

X THE OG LOGGING THE OG PORTION OF THIS SALE UNIT DOES NOT MEET THE PURPOSE & NEED OF THIS SALE WHICH IS TO RESTORE PLANTATIONS. THIS IS NOT A PLANTATION.

Recommendations for sale unit: DROP THE OG AREA OF THE SALE COMPLETELY PART OF SALE UNIT NEXT TO THE ROAD COULD BE NON-COMMERCIALLY THINNED.

LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT 27803 Williams Lane Fossil, OR 97830

DATE 7/4/18 NTL FOREST UMATILLA DISTRICT WALLA WALLA PROJECT CLASS

UNIT 28 W OF MOTTET CREEK N OF SURVEYOR'S NAME KAREN, CHRISTY, MILES, GPS N45° 47.449' 7" NW CORNER SIMEDA ALG W 117° 50.806' 7" NW CORNER SIMEDA ALG

Subjective evaluation of area:

GREAT OG MOST MIXED CONIFER ON NW SIDE OF UNIT. FUN TO EXPLORE, LITTLE HIDDEN HANG OUT SPOTS. OG SECTION FEELS REJUVENATING. EXCITING DIVERSITY TO LEARN ABOUT RELATIONSHIP WITH THE EARTH. CREATED CONNECTION TO PRIMAL CIVILIZATION. SPIRITUAL CONNECTION TO GREATER RELATIONSHIP WITH LIFE AT LARGE.

Roadless area Never logged Plantation Many old growth logs and snags

X Old growth/mature forest: DEFINITELY NOT A PLANTATION AWAY FROM THE ROAD

Average tree size in "dbh": 13.5" GF - 13.5" WL

Examples of large tree diameter: 21" DF 28" GF 39" GF 38" GF 44" DF 28" ES 35" GF 39" GF # of old growth trees per acre: III WL LOG III ES III GF LOG III WL GF IES LOG III NLSNAG IWP 33" ES

X Previously logged approx. age of trees LARGE OG DF STUMPS & POSSIBLY OTHERS

Describe marking to cut: NONE SEEN

Former logging sign (skid trails, stumps) lack of regen., dense overstocked spindly thickets), describe: OG DF STUMP, SKID RAILS, OG DF STUMP

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine

Juniper 4 Doug Fir 3 Western Larch 1 Grand Fir Lodgepole Pine 2 Engleman Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder

Shasta Red Fir Sugar Pine 5 White Pine Incense Cedar other:

Tree seedlings (species, quantity): LOT OF GF, LOT OF ES, NOT MANY BUT SOME DF & WP

Quality and type of canopy closure, %: 50% MATURE & YOUNG GROWTH

X Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: LARGE OG GF, WL & 1 DF, LARGE OG FIR, WESTERN LARCH LOSS, IWP

% of defoliation - species and age of trees affected: LOTS OF LOWER BRANCH DEFOLIATION OF GF & WL DUE TO FOREST DENSITY

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): DEER TRAILS, SMALL PUNCHED BURROWS, DEER SCAT, WOODPECKER CALLS, PILEATED HEARD IN SALE UNIT, RUBY CROWNED KINGLET, BEAR FORAGING & SCAT, OLIVE SIDED FLY CATCHER & WESTERN TANGIER CALLS, DEER OR ELK GRAZING, BOBCAT OR LYNX SCAT, HERMIT THRUSH CALLS, WOODPECKER DRUMMING, RED BREASTED NUT HATCH

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: FLOWING PERENNIAL STREAM W/ ALDER BIG FERN, MOCS, SCORING RUSH, SHADY, MEANDERING CHANNEL W/ CULVERT (ADD. TO SW), FLOWING

Riparian buffers? Adjacent steep slopes? 150' BUFFER ON ABOVE STREAM NEEDED

Unusual plants? SPOTTED CORAL ROOT

Plant community types: SNOWBERRY, QUEEN'S CUP, PRINCE'S PINE, TWIN FLOWER, PINE GRASS

Soil type, quality, compaction level(s): DARK BROWN, LOAMY

Typical plants: CONEFLOWER, BRACKEN FERN, WILD STRAWBERRY, SWEET SCUM, STAR FLOWERED SOLOMON'S SEAL, THIMBLE BERRY, BOX FLOWER BOX WOOD, BENSTIMEN - SLENDER TALL, GLOBEBERRY, BEDSTRAW, ARNICA, PATHFINDER, SADRAPITE - PINE DROPS, RED BELLIED NUTCRACKER

TOTAL: 9 GF, 1 GF LOG, 2 GF SNAG, 1 WL LOG, 1 NLSNAG, 1 WP, 1 ES LOG

Steepness of slope/aspect of slope (direction it faces): VARIABLE TOPOGRAPHY MILD TO MODERATE SLOPING

Landslide risk, describe: N/A

Density of roads (per sq. mi): _____

Effects of livestock grazing: N/A

Evidence of Animal Damage Control activities: N/A

Evidence of bait stations for hunting, hunters' camps: N/A

Mining _____ Herbicide spraying _____ Gopher trappings/poison _____ Other: _____

Exotic weeds seen: BIRD'S FOOT TREE FOIL, GRASSES

Recreational use: PEOPLE DRIVING BY, CAMPING IN AREA, NEAR JUBILEE LAKE

Describe sale unit overall: NEAR ROAD MD MOSTLY YOUNG DENSE DF, BUT BACK IN UNIT NEAR

N SIDE LUSH OG MIXED CONIFER MOIST HABITAT WITH OG GF, ES, WL & APPROX 1 OG DF @

Surrounding area: contiguous forest high-graded forest _____ never logged area _____ canyon OF SNAG BIRDS

_____ roadless area(s) _____ wildlife corridor _____ meadow _____ grassland _____ rocky upland

_____ high desert _____ seedlings _____ pine plantation clear cut IN other cut: _____

public land, agency FS _____ private land, ownership NONE

riparian (specify): NONE SEEN

area of human habitation NONE

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions:

12⁵⁵ SURVEY HEADING PHOTO

12⁵⁸ ASTER FLOWER

13⁰¹ BIG MEADOW OPENING WITH BIRD (DOG)

13⁰¹ TYPICAL VIEW, DENSE ENOUGH TO ELIMINATE GROUND PLANTS, 13⁵⁸

13¹⁰ WHITE PINE TREE

13¹⁰ CONES AT TOP OF WHITE PINE

13¹⁴ PROBABLE OG DF STUMP BASED ON BARK

13¹⁸ SIMEDON MEASURING GF

13²⁰ BLOOMING BEARD'S CUP QUEEN LILY

13²⁴ BEAR FORAGING

13²³ SIMEDON WITH OG POSSIBLE WL LOG

13²⁵ MILES MEASURING GF

13²⁷ SPOTTED CORAL ROOT (x2)

13²⁹ MUSHROOM - ON 10'D GILLED

13³⁰ MILES MEASURING OG GF

13³⁰ SIMEDON MEASURING OG DF

13³¹ MILES MEASURING OG ES W/ YEW

13³² UN 10'D PLANT W/ SMALL SPACED WHITE FLOWERS, 5 PETALS, LONG STEMS & STAMENS, OAK LOOKING LEAVES

13³⁵ BORDER COLLIE EXHIBITING GOOD HIDING COVER

13⁴⁰ FRESH PILEATED FORAGING

13⁴⁰ SIMEDON MEASURING OG GF

13⁴¹ MILES NEXT TO OG DF STUMP

13⁴² BOBCAT OR LYNX SCAT

13⁴⁰ NEST OR ROOST HOLES PROBABLE PILEATED

13⁴⁷ PILEATED ROOST OR NEST HOLES

ON ANOTHER WL SNAG

13⁵³ AUG MEASURING OG GF

14⁰⁰ WESTERN COLUMBINE

14⁰⁷ UN 10'D FERN (x2) SPORE SIDE & TOP SIDE

14⁰⁹ BARK OF OG WP

14¹¹ UN 10'D PARASOL MUSHROOM (x2)

14¹³ AUG MEASURING OG ES

14¹⁴ MILES & SIMEDON W/ OG WP

14³⁸ LARGE BURROW

14⁴² YEW

16:49 - 16:51 - ADJACENT CREEK

Recommendations

for sale unit: **DROP!**

Very nice old growth moist mixed conifer habitat with lots of Pileated woodpecker & elk use.

LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT

27803 Williams Lane Fossil, OR 97830

DATE 7/6/18

NTL FOREST Umatilla DISTRICT Walla Walla PROJECT Glass Sale

UNIT Section 8, center, N1/4 SW 1/4 6413, SURVEYOR'S NAME Relic Eayrd Karen

500 Sag 160

Subjective evaluation of area: Apparently never logged

What's going on here? Why is this planned as a sale unit? Logging this would not be restoration! Apparently the Forest Service has not field surveyed this??

Roadless area Never logged Plantation Many old growth logs and snags

Old growth/mature forest: Very high quality old growth GF, DF, & ES habitat w/ lots of large tree, snags, & logs.

Average tree size in "dbh": variable. 41" DF 30.9 DF, 40" DF 44" DF 38.3 DF 31" ES 40" DF 41.5 DF

Examples of large tree diameter: # of old growth trees per acre: 15 GF, 7 DF, 2 GF snag 1 DF snag, 2 GF logs 35.5 ES

1 DF log, 1 ES log, 1 fir stump (30) (22 live)

Previously logged approx. age of trees Only one stump seen, no signs of past commercial logging.

Describe marking to cut: orange leave tree marking (S end)

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: No sign of former commercial logging

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine Juniper 2 Doug Fir Western Larch 2 Grand Fir Lodgepole Pine 3 Engleman Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder Shasta Red Fir Sugar Pine White Pine Incense Cedar other: RM maple

Tree seedlings (species, quantity): mostly GF, some ES

Quality and type of canopy closure, %: 100%

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: Large old growth GFs, DFs, & ES & large OG GF, DF, & ES logs

% of defoliation - species and age of trees affected: very green

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): deer trail, elk trail, elk tracks, bear foraging, western tanager, recent p woodpecker foraging, elk, red breasted nut hatch Sapsucker foraging, fresh Pileated woodpecker foraging.

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: none seen

Riparian buffers? Adjacent steep slopes? N/A

Unusual plants? Loral root, ghost pipe, or pine sap, un ID'd saph

Plant community types: pine grass, snowberry, prince's pine, bl huckleberry, queen's cup bead lily

Soil type, quality, compaction level(s): not as compacted as logged areas, med. brown loamy

Typical plants: birch leaf spirea, w rose, boxwood, w shrubs, ceanothus, serviceberry, OR grape, pathfinder meadow rue, pyrola picta, sweet cicly, bracken, sticky currant, Jacob's ladder, bonfire flower horsemint

Steepness of slope/aspect of slope (direction it faces): short 20° S/SW slope

Landslide risk, describe: N/A

Density of roads (per sq. mi): 4 mi / sq mi, 2.5 open roads

Effects of livestock grazing: none seen

Evidence of Animal Damage Control activities: X None seen

Evidence of bait stations for hunting, hunters' camps: X

Mining Herbicide spraying Gopher trappings/poison Other: _____

Exotic weeds seen: birdsfoot trefoil

Recreational use: _____

Describe sale unit overall: Consistent old growth moist mixed conifer with large live old growth Douglas firs, Grand firs & Engelmann spruce & lots of large OG snags & logs, apparently never logged with lots of wildlife sign, including pileated & elk,

Surrounding area: contiguous forest high-graded forest never logged area canyon elk,

roadless area(s) wildlife corridor meadow grassland rocky upland

high desert seedlings pine plantation clear cut other cut: _____

public land, agency FS private land, ownership None

riparian (specify): _____

area of human habitation None

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions: Karen's Canon 13:20 survey # heading & map

13:25-13:26 OG doug F R measuring 13:30 2x spotted coral root
13:36-Relic measuring a 40" dbh OG DF 13:37-Relic measuring a 46" dbh OG GF
13:40 OG GF snag 13:25 elk trail 13:47: cavity at base of DF snag, DF snag showing bear foraging, R measuring 44" DF 13:52 GF log 13:55 OG GF log
13:56 23° slope S-SW, trees bowed by unstable slope 14:18 bear foraging in OG GF log 14:20 pine sap or ghost pipe 13:22 R measuring ES 14:23 elk scat
14:24 OG GF snag 14:24 doug F snag 14:25 unID'd saph 14:26 R measuring GF tree
14:28 OG GF snag w/ PW foraging 14:30 R measuring GF tree 14:33 unID'd saph
14:33 OG WL log 14:34 fresh PW foraging 14:35 old PW foraging 14:35 GF log
14:36 OG forked GF log w/ big denning space 14:38 GF snag 14:39 R measuring 35.5 ES 14:40 2 OG GF snags, 2 OG GF live trees

OG DF	GF	snag	log	ES
1, 1, 1	5, 2, 1	1 DF	1 OG	1 stamp
- 1, 1, 1	1, 2, 2	1 GF	1 GF	
^	1, 1, 1		1 DF	
	1, 1		1 ES	
	15			

Recommendations
for sale unit:

LEAGUE OF WILDERNESS
DEFENDERS
BLUE MOUNTAINS
BIODIVERSITY PROJECT
27803 Williams Lane
Fossil, OR 97830

DATE 6/5/18 - AUG 08 MILES
NTL FOREST UMATELLA
DISTRICT WALLA WALLA
PROJECT GLASS
UNIT 45°49.110' 117°59.789'
SURVEYOR'S NAME NF-218 runs
N through unit

Drop - Several springs, creeks, seeps, ponds & other riparian zones that need buffer. Also, naturally recovering PP plantation.

Subjective evaluation of area:
Felt relatively lifeless except along the several creeks & springs.

SE corner of unit

Roadless area Never logged Plantation Many old growth logs and snags
 Old growth/mature forest:

Average tree size in "dbh": ~ 10-15" - Many mature 15-18" GF,
Examples of large tree diameter: 20" GF, 18" PP, 13" WL
of old growth trees per acre: N/A

Previously logged approx. age of trees OG Fir & Spruce
Describe marking to cut: Blue flagging (?) - Marks "Pint" scale - orange marking
Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe:
Large OG stumps, cable along decommissioned road

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine
Juniper Doug Fir Western Larch Grand Fir Lodgepole Pine Engelman
Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder
Shasta Red Fir Sugar Pine White Pine Incense Cedar other:

Tree seedlings (species, quantity): Mostly GF, some FS
Quality and type of canopy closure, %: 75% GF & PP, 50% Eastern portion of unit GF & PP

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: Likely historic fir & spruce

% of defoliation - species and age of trees affected: 80% on PP - sometimes @ the top too

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): Squirrel midden, wasp nest - not active, Bear foraging, Elk tracks near seep, Fresh pileated foraging on the ^{OG} snag

Riparian area in or adjacent to area/unit(s) (Spring, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: Spring in southern portion of unit another spring & creek in center of unit, seep @ center of unit, several seeps & springs, creeks thru to adjacent to unit

Riparian buffers? Adjacent steep slopes? Steep slope to south of unit

Unusual plants? Cotton wood along road in unit

Plant community types: Prince's Pine, green's cup

Soil type, quality, compaction level(s):
Typical plants: Cone flower, showy jacob's ladder, meadow rue, thimble berry, wild strawberry, hane berry, elder berry, rattle sickle plant, hane berry, riparian grasses & forbs

Steepness of slope/aspect of slope (direction it faces): E x SE 60° on portion S of NF-64

Landslide risk, describe: Corner ~~between road and~~ steep S of road too steep to log

Density of roads (per sq. mi): _____

Effects of livestock grazing: _____

Evidence of Animal Damage Control activities: _____

Evidence of bait stations for hunting, hunters' camps: _____

Mining Herbicide spraying Gopher trappings/poison Other: _____

Exotic weeds seen: _____

Recreational use: BEER CANS, heavy car traffic on 64

Describe sale unit overall: Mostly mature GF; recovering PP plantation; several springs, seeps, & streams running through & adjacent. Portion of unit S of NF 64 doesn't make sense.

Surrounding area: contiguous forest high-graded forest never logged area canyon roadless area(s) wildlife corridor meadow grassland rocky upland high desert seedlings pine plantation clear cut other cut: _____

public land, agency USFS private land, ownership _____

riparian (specify): Multiple creeks & drainages

area of human habitation _____

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions: Mike's camera

- 1- Header
- 2- Typical view @ entrance point
- 3- Typical west view @ 4:14
- 4- Possible animal burrow @ 4:17
- 5- Tree marking @ 4:17
- 6- Marking to cut @ 4:17
- 7- Road thru unit @ 4:18
- 8- Spring @ 4:27
- 9- Fire scarring @ 4:29
- 10- Stump w/ Augo @ 4:30
- 11- Bear foraging on large OG log @ 4:54
- 12- Bear scat
- 13 & 14- Bird (the dog) in spring center of unit
- 15- Elk track near seep @ 4:46
- 16- Fresh Pileated Foraging on GF snag @ 5:00
- 17- Scat along road @ 5:05
- 18- Scat along road @ 5:06
↓
Coyote or Cat?
- 19 & 20- Photos showing slope on portion of unit S of road
- 21- Drainage on eastern edge of unit @ 5:25

Seeps, streams, & springs need buffers!

Recommendations for sale unit:

LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT

DATE 6/5/18 NTL FOREST UMATILLA DISTRICT WALLA WALLA PROJECT GLASS UNIT 45°48.593' ; 118°01.024' SURVEYOR'S NAME AUG & SIMEON

Drop - North half is healthy recovering plantation through natural succession. South half is thick with seedlings & saplings but has healthy remnants - possibly NCT of southern forest. Subjective evaluation of area:

27803 Williams Lane Fossil OR 97830

Unit straddles 64 along decommissioned road 75 to SE of NF-150

Felt like there was less life in spindly areas. Northern area felt healthier w/ life. Some sections in S half were too thick to walk

Roadless area Never logged X Plantation Many old growth logs and snags Old growth/mature forest: Few OG / Many Average size ~ 9-10"

Average tree size in "dbh": 15-18 mature trees w/ many seedlings & sapplings Examples of large tree diameter: 23" GF, 17.5" GF, 18" ES # of old growth trees per acre: Not enough OG

X Previously logged approx. age of trees 0p @ growth Describe marking to cut: Flagging - yellow (?)

Former logging sign (skid trails, stumps) lack of regen., (dense overstocked spindly thickets), describe: Lots of stumps - Fir, Larch / Eastern edge of unit too dense to walk

Mixed conifer, specify species and number in descending order of prevalence: 6 Ponderosa Pine Juniper 7 Doug Fir 3 Western Larch 1 Grand Fir 5 Lodgepole Pine 2 Engelman Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow 4 Alder Shasta Red Fir Sugar Pine White Pine Incense Cedar other:

Tree seedlings (species, quantity): many GF, some ES Quality and type of canopy closure, %: 65%, fairly defoliated Y and M ES & GF Larch is pretty defoliated; some open clearings

Historically natural mixed-conifer site: old growth mixed-conifer, (fire scars), north slope, (moist area) high elevation, describe: not much OG but a lot of OG stumps of various species

% of defoliation - species and age of trees affected: 50% defoliation on Y and sapling GF, 70% of WL; some Defol. on PP

Species evident using area for habitat/forage (scat. tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): elk scat bear scat, squirrel midden, small mammal burrow, medium burrow, Elk tracks in seep, fawn tracks in seep, bee or hornet hive in old stump, fresh deer scat, Bear foraging, crow call, antler rubbing, (larger animal heard, Elk spotted (mature ♀) - twice

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: Seasonal runoff/creek on SE corner of unit w/ abundant ~~scum~~, scouring rush, alder, riparian fern - 2 sources to creek: seep to west, spring to east, dry seep in Northern part of unit; stream, w/ culvert on older 64

Riparian buffers? Adjacent steep slopes? Needs riparian buffer along runoffs & creeks

Unusual plants? Plant community types: big leaf huckleberry, queen's wop, prince's pine, snowberry Grouse huckleberry

Soil type, quality, compaction level(s): Loamy, dark, compact Typical plants: lone flower, wild strawberry, false helboe, meadow rue, stony solomons seal, rattlesnake plantain, pathfinder, heartleaf Arnica, Brakka Fern snowberry, Box wood, wild strawberry, miners lettuce, pyrrola columbi

open SP run

False Hellbore

Steepness of slope/aspect of slope (direction it faces): Mostly flat

Landslide risk, describe: _____

Density of roads (per sq. mi): _____

Effects of livestock grazing: _____

Evidence of Animal Damage Control activities: _____

Evidence of bait stations for hunting, hunters' camps: _____

Mining Herbicide spraying Gopher trappings/poison Other: _____

Exotic weeds seen: _____

Recreational use: WAAAA NW NF-64 is busy recreation use for lake

Describe sale unit overall: Historic heavy logging. Mostly mature GF w/ mature ES & many GF saplings. Northern portion was PP plantation & is thinner than southern portion

Surrounding area: contiguous forest high-graded forest never logged area canyon

roadless area(s) wildlife corridor meadow grassland rocky upland

high desert seedlings pine plantation clear cut other cut: _____

public land, agency USFS private land, ownership _____

riparian (specify): _____

area of human habitation _____

Species seen adjacent to sale unit: Elk Multiple Elk sightings

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions:

- Camera - Simeon's phone
- 1 - Header
- 2 - Typical view - Area w/ OG stump
- 3 - Typical view with spindly thickets
- 4 - 4 OG stumps
- 4 - Fresh elk scat
- 5 - Bear scat
- 6 - Scraggly dead young ES
- 7 - Medium mammal burrow
- 8 - Fire scar on OG stump w/ Area for scale
- 9 - Creek
- 10 - convergence of runoff
- 11 - yellow flagging
- 12 - Bear foraging
- 13 - Meadow clearing w/ possible skid trail

- 14 - antler rubbing on LP
- 15 - Dried sediment on seasonal runoff

Simeon, Relic, Augo

Recommendations for sale unit:

LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT

DATE ~~7/18/18~~ 7/18/18
NTL FOREST UMATILLA
DISTRICT WALLA WALLA
PROJECT GLASS
UNIT 45° 50.238' 117° 53.847'
SURVEYOR'S NAME 4135 FT

27803 Williams Lane Fossil, OR 97830

T4N, R39E, section 11
small unit just West of convergence of Looking Glass creek tributary

300 ft buffer w/ creek
Drop commercial treatment
- logging would harm nearby creek & OG habitat
Subjective evaluation of area:

Non-commercial thinning of trees appropriate

Felt diverse & mixed between OG, meadows, & spindly thickets

Roadless area Never logged Plantation Many old growth logs and snags

Old growth/mature forest: _____

Average tree size in "dbh": 7-8"

Examples of large tree diameter: 43.5" ES, 26" GF, 38.5" GF

of old growth trees per acre: 6 GF, 1 GF snag

Previously logged approx. age of trees _____

Describe marking to cut: _____

Former logging sign (skid trails, stumps, lack of regen, dense overstocked spindly thickets), describe: Overstocked young GF & ES and OG & mature GF - skid trails or roads around unit

