ratio[7]
- Site productivity[8]

Biodiversity measures:

- Snags
- Stumps
- Invasive species
- Woody debris

Understory vegetation:

- Species, native or non-native
- Cover percent
- Plant association

Accuracy

The plots were assigned between vegetation types, with more plots places in types with the greatest variation and fewer plots in more uniform types. This allowed for the greatest overall accuracy for the specified number of plots. A minimum of 5 percent of the plots in each stratum were check cruised to ensure data accuracy. All check cruised plots fell within pre-established accuracy limits.

Error averaged 6 percent for most stands[9]. Error exceeded 10 percent only for the P0 and O2 types, both small types with low survey intensity and high variability. Error is calculated for 1 standard deviation — if the ownership was re-cruised, 2 times out of 3 the result would fall with the stated error range.

Results

The results of the inventory offer a new, full picture of the forest. Tables in the appendix provide a complete viewing of cruise results. All measurements were made March and April 2009 (data year 2008, pre-2009 growing season). The FPS software allows cruise results to be summarized in a wide array of additional reports, including diameter distributions by species, for each stand and type.

[7] Cruise/count ratio of 1:2 or 1:3, pre-selected according to type variability
[8] Ten trees per type were measured for age at dbh to determine site index
[9] for basal area (BA)

High Points

- More timber is present than expected — nearly 135 million board feet in total; stocking is high in both old growth and middle-age stands
- Low species diversity — over 92% of total volume is Douglas-fir; maple, hemlock, and cedar account for 6%, with all other species totaling under 1%
- Invasive species populations are small – this confirms observations of managers
- Plant communities show a healthy diversity in most vegetation types. Plantations have the least species richness, as expected, but can respond to management efforts to increase diversity

Timber volume

Total merchantable timber on the tract is 134,091,000 board feet. Douglas fir represents 92.2 percent of total (123,659 MBF), followed by bigleaf maple (3.5 percent, 4,720 MBF), grand fir (2.2 percent, 3,345 MBF), and western redcedar (1.0 percent, 1,396 MBF). All other species combined represent less than one percent of the total.

Of the total, over half (51.2 percent) of total volume is found in old growth forest types O1, O2, and O3. Approximately 39 percent of the total is found within middle age forest types M, M+, and M-ag. Plantations stands P0, P1, and P2 contain 6.8 percent of total volume, with riparian stands R+ and R– containing the remainder (3.4 percent).

Highest stocking if found in old growth types (92-118 MBF/ac), followed by M+, M, and R+. Lowest stocking is found in young plantations P0 and P1, as well as R–.

Timber value was not appraised. The appraisal process requires assumptions of legal harvest limitations, liquidation rates, and harvest assumptions that are outside of the realm of management prescribed within the CFSP.

Reproduction

Some reproduction is found in all types excepting plantations, which are so dense they preclude most regeneration. Shade tolerant grand fir is more common as reproduction than as an overstory tree, as would be expected in dense even-aged stands. Douglas-fir regeneration is typically growing poorly and stunted, owing to low understory light levels. Shade tolerant hemlock and cedar are desirable and suited to many sites, but are virtually absent, owing to lack of seed source and young average age of most stands.

Snags

Snag numbers vary significantly, both between vegetation types and stands. The greatest number of snags is found in M stands, where past harvesting often left snags and residual trees. The largest snags (>36” dbh) are found in old growth stands, though they

were tallied infrequently. Most snags in plantations are small diameter trees that succumbed to overcrowding, of limited value to most wildlife.

Snag numbers in plantations and other previously harvested stands include stumps, which were tabulated for carbon stocks calculations. Large stumps from old growth trees provide some of the same wildlife benefits as short snags.

Woody debris

Woody debris levels also vary significantly across the property, but are generally low. Nearly 70 percent of stands measured had woody debris levels below the 20 tons per acre target. High levels (>40 tons/acre) are found in several riparian stands, and some old growth and M+ stands. However, other old growth stands and middle age stands had levels well below the target. Many plantation stands had woody debris levels below 10 tons per acre; some showing high levels were skewed by sample plots that fell in log landings with high cull log concentrations.

Understory vegetation / Invasive species

Species richness, measured by the average number of species found on vegetation plots averaged 19 for the forest, ranging from a low of 12 species in plantations to a high of 22 in riparian stands. Understory species richness is relatively constant among all stand types except plantations, which have a dense tree canopy and a lack of light reaching the forest floor. The greatest richness is found in the shrub layer, followed by the herb layer, and then tree layer. A map of plant associations of the forest is found on page 8.

In general, the understory in the forest is relatively unimpacted by exotic species. Less than 20% sampled plots contain exotic plant species, and their cover averages 1.3%. The CFSP included a roadside weed survey, which found false brome to be present on many road segments, with only scattered populations of non-native blackberry and Scotch broom. Roadside weed populations are being aggressively reduced.

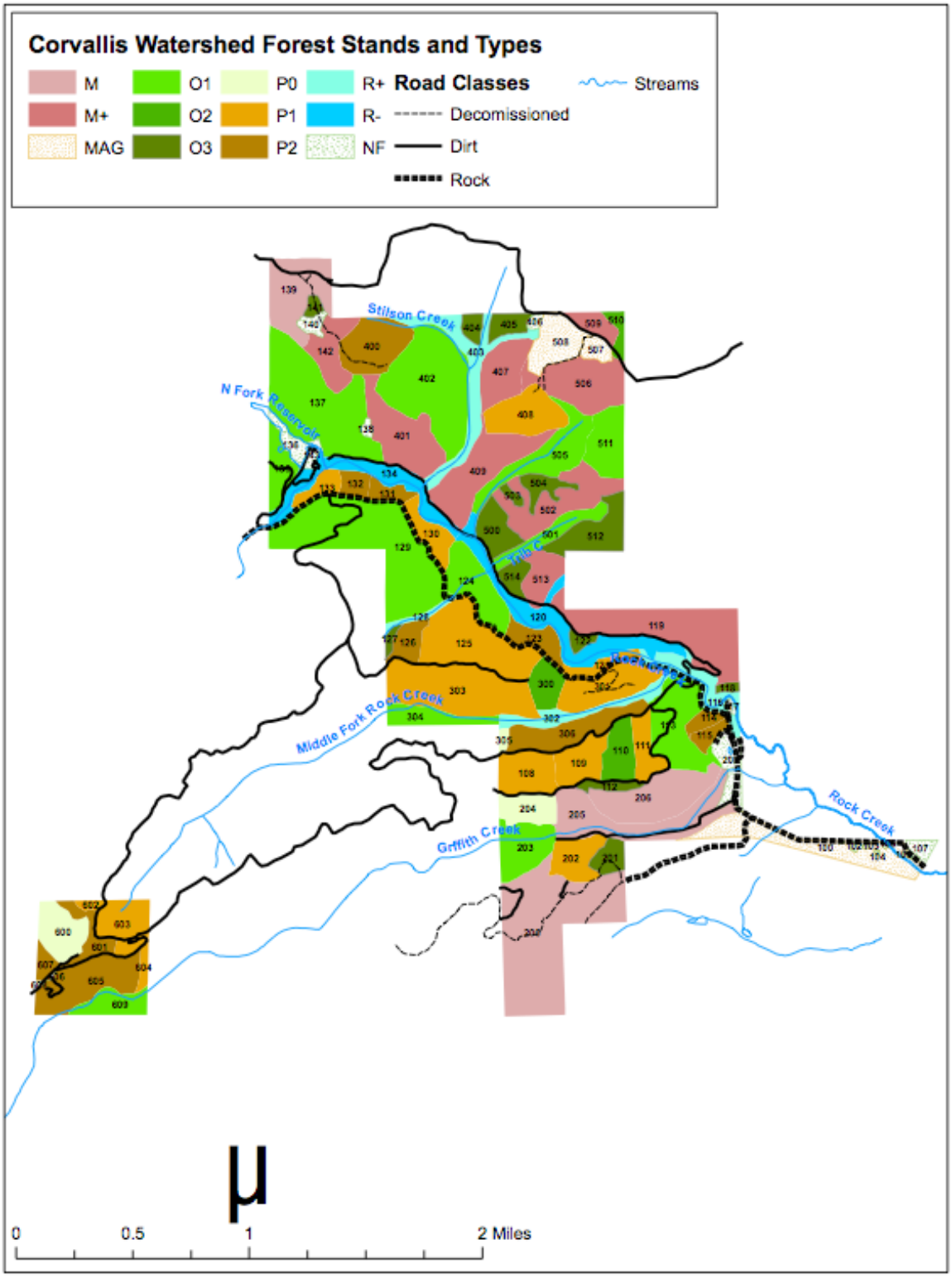
Carbon stocks

Total carbon stocks for the property were calculated at 341,520 Metric Tons. Breakdown includes living and dead, and above and below ground components by stand. Associated tables are available within the FPS database.

Growth and Yield

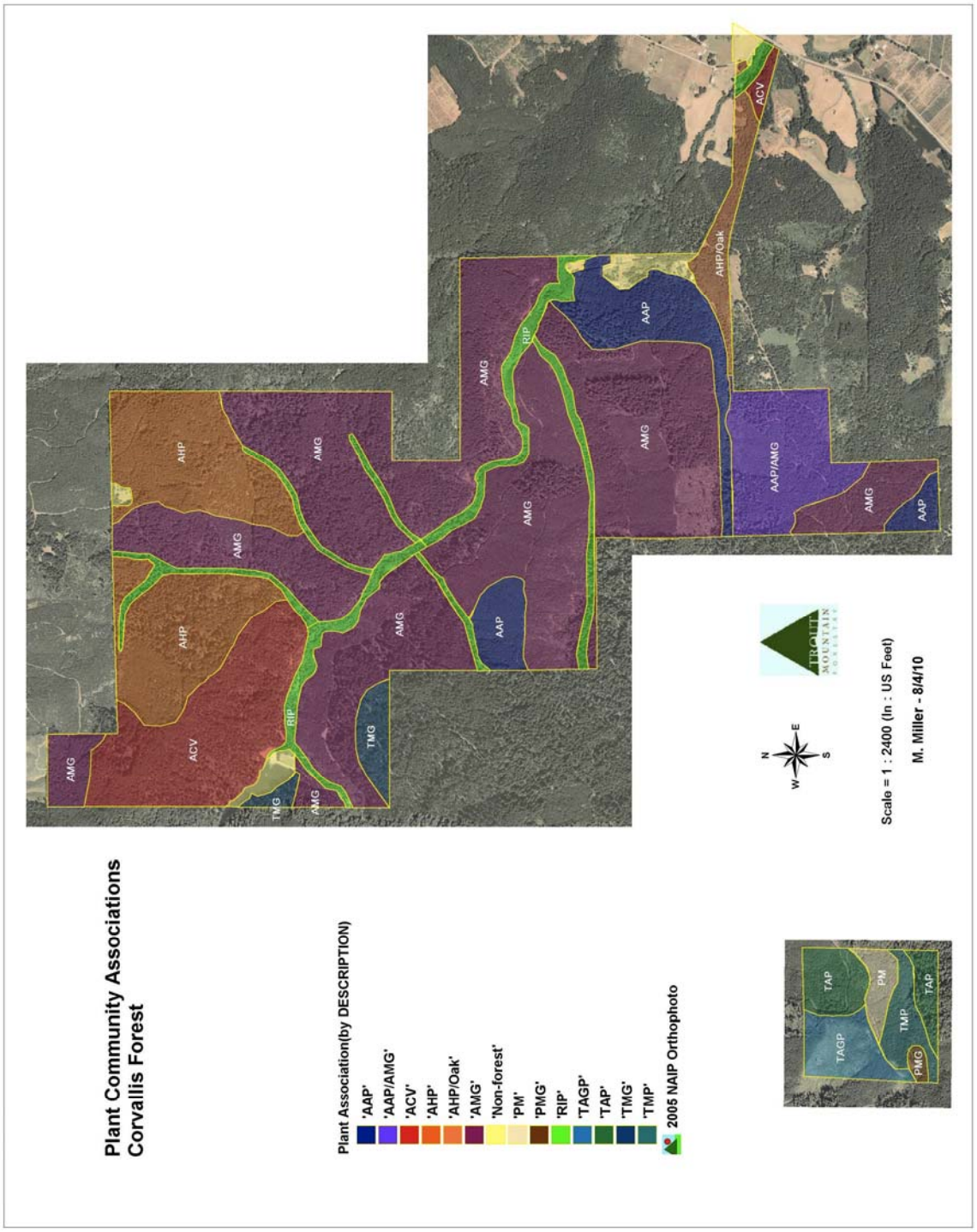
Cruise data can be manipulated within FPS to display a wide variety of growth and modeling scenarios. Growth and yield analysis was not a part of this inventory, but could be added at a later date.