Mixed conifer, specify species and number in descending order of prevalence: 4 Ponderosa Pine

Juniper Doug Fir Western Larch Grand Fir Lodgepole Pine Engelman

Spruce Subalpine Fir 5 Yew Mt. Mahogany 3 Aspen Willow Alder

Shasta Red Fir Sugar Pine White Pine Incense Cedar other: _____

Tree seedlings (species, quantity): _____

Quality and type of canopy closure, %: 40% - Partly defoliated OG GF, many open areas scattered through it around unit / 20% mature mixed conifer

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: Surrounded by OG mixed conifer & several creeks

% of defoliation - species and age of trees affected: 50-100% on young, seedling, & sapling ES & GF / 60-80% defoliated PP mature

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): Multiple deer/elk heard adjacent to unit, bedding & grazing in meadow just S of unit, Pil. Eater foraging

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: Creeks adjacent to unit

Riparian buffers? Adjacent steep slopes? _____

Unusual plants? _____

Plant community types: Snowberry, Elk sedge, Pine grasses, Queens cup

Soil type, quality, compaction level(s): Dark brown compact near OG

Typical plants: Cone flower, Brakken, Indian Paintbrush, sterry flowers, Solomon's seal, hookers fairy bell

Steepness of slope/aspect of slope (direction it faces): _____

Landslide risk, describe: _____

Density of roads (per sq. mi): _____

Effects of livestock grazing: _____

Evidence of Animal Damage Control activities: _____

Evidence of bait stations for hunting, hunters' camps: _____

___ Mining ___ Herbicide spraying ___ Gopher trappings/poison ___ Other: _____

Exotic weeds seen: Dandelion, Bull thistle

Recreational use: near busy road to Jubilee Lake

Describe sale unit overall: Mature ES & GF, debilitated mature PP, several

OG GF w/ OG no more OG immediately adjacent to unit, many

spindly young GF & same young ES

Surrounding area: contiguous forest ___ high-graded forest ___ never logged area ___ canyon

___ roadless area(s) ___ wildlife corridor meadow ___ grassland ___ rocky upland

___ high desert ___ seedlings ___ pine plantation ___ clear cut ___ other cut: _____

public land, agency USFS ___ private land, ownership _____

riparian (specify): Tributary to Looking Glass Creek to East

___ area of human habitation _____

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions:

Canon Powershot A720 IS

- 1- Header
- 2- skid trail or road
- 3- Typical view open meadow in unit
- 4- Typical view dense ~~tree~~ mature ES + DF
- 5- Avocado w/ 43.5" ES w/ sapsucker foraging
- 6- Avocado w/ 2 26" GF
- 7- Simeon w/ 38.5" GF
- 8- Typical view of dense seedlings under OG
- 9- Fresh pileated foraging on GF snag

- 10- Squirrel midden + small mammal burrow
- 11- Dehabitation on ~~ED~~ mature PP



Avao, Simeon, Relic
 DATE 6/8/18 7/7/18
 NTL FOREST Umatilla
 DISTRICT Walla Walla
 PROJECT Glass
 UNIT N 45° 50.109' W 117° 53.859'
 SURVEYOR'S NAME 4033R
 T4N R39E Section 11
 W of Looking Glass Cr
 Tributary S of 6413

Recommendations for sale unit: 300ft LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT
 27803 Williams Lane Fossil, OR 97830

Maintain 100ft buffer adjacent stream
 Non-commercial thinning may be appropriate in some pockets
 Subjective evaluation of area:

Dense, spindly area feels "horrifying." The creek was relaxing, and beautiful

If no commercial operations that threaten creek & OG habitat

Roadless area Never logged Plantation Many old growth logs and snags
 Old growth/mature forest:

Average tree size in "dbh":

Examples of large tree diameter: 22" PP, 16" GF Adjacent: 51.5" GF

of old growth trees per acre: Many old growth trees east of unit between unit & stream

Previously logged approx. age of trees

Describe marking to cut:

Former logging sign (skid trails, stumps, lack of regen. dense overstocked spindly thickets) describe:

Very thick young GF w same ES

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine

Juniper Doug Fir Western Larch Grand Fir Lodgepole Pine Engleman

Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder

Shasta Red Fir Sugar Pine White Pine Incense Cedar other:

Tree seedlings (species, quantity):

Quality and type of canopy closure, %: 20% mature ES, PP, & GF / 60% young GF

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist

area, high elevation, describe: Same fire scars on down logs, really moist area with adjacent creek to moist plants

% of defoliation - species and age of trees affected: 35% ES mature

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.):

Castroville elk scat, Deer/Elk trails, woodpecker foraging

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe:

You can hear the creek from the unit

Riparian buffers? Adjacent steep slopes? Needs at least 150 feet from creek

Unusual plants?

Plant community types: Pine grass, Queen's cup, snowberry, prince's pine

Soil type, quality, compaction level(s): Moderately compact, darkish brown loam

Typical plants: Pathfinder, starry flowered sedum, wild strawberry, bracken, gooseberry, meadow rue, bed straw, Hell bore

is GSHS light memo

Steepness of slope/aspect of slope (direction it faces): _____

Landslide risk, describe: _____

Density of roads (per sq. mi): _____

Effects of livestock grazing: _____

Evidence of Animal Damage Control activities: _____

Evidence of bait stations for hunting, hunters' camps: _____

Mining _____ Herbicide spraying _____ Gopher trappings/poison _____ Other: _____

Exotic weeds seen: Bull thistle

Recreational use: _____

Describe sale unit overall: Dense areas with young spindly thickets

interrupted by meadows & clearing w/ some OG in unit. Surrounded

by healthy OG GF & ES & thriving riparian ecosystem.

Surrounding area: contiguous forest _____ high-graded forest never logged area _____ canyon

_____ roadless area(s) _____ wildlife corridor meadow _____ grassland _____ rocky upland

_____ high desert _____ seedlings _____ pine plantation _____ clear cut _____ other cut: _____

public land, agency USFS _____ private land, ownership _____

riparian (specify): _____

area of human habitation _____

Species seen adjacent to sale unit: Frog in meadow, Red osier dogwood

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest

holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn

if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy

mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different

areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic

weed locations. Identify camera used.

Photo #s & descriptions:

- 1-Header
- 2+3- Mature spruce
Defoliation
- 4- Typical GF
defoliation - 20%
- 5- Woodpecker
Foraging on
mature PP snag
- 6- Simeon w/ 2
OG GF in
w/ spindly thicket
in background

- 7- Defoliated spindly thickets
adjacent to healthy OG
habitat
- 8- Creek immediately adjacent
w/ small waterfalls & OG
ES in background

GF IIII
ES IIII

Recommendations
for sale unit: DROP!

LEAGUE OF WILDERNESS
DEFENDERS
BLUE MOUNTAINS
BIODIVERSITY PROJECT
27803 Williams Lane
Fossil, OR 97830

DATE 7/6/18
NTL FOREST UMATILLA
DISTRICT WALLA WALLA
PROJECT GLASS
UNIT SOF 6413, INCLUSION OF 20 W OF LOOKING
GLASS CREEK
SURVEYOR'S NAME MILES E. CHRISTY

HEALTHY DENSITY OF PLANTS & TREES. THRIVING. THERE'S NO INTERVENTION THAT WOULD ASSIST THIS ALREADY VIBRANT FOREST.

Subjective evaluation of area: HEALTHY, FLOURISHING FOREST, FELT ADVENTUROUS & JUNGLE-LIKE. FULL OF LIFE WITH LOTS OF VARIETY OF BIRD SONGS, FLOWERS & POLLINATING BEES & BUTTERFLIES VIBRANT, THRIVING ECO SYSTEM.

___ Roadless area ___ Never logged ___ Plantation ___ Many old growth logs and snags

Old growth/mature forest: ONE LARGE AREA HAD MANY OG GF & ES / MOST TREES WERE MATURES

Average tree size in "dbh": 12"

Examples of large tree diameter: 7" ES 49" GF 43" GF

of old growth trees per acre: 19 GF 8 ES 0 LOGS OR SNAGS

___ Previously logged approx. age of trees

Describe marking to cut:

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe:

VERY OLD & DECAYING OG STUMPS - JUST A FEW, SOME SMALL DIAMETER MORE RECENT STUMPS

Mixed conifer, specify species and number in descending order of prevalence: ___ Ponderosa Pine

___ Juniper ___ Doug Fir 2 Western Larch 1 Grand Fir ___ Lodgepole Pine 4 Engleman

Spruce ___ Subalpine Fir ___ Yew ___ Mt. Mahogany ___ Aspen ___ Willow 3 Alder

___ Shasta Red Fir ___ Sugar Pine ___ White Pine ___ Incense Cedar ___ other:

Tree seedlings (species, quantity): NOT MANY, SOME MOSTLY ES & GF

Quality and type of canopy closure, %: 10% HEALTHY, FULL, DL GRN WL, ES & GF

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: OG GF & ES WITH LARGE MATURE WL

% of defoliation - species and age of trees affected: LITTLE DEFOLIATION THROUGHOUT FOREST EXCEPT ON MOST WL M TREES WHICH HAD 30-60%

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): BIRD SONGS, DEER SCAT, BEES, LARGE BURROW, DEER HEARD RUNNING, SMALL BURROWS, BEAR FORAGING, BEAR/ELK TRAILS

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: LOOKING GLASS CREEK EAST OF UNIT DOWN SUPER STEEP SLOPE

Riparian buffers? Adjacent steep slopes? STEEP SLOPE EAST OF UNIT OVER CREEK

Unusual plants?

Plant community types: HUCKLEBERRY (BIG LEAFED), SNOWBERRY, PINEGRASS

Soil type, quality, compaction level(s): RICH BROWN, MOIST, LOAM

Typical plants: YARROW, INDIAN PAINTBRUSH, FERN, NETTLE, FALSE SOLDIERS SEAL, CONE FLOWER, CLEANER'S, WILD STRAWBERRY, MEADOW RUE, WILD ROSE, COLUMBINE, MOSS, BIRD FOOT TREE FOIL CLOVER, FALSE HELLBORE, PEARLY EVERLASTING, DATHPINDER

*SEEMED LIVE/STABLE 1 MINIMAL HABIT WITH ALTERNATING COVERED. FULL FOREST BORDERED BY OPEN MEADOWS

Steepness of slope/aspect of slope (direction it faces): MILD TO MODERATE SLOPE

Landslide risk, describe: NONE

Density of roads (per sq. mi): 1.5

Effects of livestock grazing: N/A

Evidence of Animal Damage Control activities: N/A

Evidence of bait stations for hunting, hunters' camps: N/A

___ Mining ___ Herbicide spraying ___ Gopher trappings/poison Other: _____

Exotic weeds seen: DANDELION IN MIDDLE OF UNIT

Recreational use: ROAD BORDERING UNIT, CAMP IN UNIT

Describe sale unit overall: MILDLY SLOPED, LUSH, DIVERSE GROUND COVER, MOSTLY MATURE MC WITH GF, ES & WL. AREA OF HEALTHY OG. BORDERED BY MEADOW & ALDER. SHOWING NATURAL SUCCESSION WITH DEFOLIATION ON WL.

Surrounding area: contiguous forest ___ high-graded forest ___ never logged area ___ canyon

___ roadless area(s) ___ wildlife corridor meadow ___ grassland ___ rocky upland

___ high desert ___ seedlings ___ pine plantation ___ clear cut other cut: DECAYING OG STUMPS, SOME SMALL DIAMETER STUMPS

public land, agency USFS ___ private land, ownership N/A

___ riparian (specify): _____

___ area of human habitation N/A

Species seen adjacent to sale unit: RAVEN. BIRD SONGS - LOTS

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions:

HEADER
MILES MEASURING 49" GF

1039 CAMP

1044 TYPICAL VIEW NE END OF UNIT

1047 PHOTO OF OG LOG IN OG THICKET W/CHRISTY

1048 CHRISTY MEASURING GF 43'

1057 TYPICAL VIEW FACING S

1109 SMALL BURROW

1112 BEAR FORAGING

1115 TYPICAL VIEW FACING NW AT BOTTOM SE SECTION OF UNIT

1115 OG STUMPS

Recommendations
for sale unit: DROP!

SOMEHOW DESPITE THE
ODDS OF A BIG ROAD
RUNNING THROUGH THE
MIDDLE THIS UNIT IS DOING
VERY WELL

LEAGUE OF WILDERNESS
DEFENDERS
BLUE MOUNTAINS
BIODIVERSITY PROJECT
27803 Williams Lane
Fossil, OR 97830

DATE 7/10/18
NTL FOREST UMATILLA
DISTRICT WALLA WALLA
PROJECT GLASS
UNIT BISECTED FROM NE TO S BY L04
MOST W UNIT
SURVEYOR'S NAME MILES & CHRISTY

Subjective evaluation of area: DIDN'T FEEL GOOD IN FIRST 100 FEET WHERE THE ROAD HAD KICKED
UP DUST, PLANTS WERE DRAB & DUSTY, LITTER. SURPRISED AT HOW VIBRANT, ENERGETIC & HEALTHY
THE SE PORTION WAS HAVING BEEN SO CLOSE TO THE ROAD IT FELT ADVENTUROUS WHEREAS THE
MORE W PART I JUST WANTED TO GET THE SURVEYING DONE, NOT EXCITING, THOUGH I WAS SURPRISED
AT HOW MANY DIFFERENT TREES THERE WERE.
___ Roadless area ___ Never logged ___ Plantation ___ Many old growth logs and snags

___ Old growth/mature forest: ___

Average tree size in "dbh": 3"-18" MOST ABOUT 10"

Examples of large tree diameter: 18" PP 17" ES 14" WL 17" DE 19" LP 24" PP

of old growth trees per acre: ___

Previously logged approx. age of trees 09 & m

Describe marking to cut: ORANGE STRIPE ON PP LP

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe:

CG VERY DECAYED STUMPS, DECAYING MATURE STUMPS, COMPACTED, BARREN ROADIZED LENGTH BY

Mixed conifer, specify species and number in descending order of prevalence: 3 Ponderosa Pine STUMPS

___ Juniper 7 Doug Fir 5 Western Larch 1 Grand Fir 6 Lodgepole Pine 2 Engleman
Spruce ___ Subalpine Fir ___ Yew ___ Mt. Mahogany ___ Aspen 8 Willow 4 Alder

___ Shasta Red Fir ___ Sugar Pine ___ White Pine ___ Incense Cedar ___ other: ___

Tree seedlings (species, quantity): ABUNDANT IN PATCHES NEAR PP, WL & LP SECTIONS MOSTLY GF SOME ES

Quality and type of canopy closure, %: 70% HEALTHY GREEN CROWNS GF ES W/ DEFOLIATION
ON LOWER BRANCHES

___ Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist
area, high elevation, describe: ___

% of defoliation - species and age of trees affected: 30% ON GF & ES, 40-60% ON M PP, LP
100% on WL

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts,
dens, burrows, beds, hives, etc.): BURROWS, BIRDS CHIRPING, ELK/DEER TRAILS, SNAIL SHELL
DOE RUNNING THROUGH FOREST, UNGUET TRACKS, LOTS OF INTERSECTING TRAILS, ELK SCAT
SQUIRREL MIDDEN, MBO-SIZED MAMMAL BONE

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs,
creeks, rivers, lakes, ponds) describe: SMALL RUNNING STREAM GOING E*SE, SEEP TURNING
INTO STREAM IN BOTTOM HALF OF UNIT RUNNING N*NE

Riparian buffers? Adjacent steep slopes? NONE

Unusual plants? NONE SEEN

Plant community types: PINE GRASS, SNOWBERRY, QUEEN'S CUP, BIG LEAF HICKLEBERRY
SNOWBERRY

Soil type, quality, compaction level(s): DARK BROWN, MOIST, LOAM

Typical plants: YARROW, FALSE HELBORE, MEADOW RUE, TWISTED STALK, MOSS, FERN
RATTLESNAKE PLANTAIN, CONE FLOWER, CLEAVERS, WILD STRAWBERRY, JACOB'S LADDER
INDIAN PAINTBRUSH, ARVICA, MUSHROOMS, ~~SEEP~~ SCOURING RUSH

Steepness of slope/aspect of slope (direction it faces): ENTIRE UNIT HAD LOTS OF DIPS, UP & DOWN ~~THE~~ TOPOGRAPHY SOME DIPS 50° DROP BUT NO REAL SLOPES

Landslide risk, describe: NO

Density of roads (per sq. mi): 1

Effects of livestock grazing: N/A

Evidence of Animal Damage Control activities: N/A

Evidence of bait stations for hunting, hunters' camps: N/A

Mining Herbicide spraying Gopher trappings/poison Other: _____

Exotic weeds seen: DANDELION

Recreational use: ROAD RUNNING THROUGH UNIT, TRASH & BEER CANS

Describe sale unit overall: UNIT WAS CUT IN 2 BY U4, ENTIRE UNIT WAS VERY BUMPY WITH SMALL HILLS & DIPS DIVERSITY OF PLANTS, LOTS OF ANIMAL TRAFFIC, HEALTHY DIVERSITY OF TREES GF, ES, LP, PP, ALD, SOME WILLOW & 1 DE. AREA WAS MOST WITH LOTS OF BIRD SONG

Surrounding area: contiguous forest high-graded forest never logged area canyon

roadless area(s) wildlife corridor meadow grassland rocky upland

high desert seedlings pine plantation clear cut other cut: _____

public land, agency USFS private land, ownership NO

riparian (specify): 2 CREEKS & 1 SEEP WITH LUSH PLANT LIFE RUNNING IN & ALONGSIDE

area of human habitation NO

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions:

412 HEADER

417 RUNNING STREAM

419 BURROW

422 CHRISTY MEASURING SLOPE

425 BURROW W/ SHOE FOR SCALE

427 PP W/ALDER TYPICAL VIEW

442 TYPICAL VIEW DENSE Y/M MC GF & ES W/ LOWER BRANCH DEFOLIATION

447 STREAM W/ UNGUET FOOT PRINTS

457 ORANGE PAINT ON ~~PP~~ LP

457 TYPICAL VIEW IN WESTERN SIDE OF UNIT

501 BURROW

510 TYPICAL VIEW

* Top & Bottom sections were pretty different from one another. Both were dense but not overcrowded. Bottom more lush & moist. Top more upland of trees, sparser & fewer understory plants. Very few OG mostly Y/M MC.

Recommendations

for sale unit: no new roads, drop commercial thinning, < 5" non-com thinning
MAINTAIN HEALTHY RIPARIAN

LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT

7803 Williams Lane Fossil, OR 97830

DATE 7/9/18

NTL FOREST Umatilla
DISTRICT (6225) (3210) Walla Walla
PROJECT Glass Lake
UNIT N45° 46.852' W 117.59.270
SURVEYOR'S NAME Relic 43654

AREA need rip buffers
Subjective evaluation of area: healthier forest, more diverse species of plants & animals due to riparian areas (at least 4) Auggo

Roadless area Never logged Plantation Many old growth logs and snags

Old growth/mature forest:

Average tree size in "dbh": 8" GF 15" GF

Examples of large tree diameter: 30" DF, 25" GF, 21" GF, 43" GF

of old growth trees per acre: not enough

Previously logged approx. age of trees 60, 25

Describe marking to cut:

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe:

Mixed conifer, specify species and number in descending order of prevalence: 2 Ponderosa Pine

6 Juniper 6 4 Doug Fir 4 Western Larch 1 Grand Fir 3 Engleman

5 Spruce 7 Subalpine Fir 7 Yew 5 Mt. Mahogany 5 Aspen 5 Willow 5 Alder

Shasta Red Fir Sugar Pine White Pine Incense Cedar other: RM maple

Tree seedlings (species, quantity):

Quality and type of canopy closure, %: 80% GF & PP 30% w/ def PP & h gf, by Stream

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: surrounding old growth

% of defoliation - species and age of trees affected: 80% PP, defol of GF near PP 40%

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): hear Ravens, squirrel middens, elk scat, bear scat?, burrows, antler rubbing, coyote scat, elk track, path w/ scat

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: 4 streams at least w/ additional seasonal runoffs. Healthy w/ riparian plants nearby like alder? thimbleberry

Riparian buffers? Adjacent steep slopes?

Unusual plants? lady slipper orchid

Plant community types: snowberry, pine grass, elderberry, huckleberry, prince's pine, twinflower, green's cup

Soil type, quality, compaction level(s): compact, med brown, loamy

Typical plants: varrow, w strawb, olean spray, st John's, varrow, paintbrush, mistletoe, wild rad, starflowers, pathfinder, meadow rue, bracken, lady's, horsetail, alder, cone flower, arnica, currant, thimbleberry, boxwood

more page

Steepness of slope/aspect of slope (direction it faces): slightly steep

Landslide risk, describe: _____

Density of roads (per sq. mi): _____

Effects of livestock grazing: _____

Evidence of Animal Damage Control activities: _____

Evidence of bait stations for hunting, hunters' camps: _____

Mining _____ Herbicide spraying _____ Gopher trappings/poison _____ Other: _____

Exotic weeds seen: dandelion, mistle

Recreational use: food box

Describe sale unit overall: plantation w/ numerous riparian features. densely stocked w/ reasonable spacing compared to other units

Surrounding area: contiguous forest _____ high-graded forest never logged area _____ canyon

_____ roadless area(s) _____ wildlife corridor meadow grassland _____ rocky upland

_____ high desert seedlings pine plantation clear cut _____ other cut: _____

_____ public land, agency _____ private land, ownership _____

riparian (specify): creeks nearby

_____ area of human habitation _____

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used. Cannon PowerShot A590

Photo #s & descriptions:

- ① header
- ② ~~1st~~ R w/ OG DF
- ③ creek w/ bog
- ④ another spring w/ horse tail? alder
- ⑤ typical view of mature, dense PPE GF
- ⑥ 3rd creek w/ alder, lady fern
- ⑦ PP Planted in a plain pattern
- ⑧ bear scat?
- ⑨ small mammal burrow
- ⑩ bear foraging?
- ⑪ R w/ OG stump, PW foraging?
- ⑫ old logging road
- ⑬ healthy riparian bog running thru old road
- ⑭ coyote scat
- ⑮ not rattlesnake plantain

Recommendations

LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT

DATE 7/10/18 NTL FOREST Yamahilla DISTRICT Walla Walla PROJECT Glass UNIT intersection of 40 & 643 SURVEYOR'S NAME Rehc, Augusto

for sale unit:

DROP. Trees are too old or young to log. Not commercially viable

27803 Williams Lane Fossil, OR 97830

Subjective evaluation of area: recently logged (90s or 00s) seems to be regenerating well. Healthy undergrowth, good spacing. Let it heal.