Stand data and modeling results for select stands were imported in the Stand Visualization Software (SVS) to create visual representations of how certain stands would grow under various management scenarios. A sample of this output is found in the appendix.


Corvallis Watershed Forest Stands and Types
M
M+
MAG
O1
O2
O3
P0
P1
P2
R+ Road Classes
R-
NF
Streams
Decomissioned
Dirt
Rock
Stillson Creek
N Fork Reservoir
Middle Fork Rock Creek
Griffith Creek
Rock Creek
0
0.5
1
2 Miles

Plant Association Map

Associations are ranked on a moisture/temperature gradient: red/orange is warm/dry; blue is cool/moist; green is riparian. A key to plant associations is found on page 40.



Visualizations

Data tables are difficult for most non-professionals to interpret. To make these more accessible to non-technical audiences, graphical representations of stand data and management simulations for select stands were created using Stand Visualization System (SVS) software.

How SVS works

Actual vegetation type data is depicted on a hypothetical 1-acre square. Tree species, size, and density are shown based on plot averages, while "clumpiness" is represented based on actual plot-to-plot variation. Stands can be "grown" over time based on site productivity measures and modeled relationships of tree age and density. Management scenarios can be described whereby select trees are virtually "cut", demonstrating how the stand will develop over time. An endless variety of user-defined variations are possible, allowing managers to test scenarios and visually illustrate the likely results of management choices.

Interpreting the images

Three views are shown: perspective, birds-eye, and cross-section. Different crown colors or shapes depict trees of different species. Dead trees (snags) are shown in gray, as are logs on the ground as they decay and fall. Stumps of "harvested" trees are shown. Trees of different sizes are scaled proportionally. Seedlings can be seen in the understory.

The red lines on the birds-eye view shows the area displayed in the cross section view. Text at the top of the images identifies the stand number, the modeling management regime, and the year of the modeling result. A map showing stand numbers is found on page 8.

When viewing successive images of a management scenario over time it is possible to see individual trees grow, be harvested (or succumb to overcrowding), and new seedlings become established over time.

Images for selected stands

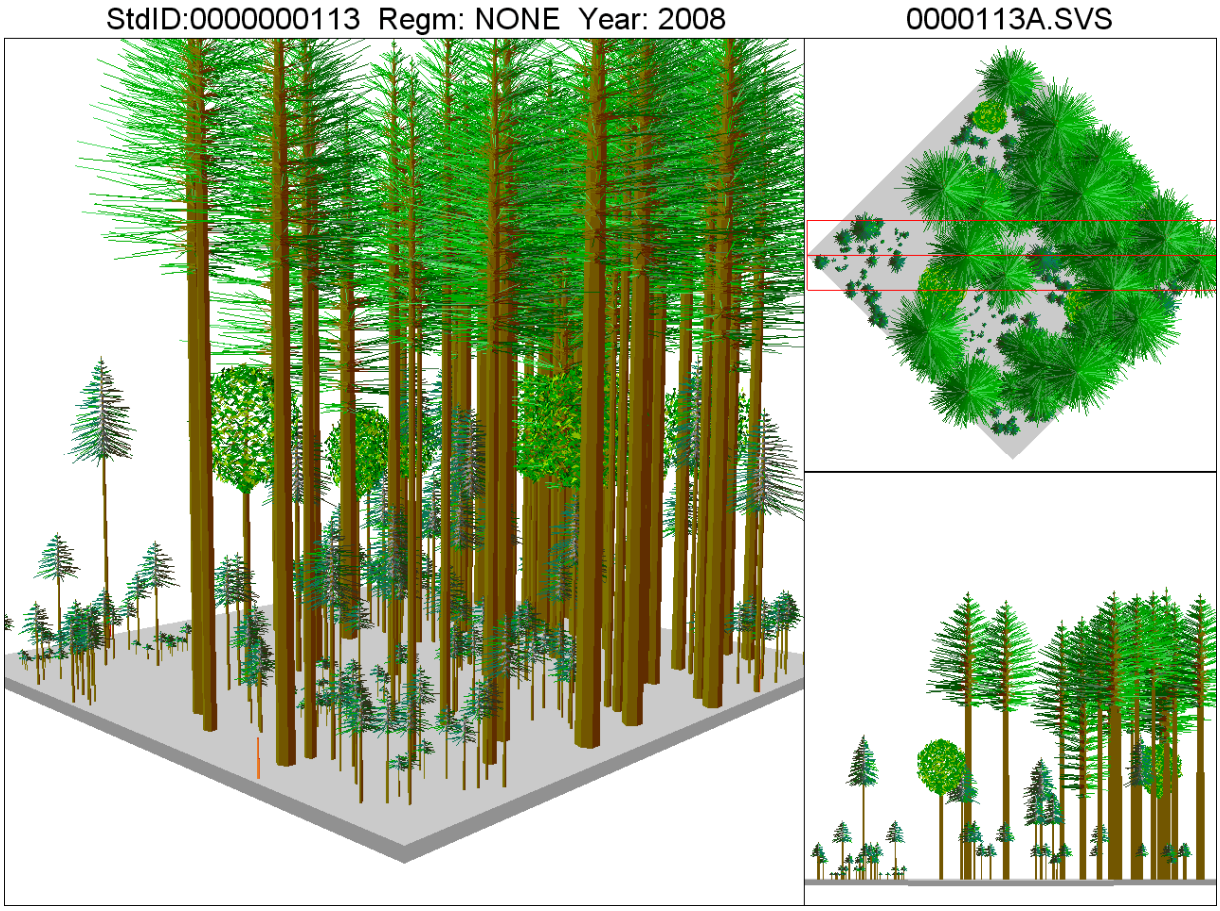
Type O1, Stand 113

What this represents:

This is a Type 1 Old Growth stand (age 200+, never been logged). Old growth stands have a multi-age, multi-species stand structure. Dominant trees have large crowns and tall stature. Snags and woody debris are common.

What is noteworthy:

- Trees of various sizes and species are present
- Large Douglas-fir dominates, with long crowns
- Hardwoods present in mid canopy layers
- Canopy gaps filled with younger trees (birds-eye view)



Type M+, Stand 142

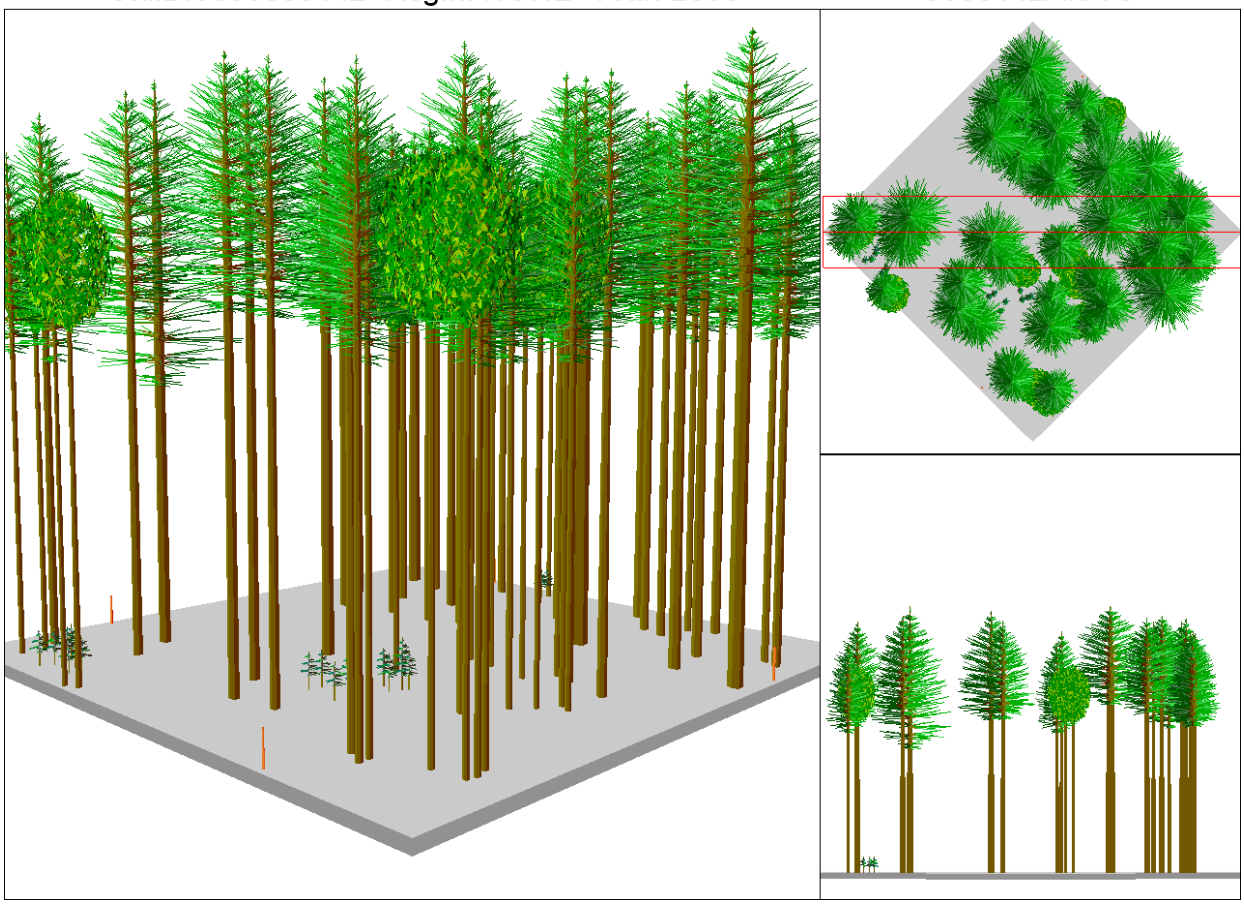
What this represents:

This is a middle-age stand (100-200 years old). M+ stands have a relatively uniform, even-aged stand structure. Seedlings and saplings are uncommon, as are minor species. Snags and woody debris are uncommon.

What is noteworthy:

- Trees of even size and single species
- Douglas-fir dominates, with crowded, constricted crowns
- Some hardwoods present, but not dominant
- Few younger trees or canopy gaps (birds-eye view)
- Few snags or down logs
- Looks more like a plantation (following page) than old growth (preceding page)

StdID:0000000142 Regm: NONE Year: 2008 0000142A.SVS



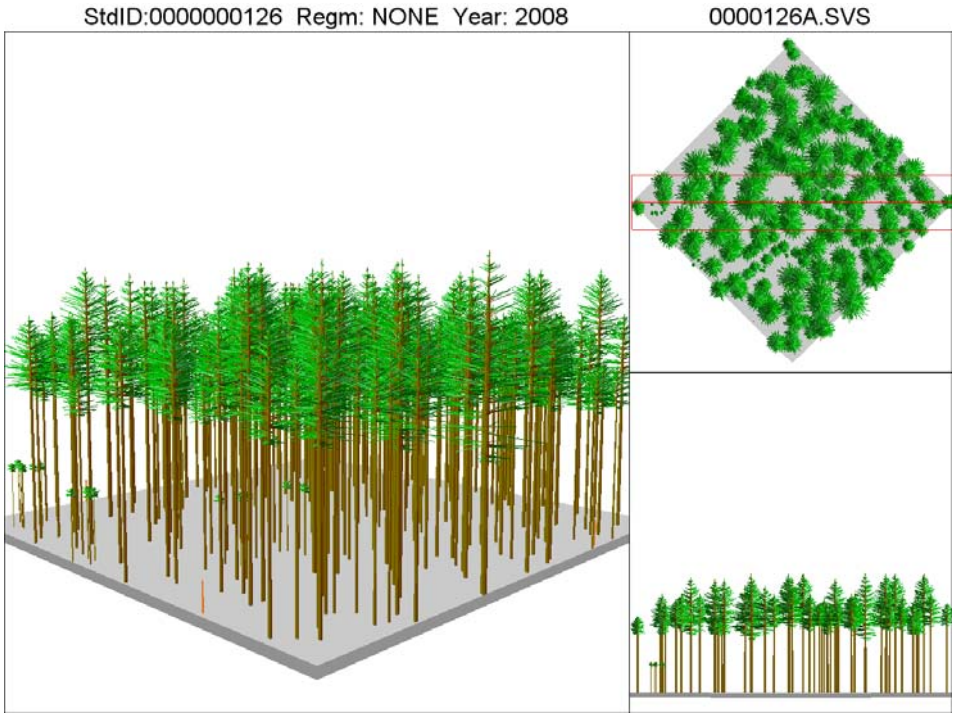
Type P2, Stand 126

What this represents:

This is a plantation stand (20-50 years old). P2 stands are old enough to contain harvestable trees, and are ready for thinning. They have a very uniform, even-aged stand structure. Seedlings and saplings are absent, minor species are uncommon or lacking. Snags and woody debris are often absent.

What is noteworthy:

- Trees of even size, single species, and uniform spacing
- Douglas-fir dominates, with crowded, constricted crowns
- Few hardwoods or minor species present
- Few younger trees or canopy gaps
- No snags or down logs
- Compare with Middle -age and Old Growth stands on preceding pages



Type R+, Stand 116

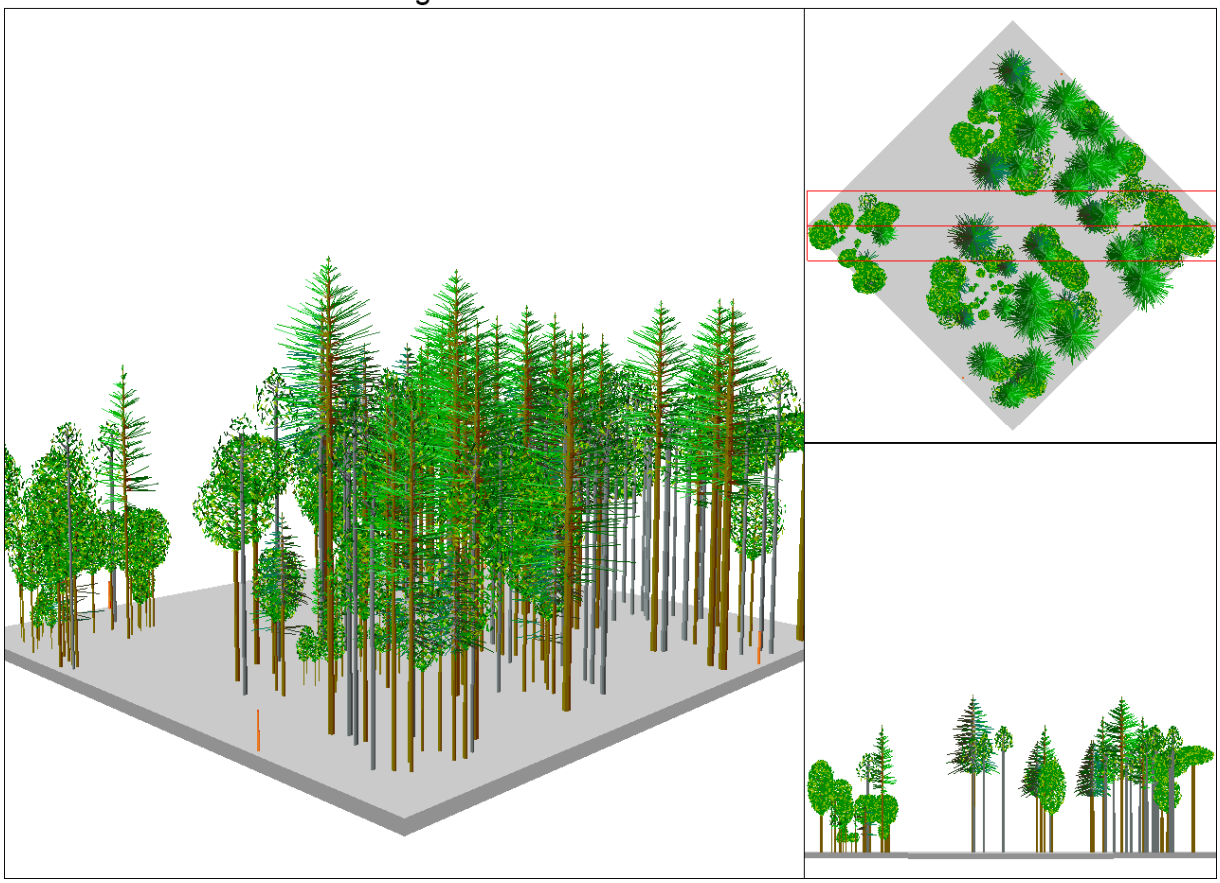
What this represents:

This is a riparian stand (high density). R+ have a multi-species, multi-aged stand structure. Seedlings and saplings are present, as are hardwoods and minor species. Snags and woody debris are present.

What is noteworthy:

- Trees of many sizes and species, with variable spacing
- Hardwoods are common, minor species are present
- Younger trees and canopy gaps are present
- No snags or down logs
- Compare with Middle -age and plantation stands on preceding pages

StdID:0000000116 Regm: NONE Year: 2008 0000116A.SVS



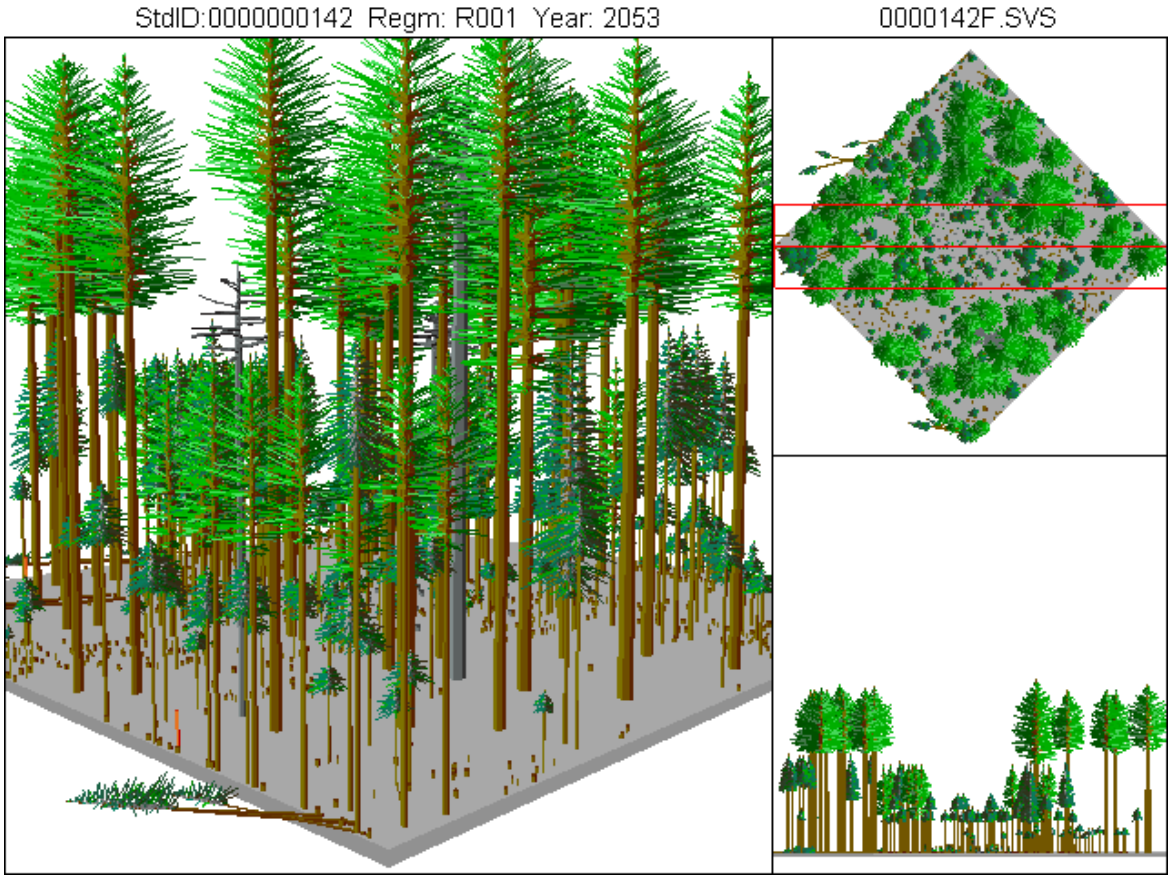
Type M+, Stand 124, Thinning simulation at year 2053

What this represents:

This is a Middle-age stand that received three simulated thinning harvests over a 45-year period, using a combination of patch cuts to establish new seedlings and thinning to encourage tree crown growth. Many characteristics of old growth forests are developing.

What is noteworthy:

- Trees of many sizes and ages, with variable spacing
- Younger trees have developed in canopy gaps
- Snags and down logs are common (gray trees and logs on forest floor)
- Compare with Middle -age and Old Growth stands on preceding pages



Recommendations

This inventory and report provides insight into key natural resources of the Corvallis Forest, and serves as an important record of property baseline conditions. To best inform managers and guide future management decisions we conclude with these recommendations:

1. Attach this report to the Corvallis Forest Stewardship Plan (CFSP)
2. Incorporate new vegetation type classifications and vegetation type map into the CFSP
3. Attach the Understory Vegetation Baseline Monitoring Report to the CFSP
4. Update this inventory every 10 years

Appendix: Figures & Reports

How to read a data table:

Report Title

Per acre averages

Total board foot volume, x!000

Log sorts based on pre-defined size splits

Totals

Vegetation Class Summary of Stands

2009 Corvallis Forest Inventory

Net of Buffers Acreage

VegLbl			Per Acre			1,000s			
Class	Area	Dbh	Stems	Basal	NetBF	Srt#1	Srt#2	Srt#3	NetMbf
M	295.0	13.7	289	296	47,150	3,840	2,844	7,226	13,910
M+	365.0	17.9	239	420	93,688	3,709	4,813	25,678	34,200
Mag	84.7	16.4	153	225	42,469	752	897	1,949	3,598
O1	567.0	21.7	144	369	92,513	3,567	3,218	45,669	52,454
O2	44.5	29.5	76	361	118,334	419	334	4,513	5,267
O3	118.3	15.0	328	402	92,285	1,068	703	9,145	10,916
P0	48.9	3.6	569	41	1,160	14	0	42	57
P1	379.2	9.1	344	156	13,428	4,965	127	0	5,092
P2	201.7	9.2	418	193	20,296	3,430	613	50	4,094
R-	98.1	8.0	545	188	10,693	620	119	309	1,049
R+	94.1	15.5	165	216	37,655	572	305	2,668	3,545
Grand Total:	2,297					22,958	13,974	97,249	134,180

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Glossary of table terms

Area = acreage
Basal = basal area, a relative measure of tree density
CF, Cf, Cubic = Cubic foot volume
CVTS = cubic foot volume of top and stem
Dbh = diameter at 4.5' from ground
Grs BF = gross board feet
Hgt = Height
NetBF = net board foot timber volume
NetMBF = net volume in thousand board feet
Qdbh = average diameter
SI = Site Index, a measure of site productivity
Sp = species
Stems = number of trees (per acre)
VegLbl = vegetation type
Weight = weight in pounds

About this table: This is a summary of tree species, showing average size (diameter, height), relative stocking (basal area), and timber volumes.
Why it's important: It allows managers to track growth over time, and the relative abundance of each species.