Roadless area Never logged Plantation Many old growth logs and snags

Old growth/mature forest: many old logs & snags, young trees doing well

Average tree size in "dbh": 3-7" 200

Examples of large tree diameter: 23.5" ES, 24.5" GF, 27" DF, 45" GF

of old growth trees per acre: 7 ES, 5 GF, 1 DF, 2 snags, 1 log

13 living, 16 total

Previously logged approx. age of trees.

Describe marking to cut:

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe:

Some ground compacted, many recent stumps

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine

Juniper 4, Doug Fir 3, Western Larch 2, Grand Fir 7, Lodgepole Pine 1, Engelman

Spruce 6, Subalpine Fir, Yew, Mt. Mahogany, Aspen, Willow, Alder

Shasta Red Fir, Sugar Pine, White Pine, Incense Cedar, other:

Tree seedlings (species, quantity): many ES, some WL & GF

Quality and type of canopy closure, %: 5% w/ healthy OG, 15% w/ mature

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: moist plant indicators

% of defoliation - species and age of trees affected:

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): olive sided flycatcher, deer scat, predator scat, deer track, elk scat

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: close to several springs

Riparian buffers? Adjacent steep slopes?

Unusual plants?

Plant community types: asp, elderberry, prince's pine, gheens

Soil type, quality, compaction level(s): compacted clay, dark / 4 brown, aerated clay

Typical plants: paintbrush, cow parsnip, pearl, aster, nettles, cone flower, currant (sticky), W rose, W columbine, C hellbourne, yarrow, cleavers, jacob's ladder, twinberry, arnica, W strawb, starflower S, scarlet saphrophyte, fireweed

Steepness of slope/aspect of slope (direction it faces): relatively flat

Landslide risk, describe: _____

Density of roads (per sq. mi): _____

Effects of livestock grazing: _____

Evidence of Animal Damage Control activities: _____

Evidence of bait stations for hunting, hunters' camps: _____

Mining _____ Herbicide spraying _____ Gopher trappings/poison _____ Other: _____

Exotic weeds seen: bird's foot, mistle

Recreational use: horse manure & track on a road

Describe sale unit overall: mixed ES, GF, WL, very healthy in non-compacted sites. recently logged (90s-2000s)

Surrounding area: _____ contiguous forest _____ high-graded forest _____ never logged area _____ canyon

_____ roadless area(s) _____ wildlife corridor meadow _____ grassland rocky upland

_____ high desert seedlings _____ pine plantation _____ clear cut other cut: selective logging

_____ public land, agency _____ private land, ownership _____

_____ riparian (specify): _____

_____ area of human habitation _____

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used. Canon Powershot A590

Photo #s & descriptions:

- ① header ② un ID'd common flower ③ mature ES w/ young ES
- ④ common un ID'd plant ⑤ common un ID'd plant, flowers w/ 5 petals
- ⑥ R w/ recently logged stump ⑦ burrow under downed log
- ⑧ deer scat, predator scat ⑨ common saprophyte
- ⑩ is this SAF? ⑪ typical view of denser area ⑫ ES ⑬ middens?
- burrows ⑭ giant coral mush ⑮ what's happening? ⑯ horse manure & track ⑰ road

DF	GF	ES	Sng	log
1	111	111	1GF	1SP
	11	1		

(*) DROP → South end
(*) The East end of the sale unit is active. Pileated woodpecker habitat & good marten habitat
(*) Rare saprophytes in sale unit. This sale unit needs a rare plant survey in the old growth & shade areas.
(*) Leave all patches of old growth forest within sale units - including this one! (In East end, along N. border)

PROF Recommendations ^{In plantation only} LEAGUE OF WILDERNESS DATE July 8th, 2018 ^{in S. end}
S.E. end for sale unit: Logout all Ponderosa DEFENDERS NTL FOREST Umatilla
Pine except those ≥ 21" dbh & BLUE MOUNTAINS DISTRICT Walla Walla
snags. This will create group BIODIVERSITY PROJECT PROJECT Glass
openings - plant some DF & WL where 27803 Williams Lane UNIT Sec. 13 & 12, E of 400rd, N of 6413,
no seed source. Leave all WL & ES & all Fossil, OR 97830 SURVEYOR'S NAME Karen C. W. of 45
DF plus all mostly green. Gf.

Subjective evaluation of area: At some point the forest seems to have had younger mature by spring trees grow up to be mature and then old growth to replace all the mature and old growth forest lost to overlogging - that's the really important HRV, and should be a commitment, not an Roadless area Never logged? Plantation Many old growth logs and snags idle promise
 Old growth/mature forest: ^{in East end} in W. end & so. end ^{in East end} mostly in E. end. 42" ES!
Average tree size in "dbh": in plantation area: variable 37.5" WL

Examples of large tree diameter: 23" PP, 30" GF, 29, 3" ES, 45, 3" GF, 39, 8" GF, 43, 3" GF, 35" ES, 29.5" Gf
of old growth trees per acre: 13 OG Grandfir, 3 Englemann spruce, 2 Western Larch, 29" ES, 44" GF
W/S OG GF snags & OG logs: 3 GF, 1 DF, 1 fir, & 3 WL (OG logs) 48" WL, 51" Gf
 Previously logged approx. age of trees mostly younger - mature to mature trees left, probably clear cut

Describe marking to cut: None
Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: Partial removal
OG DF stumps → in plantation area on W. side only
 Mixed conifer, specify species and number in descending order of prevalence: 1 Ponderosa Pine ^{in plantation but not in E. end}
4 Juniper 3 Doug Fir 3 Western Larch 2 Grand Fir 2 Lodgepole Pine 2 Engleman Spruce
Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder
Shasta Red Fir Sugar Pine White Pine Incense Cedar other: Rocky Mt. maple

Tree seedlings (species, quantity): Mostly GF & ES
Quality and type of canopy closure, %: about 75% in middle of sale unit under 4 OG GF & 1 m WL
Plantation area had much less canopy closure.
Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: Surrounded by OG mixed conifer in the area, an OG WL log, 45, 3" GF
OG GF & ES at N boundary of sale unit - 29-30" dbh, 4598 ft. elevation, moist PA
% of defoliation - species and age of trees affected: Lots of browning needles & lower branch
depletion in the off-site Ponderosa Pine

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): a pair of Pileated woodpeckers seen foraging in the sale unit
a possible MacGillivray's warbler heard, Hermit thrush, Red-breasted nuthatch
Rakins, Black-capped Chickadee, Western Tanager, Saw yellow-rumped warbler heard
Ruby-crowned Kinglet, Bald-faced hornet nest, old bear scat, Douglas-squirrels, deer scat,
oak trail, 2 Pileated woodpeckers kept calling to each other in the sale unit - possible
Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: Spring on So. border, W. side, but I didn't find it.
The spring should be buffered from logging by at least 100 feet.

Riparian buffers? Adjacent steep slopes? another unidentified saprophyte at 11:34
Unusual plants? Unidentifed Saprophyte - 10:19-10:20 photos - at NW end near large OG ES
Plant community types: Bigleaf huckleberry, Ocean Spray, Snowberry, Queen's Cup Bead Lily,
Soil type, quality, compaction level(s): dark brown loamy & light tan ash
Typical plants: Coneflower, Star-flowered Solomon's Seal, wild strawberry, Bedstraw,
Jacob's ladder, Arnica cordifolia, Swamp gooseberry, Sticky Cinquefoil
Sweet Cicely, Sticky Cinquefoil, Currant, Pathfinder, Agoseris s.p., Violet sp.,
Urtica dioica

Typical plants, Cent: Elderberry, Meadow Rue, False Solomon's Seal, Coltsfoot (?)

4,600-4,680 ft. elevation

light plum red stalk, prominent yellow stamen, dark plum-red lower petal, candy-striped petals below rd 433

12:51 # of...
12:52 beautiful moist mature mixed conifer in So middle of sale unit
12:53 - 2 large tall OG GF snags, So middle, E. end (12:57) another big OG GF = 5" dbh
12:54 - Karen's Canon 9:26 Survey heading & map
12:55 - a large old growth moist mature mixed conifer in So middle of sale unit
12:56 - 2 large tall OG GF snags, So middle, E. end (12:57) another big OG GF = 5" dbh
12:57 - another big OG GF = 5" dbh
12:58 - a well defined elk trail in the sale unit
12:59 - me hugging a 43.3" dbh OG GF in E. end
13:00 - me w/a 51" dbh OG GF (in photo 12:57 also) (13:02) a huge OG GF snag w/ 8.55 oriented OG GF log
13:01 - me at the base of a 48" dbh live OG WL w/ Pileated & smaller woodpecker
13:02 - a huge OG GF snag & log in So. end foraging
13:08 - a large OG fir snag, south end (13:14) a huge OG GF snag & log in So. end foraging
13:13 - another large OG GF snag, SW end
13:21 - 2 more OG GF snags & an OG GF log, SW corner
13:23 - 2 more OG GF snags & an OG GF log, SW corner

Photos: (13:00) me w/a 51" dbh OG GF (in photo 12:57 also) (13:02) a huge OG GF snag w/ 8.55 oriented OG GF log
(13:08) me at the base of a 48" dbh live OG WL w/ Pileated & smaller woodpecker
(13:13) a large OG fir snag, south end (13:14) a huge OG GF snag & log in So. end foraging
(13:21) another large OG GF snag, SW end
(13:23) 2 more OG GF snags & an OG GF log, SW corner

Steepness of slope/aspect of slope (direction it faces) wild slope, generally S/SE aspect
Landslide risk, describe: N/A
Density of roads (per sq. mi): high w/ closed rds.
Effects of livestock grazing: None seen

Evidence of Animal Damage Control activities: None seen
Evidence of bait stations for hunting, hunters' camps: Hunters' camp w/ deer rack in SW corner of sale unit

___ Mining ___ Herbicide spraying ___ Gopher trappings/poison ___ Other: ___
Exotic weeds seen: None seen
Recreational use: Not as much recreational use off 6413, but still recreational traffic

Describe sale unit overall: Based on GPS & the coarse-scale sale map, I was in the sale unit except for a little south at the end. This means over half of it is not a stressed plantation, but is old growth moist mixed conifer with lots of OG snags & logs & a Pileated pair.
Surrounding area: contiguous forest high-graded forest ___ never logged area ___ canyon
___ roadless area(s) ___ wildlife corridor ___ meadow ___ grassland ___ rocky upland
___ high desert ___ seedlings pine plantation to SO clear cut ___ other cut: ___

public land, agency ES ___ private land, ownership None
riparian (specify): Spring on So. border of sale unit
area of human habitation None

Species seen adjacent to sale unit:
Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions: 9:26 & 9:37 - healthy younger-mature Western larch canopy
9:41 a Baldfaced hornets nest (9:46) a huge OG log - likely w. larch
9:53 - lots of healthy E. spruce seedlings along rd. 400 along w/ healthy GF seedlings
10:00 - 2 views of off-site Ponderosa pine along rd. 400 w/ browning needles & lower branch defoliation
10:08 - fairly dense younger-mature & mature GF & ES near rd 400, which would self thin
10:17 - a 30" OG GF w/ pine at the base (10:26) me w/a 29.3" OG ES through competition, suppressing the smaller trees.
10:29 & 10:30 - substantial lower branch defoliation in mature Ponderosa pine & 1 y DF away from road
10:35 - healthier GF, ES, & WL forest - should be retained.
10:35 - another big patch of defoliated younger-mature & mature Ponderosa pine
10:45 - a long OG WL log in OG mixed conifer in East end of sale unit (12:47) 3 large OG GFs, middle of unit
10:53 - me w/a 45.3" OG Grand fir - apparently this old growth forest is in the sale unit - checked GPS.
10:56 - old growth moist mixed conifer forest apparently within the sale unit, E. end
10:58 - a well-defined elk trail in the sale unit

11:18 & 11:20 - 2 views of same long OG WL log - 2nd w/ me sitting on it (1) full view
11:27 - me hugging a 35" dbh OG ES in E. end (11:28) (3) a tall & a shorter OG GF snag (2+3) = base & top
11:34 - 2 views of an unidentified, apparently rare saproxytic-seed description under "unusual plants"
11:40 - a large OG GF log & snag in OG count area (12:13) a Cone flower (12:49) Spotted Coral root
11:45 - tops of 2 OG GF snags in OG count 11:47 - meat base of the larger OG GF in 11:45
11:56 - a mitten-sized root wad burrow with pen (12:36) me at the base of a 44" OG BF
12:12 - an opening in the OG East end w/ an OG GF snag & alder (12:44) a 9" dbh older Rocky Mt. maple
12:39 - me at the base of a 43" dbh OG ES

OG count in East end: OG WL-1, OG snags - 2 OG GF, 1 OG GF, 1 OG log, 1 DF, 1 DF, 1 DF, 1 OG GF, 1 OG GF, 1 OG GF

OG WL-1, OG snags - 2 OG GF, 1 OG GF, 1 OG log, 1 DF, 1 DF, 1 DF, 1 OG GF, 1 OG GF, 1 OG GF

Recommendations

for sale unit: #1 DROP

High wildlife & recreational value.

LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT 27803 Williams Lane Fossil, OR 97830

DATE July 5th, 2018
NTL FOREST Wallowa
DISTRICT Walla Walla
PROJECT Glass
UNIT Section 20 w/our user-created camp
SURVEYOR'S NAME Caron C. W. #63, S. of 50th, SW of 30th, E of 105th

Subjective evaluation of area: An outstanding example of the original old growth moist mixed conifer forest in this area - why is this included in a "restoration" of plantations timber sale? This is obviously not a plantation!

Roadless area Never logged? Plantation Many old growth logs and snags

Old growth/mature forest:

Average tree size in "dbh":

Examples of large tree diameter: 51" GF, 49" GF, 44" WL, 37.8" GF, 50" WL, 38" GF x 36" ES,

of old growth trees per acre: 38 OG Grandfirs, 4 OG Englemann spruce, 2 OG Western larch, 4 OG GF snags, 1 OG ES snag, & 1 OG log: 4 GF, 2 ES, & 1 WL

Previously logged approx. age of trees

Describe marking to cut: None

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe:

Not clear if it was ever commercially logged, or just firewood cutting

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine

Juniper Doug Fir 3 Western Larch 1 Grand Fir Lodgepole Pine Engleman

Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder

Shasta Red Fir Sugar Pine White Pine Incense Cedar other:

Tree seedlings (species, quantity):

Quality and type of canopy closure, %:

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: large OG GFs, moist PPG-Queen's Cup Bead Lily, OG GF snag

High OG count for Grand fir

% of defoliation - species and age of trees affected: Very green

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.):

Mosquitoes, Douglas squirrels, an elf heard heard calling to each other at night, a Pileated woodpecker heard nearby in the morning, Robins, a likely yellow-rumped warbler heard, a Hairy woodpecker heard in the sale unit,

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe:

a small flowing stream along N. end below rd 50 (so. of 50)

Riparian buffers? Adjacent steep slopes? The stream should have at least a 100' buffer

Unusual plants? Spotted Coral root, knotted fern by stream,

Plant community types: Queen's Cup Bead Lily

Soil type, quality, compaction level(s): medium brown loamy & light tan ash

Typical plants: Pathfinder, Star-flowered Solomon's Seal, False Solomon's Seal, Burnet, Bedstraw, Swamp gooseberry, Sweet Cicely, Jacob's ladder, Mixer's lettuce, Coneflower, Nettles, Boneberry, Bluebells, Forget me Not, wild Raspberry,

Recommendations

LEAGUE OF WILDERNESS

DATE 7/19/18

for sale unit:

DEFENDERS

NTL FOREST Umatilla

Drop!!! Needs 300 ft INFEST Buffer - Healthy OG w/ few commercially viable trees

BLUE MOUNTAINS

DISTRICT Walla Walla

BIODIVERSITY PROJECT

PROJECT Glass

27803 Williams Lane

UNIT N45°47.463'W117°56.80'

Fossil, OR 97830

SURVEYOR'S NAME Hugo, Belic

Subjective evaluation of area:

Felt magical & very diverse

Roadless area Never logged Plantation Many old growth logs and snags

Old growth/mature forest: GF, ES, WL

Average tree size in "dbh": 12" PP, 12" GF

Examples of large tree diameter: 21" WL, 30" GF, 29" ES, 43" GF

of old growth trees per acre: 3 GF, 4 ES, 1 GF snag, 1 WL snag

1 log (to areas w/ denser OG)

Previously logged approx. age of trees

Describe marking to cut:

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe:

Mixed conifer, specify species and number in descending order of prevalence: 4 Ponderosa Pine

Juniper Doug Fir 3 Western Larch 1 Grand Fir Lodgepole Pine 2 Engelman

Spruce Subalpine Fir 5 New Mt. Mahogany Aspen Willow 6 Alder

Shasta Red Fir Sugar Pine White Pine Incense Cedar other: AM Maple

Tree seedlings (species, quantity): Some ES & GF

Quality and type of canopy closure, %: Healthy

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe:

% of defoliation - species and age of trees affected:

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): PF in snags, doug squirrel, many bird calls, Mosquitoes!, elk tracks, scat, elk scat, douglass squirrel

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: 2 healthy creeks adjacent to unit need riparian buffer

Riparian buffers? Adjacent steep slopes? Unmapped creek thru or adj. to unit

Unusual plants?

Plant community types: no queens cup, prince's pine, strawberry, twinflower, gooseberry

Soil type, quality, compaction level(s): dark, loamy, aerate

Typical plants: yarrow, st. johns, coneflower, wild rose, ss, thimbleberry, bracken, meadow rue, aster, arnica, elder, native blackberry, rosy pussytoes, boxwood, paintbrush, W COIVM bind, goose berry, thimble ber, maple

Steepness of slope/aspect of slope (direction it faces): _____

Landslide risk, describe: _____

Density of roads (per sq. mi): _____

Effects of livestock grazing: _____

Evidence of Animal Damage Control activities: _____

Evidence of bait stations for hunting, hunters' camps: _____

___ Mining ___ Herbicide spraying ___ Gopher trappings/poison Other: _____

Exotic weeds seen: birds foot, thistle

Recreational use: _____

Describe sale unit overall: Superior healthy OG near healthy large creeks (at least top). Creeks were unmapped. Few young to mature PP that are healthier than plantation units

Surrounding area: contiguous forest ___ high-graded forest never logged area ___ canyon

___ roadless area(s) ___ wildlife corridor meadow ___ grassland ___ rocky upland

___ high desert ___ seedlings pine plantation ___ clear cut ___ other cut: _____

public land, agency USFS ___ private land, ownership _____

riparian (specify): 2 or more creeks

___ area of human habitation _____

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions: Cannon Powershot A590

① header ② small den ③ adjacent stream ④ PF in snags

⑤ typical view, open area w/ OG ES ⑥ A w 43" GP

⑦ evidence of previous thinning ⑧ unknown scat

⑨ creek ⑩ creek w/ GPS coordinates ⑪ healthy ponderosa

⑫ amidst healthy old growth

GF
|||
ES
|||

Snags
1 GF
1 GP w/ |
logs

* Regardless of whether this was logged before, it's now nice old growth/mature habitat, & good marten habitat & active Pileated woodpecker habitat should be protected as such.

Recommendations LEAGUE OF WILDERNESS DATE July 8th, 2018

for sale unit: DROP IT! DEFENDERS NTL FOREST Umatilla

This is high quality old growth mixed conifer habitat & active Pileated woodpecker habitat. BLUE MOUNTAINS DISTRICT Walla Walla

BIODIVERSITY PROJECT PROJECT Glass

27803 Williams Lane Fossil, OR 97830 UNIT Sec. 12, immediately So. of 433, SURVEYOR'S NAME Karen C. Eay 400, N of 6413, N. of Sackermost sale unit along rd 400 just NW of junction of 6413 & 6236

Subjective evaluation of area: This sale unit was clearly mapped to be mature & old growth mixed conifer forest, not a plantation, as claimed in the purposes need for this sale - what's going on? Not acceptable.

Roadless area Never logged? Plantation Many old growth logs and snags

Old growth/mature forest: Mostly mature lower on the slope, but w/ more OG higher up.

Average tree size in "dbh": variable, 37.3" WL

Examples of large tree diameter: 27" WL, 24.3" DF, 29.8" GF, 45" ES, 23" ES, 38.8" ES, 42.5" GF

* # of old growth trees per acre: 20 OG Grand fir, 14 OG Englemans spruce, & 3 OG WL w/ OG snags: 2 GF & 1 ES, & OG logs: 2 GF, 2 WL & 2 ES

Previously logged approx. age of trees: No signs of past logging within the sale unit.

Describe marking to cut: None

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: No stumps within the sale unit

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine

Juniper Doug Fir Western Larch Grand Fir Lodgepole Pine Engleman

Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder

Shasta Red Fir Sugar Pine White Pine Incense Cedar other: Rocky Mt. maple

Tree seedlings (species, quantity): Mostly GF & ES

Quality and type of canopy closure, %: 55-60% under tall m-OG GF, WL, & ES

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: large OG GF, large OG GF snags & logs, large OG ES (upto 45' dbh), large (larger) OG ES snag & log, high OG GF/ES count, moist area

% of defoliation - species and age of trees affected: Very green overall, w/ good canopy closure for Pileated woodpecker, & lots of m-OG GF snags for Pileated foraging

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): probable Pacific wren heard, recent Pileated woodpecker foraging, bear foraging, very fresh Pileated foraging & a Pileated heard in the sale unit, Redbreasted nuthatch, woodpecker drumming heard - likely Pileated, Ravens, fresh bear foraging, Douglas squirrel, orange & black butterfly, w/ frayed wings, yellow swallowtail butterfly, abundant down wood for marten foraging

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: an apparently buffered flowing stream at N. boundary (west side) w/ steady flow, large down wood, big ferns, & a pool - see 15:27 - 15:29

Riparian buffers? Adjacent steep slopes? Buffered on map.

Unusual plants? Spotted Coral root, Larch Bolete mushrooms

Plant community types: Princes Pine, Snowberry, Elk sedge, Pinegrass

Soil type, quality, compaction level(s): light to darker tan ashly

Typical plants: Patlifinder, Meadow Rue, Star-flowered Solomon's Seal, Redstraw, Sweet Cicely, Arnica Cardifolia, Cott's foot, Viola sp., Baneberry, Coneflower, Valerian, False Solomon's Seal, Viola sp.

at top of ridge So. side of sale unit

wildlife cont.: elk trail,

Steepness of slope/aspect of slope (direction it faces): generally a west aspect - moderate

Landslide risk, describe: Not too likely

Density of roads (per sq. mi):

Effects of livestock grazing: None seen

Evidence of Animal Damage Control activities: None seen.

Evidence of bait stations for hunting, hunters' camps:

___ Mining ___ Herbicide spraying ___ Gopher trappings/poison Other: ___

Exotic weeds seen: None seen.

Recreational use: beer cans in sale unit - likely hunting.

Describe sale unit overall: a relatively small finger of mature & old growth mixed conifer forest running East & West up a slope to East w/a high OG count at the top, lots of GF & ES OG & some WL w/ plenty of snags & logs, active Pileated &

Surrounding area: ___ contiguous forest high-graded forest ___ never logged area bear canyon

___ roadless area(s) ___ wildlife corridor ___ meadow ___ grassland ___ rocky upland use.

___ high desert ___ seedlings ___ pine plantation ___ clear cut ___ other cut: just N of another

public land, agency ES ___ private land, ownership None Glass sale unit & S. of more.

riparian (specify): perennial stream at N. boundary, buffered

___ area of human habitation None

Species seen adjacent to sale unit:

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used. Karen's Canon 15:26 Survey heading & map

Photo #s & descriptions: 15:27-15:29 - running stream w/down wood, ferns, & pool at N. boundary of sale unit

15:37 extensive Pileated foraging on a GF snag (15:39) tall overstory GF & WL canopy - about

15:42 - a big fly (15:55) abundant down & elevated wood for marten ^{subnivian foraging} 755-60%

15:57 - m-OG WL w/an OG GF & 2 m GF snags - does not look like a plantation.

15:59 - (2) Very fresh Pileated foraging w/ chips on an OG + m GF snags

16:17 - left to right - a double trunked OG WL, an OG GF, & an OG ES in OG count area

16:18 - me w/a 39" OG GF " " (16:25) me at the base of a 48" OG Englemann spruce

16:34 - a huge OG ES snag & log & a very large live ^{OG ES - 2 photos: base & top}

16:39 - me kneeling a 38.8" OG ES w/ huge OG ES log in foreground

17:02 - fresh bear foraging in a GF log (17:06) very abundant elevated & down wood for

17:12 - Pileated foraging in a large OG fir snag ^{subnivian winter marten foraging}

17:15 - a broad band of Cascara & alders over the stream along N. boundary

17:24 - a 42.5" OG Grandfir w/me at base (17:28) looking up the trunk of a 39.3" OG WL

17:39 - a Likely Larch Bolete (17:41) an elk trail leading into the sale unit

OG Count: OG ES - 4/2, 1/4, 1/4, 1/11
OG GFs - 3, 5/2, 1/11, 3/4, 1/2
OG WL - 1/11

OG snags - 1GF, 1GF, 1ES, 1ES, 1GF, 1GF, 1GF, 1ES, 1GF, 1ES, 1GF

m OG count area

Recommendations

for sale unit: **DROP!**

Very nice old growth moist mixed conifer habitat with lots of Pileated woodpecker & elk use.

LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT 27803 Williams Lane Fossil, OR 97830

DATE 7/6/18 NTL FOREST Umatilla DISTRICT Walla Walla PROJECT Glass Sale UNIT Section 8, center; N/4 & SW/4 of 6413, SURVEYOR'S NAME Relic Ed rd 500 Karen Sag 160

Subjective evaluation of area: Apparently never logged. What's going on here? Why is this planned as a sale unit? Logging this would not be restoration! Apparently the Forest Service hasn't field surveyed this??

Roadless area Never logged Plantation Many old growth logs and snags

Old growth/mature forest: Very high quality old growth GF, DF, & ES habitat w/ lots of large tree, snags, & logs.

Average tree size in "dbh": variable. Examples of large tree diameter: 41" DF 30.9 DF, 40" DF 44" DF 38.3 DF 31" ES 40" GF 41.5 GF

of old growth trees per acre: 15 GF, 7 DF, 2 GF snag 1 DF snag, 2 GF logs 35.5 ES

1 DF log, 1 ES log, 1 fir stump (30) (28 live)

Previously logged approx. age of trees: Only one stump seen, no signs of past commercial logging.

Describe marking to cut: orange leave tree marking (S end)

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: No sign of former commercial logging

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine Juniper 2 Doug Fir Western Larch 1 Grand Fir Lodgepole Pine 3 Engleman Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder Shasta Red Fir Sugar Pine White Pine Incense Cedar other: RM maple

Tree seedlings (species, quantity): mostly GF, some ES

Quality and type of canopy closure, %: 100%

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: Large old growth GFs, DFs, & ES & large OG GF, DF, & ES logs

% of defoliation - species and age of trees affected: very green

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): deer trail, elk trail, elk tracks, bear foraging, western tanager, recent p woodpecker foraging, elk, red breasted nut hatch Sapsucker foraging, fresh Pileated woodpecker foraging.

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: none seen

Riparian buffers? Adjacent steep slopes? N/A

Unusual plants? Loral root, ghost pipe, or pine sap, un ID'd saph

Plant community types: pine grass, snowberry, prince's pine, bl huckleberry, queen's cup bead lily

Soil type, quality, compaction level(s): not as compacted as logged areas, med brown loamy

Typical plants: birch leaf spirea, w rose, barwood, w shrub, ceanothus, serviceberry, OR grape, pathfinder meadow rue, pyrola picta, sweet cicely, bracken, sticky currant, jacob's ladder, cornflower horse mint

Steepness of slope/aspect of slope (direction it faces): mild slope w/E/NE aspect leading to steep slope pitch right over Buzzard Creek
 Landslide risk, describe: _____
 Density of roads (per sq. mi): _____
 Effects of livestock grazing: None seen

Evidence of Animal Damage Control activities: None seen
 Evidence of bait stations for hunting, hunters' camps: many user-created & occupied camps along rd 64 nearby, recreational traffic, fully occupied campground at Jubilee Lake
 Mining _____ Herbicide spraying _____ Gopher trappings/poison _____ Other: _____

Exotic weeds seen: None seen
 Recreational use: very high recreational use area - see above
 Describe sale unit overall: quiet (except for bird songs & goshawk) right above Buzzard Creek on a mildly sloping plateau w/ lots of live OG, OG snags, & OG logs, as well as consistently good canopy closure for goshawk, no dense thickets, healthy
 Surrounding area: contiguous forest high-graded forest never logged area canyon
 roadless area(s) wildlife corridor meadow grassland rocky upland
 high desert seedlings pine plantation clear cut other cut: _____
 public land, agency FS private land, ownership None
 riparian (specify): Buzzard Creek to E/NE
 area of human habitation None

Species seen adjacent to sale unit: Elk tracks & trails, elk scat
 Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used. Karen's Canon 9:32 - Survey heading & map (blue units)

Photo #s & descriptions: 9:32 Looking upstream along Buzzard Creek channel below sale unit
9:33 Looking downstream along Buzzard Creek channel below sale unit
9:39 & 9:40 - Unshed plant in Buzzard Creek channel - opposite leaves w/coarse serration
9:49 - top of a healthy OG 43.5" dbh Grandfir (9:57) me at base of same 43.5" GF
10:00 - large OG GF log & snag (10:01) me walking along large OG GF log (same one)
10:04 - self-thinning younger-mature Englemann spruce snags
10:05 - top of a large OG GF snag (10:06 & 10:07) base & tops of 2 OG live GFs
10:09 - 10:12 - an adult female goshawk protecting nest in sale unit
10:14 - a 52" dbh OG GF (10:16) a 40" dbh OG WL
10:19 - 1) base of a live OG GF & an OG GF snag 2) typical small trees
10:21 - 1) 2 OG GF logs 2) another large OG GF = 41.7" dbh 3) yet another large OG GF = 43.5" dbh
10:46 - me w/a leaning 40" dbh OG DF at edge of sale unit over Buzzard Creek
11:02 - 2 elk trails leading from Buzzard Creek to sale unit w/close up
11:04 - 1) Looking upstream along Buzzard Creek below sale unit w/alder cover & big unshed ferns, & 2) Looking downstream along Buzzard Creek below sale unit w/down wood, ferns, Thimbleberry, Swamp gooseberry, big ferns, Pott'sfoot, Snowberry, etc
11:09 & 11:10 - an orange & black butterfly w/frayed wing edges on my shoe
11:13 - 2 views of Buzzard Creek channel pools (now dry) w/ large cobble

OG count: OG WL: 1141
 OG GFs: 6, 14, 11, 11, 11
 OG ES: 111
 OG DF: 11
 OG snags: 16F, 14W, 16F, 1ES, 1

10:05
 11:05
 11:25

Recommendations LEAGUE OF WILDERNESS

for sale unit: don't log ES or DEFENDERS

WL, thin unhealthy & dense BLUE MOUNTAINS

patches of LP up to 10" or so. BIODIVERSITY PROJECT

leave cover for wildlife, but create 27803 Williams Lane

variable density w/ openings - including existing openings. Fossil, OR 97830

Subjective evaluation of area:

plantation, v stressed by past CC & overcrowding. Doesn't feel

natural. Maintain variable density.

___ Roadless area ___ Never logged Plantation ___ Many old growth logs and snags

___ Old growth/mature forest: young-younger-mature

Average tree size in "dbh": younger-mature & young - e.g. 8-12" dbh mostly

Examples of large tree diameter: None except outside/adjacent into NW.

of old growth trees per acre: Not enough OG to count.

Previously logged approx. age of trees: clearcut - young to younger mature, mostly LP

Describe marking to cut:

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: not regenerating OG

___ Mixed conifer, specify species and number in descending order of prevalence: ___ Ponderosa Pine

___ Juniper Doug Fir Western Larch Grand Fir Lodgepole Pine Engleman

Spruce ___ Subalpine Fir ___ Yew ___ Mt. Mahogany ___ Aspen Willow Alder

___ Shasta Red Fir ___ Sugar Pine ___ White Pine ___ Incense Cedar other: rocky red maple

Tree seedlings (species, quantity):

Quality and type of canopy closure, %:

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist

area, high elevation, describe: adjacent OG ES & GF

% of defoliation - species and age of trees affected: Browning of WL & LP needles

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts,

dens, burrows, beds, hives, etc.): bear foraging, root wad burrow

robin, junco, yellow warbler, hermit thrush, antler rub

tree, ruby crowned kinglet, nuthatch, chickadee, ground squirrel

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs,

creeks, rivers, lakes, ponds) describe: perennial creek flowing in to unit, good flow, some

meanders, w fern, nettles, moss, tall bluebells, hawkers fairymill, meadow

rue, colts foot should have 150ft buffer, alder, moist meadow on

slope, buffer by 100ft, seasonal drainage N to S

Riparian buffers? Adjacent steep slopes?

Unusual plants? Spotted coral root

Plant community types: big leaf huckleberry, ac head lily, elk sedge, pine

grass, prince's pine

Soil type, quality, compaction level(s): very compacted w/ lots of solid trails

Typical plants: coneflower, w rose, peary, yarrow, w strawberry, astor, jacob's ladder,

arnica cordopholia, goosberry, western columbine, daisy, paintbrush, b trefoil,

ironia, rosy pussy toes, tall bluebell, elderberry, sticky cinquefoil, boxwood, California

vineflower, cf. 4. bet cirike, hawthorn, reanot, arnica, clover, thimbleberry, also hellebore

DATE 7/6/18

NTL FOREST Unatilla

DISTRICT Walla Walla

PROJECT Glass sale

UNIT SE of 64th sec 8 N# 6234

SURVEYOR'S NAME Felice N# 401

Karen



wpin, native SW, cont

Steepness of slope/aspect of slope (direction it faces): generally south facing

Landslide risk, describe: N/A

Density of roads (per sq. mi): _____

Effects of livestock grazing: None seen

Evidence of Animal Damage Control activities: None seen

Evidence of bait stations for hunting, hunters' camps: _____

Mining Herbicide spraying Gopher trappings/poison Other: _____

Exotic weeds seen: _____

Recreational use: hunting camp (vc)

Describe sale unit overall: _____

Surrounding area: contiguous forest high-graded forest never logged area canyon

roadless area(s) wildlife corridor meadow grassland rocky upland

high desert seedlings pine plantation clear cut other cut: _____

public land, agency FS private land, ownership None

riparian (specify): _____

area of human habitation None

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions:

11:15, 11:16: survey headings w/ maps 11:17 adjacent hunter's camp 11:21 creek w/ ferns 11:23 un ID'd plant 11:24 water flow 11:24 un ID'd plant, 4 petal pink flower, opposite leaves, rotate around stem, serrated 11:26 OG GF log over stream 11:30 alder over creek 11:33 typical view. Even aged LP & GF 11:34 paintbrush 11:36 veronica 11:37 typical view, open meadow 11:39 stream, alders, R w/ gooseberry 11:41 2 ES 11:44 unregenerated skid trail 12:15 lodgepole w/ defol 12:20 typical view, SW end 12:25 antler nub tree 12:27 healthy WL 12:31 antler nub tree #2 12:38 OG ES log 12:34 ES stand 12:36 violet 12:39 mariposa lily 12:40, 12:42 typical view, open meadows 12:44 insects pollinating wild rose 12:48 healthy young WL 12:49 3x native bb on 3 leaf lupin

⊛ We are strongly opposed to logging within PACFISH/INFISH buffers, which this would be.

Recommendations

LEAGUE OF WILDERNESS

DATE July 7th, 2018

for sale unit: ⊛ DROP IT!

DEFENDERS

NTL FOREST Umatilla

Great old growth moist

BLUE MOUNTAINS

DISTRICT Walla Walla

BIODIVERSITY PROJECT

PROJECT Glass

Buzzard Creek w/ an active goshawk nest in the middle of it!

27803 Williams Lane

UNIT Section 9, S46413, W. of Buzzard Creek

Fossil, OR 97830

SURVEYOR'S NAME Karen C. Adams

Subjective evaluation of area: If this was logged before, it's certainly not looking like it now - Lots of large live old growth, OG snags, & OG logs - see OG count. Healthy forest w/ good plant cover, giving shade to Buzzard Creek & controlling sediment, & w/ an active Goshawk nest.

Roadless area Never logged? Plantation Many old growth logs and snags

Old growth/mature forest: High old growth count despite a lot of smaller trees - easy to walk through - lots of OG snags & logs.

Average tree size in "dbh": 11" dbh

Examples of large tree diameter: 43.5" GF, 52" GF, 40" WL, 40" DF, 41.7" GF, 43.5" GF

⊛ # of old growth trees per acre: 12 OG GF, 3 OG WL, 1 OG DF, 2 OG ES, w/ OG snags: 2 GF, 1 ES, 1 OG WL snag, & OG logs: 6 GF

Previously logged approx. age of trees No signs of former logging

Describe marking to cut: None

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: No signs of former logging

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine

Juniper 4 Doug Fir 2 Western Larch 2 Grand Fir Lodgepole Pine 3 Engleman

Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder

Shasta Red Fir Sugar Pine White Pine Incense Cedar other:

Tree seedlings (species, quantity): mostly GF saplings

Quality and type of canopy closure, %: about 60% under 4 M GF

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: large OG GF, moist PAC adjacent to Buzzard Creek, OG large GF log & snag,

% of defoliation - species and age of trees affected: Mostly green w/ some self thinning of younger - mature ES & GF creating snag habitats

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): Varied Thrush, Redbreasted nuthatch, Hermit thrush, likely yellow-rumped warbler heard, Cassin's Vireo, a large female adult N. goshawk seen - she called + stopped at me, defending an active nest in the middle of the sale unit - see photos 10:09-10:12, deer trail, elk scat, orange & black butterfly, possible Pine Siskin heard, unident songbirds, Juncos, Pacific Wren seen & heard,

mostly typical plants in riparian area → Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: Buzzard Creek adjacent below sale unit. It looks like this should be a perennial creek, though this section is currently dry - broad channel, well-defined w/ small to large cobble, some large wood, & debris jam successfully holding back sediment, minimal Alder, topographic & conifer shading, Swamp gooseberry,

Riparian buffers? Adjacent steep slopes? adjacent steep slopes, past being adjacent, Needs 300' buffer

Unusual plants? 9:39 & 9:40 - in Buzzard Cr. opposite leaves w/ coarse serration

Plant community types: Queen's Cup Bead Lily, Big leaf huckleberry,

Soil type, quality, compaction level(s): dark brown loamy w/ clay

Typical plants: Sweet Cicely, Bedstraw, Star-flowered Solomon's Seal, Jacob's Ladder, moss, Meadow Rue, Arnica Cordifolia, Pathfinder, Banberry, Hooker's Fairybells, Rattlesnake plantain, yellow violet, Valerian

Steepness of slope/aspect of slope (direction it faces): mild slope w/E/NE aspect leading to steep slope pitch right over Buzzard Creek

Landslide risk, describe: _____

Density of roads (per sq. mi): _____

Effects of livestock grazing: None seen

Evidence of Animal Damage Control activities: None seen

Evidence of bait stations for hunting, hunters' camps: many user-created & occupied camps along rd b4 nearby, recreational traffic, fully occupied campground at Jubilee Lake

Mining _____ Herbicide spraying _____ Gopher trappings/poison _____ Other: _____

Exotic weeds seen: None seen

Recreational use: very high recreational use area - see above.

Describe sale unit overall: Quiet (except for bird songs & goshawk) right above Buzzard Creek on a mildly sloping plateau w/ lots of live OG, OG snags, & OG logs, as well as consistently good canopy closure for goshawks, no dense thickets, healthy

Surrounding area: contiguous forest high-graded forest ^{to E} never logged area ^{to S} canyon _____ roadless area(s) _____ wildlife corridor _____ meadow _____ grassland _____ rocky upland _____ high desert _____ seedlings _____ pine plantation _____ clear cut _____ other cut: _____

public land, agency FS private land, ownership None

riparian (specify): Buzzard Creek to E/NE

area of human habitation None

Species seen adjacent to sale unit: Elk tracks & trails, elk scat

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used. Karen's Canon 9:32 - Survey heading & map (blue units)

Photo #s & descriptions: 9:32 Looking upstream along Buzzard Creek channel below sale unit

- 9:33 Looking downstream along Buzzard Creek channel below sale unit
- 9:39 & 9:40 - Unshed plant in Buzzard Creek channel - opposite leaves w/coarse serration
- 9:49 - top of a healthy OG 43.5" dbh Grandfir (9:57) me at base of same 43.5" GF
- 10:00 - large OG GF log & snag (10:01) me walking along large OG GF log (same one)
- 10:04 - self-thinning younger-mature Englemann spruce snags
- 10:05 - top of a large OG GF snag (10:06 & 10:07) base & tops of 2 OG live GFs
- 10:09 - 10:12 - an adult female goshawk protecting nest in sale unit
- 10:14 - a 52" dbh OG GF (10:16) a 40" dbh OG WL
- 10:19 - 1) base of a live OG GF & an OG GF snag 2) typical small trees
- 10:21 - 1) 2 OG GF logs 2) another large OG GF = 41.7" dbh 3) yet another large OG GF = 43.5" dbh
- 10:46 - me w/a leaning 40" dbh OG DF at edge of sale unit over Buzzard Creek
- 11:02 - 2 elk trails leading from Buzzard Creek to sale unit w/close up
- 11:04 - 1) looking upstream along Buzzard Creek below sale unit w/palder cover & big unshed ferns, & 2) looking downstream along Buzzard Creek below sale unit w/down wood, ferns, Thimbleberry, Swamp gooseberry, big ferns, Pottsfoot, Snowberry, etc
- 11:09 & 11:10 - an orange & black butterfly w/frayed wing edges on my shoe
- 11:13 - 2 views of Buzzard Creek channel pools (now dry) w/ large cobble

OG count: OG WL: 11 WL
 OG GFs: 6 WH 11 WH 11
 OG ES: 11
 OG DF: 1
 OG Snags: 16 GF, 1 WL, 16 GF, 1 ES,
 OG Logs: 4 GF, 16 GF, 16 GF

Recommendations
for sale unit:

LEAGUE OF WILDERNESS
DEFENDERS
BLUE MOUNTAINS
BIODIVERSITY PROJECT
27803 Williams Lane
Fossil, OR 97830

DATE 7/6/18
NTL FOREST UMATILLA
DISTRICT WALLA WALLA
PROJECT GLASS
UNIT BISected Bluffs
SURVEYOR'S NAME MILES + CHRISTY GLASS

LOOKING FOR LITTLE CREEK

Subjective evaluation of area: THE BOTTOM PORTION OF THE UNIT FELT LIKE AN EXCITING PLEASANT SURPRISE AT THE BOTTOM OF THE BLAND BOX OF CEREAL WHICH WAS THE TOP PART OF THE UNIT. PEACEFUL FEELING IN MEADOW PARTS OF N UNIT OTHERWISE IT SEEMED "WEEBY" INSTEAD OF WSH W/ UNDERGROWTH.

RPP ALL SAME AGE IN W SIDE OF N SECTION

Roadless area Never logged X Plantation Many old growth logs and snags
X Old growth/mature forest: MOSTLY MATURE GF & ES SOME WL & ONE AREA PREDOMINANTLY PP
Average tree size in "dbh": BOTTOM HALF OF UNIT WITH MANY LIVE OG GF & ES
Examples of large tree diameter: 51" GF, 56" GF, 34" ES, 35" ES, 51" GF, 53" GF, 47" ES
of old growth trees per acre: 20 GF, 12 ES, 2 LOGS, 1 STUMP 59" GF SNAG

Previously logged approx. age of trees _____

Describe marking to cut: _____

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: SKID TRAILS, STUMPS, OG STUMPS, LACK OF REGENERATION IN SKID TRAILS

Mixed conifer, specify species and number in descending order of prevalence: 4 Ponderosa Pine
Juniper Doug Fir 5 Western Larch 2 Grand Fir Lodgepole Pine 3 Engleman
Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder
Shasta Red Fir Sugar Pine White Pine Incense Cedar other: _____

Tree seedlings (species, quantity): VERY FEW, MOSTLY GF SOME ES

Quality and type of canopy closure, %: 60% HEALTHY GREEN TOPS, MOSTLY SPRUCE SOME GF
50-70% LOWER BRANCH DEFOL. 10% LUSH GREEN MATURE GF

X Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: DRAINAGE RUNNING NthS OG GF & ES + OG STUMPS, LOGS & SNAGS

% of defoliation - species and age of trees affected: A LOT OF VARIATION THROUGHOUT UNIT & TREE VARIETIES. VERY LITTLE FOR MOST OF UNIT SOME AREAS OF DENSE WITH 20-60% LOWER BRANCH

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): FORAGING, BURROWS, TRAILS, SCAT (COYOTE OR WOLF) (DEEP IN GRASS)
BEE + BUTTERFLY POLLINATORS, GRASS BEES

DEFOLIATION ON 1 YOUNG TREE WILSONI UNIT. W/ W/ W/ DEFOLIATION ON W & E PP. IN PLOTS WHERE OTHER TREES HEALTHY.

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: SEASONAL DRAINAGE, DEEP W/ 44° SLOPE FACING NthE, VERY MOIST
ALSO DRAINAGE, CULVERT ALONG SIDE ROAD INTERSECTING

Riparian buffers? Adjacent steep slopes? STEEP SLOPE ALONG DRAINAGE.