Species Summary

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimum Merch DBH*

							Per Acre					Totals	
	Acres	Sp	QDbh	Hgt	CU/Log	BU/Log	Basal	Stems	Logs	NetCF	NetBF	CUNITS	NetMbf
		BC	27.8	73	35	149	0	0	0	2	9	51	22
		BM	17.0	89	14	58	22	14	36	483	2,055	11,093	4,720
		CX	14.0	130	17	86	0	0	0	3	13	62	30
		DF	22.2	107	46	254	237	88	212	9,795	53,831	225,001	123,659
		GC	10.6	68	6	24	0	1	1	5	21	110	47
		GF	15.1	92	25	117	9	8	12	311	1,456	7,141	3,345
		OA	18.0	76	15	61	0	0	0	3	12	68	27
		PY	10.3	32	4	12	0	0	0	0	1	9	3
		RA	13.0	76	10	38	2	2	5	51	201	1,162	462
		RC	23.8	87	49	250	3	1	2	119	608	2,735	1,396
		WH	12.2	89	16	72	1	1	2	37	165	849	380
Sum:	2,297.1		**20.9**	**103**	**40**	**215**	**276**	**116**	**271**	**10,808**	**58,373**	**248,280**	**134,091**

13-Apr-10 09:16 AM TM-Species Summary ***Page 1 of 1***

Key: BC – black cherry, BM – bigleaf maple, CX – other conifer, DF – Douglas fir, GC – chinquapin, GF – grand fir, OA – Oregon oak, PY – Pacific yew, RA – red alder, RC – western redcedar, WH - western hemlock

About this table: This is a summary by vegetation class, showing average size (diameter, height), relative stocking (basal area), timber volumes and grades (sorts). Why it's important: It allows managers to compare differences between vegetation classes.

Vegetation Class Summary of Stands

2009 Corvallis Forest Inventory

Net of Buffers Acreage

VegLbl			Per Acre			1,000s			
Class	Area	Dbh	Stems	Basal	NetBF	Srt#1	Srt#2	Srt#3	NetMbf
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M+	365.0	17.9	239	420	93,688	3,709	4,813	25,678	34,200
Mag	84.7	16.4	153	225	42,469	752	897	1,949	3,598
O1	567.0	21.7	144	369	92,513	3,567	3,218	45,669	52,454
O2	44.5	29.5	76	361	118,334	419	334	4,513	5,267
O3	118.3	15.0	328	402	92,285	1,068	703	9,145	10,916
P0	48.9	3.6	569	41	1,160	14	0	42	57
P1	379.2	9.1	344	156	13,428	4,965	127	0	5,092
P2	201.7	9.2	418	193	20,296	3,430	613	50	4,094
R-	98.1	8.0	545	188	10,693	620	119	309	1,049
R+	94.1	15.5	165	216	37,655	572	305	2,668	3,545
Grand Total:	**2,297**					**22,958**	**13,974**	**97,249**	**134,180**

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Note: Logs are sorted by diameter: Srt#1 = logs 6-12"dbh, Srt#2 = logs 12-16"dbh, Srt#3 = logs >16"

About this table: This is a species breakdown for each stand, showing tree and timber information by species for trees >5.5" dbh.
Why it's important: It gives managers specific timber and stocking information for each stand to guide management decisions.

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

Page: 1 of 16
4/9/2010

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	Site	Area	Age	Sp	QDbh	Htt	Basal	Stems	Logs	Cf/Log	Bf/Log	NetCF	NetBF	CUNITS	NetMbf
100	112	49.8	54												
				BM	20.0	75	11	5	13	16	61	205	772	102	38
				DF	22.6	121	141	50	144	39	194	5,573	27,989	2,774	1,393
				GC	10.0	65	2	3	3	5	18	14	54	7	3
				GF	17.6	82	10	6	10	29	134	304	1,402	151	70
				OA	18.0	76	7	4	9	15	61	137	541	68	27
				RA	15.1	109	3	3	8	14	63	109	495	54	25
					21.2	**109**	**173**	**71**	**187**	**20**	**88**	**6,342**	**31,254**	**3,157**	**1,556**
108	138	28.4	27												
				DF	12.9	87	183	202	346	15	61	5,104	21,002	1,451	597
					12.9	**87**	**183**	**202**	**346**	**15**	**61**	**5,104**	**21,002**	**1,451**	**597**
109	135	24.2	19												
				DF	9.8	62	45	85	85	9	36	806	3,072	195	74
					9.8	**62**	**45**	**85**	**85**	**9**	**36**	**806**	**3,072**	**195**	**74**
110	0	21.2	0												
				BM	14.6	71	18	16	31	5	15	142	453	30	10
				DF	49.4	199	290	22	119	117	724	13,954	86,333	2,955	1,829
				GF	36.5	175	18	2	12	74	438	927	5,470	196	116
					38.7	**147**	**327**	**40**	**163**	**65**	**392**	**15,024**	**92,256**	**3,182**	**1,954**
111	121	17.1	22												
				DF	9.9	59	84	156	159	9	32	1,395	5,021	239	86
					9.9	**59**	**84**	**156**	**159**	**9**	**32**	**1,395**	**5,021**	**239**	**86**
112	0	6.9	0												
				BM	30.2	82	41	8	25	27	120	663	2,957	46	21
				DF	48.0	158	204	16	71	124	733	8,735	51,796	607	360
				GF	17.0	89	14	9	17	24	90	413	1,559	29	11

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
					37.8	**121**	**259**	**33**	**113**	**58**	**314**	**9,811**	**56,312**	**682**	**391**
113	230	47.5	37												
				BM	20.8	90	16	7	17	21	92	365	1,555	173	74
				DF	42.9	193	310	31	159	98	596	15,599	94,866	7,416	4,510
				GF	12.0	62	25	32	25	21	85	530	2,108	252	100
					30.4	**122**	**352**	**70**	**201**	**47**	**258**	**16,494**	**98,529**	**7,841**	**4,684**
114	0	6.8	26												
				BM	15.1	86	5	4	9	12	49	104	427	7	3
				DF	14.0	89	165	155	269	18	72	4,762	19,474	325	133
				RA	12.0	101	1	1	2	10	41	25	98	2	1
				WH	9.0	60	1	2	2	9	38	17	69	1	0
					13.9	**89**	**171**	**162**	**282**	**12**	**50**	**4,908**	**20,068**	**335**	**137**
115	0	7.3	26												
				BM	15.1	86	5	4	9	12	49	104	427	8	3
				DF	14.0	89	165	155	269	18	72	4,762	19,474	347	142
				RA	12.0	101	1	1	2	10	41	25	98	2	1
				WH	9.0	60	1	2	2	9	38	17	69	1	1
					13.9	**89**	**171**	**162**	**282**	**12**	**50**	**4,908**	**20,068**	**357**	**146**
116	115	26.0	31												
				BM	14.3	58	19	17	29	9	33	256	961	67	25
				DF	17.6	101	41	24	52	25	110	1,310	5,647	340	147
				GF	13.7	68	16	15	22	19	79	423	1,753	110	46
				PY	8.0	33	3	9	0	0	0	0	0	0	0
				RA	13.7	81	47	46	106	10	41	1,077	4,320	280	112
					14.4	**76**	**126**	**111**	**208**	**16**	**66**	**3,066**	**12,682**	**796**	**329**
118	0	2.5	3												

Catalog - Merch Species, Volumes Report

4/9/2010

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				*Totals*	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
				BM	15.6	94	25	19	46	12	54	537	2,459	13	6
				CX	14.0	130	1	1	3	17	86	53	257	1	1
				DF	34.1	147	331	52	198	75	433	14,863	85,621	372	214
				GF	14.4	80	24	21	34	21	93	715	3,128	18	8
				RC	25.8	93	2	1	2	55	278	85	427	2	1
					27.4	**121**	**383**	**93**	**281**	**36**	**189**	**16,251**	**91,892**	**406**	**230**
119	105	81.6	145												
				BM	15.2	99	17	13	36	13	57	462	2,023	376	165
				DF	29.6	143	367	77	278	57	313	15,810	87,165	12,895	7,109
				GC	12.0	58	4	5	11	6	22	67	239	54	19
				GF	18.5	91	4	2	4	28	100	126	445	103	36
					27.1	**131**	**392**	**97**	**329**	**26**	**123**	**16,465**	**89,872**	**13,429**	**7,330**
120	75	57.1	46												
				BC	27.8	73	2	0	1	35	149	52	221	30	13
				BM	16.1	64	69	49	102	11	42	1,152	4,238	657	242
				DF	18.6	82	21	11	21	28	120	594	2,507	339	143
				GF	19.8	80	12	5	10	30	114	312	1,190	178	68
				PY	10.9	29	3	5	2	0	0	0	0	0	0
				RA	12.8	69	28	31	64	9	34	574	2,179	328	124
				RC	21.9	83	4	2	3	31	130	97	408	55	23
					15.7	**67**	**139**	**103**	**203**	**21**	**84**	**2,780**	**10,741**	**1,587**	**613**
121	0	9.9	25												
				BM	11.2	68	1	2	3	6	24	19	73	2	1
				DF	11.5	76	134	186	255	12	50	3,178	12,889	315	128
				WH	11.2	70	2	4	5	13	52	64	252	6	2
					11.5	**76**	**137**	**191**	**263**	**11**	**42**	**3,261**	**13,213**	**323**	**131**

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
122	0	4.5	3												
				BM	15.6	94	25	19	46	12	54	537	2,459	24	11
				CX	14.0	130	1	1	3	17	86	53	257	2	1
				DF	34.1	147	331	52	198	75	433	14,863	85,621	664	383
				GF	14.4	80	24	21	34	21	93	715	3,128	32	14
				RC	25.8	93	2	1	2	55	278	85	427	4	2
					27.4	**121**	**383**	**93**	**281**	**36**	**189**	**16,251**	**91,892**	**726**	**411**
123	0	15.8	26												
				BM	15.1	86	5	4	9	12	49	104	427	16	7
				DF	14.0	89	165	155	269	18	72	4,762	19,474	753	308
				RA	12.0	101	1	1	2	10	41	25	98	4	2
				WH	9.0	60	1	2	2	9	38	17	69	3	1
					13.9	**89**	**171**	**162**	**282**	**12**	**50**	**4,908**	**20,068**	**776**	**317**
124	0	34.9	22												
				BM	18.0	93	30	17	48	15	64	729	3,098	254	108
				DF	40.1	173	307	35	160	89	532	14,347	85,273	5,001	2,973
				GF	13.8	89	18	18	24	23	109	562	2,657	196	93
				RC	37.3	127	5	1	2	89	486	201	1,099	70	38
					30.7	**132**	**360**	**70**	**235**	**54**	**298**	**15,840**	**92,127**	**5,522**	**3,212**
125	135	65.7	29												
				DF	13.1	86	167	177	312	15	60	4,674	18,625	3,071	1,224
					13.1	**86**	**167**	**177**	**312**	**15**	**60**	**4,674**	**18,625**	**3,071**	**1,224**
126	131	13.2	26												
				DF	13.0	90	181	195	335	16	66	5,276	21,918	694	288
					13.0	**90**	**181**	**195**	**335**	**16**	**66**	**5,276**	**21,918**	**694**	**288**
127	0	2.8	22												