Unusual plants? NONE SEEN

Plant community types: SNOWBERRY, QUEENS CUP,

Soil type, quality, compaction level(s): DRY BROWN MOIST LOAM

Typical plants: HEYLE, DRACHENFEHN, STAR FLOWERED SOLOMON SEAL, COVE FLOWERS, PATH FINDER
MEADOW RUE, INDIAN PAINT BRUSH, JACOB'S LADDER, YARROW, COLUMBINE, FIELD MIT

Steepness of slope/aspect of slope (direction it faces): 44% SLOPE FACING N*NE ALONG DRAINAGE

MOST OF UNIT MILD TO MODERATE SLOPE

Landslide risk, describe: NONE

Density of roads (per sq. mi): 1.5

Effects of livestock grazing: N/A

Evidence of Animal Damage Control activities: N/A

Evidence of bait stations for hunting, hunters' camps: HUNTER'S CAMP - SCAFFOLDING FOR HANGING

DEER ATTACHED TO OG ES

___ Mining ___ Herbicide spraying ___ Gopher trappings/poison Other: _____

Exotic weeds seen: PANDOLION

Recreational use: HUNTER'S CAMP

Describe sale unit overall: BOTTOM PORTION LUSH DIVERSITY OF PLANTS & MANY OG GF & ES, SOME AREAS DENSE CANOPY W/LITTLE PLANT LIFE BELOW. DRAINAGE PRESENT N TO S. ROAD 0413 RAN E TO W

Surrounding area: contiguous forest ___ high-graded forest ___ never logged area ___ canyon ^{DEFOLIATION}

___ roadless area(s) wildlife corridor meadow ___ grassland ___ rocky upland

___ high desert ___ seedlings pine plantation ___ clear cut other cut: _____

public land, agency USFS ___ private land, ownership NO

riparian (specify): MOST DRAINAGE WITH LOTS OF LUSH FERNS & GOING THROUGH UNIT

___ area of human habitation NO

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used. - MILES CAMERA

Photo #s & descriptions:

12:15 - HEADER

12:20 - BURROW IN OG GF

12:24 - OG GF W/ MILES

12:25 - VIEW DENSE CANOPY, LITTLE UNDERGROWTH - 7 - M LOWER DEFOLIATION (60%)

12:31 - DRAINAGE

12:40 - BURROWS

12:43 - CHUCKY MEASURING OG GF 53"

12:49 - OLD HUNT CAMP STRUCTURE AND TRASH ON OVERGROWN ROAD ON OG ES

12:54 - MILES MEASURING 47" OG ES

1:13 - HUGE ALDER GROVE

1:15 - BEAR FORAGING

1:19 - OG STUMP W/ MILES

1:25 - ALDER GROVE FACING E

1:26 - PONDROSE PINES

1:34 - GRASS BED

1:36 - DRAINAGE

1:45 - CHUCKY MEAS OG GF SNAG 58"

1:45 - PILLIATED FORAGE ON SNAG

ALL THE SAME AGE SO POSSIBLE PLANTATION. LOTS OF SIGNS OF WILDLIFE.

Recommendations
for sale unit:

Some non-commercial
thinning could be
appropriate

LEAGUE OF WILDERNESS
DEFENDERS
BLUE MOUNTAINS
BIODIVERSITY PROJECT
27803 Williams Lane
Fossil, OR 97830

DATE 7/10/18
NTL FOREST Umatilla
DISTRICT Walla Walla
PROJECT Glass
UNIT N of Whiskey Springs
SURVEYOR'S NAME Augo, Belic

Subjective evaluation of area:
lots of evidence of wildlife, several bear scat, elk rubbing trees, Pinf bones, foraging, bird calls. Forest was a bit dense but healthy, seems to be thinning itself

Roadless area Never logged Plantation Many old growth logs and snags
 Old growth/mature forest: Significant amt of OG
Average tree size in "dbh": OG avg = 30, Indgen 10-15" small ~ 3"
Examples of large tree diameter: 34.5" GF, 35" GF, 27" ES
of old growth trees per acre: less than an acre (1/2?) 3 ES, 1 GF
(got stung! Sorry!)

Previously logged approx. age of trees
Describe marking to cut: no cut markers, boundary markers
Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: somewhat dense

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine
Juniper Doug Fir 3 Western Larch 2 Grand Fir 5 Lodgepole Pine 1 Engelman
 Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow 4 Alder
 Shasta Red Fir Sugar Pine White Pine Incense Cedar other:

Tree seedlings (species, quantity):
Quality and type of canopy closure, %: 50% healthy OG spruce & gf

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: some old growth, regenerating well, evidence of old fire, queen's cup

% of defoliation - species and age of trees affected: 50% in dense areas, all species, plenty of healthy patches as well
Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): heard PW, antler rubbing, bear scat x2, ~~heard~~ mammal burrows, elk trail grazing on BL huckleberry, bear foraging in tree, huge nest

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: several springs close, whiskey spring closest

Riparian buffers? Adjacent steep slopes? slopes to the west
Unusual plants?

Plant community types: snowberry, huckleberry, queen's cup, pine grass, elderberry

Soil type, quality, compaction level(s):
Typical plants: Jacob's ladder, meadow rue, pathfinder, cow parsnip, menzies larkspur, w. straws, yellow daisy, w. carrot, netles, oen spray, wild ginger, bed straw, hookers fairy bell, scarlet saphrophyte, starflower, arnica, CA hellebore, columbine, bearly, mint

Steepness of slope/aspect of slope (direction it faces): relatively flat

Landslide risk, describe: _____

Density of roads (per sq. mi): _____

Effects of livestock grazing: _____

Evidence of Animal Damage Control activities: _____

Evidence of bait stations for hunting, hunters' camps: _____

Mining Herbicide spraying Gopher trappings/poison Other: _____

Exotic weeds seen: _____

Recreational use: _____

Describe sale unit overall: healthy forest with some dense spindly patches, lots of animal use signs

Surrounding area: contiguous forest high-graded forest never logged area canyon

roadless area(s) wildlife corridor meadow grassland rocky upland

high desert seedlings pine plantation clear cut other cut: commercial thinning

public land, agency _____ private land, ownership _____

riparian (specify): _____

area of human habitation hunter's camp (burn barrel)

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used. Canon Powershot A 590

Photo #s & descriptions:

- ① header
- ② pic of boundary marker
- ③ termites? what is this? living GF
- ④ super recent cut
- ⑤ road
- ⑥ fire scar on log
- ⑦ bear scat
- ⑧ mammal burrows in downed snag
- ⑨ foraging on same tree
- ⑩ antler rubbing
- ⑪ nest ~~at base of ES~~
- ⑫ fire scars at base of ES
- ⑬ ~~fire scars at base of ES~~
- ⑭ ~~fire scars at base of ES~~
- ⑮ ~~fire scars at base of ES~~
- ⑯ ~~fire scars at base of ES~~
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- ㉟ ~~fire scars at base of ES~~
- ㊱ ~~fire scars at base of ES~~
- ㊲ ~~fire scars at base of ES~~
- ㊳ ~~fire scars at base of ES~~
- ㊴ ~~fire scars at base of ES~~
- ㊵ ~~fire scars at base of ES~~
- ㊶ ~~fire scars at base of ES~~
- ㊷ ~~fire scars at base of ES~~
- ㊸ ~~fire scars at base of ES~~
- ㊹ ~~fire scars at base of ES~~
- ㊺ ~~fire scars at base of ES~~

ES GF snag log
IV I



- * Buffer Spring, stream & wet meadow areas in N. end by at least 100 feet.
- * Leave all green WL, ES & GF - especially ones $\geq 15"$ dbh, & leave all snags & soon to be larger snags.
- * Could remove the P. pine in the dense plantation area, but protect the soil.

Recommendations

LEAGUE OF WILDERNESS

DATE July 9th, 2018

for sale unit: Stay out of the

DEFENDERS

NTL FOREST Umatilla

patch of old growth forest!

BLUE MOUNTAINS

DISTRICT Walla Walla

Let the rest grow on its own or

BIODIVERSITY PROJECT

PROJECT Glass

cut only - it's great elk & deer hiding

27803 Williams Lane

UNIT Section 23 & a little above, W. of 64

cover. \rightarrow up to 10-11" dbh only

Fossil, OR 97830

SURVEYOR'S NAME Karen C.

Subjective evaluation of area:

understory thinning & group openings, not clearcutting.

xN
W. of 12:
S & E of 50
W of 60,
E of
Gabriel
Spring

Roadless area Never logged Plantation Many old growth logs and snags

Old growth/mature forest:

Average tree size in "dbh": 10" dbh in dense plantation

443" ES

Examples of large tree diameter: 38.8" DF, 22" WL, 28.5" GF, 37.4" GF, 48.2" GF, 39.9" GF, 27.5" WL.

* # of old growth trees per acre: 13 OG W. Larch, 9 OG Grand fir, 7 OG Englemann Spruce, & 2 OG Doug fir,
w/OG snags: 5 WL, 2 ES, & 1 LP, & OG logs: 2 Englemann Spruce & 1 W. Larch

Previously logged approx. age of trees large OG fir stumps

Describe marking to cut: None

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe:

Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine

Juniper Doug Fir Western Larch Grand Fir Lodgepole Pine Engleman

Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder

Shasta Red Fir Sugar Pine White Pine Incense Cedar other:

Tree seedlings (species, quantity): mostly stem exclusion in plantation

Quality and type of canopy closure, %: High

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist

area, high elevation, describe: see OG count above - large OG GF, ES, DF, & WL, & large OG

WL, ES & LP snags, & large OG ES & WL logs, moist PAG, about 5130 ft. elevation

% of defoliation - species and age of trees affected: browning needles in ylm WL & GF in

dense part outside of OG area to north. A lot of P. pine defoliation & some LP & ES

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts,

dens, burrows, beds, hives, etc.): ground squirrels calling, Ruby-crowned Kinglet,

Chipping sparrow, Bobcat scat, deer bones, deer trail, deer scat, antlers,

rubbed tree, Hermit Thrush, Douglas squirrels, & a root wadded by

enough for marten

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs,

creeks, rivers, lakes, ponds) describe: None seen. Spring & flowing stream in N. end:

steady flow out of the ground w/ alder cover, the big ferns, moss, & a well-

defined channel forming a good sized stream.

Riparian buffers? Adjacent steep slopes? Buffer Spring & stream by at least 100 feet around it.

Unusual plants? 17:13 - an unusual Coral root saprophyte w/ purple & white lower petals & yellow

Plant community types: Big leaf huckleberry

Soil type, quality, compaction level(s): light tan ash

Typical plants: Coneflower, Indian Paintbrush, Asters, Yarrow, Bracken fern, Bedstraw,

CA False Hellebore, Tall Bluebells, Meadow rue, Arjya Cordifolia, Pathfinder,

Jacob's Ladder, Sweet Cicely, Valerian, Lousewort, Coral mushrooms, Violet sp., Thimbleberry,

Sticky Cinquefoil, Rattlesnake Plantain

Elephant's
Head \rightarrow

higher
branch
defoliates
in
plantation
Also 6,
lower
branch

Recommendations

for sale unit: log out PP, thin out & stressed defoliated DFs, leave all ES & GF

* DROP OG GF/ES/DF in NE corner & OG in N end, & W end

LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT

27803 Williams Lane Fossil, OR 97830

DATE 7/16/18 NTL FOREST Umatilla DISTRICT Walla Walla PROJECT Glass UNIT 13 N:3 of 6413, E#400 W#450 SURVEYOR'S NAME Karen NE#6231

Subjective evaluation of area:

Please diversify this stressed, unnatural P. pine/Douglas-fir plantation. Don't perpetuate plantations! notably, the PP & planted DFs are doing badly. ES & GF are doing well. As we walked through the sale unit, we found it to be as much as 1/3rd or more old growth habitat, NE corner, N end, & W end.

Roadless area Never logged Plantation Many old growth logs and snags
Old growth/mature forest: NE corner, N side, W side
Average tree size in "dbh": about 13.5" dbh, 52.2" GF
Examples of large tree diameter: 23" PP, 21" DF, 30" ES, 31.5" DF, 54.5" GF, 47.5" GF, 68" GF
of old growth trees per acre: more OG than we thought

Previously logged approx. age of trees
Describe marking to cut: None
Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe:

Mixed conifer, specify species and number in descending order of prevalence:
Juniper Doug Fir Western Larch Grand Fir Lodgepole Pine Engleman Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder
Shasta Red Fir Sugar Pine White Pine Incense Cedar other: RM maple, bitter cherry
Tree seedlings (species, quantity):
Quality and type of canopy closure, %: 60% under younger mature DF 50% ES & GF

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: very large OG GFs w/ large OG ES & DF & many very large OG GF snags & logs
% of defoliation - species and age of trees affected: lower branch defoliation, sap extrusions in plantation area; OG area was very green.
Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): smaller SP woodpecker foraging, Red breasted nuthatch, elk scat, deer trail, antler rub tree, bear foraging, black cap chickadee

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: seasonal spring adj to E

Riparian buffers? Adjacent steep slopes?
Unusual plants? mountain lady slipper
Plant community types: Elk sedge, Snowberry, prince's pine, elk sedge

Soil type, quality, compaction level(s): med brown loamy w/ some ash
Typical plants: wild strawberry, OR checkered mallow root, dogbane, ceanothus, yellow, DF mistle, starflower, Solomon's seal, swamp gooseberry, bedstraw, little pipevine, boxwood, sweet cicely, elderberry, false SS, western columbine, Serviceberry, ocean spray, pathfinder, bracken, cone flower, meadow me, rattlesnake plantain

Western columbine, larkspur, CA false hellebore

Steepness of slope/aspect of slope (direction it faces): mostly flat, mild slope S-SW

Landslide risk, describe: N/A

Density of roads (per sq. mi): _____

Effects of livestock grazing: None seen

Evidence of Animal Damage Control activities: None seen

Evidence of bait stations for hunting, hunters' camps: none seen

____ Mining ____ Herbicide spraying ____ Gopher trappings/poison Other: _____

Exotic weeds seen: _____

Recreational use: Firewood cutting

Describe sale unit overall: stressed Lodgepole pine plantation with crowded young

Lodgepole pine, Douglas fir and western larch with some healthier young

Engelmann spruce & Grand fir and openings - very compacted soils.

Surrounding area: contiguous forest high graded forest never logged area canyon

roadless area(s) wildlife corridor meadow grassland rocky upland

high desert seedlings pine plantation clear cut other cut: _____

public land, agency FS private land, ownership None

riparian (specify): _____

area of human habitation None

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest

holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn

if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy

mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different

areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic

weed locations. Identify camera used.

Photo #s & descriptions:

15:52 survey sheet & map 15:54 fresh PW foraging on young PP snag 15:55 little
pipiswea 15:57 RM maple 15:59 PP plantation roads 16:04 typical view of
defoliation 16:08 bitter cherry 16:15 OG DF stump 16:16 2x un ID'd mush
16:19 OG DF stump 16:21 stressed PP w/ browning needles & healthy GF saplings
16:26 young PP w/ lots of defoliation 16:27 younger mature WL canopy 16:28
healthy overstory mixed conifer NE end of unit
16:31 top & base of healthy 31.5" dbh OG DF w/ Relic / 16:33 - base (w/ Relic) & top of a 36" dbh
16:35 extensive PW foraging on GF log 16:37 2 df seedlings in nurse log
16:38 CA false hellbor flowers 16:39 stream channel 16:40 sign
16:41 only 1 mature aspen 16:47 R measuring 33 in GF 16:49 OG GF log
16:51 fresh PW foraging in OG GF snag 16:52 OG GF snag w/ live big OG behind
16:54 R by large OG GF 54.5" 16:57 R w/ OG GF 47.5" 16:59 top of 64" GF
17:00 R measuring GF 17:03 hollow trunk of 64" GF 17:04 R spending time w/ 64" GF
17:06 R w/ 53" GF 17:06 un ID'd plant 17:07 smaller leaves near stem w/ tiny
white flowers leaves are simple, pointed w/ indented veins 6" tall 17:08 un ID'd plant
flower 17:09 OG GF log 17:13 R measuring 55" GF 17:21 OG GF snag & log
17:22 OG GF 17:24 Relic measuring a 52.2" dbh OG GF, N. end 17:28 16 OG GF log & snag
17:31 OG GF 17:32 big OG GF snag 17:34 OG GF snag & ES log 17:36 OG DF stump, GF snag
17:39 3 OG snags & GF log 17:41 3' x 1' OG GF 17:47 stone understory, lots of stumps & small trees

LEAGUE OF WILDERNESS DEFENDERS
BLUE MOUNTAINS BIODIVERSITY PROJECT
27803 Williams Lane
Fossil, OR 97830

DATE July 10th, 2018
NTL FOREST Umatilla
DISTRICT Walla Walla
PROJECT Glass
UNIT So. of 6406, E of 50 (adjacent),
SURVEYOR'S NAME Karen C. Naf

evaluation of area: *It looks like parts of this were highgraded, w/ patchy removal, and other parts were old plantations where DF & WL were which is what's planned in RHCA? for the Glass sale! Plantation has tight spacing.*

Roadless area Never logged Plantation Many old growth logs and snags
 Old growth/mature forest: in RHCA, W. of rd 51, E of 50. *most density = \leq 7" dbh*
Average tree size in "dbh": *11" WL, 9" DF, In plantation, large: 17" DF, 15" LP,*
Examples of large tree diameter: *27" ES, 33.9" WL, 23.6" ES, 27.4" DF in RHCA*
of old growth trees per acre: *Only remnant within the creek RHCA*

Previously logged approx. age of trees
Describe marking to cut: *Not tree-marked, but boundary flagged along rd. 50*
Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: *This looks like patchy overstory removal highgrading, not a plantation, in parts*
Mixed conifer, specify species and number in descending order of prevalence: Ponderosa Pine
 Juniper Doug Fir Western Larch Grand Fir Lodgepole Pine Engleman
 Spruce Subalpine Fir Yew Mt. Mahogany Aspen Willow Alder
 Shasta Red Fir Sugar Pine White Pine Incense Cedar other: *OR Mt. Ash*

Tree seedlings (species, quantity): *Not many in plantation*
Quality and type of canopy closure, %: *Highly variable in highgraded area, consistently fairly high in plantation except for openings*

Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: *large OG ES live & log in RHCA, large OG DF & WL in RHCA, moist PAC by creek,*

% of defoliation - species and age of trees affected: *Lower branch defoliation in lodge pole pines as they are naturally shaded out by overtopping hl, DF, & GF = natural succession*

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): *Hermit Thrush, deer trail, Hermit Thrush, yellow-rumped warbler, Swainsons, Douglas squirrels, Redbreasted nuthatch, deer trails, Juncos, Elk scat, deer scat, Bobcat scat, a Raven heard*

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: *a wide creek w/ good flow in W. side of sale unit w/ good alder cover, small to large down woods, small waterfalls & pools, clear water, small to medium coldfall, meandering channel, moss on rocks in water - generally good condition, w/ the big ferns, good shading*

Riparian buffers? Adjacent steep slopes? *Creek needs a 150' INFISH/PACFISH buffer, each side*
Unusual plants? *Spotted Coralroot, Unimodal Coralroot w/ purple & white lower petal, yellow*

Plant community types: *Twinflower, Queen's Cup, Bead Lily, Bigleaf huckleberry, Snakberry, Prince's Pine, Ocean Spray,*

Soil type, quality, compaction level(s): *Medium brown loamy w/ light tan ash layer*
Typical plants: *Thimbleberry, Sweet Creilly, Redstraw, Fernica, Cardifolia, Meadow Rue, Pearly Everlasting, Coneflower, wild Strawberry, Swamp gooseberry, Pathfinder, moss, False Solomon's seal, Rattlesnake plantain, Baneberry, Palmate Coltsfoot, Boxwood, Silky lupin, Indian Paintbrush, Tall slender Penstemon, wild Rose, Star-flowered Solomon's Seal,*

*in plantation
Valerian, ← More typical plants of
Rosy plussy toes, Coneflower,
Bracken fern, CA False Hellebore,*

*Summer Creek
Maiden Hair Fern
an Amanita mushroom
Turtledove stalk
in RHCA*

Private land

Steepness of slope/aspect of slope (direction it faces): mild

Landslide risk, describe: N/A

Density of roads (per sq. mi): High

Effects of livestock grazing: None seen

Evidence of Animal Damage Control activities: None seen

Evidence of bait stations for hunting, hunters' camps: _____

Mining _____ Herbicide spraying _____ Gopher trappings/poison _____ Other: _____

Exotic weeds seen: None seen

Recreational use: likely for hunting nearby

Describe sale unit overall: old growth, nice forest within the RHCA. Past partial overstory removal & highgrading above creek to Rd 51 & on W. side & S. of rd 51 in sale unit. Plantation evidently planted w/ WL, DF, & maybe LP in central, N, & E end of sale unit

Surrounding area: contiguous forest high-graded forest never logged area to N. canyon
 roadless area(s) wildlife corridor meadow grassland rocky upland

high desert seedlings pine plantation clear cut other cut: sale unit w. of rd 50
 public land, agency FS private land, ownership at So. boundary adjacent

riparian (specify): Summer? Creek - hopefully buffered, W. side of sale unit - see photos

area of human habitation possible on private land past So. boundary - logging heard.

Species seen adjacent to sale unit: _____

Photo guidelines: unusual plants/animals, wildlife, old growth canopy-dependent species evidence, nest holes, foraging, burrows, canopy in green sales, riparian areas without buffers, relative severity of burn if fire salvage sale, old growth grove, cattle damage, cumulative impacts of former logging, healthy mixed-conifer, etc.. Minimize number of photos. Draw map of unit & show differences in different areas e.g. Location of old growth, riparian areas, significant wildlife sightings, sensitive plant & exotic weed locations. Identify camera used.