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
				BM	18.0	93	30	17	48	15	64	729	3,098	21	9
				DF	40.1	173	307	35	160	89	532	14,347	85,273	406	241
				GF	13.8	89	18	18	24	23	109	562	2,657	16	8
				RC	37.3	127	5	1	2	89	486	201	1,099	6	3
					30.7	**132**	**360**	**70**	**235**	**54**	**298**	**15,840**	**92,127**	**448**	**261**
128	0	4.9	0												
				BM	27.1	103	30	7	24	26	124	634	2,963	31	14
				DF	55.3	221	50	3	18	146	939	2,592	16,726	127	82
				RA	13.8	75	25	24	51	11	43	540	2,168	26	11
				RC	33.8	125	10	2	5	36	182	174	875	8	4
					24.1	**95**	**115**	**36**	**98**	**55**	**322**	**3,939**	**22,732**	**193**	**111**
129	0	121.1	0												
				BM	15.0	115	14	11	33	13	59	423	1,952	512	236
				DF	40.7	163	354	39	168	98	594	16,520	99,845	20,001	12,088
					36.6	**152**	**368**	**50**	**201**	**55**	**326**	**16,943**	**101,797**	**20,513**	**12,325**
130	0	17.0	25												
				BM	11.2	68	1	2	3	6	24	19	73	3	1
				DF	11.5	76	134	186	255	12	50	3,178	12,889	541	220
				WH	11.2	70	2	4	5	13	52	64	252	11	4
					11.5	**76**	**137**	**191**	**263**	**11**	**42**	**3,261**	**13,213**	**556**	**225**
131	0	8.8	26												
				BM	15.1	86	5	4	9	12	49	104	427	9	4
				DF	14.0	89	165	155	269	18	72	4,762	19,474	418	171
				RA	12.0	101	1	1	2	10	41	25	98	2	1
				WH	9.0	60	1	2	2	9	38	17	69	1	1
					13.9	**89**	**171**	**162**	**282**	**12**	**50**	**4,908**	**20,068**	**430**	**176**

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
132	0	8.9	26												
				BM	15.1	86	5	4	9	12	49	104	427	9	4
				DF	14.0	89	165	155	269	18	72	4,762	19,474	422	173
				RA	12.0	101	1	1	2	10	41	25	98	2	1
				WH	9.0	60	1	2	2	9	38	17	69	1	1
					13.9	**89**	**171**	**162**	**282**	**12**	**50**	**4,908**	**20,068**	**435**	**178**
133	0	10.7	25												
				BM	11.2	68	1	2	3	6	24	19	73	2	1
				DF	11.5	76	134	186	255	12	50	3,178	12,889	339	138
				WH	11.2	70	2	4	5	13	52	64	252	7	3
					11.5	**76**	**137**	**191**	**263**	**11**	**42**	**3,261**	**13,213**	**348**	**141**
134	0	41.0	44												
				BC	27.8	73	2	0	1	35	149	52	221	21	9
				BM	16.5	64	67	45	96	12	43	1,127	4,146	462	170
				DF	18.6	82	21	11	21	28	120	594	2,507	243	103
				GF	19.8	80	12	5	10	30	114	312	1,190	128	49
				PY	10.9	28	3	5	2	0	0	0	0	0	0
				RA	12.8	69	28	31	64	9	34	574	2,179	235	89
				RC	21.9	78	4	2	2	42	176	93	385	38	16
					15.8	**67**	**137**	**100**	**197**	**22**	**91**	**2,751**	**10,627**	**1,128**	**436**
135	0	18.6	22												
				BM	18.0	93	30	17	48	15	64	729	3,098	135	58
				DF	40.1	173	307	35	160	89	532	14,347	85,273	2,664	1,584
				GF	13.8	89	18	18	24	23	109	562	2,657	104	49
				RC	37.3	127	5	1	2	89	486	201	1,099	37	20
					30.7	**132**	**360**	**70**	**235**	**54**	**298**	**15,840**	**92,127**	**2,941**	**1,711**

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
137	135	96.8	116												
				BM	18.1	121	30	17	51	18	83	915	4,252	886	411
				DF	39.4	179	322	38	181	86	503	15,490	91,034	14,991	8,810
					34.3	**161**	**351**	**55**	**232**	**52**	**293**	**16,405**	**95,286**	**15,877**	**9,222**
139	121	46.2	58												
				DF	27.0	144	339	85	303	46	245	14,078	74,084	6,501	3,421
					27.0	**144**	**339**	**85**	**303**	**46**	**245**	**14,078**	**74,084**	**6,501**	**3,421**
141	0	3.5	0												
				DF	47.2	192	563	46	239	114	694	27,228	165,995	950	579
					47.2	**192**	**563**	**46**	**239**	**114**	**694**	**27,228**	**165,995**	**950**	**579**
142	125	25.3	108												
				BM	18.4	142	18	10	39	16	75	627	2,950	158	75
				DF	34.7	173	272	41	191	68	392	12,910	74,646	3,262	1,886
					32.2	**167**	**290**	**51**	**230**	**42**	**233**	**13,537**	**77,597**	**3,421**	**1,961**
200	105	136.5	67												
				BM	17.1	71	40	25	58	13	50	762	2,877	1,040	393
				DF	15.4	91	228	177	332	22	97	7,252	32,247	9,902	4,403
				GC	10.0	73	4	7	7	5	27	34	180	47	25
				GF	20.5	83	15	6	11	42	194	468	2,136	640	292
					15.6	**88**	**287**	**215**	**407**	**21**	**92**	**8,517**	**37,440**	**11,628**	**5,112**
201	92	11.0	84												
				BM	38.0	155	11	1	7	57	314	392	2,166	43	24
				DF	21.4	101	196	78	173	42	218	7,352	37,769	807	415
				GF	16.3	114	76	53	118	25	128	2,927	15,092	321	166
				RC	50.0	162	11	1	4	124	720	497	2,873	55	32

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

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										Per Acre				Totals	
Stand	Site	Area	Age	Sp	QDbh	Htt	Basal	Stems	Logs	Cf/Log	Bf/Log	NetCF	NetBF	CUNITS	NetMbf
					20.1	**107**	**294**	**133**	**302**	**62**	**345**	**11,168**	**57,900**	**1,226**	**636**
202	0	22.4	25												
				BM	11.2	68	1	2	3	6	24	19	73	4	2
				DF	11.5	76	134	186	255	12	50	3,178	12,889	713	289
				WH	11.2	70	2	4	5	13	52	64	252	14	6
					11.5	**76**	**137**	**191**	**263**	**11**	**42**	**3,261**	**13,213**	**731**	**296**
203	0	30.5	22												
				BM	18.0	93	30	17	48	15	64	729	3,098	222	94
				DF	40.1	173	307	35	160	89	532	14,347	85,273	4,374	2,600
				GF	13.8	89	18	18	24	23	109	562	2,657	171	81
				RC	37.3	127	5	1	2	89	486	201	1,099	61	34
					30.7	**132**	**360**	**70**	**235**	**54**	**298**	**15,840**	**92,127**	**4,830**	**2,809**
204	0	19.8	15												
				BM	18.0	78	2	1	3	12	48	42	163	8	3
				DF	61.0	163	10	0	2	154	944	351	2,157	70	43
					36.8	**104**	**12**	**2**	**6**	**83**	**496**	**393**	**2,320**	**78**	**46**
205	0	60.5	0												
				BM	18.5	102	47	25	77	15	66	1,149	5,111	696	309
				DF	29.8	107	131	27	73	76	438	5,570	32,045	3,373	1,940
				GF	24.8	158	19	6	22	42	212	938	4,764	568	288
				RC	18.4	89	28	15	35	27	128	942	4,484	570	271
					23.8	**106**	**225**	**73**	**208**	**40**	**211**	**8,600**	**46,405**	**5,207**	**2,810**
206	125	51.7	50												
				BM	15.7	102	27	20	56	6	27	353	1,528	182	79
				DF	22.5	134	223	81	250	37	186	9,128	46,437	4,723	2,403
				GF	28.0	151	3	1	3	50	261	157	815	81	42

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

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										Per Acre				Totals	
Stand	Site	Area	Age	Sp	QDbh	Htt	Basal	Stems	Logs	Cf/Log	Bf/Log	NetCF	NetBF	CUNITS	NetMbf
					21.4	**128**	**253**	**101**	**308**	**31**	**158**	**9,638**	**48,780**	**4,986**	**2,524**
300	0	16.6	0												
				DF	30.4	247	400	80	456	55	335	24,981	152,571	4,157	2,539
					30.4	**247**	**400**	**80**	**456**	**55**	**335**	**24,981**	**152,571**	**4,157**	**2,539**
301	125	37.1	26												
				BM	11.0	77	5	8	15	7	28	103	426	38	16
				DF	9.9	75	100	187	211	10	45	2,115	9,395	785	349
					10.0	**75**	**105**	**194**	**226**	**8**	**36**	**2,217**	**9,821**	**823**	**365**
302	105	20.6	37												
				BM	18.6	71	35	18	40	12	46	475	1,830	98	38
				DF	29.9	126	11	2	8	54	274	421	2,156	87	45
				GF	22.5	76	2	1	1	36	124	48	163	10	3
				PY	16.0	71	2	1	3	17	52	44	136	9	3
				RA	12.9	81	36	40	96	9	41	908	3,942	187	81
				RC	33.7	100	11	2	4	51	242	225	1,059	46	22
					16.6	**80**	**96**	**64**	**152**	**30**	**130**	**2,120**	**9,286**	**438**	**192**
303	125	76.2	29												
				DF	11.1	83	156	231	351	11	47	3,948	16,593	3,007	1,264
					11.1	**83**	**156**	**231**	**351**	**11**	**47**	**3,948**	**16,593**	**3,007**	**1,264**
304	0	18.7	22												
				BM	18.0	93	30	17	48	15	64	729	3,098	136	58
				DF	40.1	173	307	35	160	89	532	14,347	85,273	2,679	1,592
				GF	13.8	89	18	18	24	23	109	562	2,657	105	50
				RC	37.3	127	5	1	2	89	486	201	1,099	38	21
					30.7	**132**	**360**	**70**	**235**	**54**	**298**	**15,840**	**92,127**	**2,957**	**1,720**

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
305	144	2.8	15												
				DF	8.7	56	30	73	73	6	22	437	1,576	12	4
				WH	11.4	57	5	7	7	14	48	101	335	3	1
					8.9	**56**	**35**	**80**	**80**	**10**	**35**	**538**	**1,911**	**15**	**5**
306	141	34.9	26												
				BM	15.1	86	20	16	37	12	49	438	1,808	153	63
				DF	14.2	99	164	148	298	18	75	5,268	22,521	1,840	786
				RA	12.0	101	4	5	10	10	40	107	413	37	14
					14.3	**98**	**188**	**169**	**345**	**13**	**55**	**5,813**	**24,742**	**2,030**	**864**
400	138	37.7	37												
				DF	15.6	98	207	157	328	20	80	6,503	26,228	2,453	989
					15.6	**98**	**207**	**157**	**328**	**20**	**80**	**6,503**	**26,228**	**2,453**	**989**
401	112	48.0	127												
				BM	15.0	98	59	48	144	11	44	1,525	6,268	732	301
				DF	31.5	163	293	54	226	60	337	13,620	76,222	6,535	3,657
					25.1	**132**	**352**	**102**	**370**	**35**	**190**	**15,145**	**82,489**	**7,266**	**3,958**
402	0	88.5	0												
				BM	18.6	60	47	25	51	13	46	679	2,356	601	208
				DF	40.3	183	229	26	126	86	508	10,820	64,166	9,574	5,678
				GF	17.6	68	19	12	18	39	197	687	3,496	608	309
					29.5	**113**	**295**	**62**	**195**	**46**	**251**	**12,185**	**70,018**	**10,783**	**6,196**
403	0	42.6	0												
				BM	20.0	98	48	22	62	16	70	1,007	4,373	429	186
				DF	38.9	152	176	21	84	96	583	8,058	48,732	3,435	2,077
				GF	18.4	84	29	16	31	35	181	1,081	5,534	461	236
				RC	20.9	70	55	23	38	48	238	1,817	9,051	775	386