Photo #s & descriptions: Karen's Canon 9:47 Survey heading & map

- In creek RHCA
- 10:15-10:16 unidentified plant w/ single stem of tiny 5 petaled white flowers w/ long stamens
 - 10:17 - Queen's Cup Beard Lily (10:21) w/ 3 lobed palmate leaves w/ rounded serration
 - 10:34 - an OG ES snag & log by creek
 - 10:35 - healthy, tall mature to OG ES, DF overstory w/ healthy GF midstory
 - 10:41 - A very large OG ES log (10:45) healthy tall OG & m DF & GF overstory (10:46) wild Rose
 - 10:50 - typical view outside RHCA - more cut-over w/ small tree density, more open overstory
 - 10:53 - Twinflower, Big leaf huckleberry, & Prince's Pine - moist PA6
 - 10:56 - Mt. Ash (11:04) an OG GF snag by rd 51 (11:06) Lost Creek unit 55 boundary sign for past or present sale?
 - 11:01 - understory typical view w/ only NET small tree density (11:13) an OG ES stump w/ clipboard for scale
 - 11:11 - This is not a plantation - mature green GF, ES, & LP
 - 11:16 - healthy LP, WL, & ES younger-mature overstory (11:26) tight spacing of m DFs & WL in plantation
 - 11:30 - a clearing in the plantation area aff rd 51 w/ healthier trees except for some browning needles in WL
 - 11:33 - Mt. Lady's Slipper (11:46) new w/ blue boundary flagging
 - 11:55 - Cobb's foot flower (12:00) Pint sale unit 72 boundary sign
 - 12:03 - 2 views of an Amanita mushroom (12:04) a W. Larch Bolete (12:13)
 - In RHCA: 12:14 large OG ES logs at on slope above alder-covered creek #1 OG ES on opposite bank above creek
 - 12:14 Carpenter ants & their sandcast (12:16) Arnica flowers (12:21) Valerian flowers
 - 12:22 & 12:23 - the unided big fern - patterns (12:24-12:27) Beauty shots of the creek under alders

DATE 7/16/18
 NTL FOREST Umatilla
 DISTRICT Walla Walla
 PROJECT Glass
 UNIT 13 N^s of 6413, E of 400 W of 450
 SURVEYOR'S NAME Karen NE of 6236
 Relic



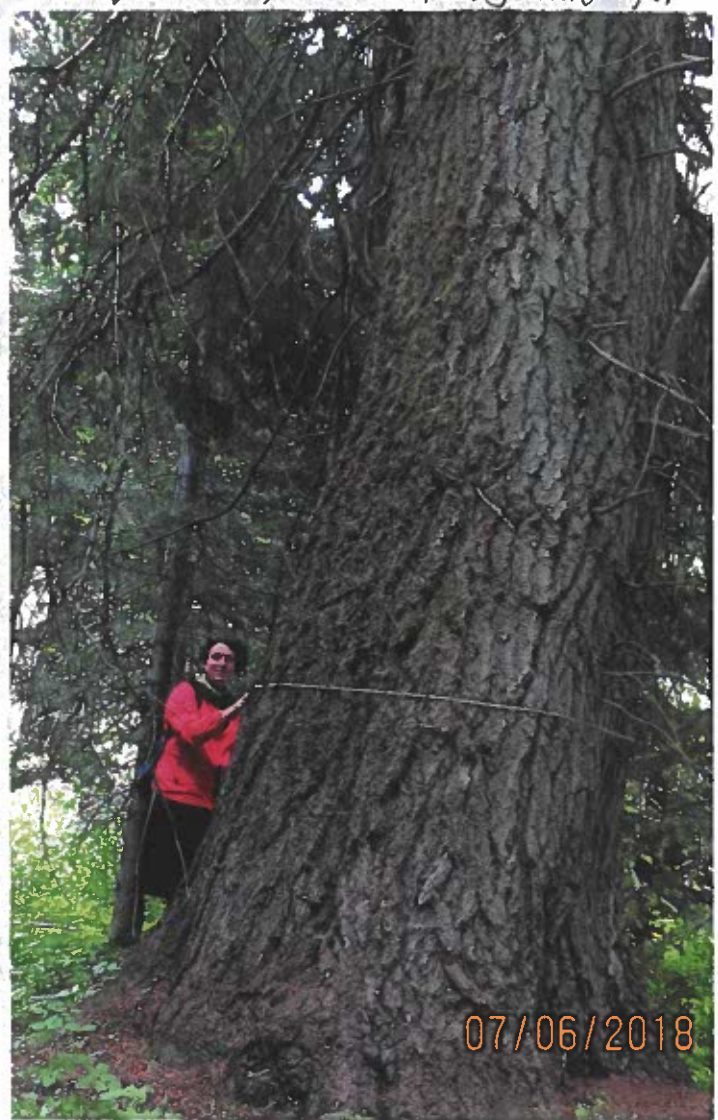
Recommendation:
 * DROP all old growth forest - with old growth Grandfir/Englemann spruce/Douglasfir in the NE corner of the sale unit & West end - We don't want just the large trees left, but all old growth forest areas completely dropped from sale units, as logging these is contrary to the stated purpose and need of the Glass Project.

Evidence of historically natural mixed conifer: Very large old growth Grandfirs with large old growth Englemann spruce & Douglas fir & many very large old growth Grandfir logs & snags.
 Relic with a 54.5" dbh old growth Grandfir

17:03 Relic w/a 64" dbh old growth Grandfir



07/06/2018 1



07/06/2018



07/06/2018 1



07/06/2018

16:31 → Relie measuring a 31.5" dbh old growth Douglas fir

15:54 → fresh Pileated woodpecker foraging

16:35 → Pileated foraging on a Grand fir Log

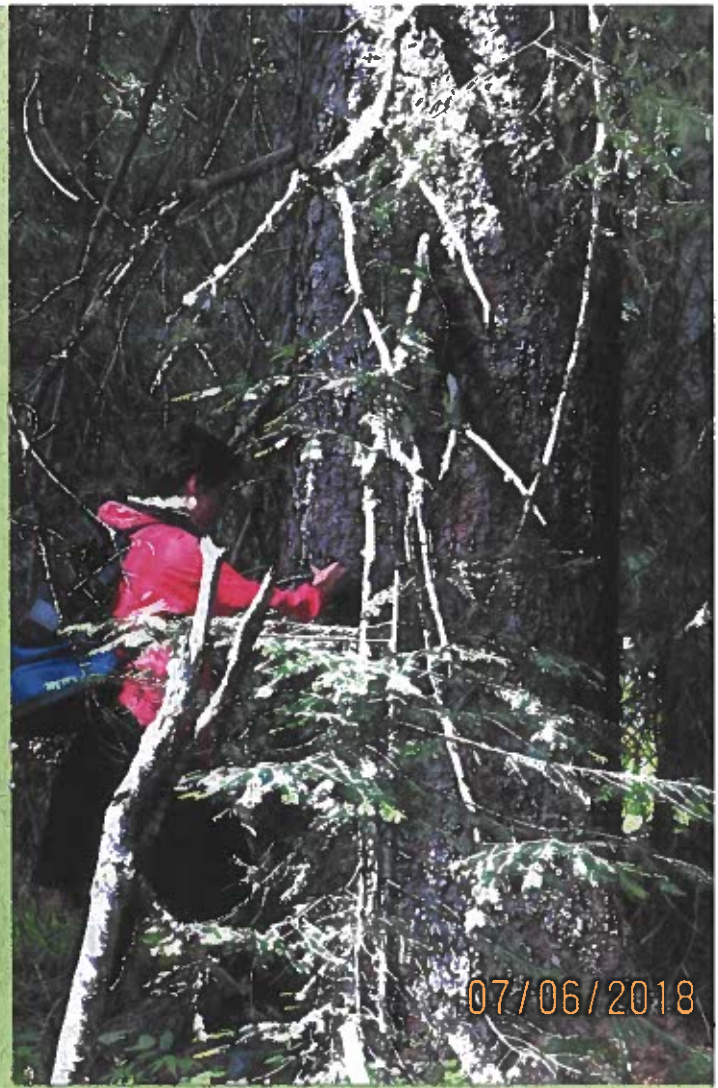
Glass sale unit
 section 13, N & S of 6413,
 E of rd 400, W of 450,
 NE of rd 6236
 Walla Walla District
 Umatilla Ntl Forest

Wildlife sign:
 Pileated woodpecker
 foraging, smaller
 woodpecker foraging,
 bear foraging, elk
 scat, deer trail,
 antler rub tree,
 Redbreasted nuthatch,
 Black-capped
 Chickadee





07/06/2018 1



07/06/2018

16:47 → Relic measuring a 33" dbh old growth Grand fir

16:33 → Relic w/ a 36" dbh old Englemann spruce
16:49 → Relic sitting on a large old growth Grand fir log

Glass sale unit,
section 13, N & S of 6413,
E of 400, W of 450 rd.,
NE of 6236 rd.

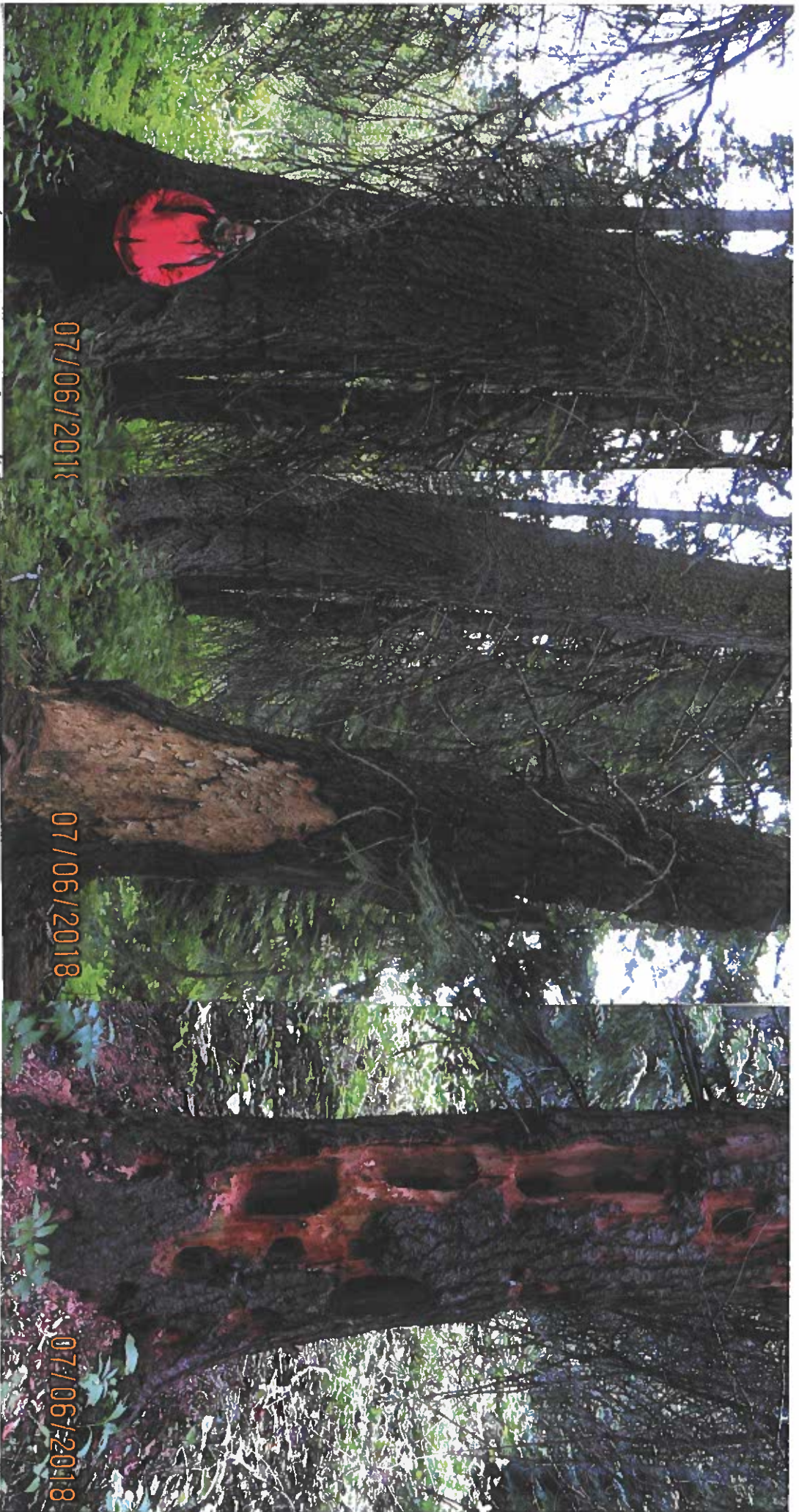
Walla Walla District,
Umatilla Natl Forest

Subjective evaluation:

As we walked through
the sale unit, we found
it to be as much as
1/3rd or more old growth
habitat - in the NE
corner, North end, &
West end. DROP
all growth habitat
from sale unit
boundaries.



16:49 → Relic demonstrates the large old growth Grand fir structure size.



07/06/2011

07/06/2018

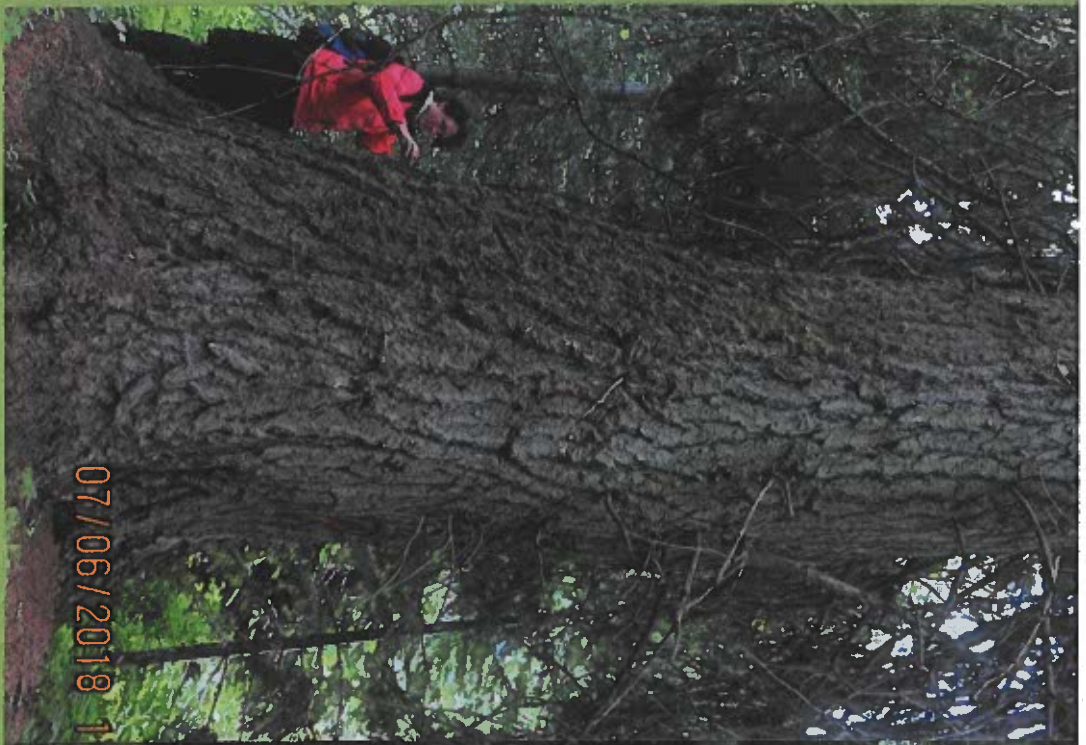
07/06/2018

16:54^a Red fir with a 54.5" dbh old growth
Glass Sals habit, section 13,
N&S of 6413 rd, E of 400 rd,
W of 450, NE of 6236 rd
Walla Walla District,
Wematilla National Forest

16:52^a Same tree as 16:54 with an old growth
Grand fir snag with likely bear foraging
Sample Large trees: Grand fir: 54.5", 47.5", 64", 53", 55" dbh
Ponderosa pine: 23" dbh Douglas fir: 21" dbh

16:57^a fresh P. leated woodpecker foraging
in an old growth Grand fir snag

Englemann spruce: 36" dbh



07/06/2018 11

17:00⁺ Relic measuring a hollow 64" dbh
old growth Grand fir

Glass sale unit, section 13
N & S of rd 6413, E of 400 rd.
W of 450 rd, NE of 6236 rd.
Walla Walla District
Walla Walla National Forest



07/06/2018

17:06⁺ Relic with a 53" dbh old
growth Grand fir

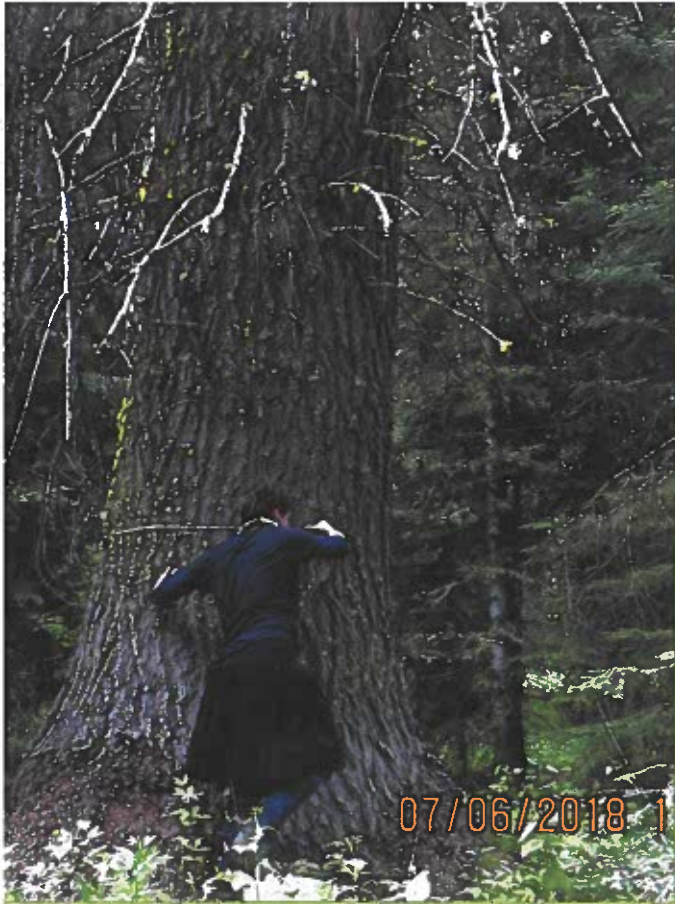
Subjective evaluation: Please diversify this stressed, unnatural Ponderosa pine/
Douglas fir plantation - Notably, the planted Ponderosa pine & Douglas firs
are doing badly; Engelmann spruce and Grand fir are doing well.

Recommendation: Log out the Ponderosa pine & stressed defoliated Douglas firs;
Leave all Engelmann spruce & Grand fir. DRDP old growth Grand fir/
Engelmann spruce/Douglas fir forest in NE corner, N end, & West end.

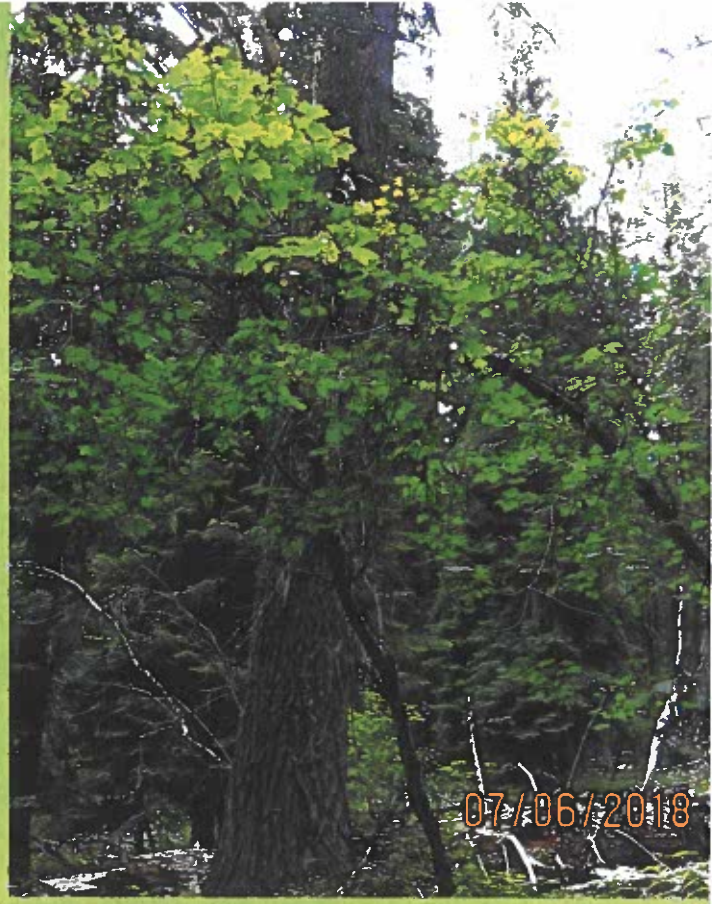


07/06/2018 11

16:57⁺ Relic measuring a 47.5" dbh Grand
fir



07/06/2018 1



07/06/2018

17:13 ↑ Relic measuring a 52.2" dbh old growth Grand fir

17:21 ↑ an old growth Grand fir snag with Pileated wood pecker foraging and an old growth Grand fir log

Class sale unit, section 13
& S of rd 6413, E of 400, W of 450, NE of 6236
Walla Walla Ranger District, Umatilla National Forest

17:09 ↑ Relic with a huge old growth Grand fir log



The old growth area apparently within this sale unit's boundaries in three areas is very distinct from the defoliated plantation area as being very green and clearly intact old growth habitat. We want to make sure there is no commercial size logging in any such old growth habitat in this sale as it is high quality old growth with great value to old growth associated species & recreation



17:22 a tall old growth Grand fir



17:24 a Relie with a 53" dbh old growth Grand fir in the North end of the sale unit

17:39 Three Grand fir snags and a big old growth Grand fir log



Glass sale unit, Section 13, NE of 6413, E of 400 rd, W of 450 rd, NE of 6236 rd Walla Walla District, Umatilla National Forest



07/06/2018

171:24 a Relic measuring a 53" dbh old
growth Grand fir



07/06/2018

171:32 a big old growth Grand fir snag
Glass Lake unit, Section 13, E of 450, W of 450, NE of 6236 rd, N+S of 6413 rd.
Walla Walla Ranger District, Wauwatta National Forest



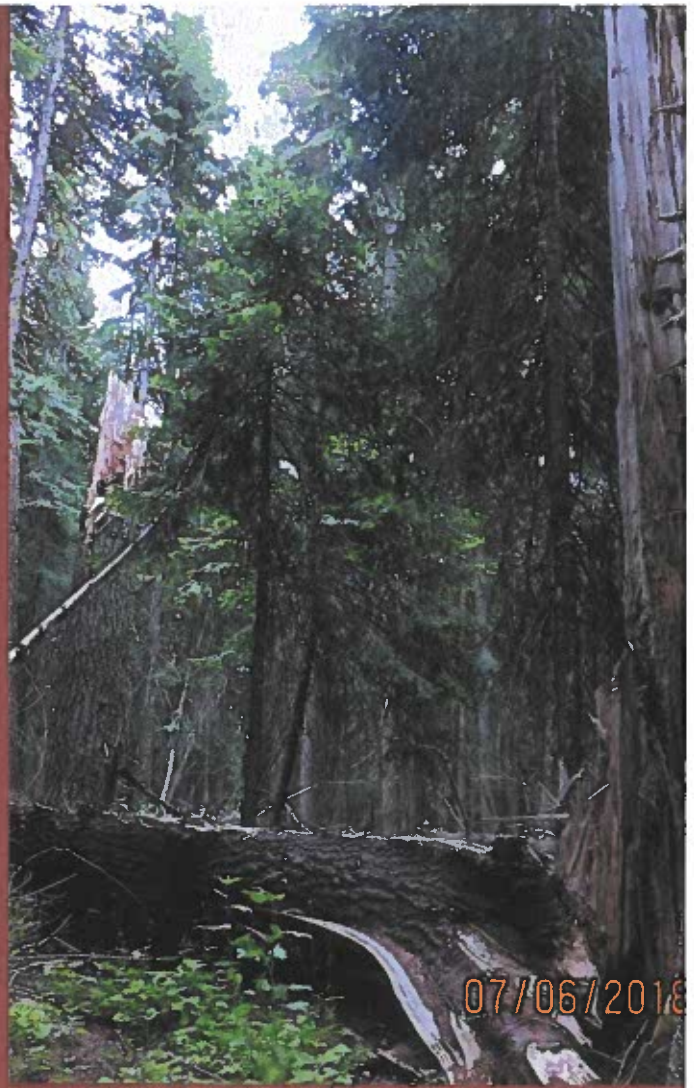
07/06/2018

171:34 a Relic by a large old growth
Grand fir snag with an old
growth Englemann spruce log