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
				WH	26.0	105	4	1	3	46	212	138	635	59	27
					26.2	**102**	**312**	**83**	**217**	**48**	**257**	**12,101**	**68,325**	**5,159**	**2,913**
404	118	6.3	108												
				DF	24.7	141	500	150	528	39	212	20,634	111,974	1,298	704
				GF	13.0	126	63	68	203	13	63	2,660	12,883	167	81
					21.8	**136**	**562**	**218**	**731**	**26**	**138**	**23,294**	**124,857**	**1,465**	**785**
405	0	10.2	0												
				DF	34.0	160	354	56	225	75	432	16,810	97,330	1,710	990
					34.0	**160**	**354**	**56**	**225**	**75**	**432**	**16,810**	**97,330**	**1,710**	**990**
407	82	30.1	1												
				BM	19.1	135	47	24	94	17	84	1,651	7,886	497	238
				DF	29.5	138	313	66	215	61	331	13,206	71,178	3,979	2,145
					27.1	**137**	**359**	**90**	**309**	**39**	**207**	**14,857**	**79,064**	**4,476**	**2,382**
408	125	34.2	24												
				BM	11.5	58	4	6	11	5	20	60	222	20	8
				DF	12.6	66	100	115	130	16	54	2,014	7,066	689	242
					12.6	**65**	**104**	**120**	**141**	**10**	**37**	**2,074**	**7,288**	**710**	**249**
409	98	53.6	141												
				DF	37.5	154	363	47	187	88	506	16,505	94,472	8,845	5,063
				WH	14.0	134	18	17	51	18	86	910	4,351	488	233
					32.9	**149**	**381**	**64**	**237**	**53**	**296**	**17,414**	**98,823**	**9,332**	**5,296**
500	115	20.0	145												
				BM	26.4	164	5	1	7	31	154	210	1,052	42	21
				CX	14.0	130	5	5	15	17	85	256	1,250	51	25
				DF	40.7	177	318	35	170	89	530	15,066	90,205	3,013	1,804

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
				GF	13.8	46	42	40	48	18	65	849	3,108	170	62
				RC	19.0	82	5	3	5	26	95	139	503	28	10
					28.6	**108**	**375**	**84**	**245**	**36**	**186**	**16,520**	**96,118**	**3,304**	**1,922**
501	0	20.0	0												
				DF	38.2	157	563	71	306	75	427	22,901	130,488	4,578	2,608
				GF	12.8	87	125	139	184	19	75	3,462	13,903	692	278
					24.5	**111**	**688**	**210**	**490**	**47**	**251**	**26,363**	**144,391**	**5,270**	**2,886**
502	0	48.1	0												
				DF	22.5	111	594	215	582	44	230	25,433	133,868	12,231	6,438
					22.5	**111**	**594**	**215**	**582**	**44**	**230**	**25,433**	**133,868**	**12,231**	**6,438**
503	0	3.0	3												
				BM	15.6	94	25	19	46	12	54	537	2,459	16	7
				CX	14.0	130	1	1	3	17	86	53	257	2	1
				DF	34.1	147	331	52	198	75	433	14,863	85,621	452	260
				GF	14.4	80	24	21	34	21	93	715	3,128	22	10
				RC	25.8	93	2	1	2	55	278	85	427	3	1
					27.4	**121**	**383**	**93**	**281**	**36**	**189**	**16,251**	**91,892**	**494**	**279**
504	0	11.0	3												
				BM	15.6	94	25	19	46	12	54	537	2,459	59	27
				CX	14.0	130	1	1	3	17	86	53	257	6	3
				DF	34.1	147	331	52	198	75	433	14,863	85,621	1,629	938
				GF	14.4	80	24	21	34	21	93	715	3,128	78	34
				RC	25.8	93	2	1	2	55	278	85	427	9	5
					27.4	**121**	**383**	**93**	**281**	**36**	**189**	**16,251**	**91,892**	**1,781**	**1,007**
505	0	41.9	0												
				BM	23.7	171	27	9	44	26	135	1,133	5,929	474	248

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
				DF	44.0	172	232	22	106	93	545	9,789	57,653	4,099	2,414
				GF	11.7	171	36	48	104	15	87	1,594	8,997	667	377
				RC	37.3	127	54	7	24	89	486	2,132	11,640	893	487
					27.3	**168**	**348**	**86**	**277**	**56**	**313**	**14,649**	**84,218**	**6,133**	**3,526**
506	105	47.9	215												
				BM	18.2	97	28	16	38	13	57	496	2,140	238	102
				DF	26.3	122	358	95	272	52	273	14,141	74,366	6,769	3,560
					25.3	**118**	**386**	**111**	**310**	**33**	**165**	**14,638**	**76,505**	**7,007**	**3,662**
507	131	7.8	55												
				DF	15.9	117	297	216	526	21	99	11,278	51,830	877	403
					15.9	**117**	**297**	**216**	**526**	**21**	**99**	**11,278**	**51,830**	**877**	**403**
508	125	27.2	51												
				DF	25.0	142	281	83	283	42	213	11,815	60,330	3,210	1,639
					25.0	**142**	**281**	**83**	**283**	**42**	**213**	**11,815**	**60,330**	**3,210**	**1,639**
509	0	10.9	130												
				BM	16.3	105	21	14	45	13	55	565	2,476	62	27
				DF	28.4	136	379	86	288	57	316	16,458	90,850	1,801	994
				GC	12.0	58	1	1	2	6	23	15	55	2	1
				GF	12.7	61	4	5	6	17	65	105	402	11	4
				WH	14.0	134	3	3	8	18	85	138	658	15	7
					26.2	**127**	**408**	**109**	**349**	**22**	**109**	**17,280**	**94,441**	**1,890**	**1,033**
510	0	6.7	0												
				BM	14.6	71	10	9	17	5	15	80	254	5	2
				DF	36.2	223	339	47	257	72	438	18,432	112,413	1,233	752
				GF	36.5	175	10	1	7	74	438	519	3,063	35	20

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
					33.9	**198**	**359**	**57**	**281**	**50**	**297**	**19,031**	**115,730**	**1,273**	**774**
511	0	27.7	0												
				BM	17.3	102	97	60	168	16	72	2,760	12,046	764	333
				DF	34.6	155	236	36	136	77	452	10,548	61,634	2,920	1,706
				GF	21.0	117	42	17	47	33	147	1,534	6,901	425	191
					24.7	**121**	**375**	**113**	**351**	**42**	**224**	**14,843**	**80,582**	**4,108**	**2,231**
512	0	29.7	0												
				BM	14.1	82	49	45	103	8	32	785	3,297	233	98
				DF	35.9	156	312	45	179	80	462	14,349	82,675	4,259	2,454
					27.2	**119**	**361**	**90**	**282**	**44**	**247**	**15,134**	**85,972**	**4,492**	**2,552**
513	105	19.6	150												
				DF	37.7	166	438	56	250	72	418	17,932	104,328	3,516	2,046
				GF	11.9	57	63	82	92	14	52	1,337	4,794	262	94
					25.8	**102**	**500**	**138**	**342**	**43**	**235**	**19,269**	**109,122**	**3,779**	**2,140**
514	0	9.8	0												
				BM	15.1	132	47	38	94	17	86	1,567	8,095	153	79
				DF	44.5	146	437	41	162	111	629	18,068	102,092	1,763	996
				GF	13.0	67	16	17	17	18	67	310	1,127	30	11
					31.0	**127**	**500**	**95**	**273**	**49**	**260**	**19,945**	**111,314**	**1,947**	**1,086**
600	102	26.3	18												
				DF	9.1	46	3	7	7	5	19	35	125	9	3
				WH	9.1	41	2	4	4	6	19	25	79	7	2
					9.1	**44**	**5**	**11**	**11**	**6**	**19**	**60**	**204**	**16**	**5**
601	125	14.7	23												
				DF	12.0	71	130	166	208	14	53	2,821	10,946	414	160

Catalog - Merch Species, Volumes Report

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				Totals	
Stand	Site	Area	Age	Sp	QDbh	Htt	Basal	Stems	Logs	Cf/Log	Bf/Log	NetCF	NetBF	CUNITS	NetMbf
					12.0	**71**	**130**	**166**	**208**	**14**	**53**	**2,821**	**10,946**	**414**	**160**
602	0	3.0	25												
				BM	11.2	68	1	2	3	6	24	19	73	1	0
				DF	11.5	76	134	186	255	12	50	3,178	12,889	95	38
				WH	11.2	70	2	4	5	13	52	64	252	2	1
					11.5	**76**	**137**	**191**	**263**	**11**	**42**	**3,261**	**13,213**	**97**	**39**
603	102	28.5	23												
				DF	10.7	65	123	198	220	11	41	2,410	9,091	686	259
				WH	11.2	70	27	39	53	13	52	705	2,755	201	78
					10.8	**66**	**150**	**237**	**273**	**12**	**47**	**3,115**	**11,845**	**887**	**337**
604	0	4.7	25												
				BM	11.2	68	1	2	3	6	24	19	73	1	0
				DF	11.5	76	134	186	255	12	50	3,178	12,889	151	61
				WH	11.2	70	2	4	5	13	52	64	252	3	1
					11.5	**76**	**137**	**191**	**263**	**11**	**42**	**3,261**	**13,213**	**155**	**63**
605	118	47.2	34												
				DF	13.3	81	138	144	229	16	64	3,637	14,768	1,718	698
				WH	9.0	60	3	6	6	9	38	52	216	25	10
					13.1	**81**	**141**	**149**	**235**	**13**	**51**	**3,690**	**14,984**	**1,743**	**708**
607	0	6.4	26												
				BM	15.1	86	5	4	9	12	49	104	427	7	3
				DF	14.0	89	165	155	269	18	72	4,762	19,474	307	126
				RA	12.0	101	1	1	2	10	41	25	98	2	1
				WH	9.0	60	1	2	2	9	38	17	69	1	0
					13.9	**89**	**171**	**162**	**282**	**12**	**50**	**4,908**	**20,068**	**317**	**129**

Catalog - Merch Species, Volumes Report

4/9/2010

2009 Corvallis Forest Inventory

Net of Buffers Acreage

**Only Trees over Minimun Merch DBH*

										Per Acre				*Totals*	
Stand	**Site**	**Area**	**Age**	**Sp**	**QDbh**	**Htt**	**Basal**	**Stems**	**Logs**	**Cf/Log**	**Bf/Log**	**NetCF**	**NetBF**	**CUNITS**	**NetMbf**
609	0	18.2	22												
				BM	18.0	93	30	17	48	15	64	729	3,098	132	56
				DF	40.1	173	307	35	160	89	532	14,347	85,273	2,605	1,549
				GF	13.8	89	18	18	24	23	109	562	2,657	102	48
				RC	37.3	127	5	1	2	89	486	201	1,099	37	20
					30.7	**132**	**360**	**70**	**235**	**54**	**298**	**15,840**	**92,127**	**2,876**	**1,673**
Sum:	**2,297**	**2,296.5**			**20.5**	**102**	**21,009**	**9,139**	**),865**	**33**	**172**	**25,370**	**,474,011**	**248,280**	**134,091**

About this table: This shows number of snags per acre for each stand, and weights for snags greater than 10" dbh.
Why it's important: Snags are an important wildlife habitat. This shows managers where creating more snags could benefit wildlife.

Snags Summary

2009 Corvallis Forest Inventory

Forest Projection and Planning System

			Per Acre			Total (x 1000)		
Stand ID	**Acres**	**Trees**	**Cubic**	**Board**	**Weight**	**Cubic**	**Board**	**Weight**
100	**49.8**	64.7	0	0	0	0.0	0.0	0.0
108	**28.4**	83.3	0	0	0	0.0	0.0	0.0
109	**24.2**	25.0	0	0	0	0.0	0.0	0.0
111	**17.1**	60.0	0	0	0	0.0	0.0	0.0
112	**6.9**	12.5	11,084	62,770	332,123	77.0	436.3	2,308.3
113	**47.5**	5.0	0	0	0	0.0	0.0	0.0
116	**26.0**	18.8	2,718	15,392	81,441	70.6	399.6	2,114.2
119	**81.6**	23.3	1,417	8,026	42,465	115.6	654.6	3,463.5
120	**57.1**	21.3	0	0	0	0.0	0.0	0.0
125	**65.7**	25.0	0	0	0	0.0	0.0	0.0
126	**13.2**	60.0	0	0	0	0.0	0.0	0.0
129	**121.1**	12.5	4,631	26,227	138,769	560.7	3,175.3	16,800.8
137	**96.8**	54.5	49,064	277,866	1,470,215	4,748.4	26,891.8	142,287.4
139	**46.2**	50.0	525	2,975	15,743	24.3	137.4	727.0
141	**3.5**	50.0	0	0	0	0.0	0.0	0.0
142	**25.3**	41.7	6,719	38,054	201,345	169.8	961.6	5,088.0
200	**136.5**	40.0	0	0	0	0.0	0.0	0.0
204	**19.8**	120.0	0	0	0	0.0	0.0	0.0
205	**60.5**	50.0	0	0	0	0.0	0.0	0.0
206	**51.7**	79.2	0	0	0	0.0	0.0	0.0
300	**16.6**	50.0	69,814	395,384	2,092,017	1,161.7	6,579.2	34,811.2
301	**37.1**	70.0	0	0	0	0.0	0.0	0.0
302	**20.6**	9.1	24,480	138,639	733,555	505.5	2,862.9	15,147.9
303	**76.2**	90.0	0	0	0	0.0	0.0	0.0

13-Apr-10 09:29 AM TM-Snags Summary ***Page 1 of 3***

Note: Snags <32' tall show no cubic, board foot, or weight. Stands not listed had no snags recorded.

Snags Summary

2009 Corvallis Forest Inventory

Forest Projection and Planning System

			Per Acre			Total (x 1000)		
Stand ID	**Acres**	**Trees**	**Cubic**	**Board**	**Weight**	**Cubic**	**Board**	**Weight**
305	**2.8**	25.0	0	0	0	0.0	0.0	0.0
306	**34.9**	40.0	0	0	0	0.0	0.0	0.0
400	**37.7**	4.5	0	0	0	0.0	0.0	0.0
401	**48.0**	12.5	0	0	0	0.0	0.0	0.0
402	**88.5**	10.7	0	0	0	0.0	0.0	0.0
403	**42.6**	8.8	1,645	9,317	49,296	70.1	397.2	2,101.5
404	**6.3**	50.0	0	0	0	0.0	0.0	0.0
407	**30.1**	37.5	0	0	0	0.0	0.0	0.0
408	**34.2**	70.0	0	0	0	0.0	0.0	0.0
409	**53.6**	66.7	0	0	0	0.0	0.0	0.0
500	**20.0**	16.7	13,473	76,301	403,718	269.5	1,526.0	8,074.4
502	**48.1**	37.5	0	0	0	0.0	0.0	0.0
505	**41.9**	7.1	0	0	0	0.0	0.0	0.0
506	**47.9**	31.8	0	0	0	0.0	0.0	0.0
507	**7.8**	100.0	8,280	46,891	248,106	64.4	364.8	1,930.3
508	**27.2**	70.0	1,051	5,952	31,490	28.6	161.7	855.6
511	**27.7**	22.2	0	0	0	0.0	0.0	0.0
512	**29.7**	11.1	0	0	0	0.0	0.0	0.0
513	**19.6**	100.0	4,016	22,746	95,277	78.8	446.0	1,868.4
514	**9.8**	50.0	0	0	0	0.0	0.0	0.0
600	**26.2**	56.3	0	0	0	0.0	0.0	0.0
601	**14.7**	62.5	0	0	0	0.0	0.0	0.0
603	**28.5**	42.9	0	0	0	0.0	0.0	0.0
605	**47.2**	60.0	0	0	0	0.0	0.0	0.0

13-Apr-10 09:29 AM TM-Snags Summary ***Page 2 of 3***

Note: Snags <32’ tall show no cubic, board foot, or weight. Stands not listed had no snags recorded.

Snags Summary

2009 Corvallis Forest Inventory

Forest Projection and Planning System

			Per Acre			Total (x 1000)		
Stand ID	**Acres**	**Trees**	**Cubic**	**Board**	**Weight**	**Cubic**	**Board**	**Weight**
	Grand Total:	40.3	4,172	23,627	124,756	7,944.8	44,994.4	237,578.2

13-Apr-10 09:29 AM TM-Snags Summary ***Page 3 of 3***

Note: Snags <32' tall show no cubic, board foot, or weight. Stands not listed had no snags recorded.

About this table: This shows amounts of woody debris (down logs) for each stand. Why it's important: Down logs important for stand structure, long-term site productivity, and wildlife habitat. This shows managers where creating more down logs could be a benefit.

Down Woody Debris Summary Report by Stand

2009 Corvallis Forest Inventory

Forest Projection and Planning System

			Per Acre			Total (x 1000)		
Stand ID	**Acres**	**Pieces**	**Cubic**	**Board**	**Weight**	**Cubic**	**Board**	**Weight**
100	**49.8**	24.4	265	1,287	7,866	13.2	64.0	391.6
108	**28.4**	75.0	1,406	9,097	42,138	40.0	258.6	1,198.0
109	**24.2**	8.7	102	493	3,055	2.5	11.9	73.8
110	**21.2**	69.2	2,854	18,322	85,533	60.5	388.1	1,811.6
111	**17.1**	20.8	388	2,696	11,347	6.6	46.2	194.3
112	**6.9**	26.0	1,441	9,562	43,182	10.0	66.5	300.1
113	**47.5**	20.8	685	2,971	20,027	32.6	141.2	952.1
116	**26.0**	26.0	445	2,754	13,332	11.5	71.5	346.1
119	**81.6**	43.7	510	2,851	15,285	41.6	232.5	1,246.7
120	**57.1**	16.0	648	4,510	18,038	37.0	257.4	1,029.3
125	**65.7**	34.6	393	2,220	11,766	25.8	145.8	773.1
126	**13.2**	48.5	3,095	22,908	92,744	40.7	301.5	1,220.5
128	**4.9**	34.6	627	1,115	18,468	3.1	5.5	90.3
137	**96.8**	31.5	679	4,367	20,351	65.7	422.7	1,969.6
139	**46.2**	34.6	465	1,982	13,948	21.5	91.5	644.1
142	**25.3**	63.5	485	1,428	14,532	12.3	36.1	367.2
200	**136.5**	30.0	1,054	7,519	31,433	143.9	1,026.6	4,291.9
201	**11.0**	62.3	3,599	26,043	105,690	39.5	285.9	1,160.5
204	**19.8**	27.7	381	2,118	11,404	7.5	42.0	225.9
205	**60.5**	41.5	836	4,790	25,042	50.6	290.1	1,516.3
206	**51.7**	28.8	1,261	6,470	37,789	65.2	334.7	1,955.2
302	**20.6**	72.4	3,723	26,411	107,320	76.9	545.4	2,216.2
303	**76.2**	27.7	573	3,617	17,167	43.6	275.5	1,307.6
306	**34.9**	73.8	8,802	67,989	261,690	307.4	2,374.2	9,138.2

Down Woody Debris Summary Report by Stand

2009 Corvallis Forest Inventory

Forest Projection and Planning System

			Per Acre			Total (x 1000)		
Stand ID	**Acres**	**Pieces**	**Cubic**	**Board**	**Weight**	**Cubic**	**Board**	**Weight**
400	**37.7**	22.0	469	2,989	14,043	17.7	112.8	529.7
401	**48.0**	69.2	4,007	29,840	120,079	192.3	1,431.7	5,761.4
402	**88.5**	17.3	1,299	7,077	38,920	114.9	626.2	3,444.0
403	**42.6**	42.8	3,214	22,770	94,906	137.0	970.7	4,045.9
404	**6.3**	34.6	508	2,795	12,062	3.2	17.6	75.9
405	**10.2**	23.1	168	877	4,764	1.7	8.9	48.5
407	**30.1**	26.0	1,335	9,778	40,014	40.2	294.6	1,205.6
409	**53.6**	57.7	2,556	18,524	69,066	137.0	992.7	3,701.3
500	**20.0**	14.8	138	759	3,761	2.8	15.2	75.2
502	**48.1**	8.7	102	493	3,055	4.9	23.7	146.9
505	**41.9**	24.7	542	2,022	14,503	22.7	84.7	607.3
506	**47.9**	53.5	2,534	18,431	75,947	121.3	882.3	3,635.6
507	**7.8**	103.8	785	4,055	23,533	6.1	31.6	183.1
508	**27.2**	72.7	1,010	5,656	30,276	27.5	153.7	822.6
511	**27.7**	50.0	953	4,815	26,178	26.4	133.3	724.6
512	**29.7**	38.5	840	5,379	25,039	24.9	159.7	743.2
513	**19.6**	86.5	3,839	26,799	109,792	75.3	525.5	2,153.0
514	**9.8**	8.7	454	3,206	13,614	4.4	31.3	132.9
600	**26.2**	38.9	1,191	8,138	35,677	31.3	213.6	936.5
601	**14.7**	17.3	750	5,343	22,477	11.0	78.3	329.5
603	**28.5**	34.6	2,455	18,696	73,551	69.9	532.3	2,094.0
605	**47.2**	27.7	1,631	11,936	48,861	77.0	563.9	2,308.2
	Grand Total:	36.5	1,330	8,985	39,238	2,308.6	15,599.4	68,124.7

About this table: This shows non-native plants found on the forest. Why it's important: It provides a baseline to assess impacts of management on invasive weeds

Understory vegetation / Invasive Species

Exotic plant species found on understory vegetation plots

Latin Name	Common Name	No. of Plots	Average Cover
Brachypodium sylvaticum*	False brome*	4	0.8%
Cirsium arvense	Canada thistle	2	0.1%
Cirsium vulgare	Bull thistle	3	0.1%
Digitalis purpurea	Foxglove	2	0.6%
Ilex aquifolium	English holly	1	1%
Leucanthemum vulgare	Ox-eye daisy	1	0.1%
Mycelis muralis	Wall lettuce	4	0.3%
Phalaris arundinacea*	Reed canarygrass*	1	0.1%
Poa trivialis ssp. trivialis	Rough bluegrass	3	0.1%
Prunus avium*	Sweet cherry*	2	3%
Rubus armeniacus*	Armenian blackberry*	4	3%
Senecio jacobaea	Tansy ragwort	1	0.1%

Particularly invasive plants are denoted with *

About this table: This and the following table are keys for the Plant Association map on page 8.

Riparian Plant Associations

Plant Association	Map Code	Notes
COCO6-ACCI/OXALI California Hazel-Vine Maple/Sorrel	CAO	Occurs in drier parts of the riparian zone. Overstory mostly Bigleaf Maple, mixed with Red Alder and Douglas Fir.
RUSP-ACCI Salmonberry-Vine Maple	RA	Occurs in riparian-upland transition zone mixed with Salmonberry/Sword Fern community and Grand Fir/Vine Maple/Sword Fern plant association.
RUSP/POMU Salmonberry/Sword Fern	RP	Occurs in riparian-upland transition zone mixed with Salmonberry-Vine Maple community and Grand Fir/Vine Maple/Sword Fern plant association.
RUSP/TOME-OXALI group Salmonberry/Piggyback Plant-Sorrel group	RTO	On active flood plains, streambanks and low terraces, usually with an overstory of Red Alder.