19:36^a Relie standing on an old growth

Douglas
fir
stump,
with a
large
old
growth
Grand
fir
snag



19:39^a 2 old growth Grand fir snags & an

old growth
Grand fir
log

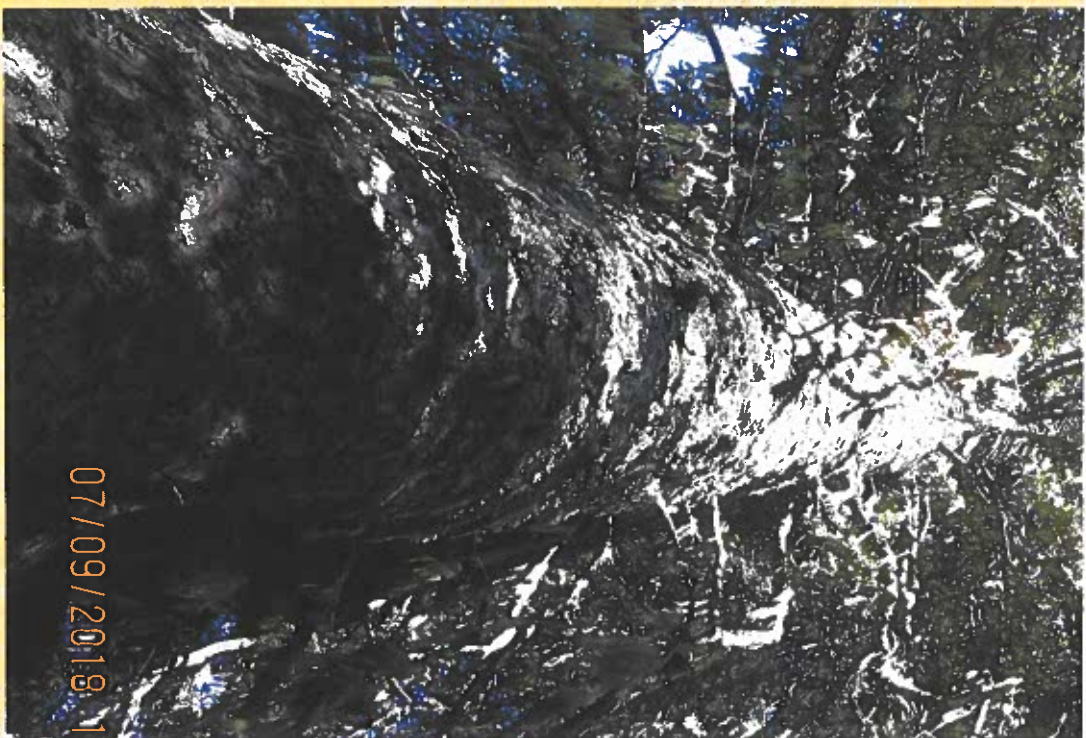
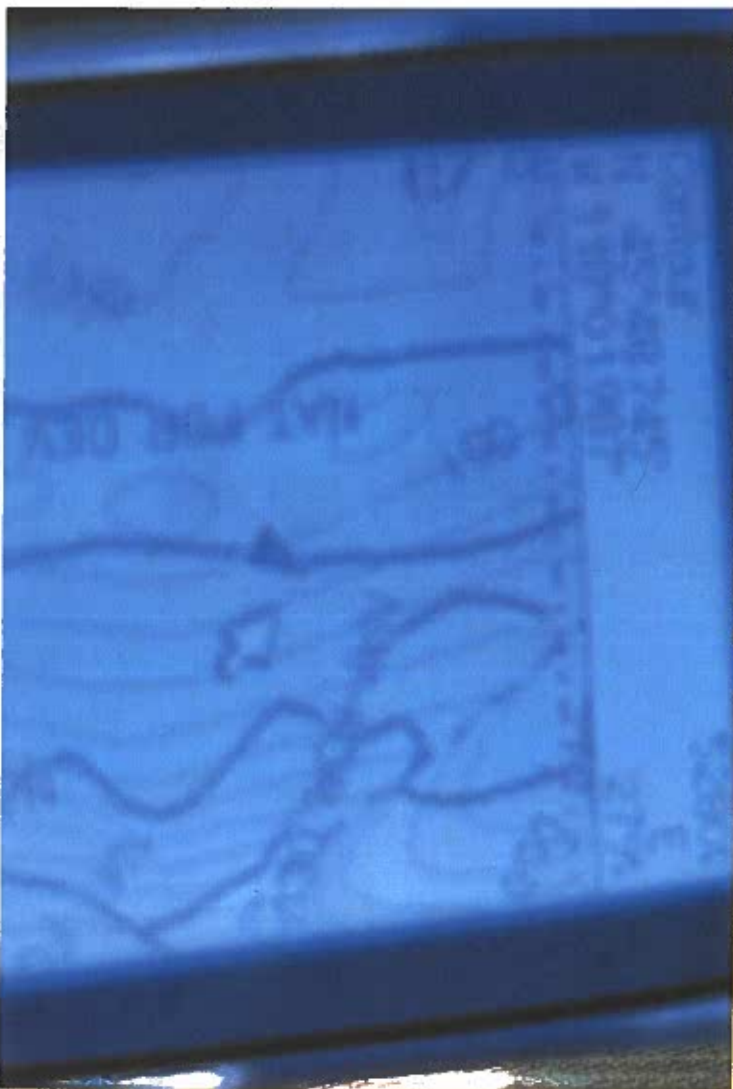
Glass sale
unit,
Section 13,
N & S of
6413rd,
E of 400,
W of 450,
NE of 6236



19:41^a Relie with 3 large old growth Grand firs

DATE July 9th, 2018
 NTL FOREST Mumtilla
 DISTRICT Malla Malla
 PROJECT Glass
 UNIT Section 23 & a little above, W. of 64,
 SURVEYOR'S NAME Karen C. W. of 125,
S & E of 50,
W of 60,
E of 60,
Colored

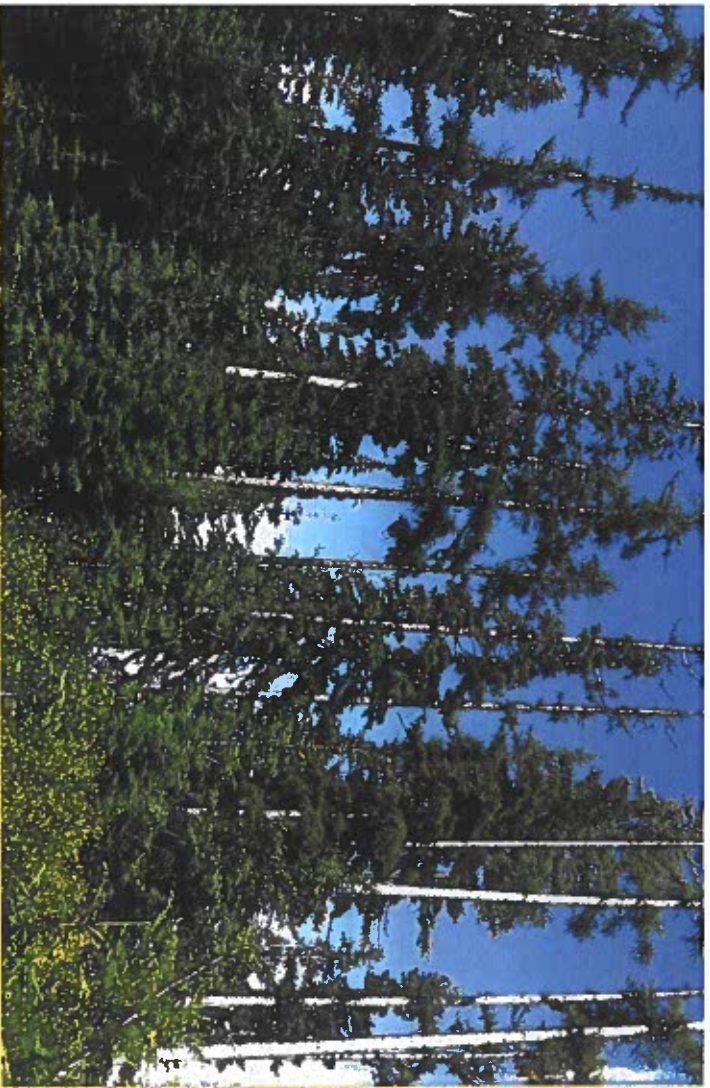
16:06 → my GPS coordinates at beginning of sale unit



07/09/2018 1

17:31 → a 44.3" dbh old growth Engelmann spruce apparently in the sale unit

Recommendations: Stay out of the patch of old growth forest! Let the rest grow on its own or commercial thin only up to 10-11" dbh - understandy thinning and snag openings, not clearcutting. IT'S great elk and deer hiding cover. Could remove the Ponderosa pine in the dense plantation area, but protect the soil.



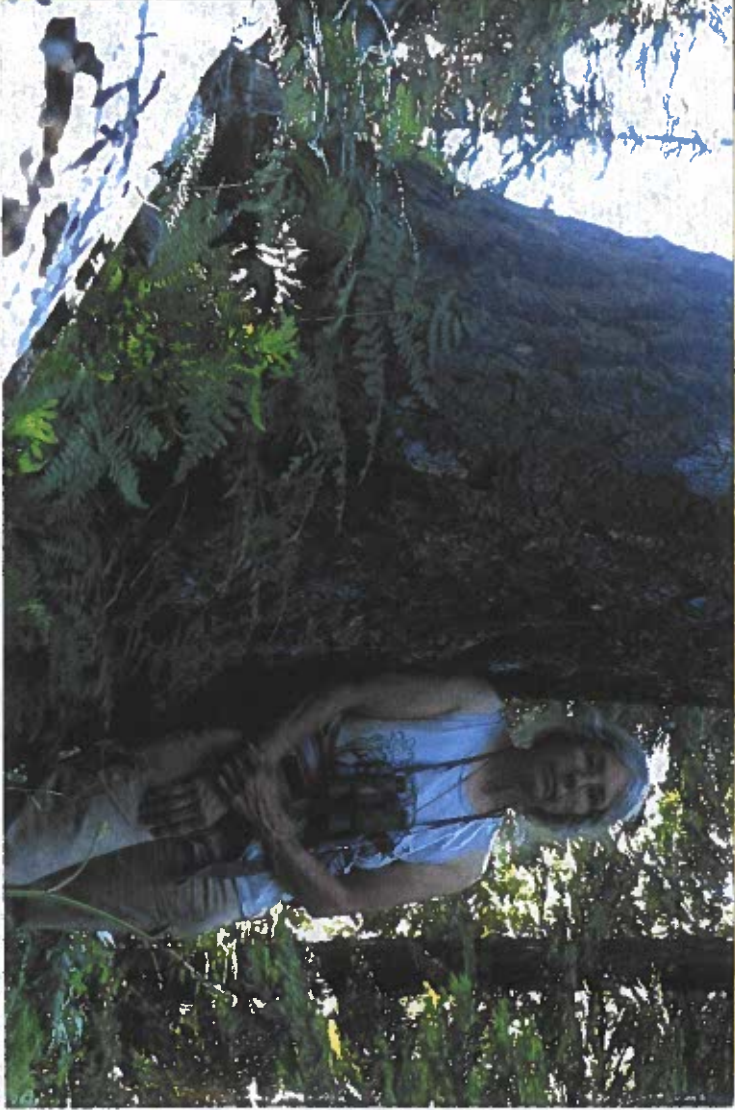
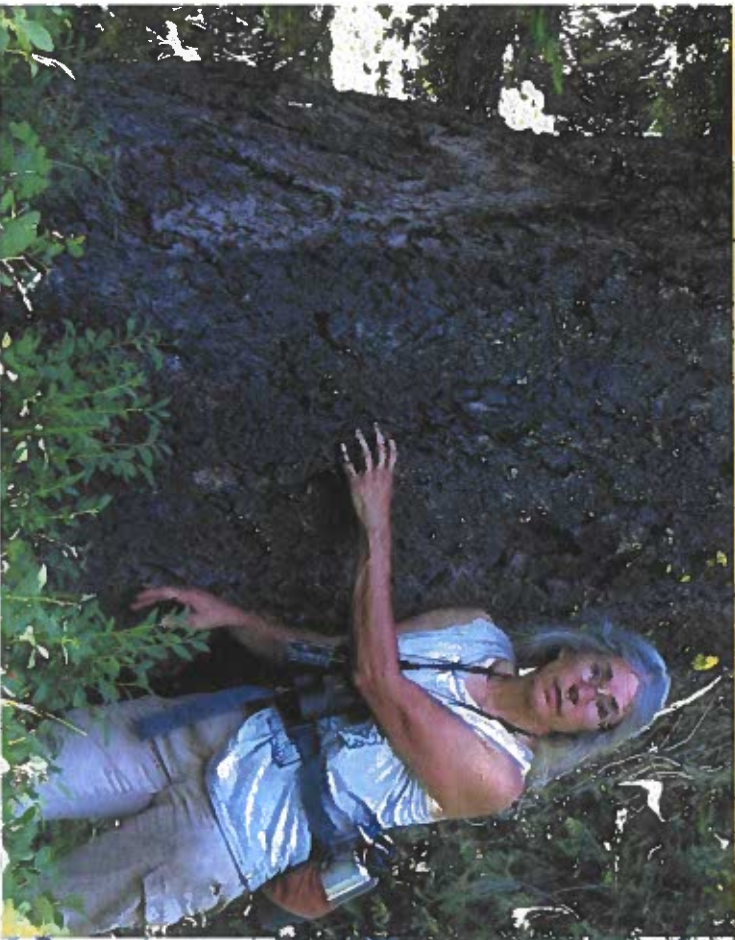
Glass Sale unit, section 238 a little above,
 N & W of 64 rd, W of 125, S & E of 50, W of 60,
 E of Gabriel Spring
 Halla Walla Ranger District, Wauwatta National Forest

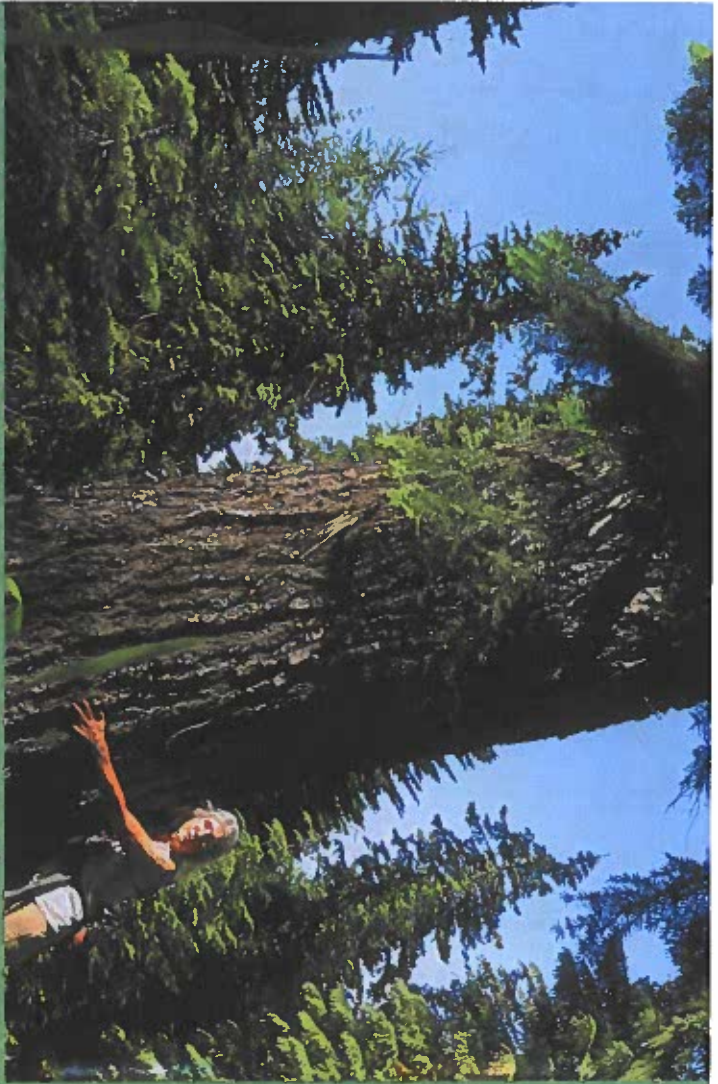
Recommendations: Leave all green western larch,
 Englemann spruce, & grand fir - especially ones
 $\geq 15"$ dbh, & leave all snags & large down wood.

Sample Large trees: Western larch: 22", 27.5" dbh
 Grand fir: 28.5", 37.4", 39.9", 48.2" dbh
 Douglas fir: 38.8" dbh Englemann spruce: 44.3" dbh

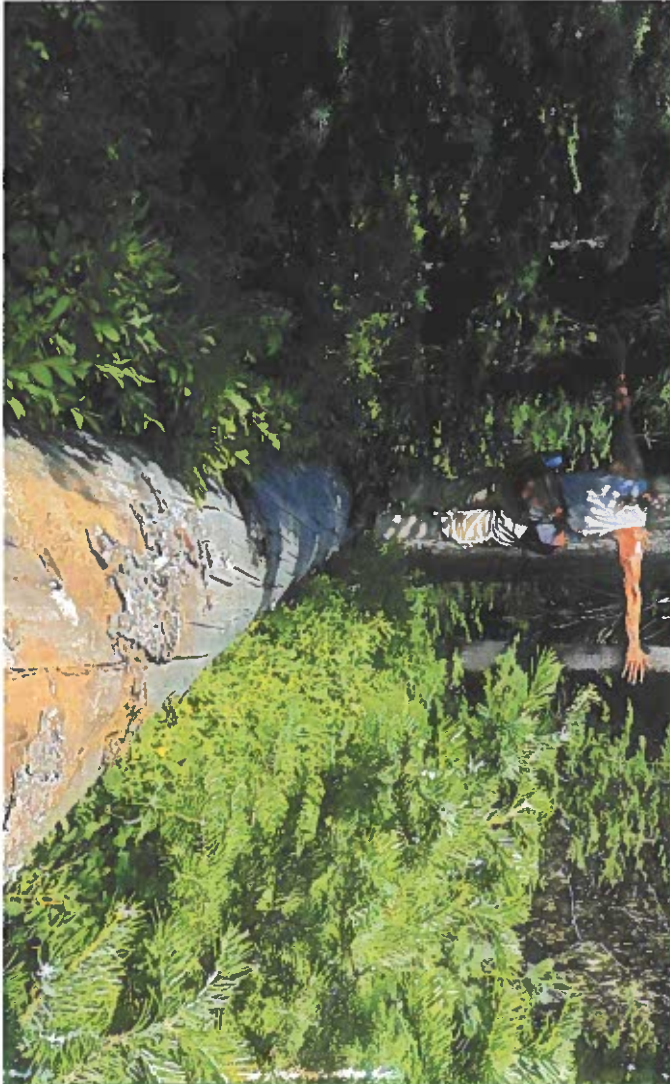
Evidence of historic mixed conifer: Large old growth
 Grand fir, Englemann spruce, Douglas fir, & western larch
 & large old W. larch, E. spruce, & lodgepole pine snags,
 & large old E. spruce & W. larch logs, moist PPG. . .

16:12-7 Remnant overstory Western larch & Englemann spruce
 with vigorous sapling growth. 16:31-2 Karen with a 38.8" dbh old Douglas fir





17:06 ~ Karen with a 48" dbh old growth Grand fir



16:53 ~ Karen walking down a large old growth Engelmann spruce log

Glass sale unit
 Section 23 & a little
 above
 W & N of 64 rd,
 W of 125, SE of 50,
 W of 60, E of Gabriel
 Spring
 Walker Valley
 Ranger District
 Humboldt National
 Forest

Old growth habitat
 is more than just
 large tree trees, or
 even large structure,
 so we don't want
 the Forest Service
 to log these old growth
 forest patches
 and degrade
 their habitat value.

Old growth count: (in 2 acres)

- 13 Old growth Western Larch, 9 Old growth Grand fir,
- 7 Old growth Engelmann spruce, & 3 Old growth Douglas
- with old growth snags: 5 W. Larch, 2 Engelmann spruce,
- & 2 Lodgepole pine, & old growth logs: 2 Engelmann spruce
- & 1 Western Larch



16:33 ~ Top of an old growth Engelmann spruce snag with a 7" old growth Engelmann spruce behind at right

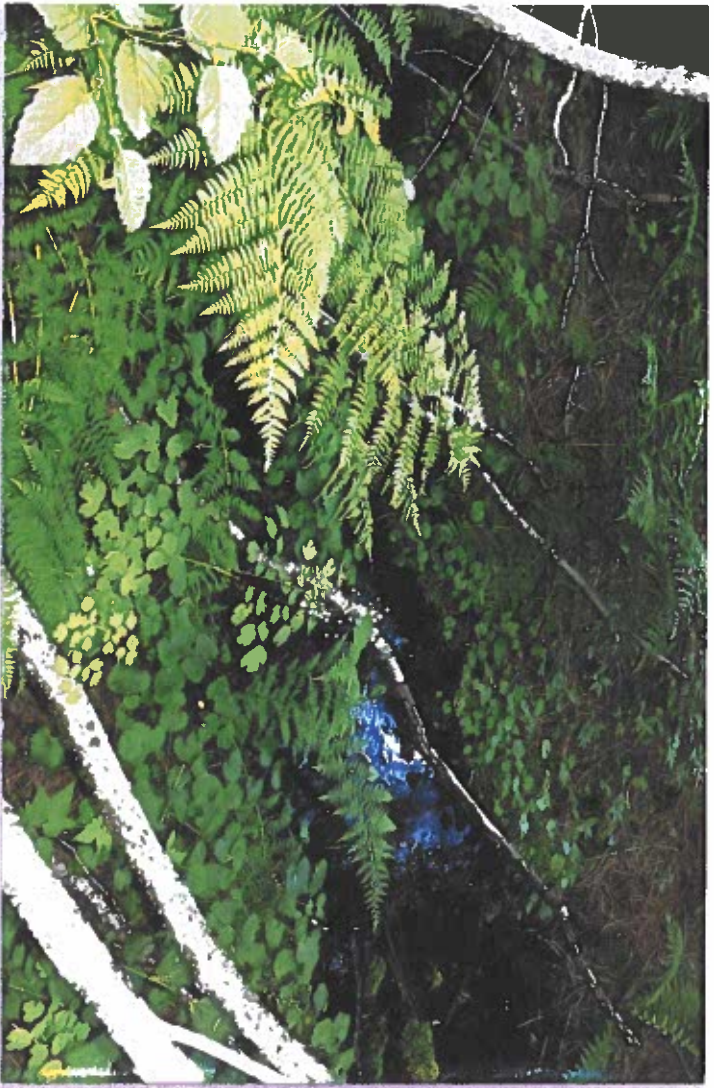


18:27 → Big potential martin root wad burrows
↓



17:13 → an unusual Coral root saprophyte with purple & white lower petal and yellow upper petal (and overall hot pink) not Spotted or Striped Coral root-rare?