Upland Plant Associations

Plant Association	Map Code	Location/notes
PSME/MANE2 Douglas Fir-Cascade Oregon Grape	PM	Hot, dry, southerly aspect in the isolated parcel on upper Griffith Creek.
PSME/MANE2-GASH Douglas Fir-Cascade Oregon Grape-Salal	PMG	Hot, dry, southerly aspect in the isolated parcel on upper Griffith Creek.
ABGR/HODI/POMU - OAK Grand Fir/Oceanspray/Sword Fern	AHP/OAK	Lowest elevations along the entry road. Oak is an undefined plant association occurring on low elevation sites in and at the edges of the Willamette Valley. This mapping unit is a combination of the two plant associations.
ABGR/HODI/POMU Grand Fir/Oceanspray/Sword Fern	AHP	Mostly on dry, warm, southerly aspects in the northern portion of the watershed
ABGR/COCO6/VAHE Grand Fir/California Hazel/Inside-out Flower	ACV	On dry, warm, southerly aspects in the northern portion of the watershed and at the far eastern end near Highway 34.
ABGR/MANE2-GASH Grand Fir/Cascade Oregon Grape-Salal	AMG	Widespread on dry to mesic sites throughout the watershed.
ABGR/ACCI/POMU Grand Fir/Vine Maple/Sword Fern	AAP	Mesic to moist sites adjacent to riparian areas and scattered elsewhere. More common in the southern half of the watershed.
TSHE/ACCI-GASH/POMU Western Hemlock/Vine Maple-Salal/Sword Fern	TAGP	Dry-mesic sites at higher elevations in isolated parcel on upper Griffith Creek.
TSHE/MANE2-GASH Western Hemlock/Cascade Oregon Grape-Salal	TMG	Mesic sites on northerly aspects in upper Rock Creek area.
TSHE/MANE2/POMU Western Hemlock/Cascade Oregon Grape/Sword Fern	TMP	Dry-mesic sites at higher elevations in isolated parcel on upper Griffith Creek.
TSHE/ACCI/POMU Western Hemlock/ Vine Maple /Sword Fern	TAP	Mesic sites on northerly aspects at higher elevations in isolated parcel on upper Griffith Creek.

About this table: This is a species list for plants encountered in the 2010 understory vegetation survey.
Why it's important: It enables managers to monitor the impacts of management actions on plant species diversity and invasive species.

Plant species list

Total number of species: 139
Native species: 127 (91%)
Exotic Species: 12 (9%)

Key: T = Tree, S = Shrub, H = Herb; N = Native; E = Exotic

Form	N/I	Latin name	Common name
T	N	Abies grandis	Grand fir
T	N	Abies procera	Noble fir
S	N	Acer circinatum	Vine maple
T	N	Acer macrophyllum	Bigleaf maple
H	N	Achlys triphylla	Vanilla leaf
H	N	Actaea rubra	Western red baneberry
H	N	Adenocaulon bicolor	Trailplant
H	N	Adiantum aleuticum	Western maidenhair fern
T	N	Alnus rubra	Red alder
S	N	Amelanchier alnifolia ssp. semiintegrifolia	Pacific serviceberry
H	N	Anaphalis margaritacea	Pearly everlasting
H	N	Anemone deltoidea	Threeleaf anemone
H	N	Anisocarpus madioides	Woodland tarweed
H	N	Aquilegia formosa	Red columbine
T	N	Arbutus menziesii	Pacific madrone
H	N	Asarum caudatum	Western wild ginger
H	N	Athyrium filix-femina var. cyclosorum	Northwestern lady fern
H	N	Blechnum spicant	Deer fern
H	E	Brachypodium sylvaticum	False brome
H	N	Bromus vulgaris	Columbia brome
T	N	Calocedrus decurrens	Incense cedar
H	N	Calypso bulbosa var. occidentalis	Fairy slipper orchid
H	N	Camassia quamash ssp. maxima	Great camas
H	N	Campanula scouleri	Scouler's campanula
H	N	Cardamine angulata	Angled bittercress
H	N	Cardamine nuttallii var. nuttallii	Spring beauty
H	N	Carex hendersonii	Henderson's sedge
H	N	Carex leptopoda	Slender-foot sedge
S	N	Ceanothus sanguineus	Redstem ceanothus
H	N	Chimaphila menziesii	Little prince's pine
T	N	Chrysolepis chrysophylla var. chrysophylla	Golden chinquapin
H	N	Circaea alpina ssp. pacifica	Enchanter's nightshade
H	E	Cirsium arvense	Canada thistle
H	E	Cirsium vulgare	Bull thistle
H	N	Claytonia siberica	Candyflower
H	N	Collomia heterophylla	Varied leaf collomia

H	N	Corallorhiza maculata	Spotted coralroot
T	N	Cornus nuttallii	Pacific dogwood
S	N	Corylus cornuta ssp. californica	California hazel
H	N	Cynoglossum grande	Pacific hound's tongue
H	N	Delphinium trolliifolium	Poison larkspur
H	N	Dicentra formosa ssp. formosa	Bleedingheart
H	E	Digitalis purpurea	Foxglove
H	N	Elymus glaucus ssp. glaucus	Blue wildrye
H	N	Equisetum arvense	Common horsetail
H	N	Equisetum telmateia var. braunii	Giant horsetail
H	N	Erythronium oregonum	Oregon fawnlily
H	N	Eurybia radulina	Rough-leaved aster
H	N	Festuca occidentalis	Western fescue
H	N	Festuca subulata	Bearded fescue
H	N	Festuca subuliflora	Crinkle-awn fescue
H	N	Fragaria vesca ssp. bracteata	Woodland strawberry
T	N	Fraxinus latifolia	Oregon ash
H	N	Galium aparine	Cleavers
H	N	Galium triflorum	Fragrant bedstraw
S	N	Gaultheria shallon	Salal
H	N	Glyceria sp.	Mannagrass
H	N	Goodyera oblongifolia	Western rattlesnake plantain
H	N	Heracleum lanatum	Cow parsnip
H	N	Hieracium albiflorum	White flowered hawkweed
S	N	Holodiscus discolor var. discolor	Ocean spray
H	N	Hydrophyllum tenuipes	Pacific waterleaf
T	E	Ilex aquifolium	English holly
H	N	Iris tenax var. tenax	Oregon iris
H	E	Leucanthemum vulgare	Ox-eye daisy
H	N	Ligusticum apiifolium	Celery leaved lovage
H	N	Lilium columbianum	Columbia lily
H	N	Linnaea borealis var. longiflora	Western twinflower
H	N	Listera cordata	Heartleaf twayblade
S	N	Lonicera ciliosa	Orange honeysuckle
S	N	Lonicera hispidula var. hispidula	Hairy honeysuckle
H	N	Lotus sp.	Deervetch
H	N	Luzula comosa var. laxa	Wood rush
S	N	Mahonia aquifolium	Tall Oregon grape
S	N	Mahonia nervosa	Cascade Oregon grape
H	N	Maianthemum dilatatum	Beadruby
H	N	Maianthemum racemosum ssp. amplexicaule	Large false solomon's seal
H	N	Maianthemum stellatum	Starry false solomon's seal
H	N	Melica subulata	Alaska onion grass
H	N	Mertensia platyphylla	Western bluebells
H	N	Mimulus guttatus	Common monkeyflower
H	N	Mitella caulescens	Leafy mitrewort

H	N	Moehringia macrophylla	Bigleaf sandwort
H	N	Montia parvifolia	Littleleaf miner's lettuce
H	E	Mycelis muralis	Wall lettuce
H	N	Nemophila parviflora var. parviflora	Small flowered nemophila
S	N	Oemleria cerasiformis	Osoberry
H	N	Oenanthe sarmentosa	Pacific water parsley
H	N	Osmorhiza berteroi	Mountain sweet cicely
H	N	Oxalis oregana	Oregon wood sorrel
H	N	Petasites frigidus var. palmatus	Western coltsfoot
H	E	Phalaris arundinacea	Reed canarygrass
H	E	Poa trivialis ssp. trivialis	Rough bluegrass
H	N	Polypodium glycyrrhiza	Licorice fern
H	N	Polystichum munitum	Western sword fern
H	N	Prosartes smithii	Fairy lanterns
T	E	Prunus avium	Sweet cherry
T	N	Pseudotsuga menziesii var. menziesii	Douglas-fir
H	N	Pteridium aquilinum var. pubescens	Bracken fern
H	N	Pyrola picta	White vein pyrola
T	N	Quercus garryana var. garryana	Oregon white oak
H	N	Ranunculus occidentalis	Western buttercup
H	N	Ranunculus uncinatus	Little buttercup
S	N	Rhamnus purshiana	Cascara
S	N	Ribes divaricatum var. divaricatum	Straggly gooseberry
S	N	Rosa gymnocarpa	Baldhip rose
S	E	Rubus armeniacus	Armenian blackberry
S	N	Rubus parviflorus	Thimbleberry
S	N	Rubus spectabilis	Salmonberry
H	N	Rubus ursinus	Pacific dewberry
T	N	Salix scouleriana	Scouler's willow
H	N	Sanicula crassicaulis	Pacific snakeroot
H	N	Satureja douglasii	Yerba buena
H	N	Scirpus microcarpus	Small fruited bulrush
H	N	Scoliopus hallii	Fetid adder's tongue
H	E	Senecio jacobaea	Tansy ragwort
H	N	Stachys cooleyae	Cooley's hedgenettle
H	N	Stachys sp.	Hedgenettle
H	N	Stellaria crispa	Crisped starwort
H	N	Streptopus amplexifolius	Twistedstalk
S	N	Symphoricarpos albus var. laevigatus	Common snowberry
H	N	Synthyris reniformis	Snow queen
T	N	Taxus brevifolia	Pacific yew
H	N	Tellima grandiflora	Fringecup
H	N	Thalictrum occidentale	Western meadowrue
T	N	Thuja plicata	Western red cedar
H	N	Tolmiea menziesii	Piggyback plant
S	N	Toxicodendron diversilobum	Poison oak

H	N	Trientalis latifolia	Western starflower
H	N	Trillium albidum	Sessile trillium
H	N	Trillium ovatum ssp. ovatum	Western trillium
H	N	Trisetum cernuum	Nodding trisetum
T	N	Tsuga heterophylla	Western hemlock
S	N	Vaccinium parvifolium	Red huckleberry
H	N	Vancouveria hexandra	Inside-out flower
H	N	Vicia americana var. americana	American vetch
H	N	Viola glabella	Stream violet
H	N	Viola sempervirens	Evergreen violet
H	N	Xerophyllum tenax	Beargrass

About this table: This shows the statistical accuracy of inventory results for each vegetation type.
Why it's important:. This shows where more stand measurements may be needed.

Summary Error Statistics by Vegetation Type

2009 Corvallis Forest Inventory

Forest Projection and Planning System

Veg Label	# Plots	# Stands	Sampled Area	% Tpa Err	% BA Err	% Cub Err	% Brd Err
M	45	4	295	11.6	6.9	7.4	7.8
M+	49	8	354	13.8	6.5	6.4	6.5
Mag	30	3	85	16.6	6.4	7.1	7.7
O1	55	6	423	12.6	4.8	4.8	4.9
O2	5	2	38	55.3	29.3	33.6	33.8
O3	39	7	94	16.8	5.0	5.4	5.6
P0	15	3	49	20.6	17.0	18.2	25.5
P1	45	8	311	10.2	5.6	5.3	4.9
P2	40	5	148	17.2	3.6	4.2	5.6
R-	40	1	57	14.2	7.7	8.0	11.1
R+	40	4	94	16.8	7.3	9.1	10.4
Totals:	**403**	**51**	**1,948**				

09-Apr-10 02:21 PM XRVeg Error ***Page 1 of 1***

Note: All % Error at 1 standard deviation.