Glass Sale Unit Section 23 & a little above (N & W of rd. 64, W. of 125, E of 50, W of 60, E of Gabriel Spring Walla Walla Ranger District Unmatilla National Forest



18:08-18:13 (all 3 photos) Stream at North end of the sale unit



Recommendation: Buffer the spring, stream, & wet meadow areas in the North end by at least 100 feet.

Glass sale unit, section 23 & a little above (to North)
 NW 1/4 rd. 64, W of 125, S & E of 50, W of 60,
 E of Gabriel Spring
 Walla Walla Ranger District
 Wauatila National Forest



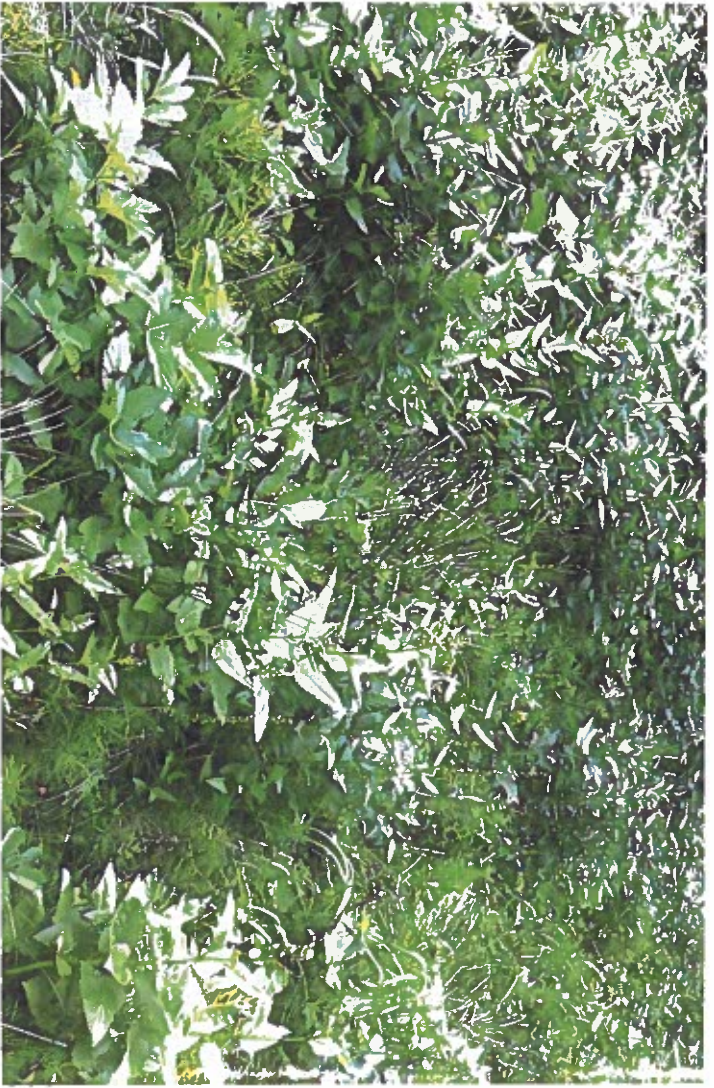
18:15 → another deer trail & another rubbed tree
 18:08 - 18:23 → stream at the North end of the sale unit



07/09/2018 1

Riparian area description: Spring & stream in North end; steady flow out of the ground with alder cover, with big ferns, moss, & a well-defined channel forming a good sized stream. (see above)

Glass Sale Unit Section 23 and a little above (North)
 N x W of 64 rd, W of 125, S & E of 50, N of 60,
 East of Gabriel Spring
 Walla Walla Riparian District
 Wauwata National Forest



18:19 ~ Wet meadow with Scouring rush, Rein Orchid, Golden rod, ferns, tall Bluebell,
 19:54 ~ typical view in the interior dense plantations w/ gym GF, ES & WL

Riparian
 sedge, &
 California
 False
 Hellebore



18:21 ~ An upright plant w/ coarsely serrated
 long simple pointed leaves, leaves creased
 around the stem, & lavender multi-petalled
 flowers (found in wet meadow)

Glass sale unit, section 23 & a little above ("40 N of sec 23)
 NW of 64 rd., W of 125, E of 50, N of 60,
 E of Gabriel Spring
 Walla Walla Ranger District
 Wauwatta National Forest

DATE 7/6/18
 NTL FOREST Umatilla
 DISTRICT Walla Walla
 PROJECT Gloss Sale
 UNIT Section 8, center, N. N & S. W of 6413,
 SURVEYOR'S NAME Relic Egford
Laren 500
S. 110



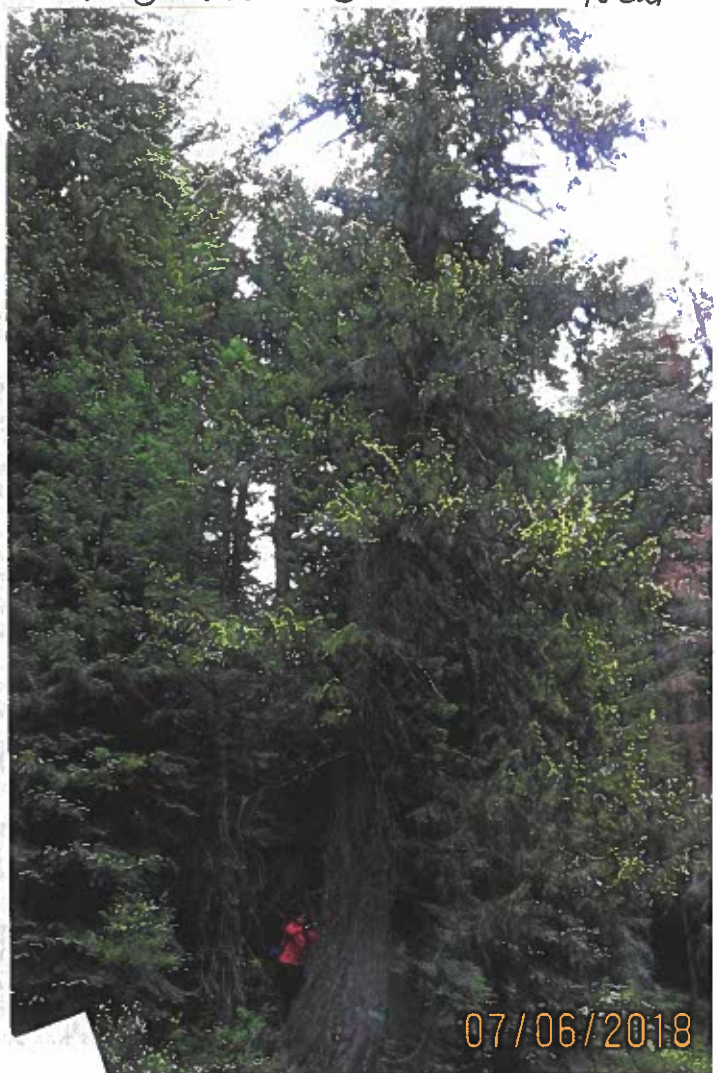
Recommendation:
~~NO~~ DROP!
 Very nice old growth moist mixed conifer habitat with lots of Pileated woodpecker & elk use.
 Subjective evaluation:
 Apparently never logged. What's going on here? Why is this planned as a sale unit? Logging this would not be restoration! Apparently the Forest Service hasn't field surveyed this?

13:30 ↘ Spotted Coralroot, which needs moist, shady conditions



07/06/2018 1

13:25 ↘ Relic measuring a 41" dbh old growth Douglas fir marked blue to cut



07/06/2018



13:39 → Relic measuring a 46.5" dbh
old growth Grand fir

13:36 → Relic measuring a 40" dbh
old growth Douglas fir

13:49 → Relic measuring a 44" dbh
old growth Douglas fir

Class, Section 8, center,
N.10, & SW of rd 6413
E of rd 308
S of rd 160
Walla Walla District
Wenatchee National Forest

Old growth count: 15 live old growth Grand fir, 7 old growth live Douglas fir,
2 old growth Grand fir snags, 1 old growth Douglas fir snag,
& 2 old growth Grand fir logs



07/06/2018

14:34 Fresh Pileated woodpecker foraging in a fir snag



07/06/2018 1

14:35 a large old growth Western Trench log



07/06/2018 1

13:40 an old growth Grand fir snag

Glass timber sale project
 Section 8, center
 N.W. SW 1/4 rd 6413
 E of rd 500
 S of rd 160
 Walla Walla District
 Wawatla National Forest

Overall sale unit description:
 Consistent old growth mixed conifer with large fire old growth Douglas firs, Grand firs, & Engelmann spruce, & lots of large old growth snags & logs, apparently never logged, with lots of wildlife sign, including Pileated woodpecker & elk.



07/06/2018

14:24 → another large old growth
Grand fir snag

Glass Lake Unit,
Section 8 center,
N.W. & SW of rd. 6413
E of rd 500,
S of rd 160
Walla Walla District
Wnatika National Forest



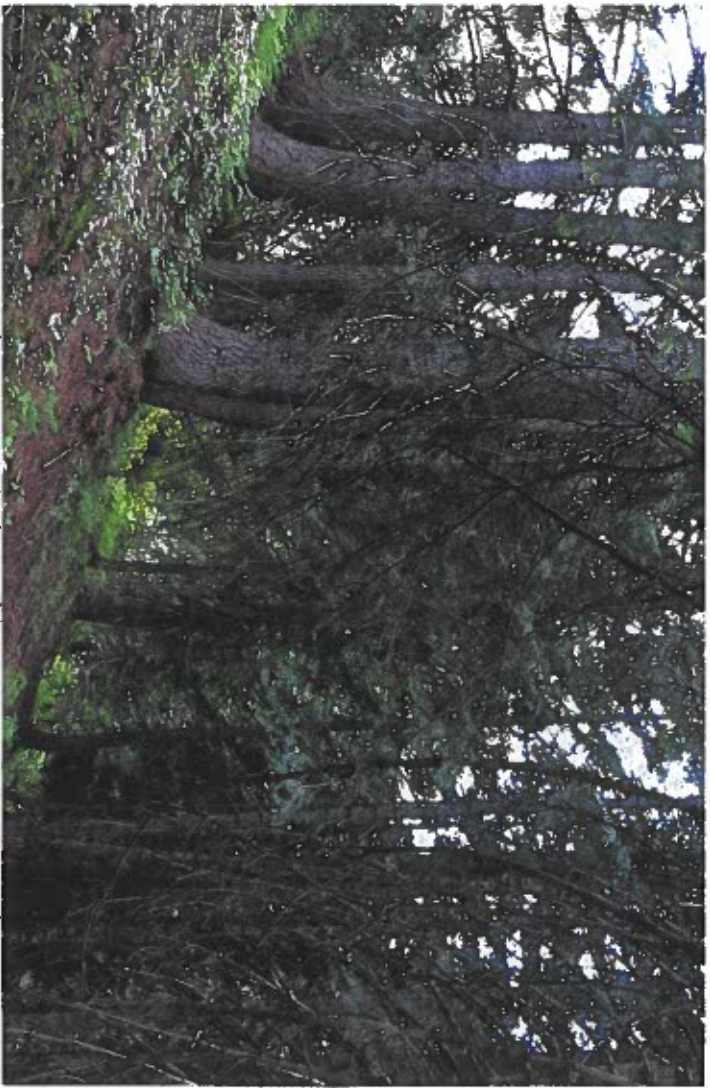
07/06/2018

14:33 → an unidentified Corall root species
orchid saprophyte



07/06/2018 1

14:24 → a large old growth Douglas fir snag



3:56 a 230' w side slope with banded trees indicating soil movement
14:20 a Pine sap saprophyte



13:22 a Relie measuring a 31' dbh old growth
Englemann spruce

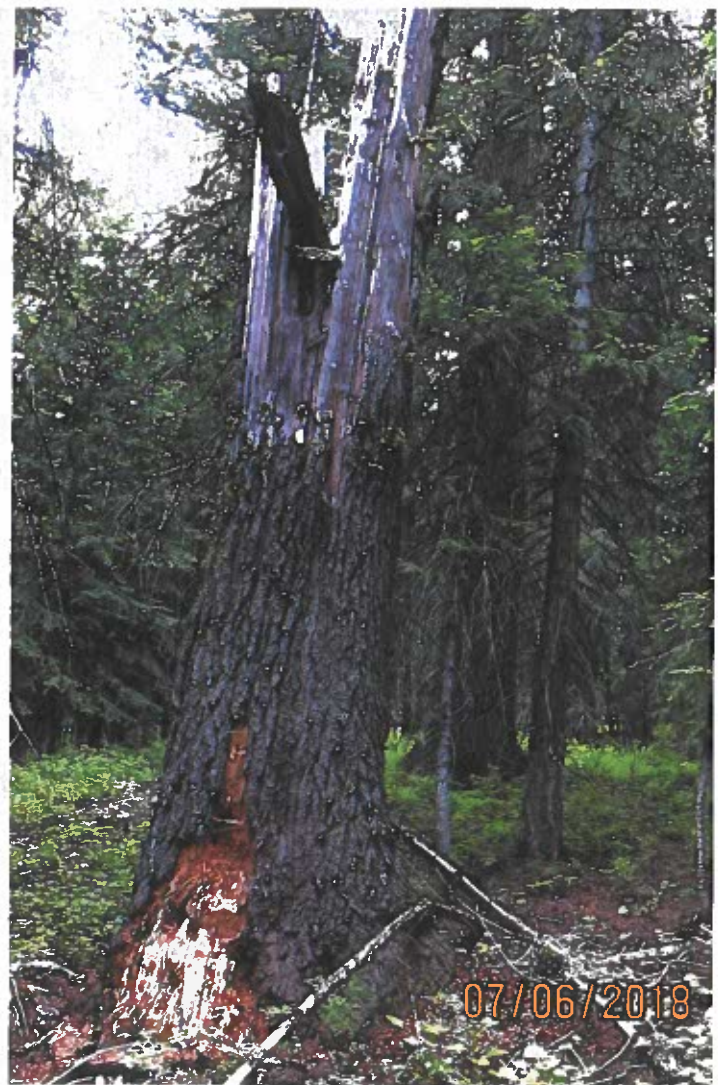
07/06/2018 1

Glass Lake unit, section 8 center,
N.W. 1/4 SW 1/4 rd. 6413,
E of rd 500, S of rd 160
Willie Halla Ranger District
Wenatchee National Forest



07/06/2018 1

13:25 An elk trail in the sale unit



07/06/2018

13:47^a bear foraging at the base of an old growth Douglas fir snag

13:47^b large denning cavity at the base of an old growth Douglas fir snag

Glass
project
timber
sale,
sec. 8, center,
N, W, & SW 1/4
rd. 6413,
E of rd. 500,
S of rd. 160
Walla Walla
District
Umatilla
National
Forest



July 8th, 2018
 FOREST Unsettled
 CT Walla Walla
 CT Glass
 sec. 13&12, E N 4000, N of 6413,
 YOR'S NAME Karen C. Wof 450
bn Spring

Subjective evaluation:

At some point the Forest Service needs to let younger-mature trees
 (e.g. the W. Tarch below) grow up to be mature and then old growth
 to replace all the mature and old growth forest lost to over-logging.
 That's the really important historical range of variation, and should
 be a commitment, not an idle promise.

9:37 Healthy Western Tarch canopy



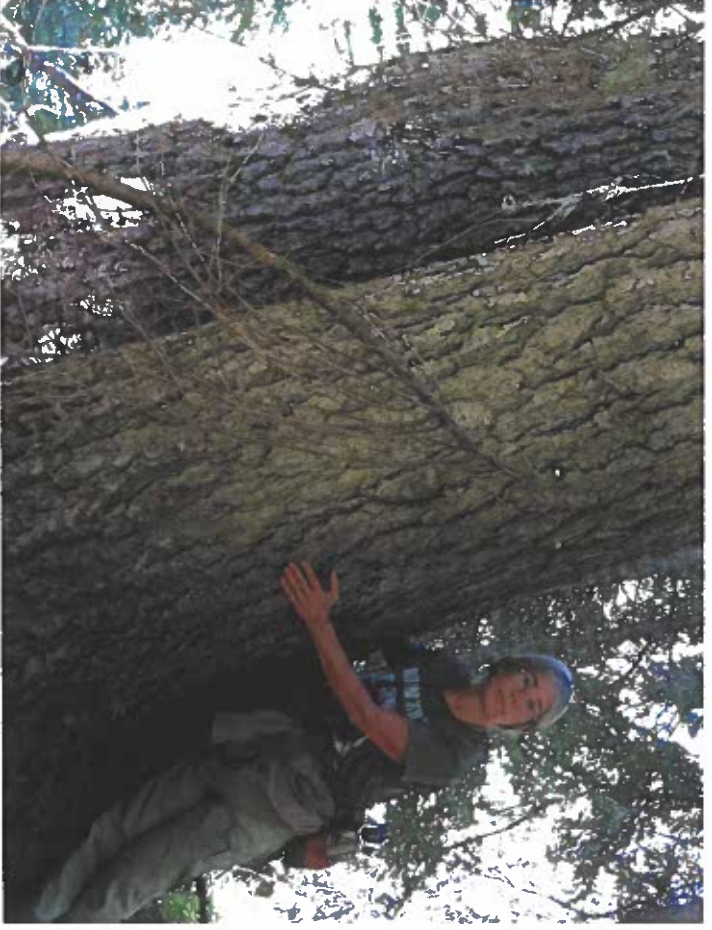
Overall sale unit description:

Based on GPS and the coarse-scale (unadquate) map,
 I was in the sale unit except for a little South at
 the end. This means over half of it is not a stressed
 plantation, but is old growth most mixed conifer
 Grand fir / Englemann spruce / Western Tarch / Douglas fir
 with lots of old growth snags and logs and a pair of
 Pileated woodpeckers.

9:46 a huge old growth Western Tarch Tag



07/08/2018 0



12:12 - an opening
in the old growth
forest in the East
End with an old
growth Grand fir
snag & alders

11:47 - Karen with one of two large
old growth Grand firs in the old
growth count

Gloss sale unit, Sections 13 & 12, E of 400 rd.,
N of 6413 rd., W of 450 rd. by Spring
Walla Walla District, Wauabilla Nat Forest



12:36 - Karen at the base of a 44" dbh old growth Grand fir

Glass
 Sale unit,
 sections 13&12,
 E of 400 rd.,
 N of 6413 rd.,
 W of 450 rd.,
 by spring
 Walla Walla
 District,
 Umatilla
 Nft Forest



* Cont.
 from
 below:
 where
 there is no
 seed source
 Leave all
 Western
 Larch,
 Englemann
 spruce,
 & Douglas
 fir, plus
 all mostly
 green
 Grandfir.
 This
 perpetuate
 site-appropri-
 diversity.

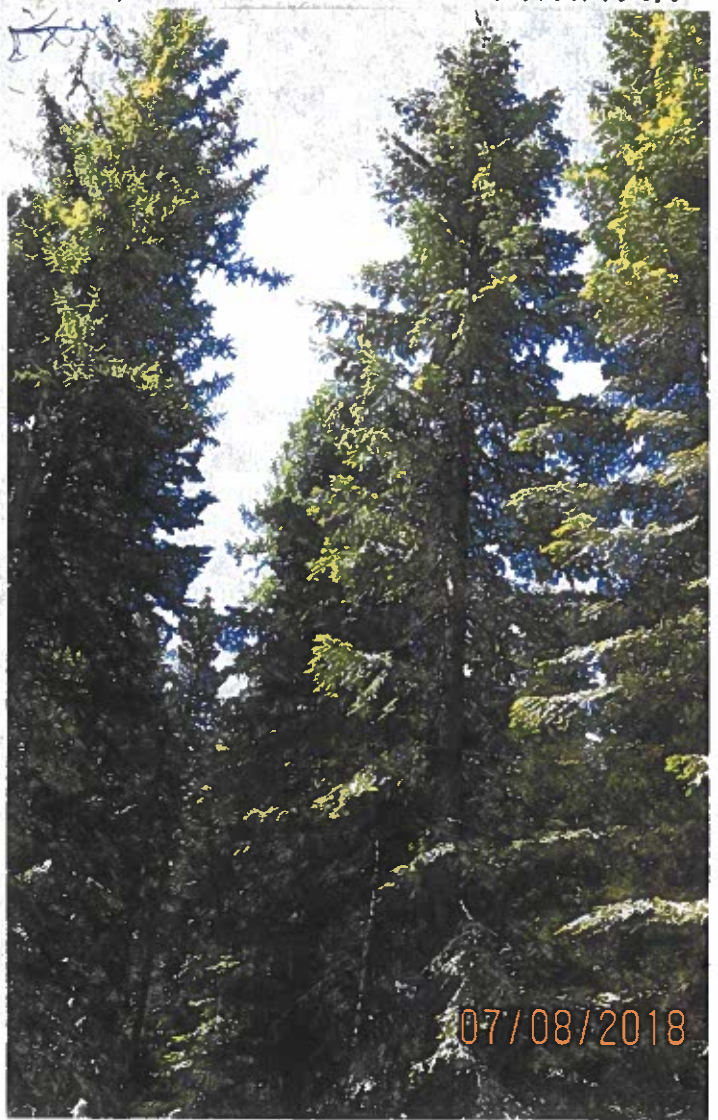
10:35 ↑ Defoliated younger-mature & mature off-site Ponderosa pine
 Recommendation for plantation areas only: Log out all Ponderosa pine except those $\geq 21"$ dbh
 and snags. This will create group openings - plant some Douglas fir & Western larch * ↑

10:45 ↓ a lone old growth Western Larch 70g

10:35 ↓ Healthier Grandfir, Englemann spruce, & Western Larch



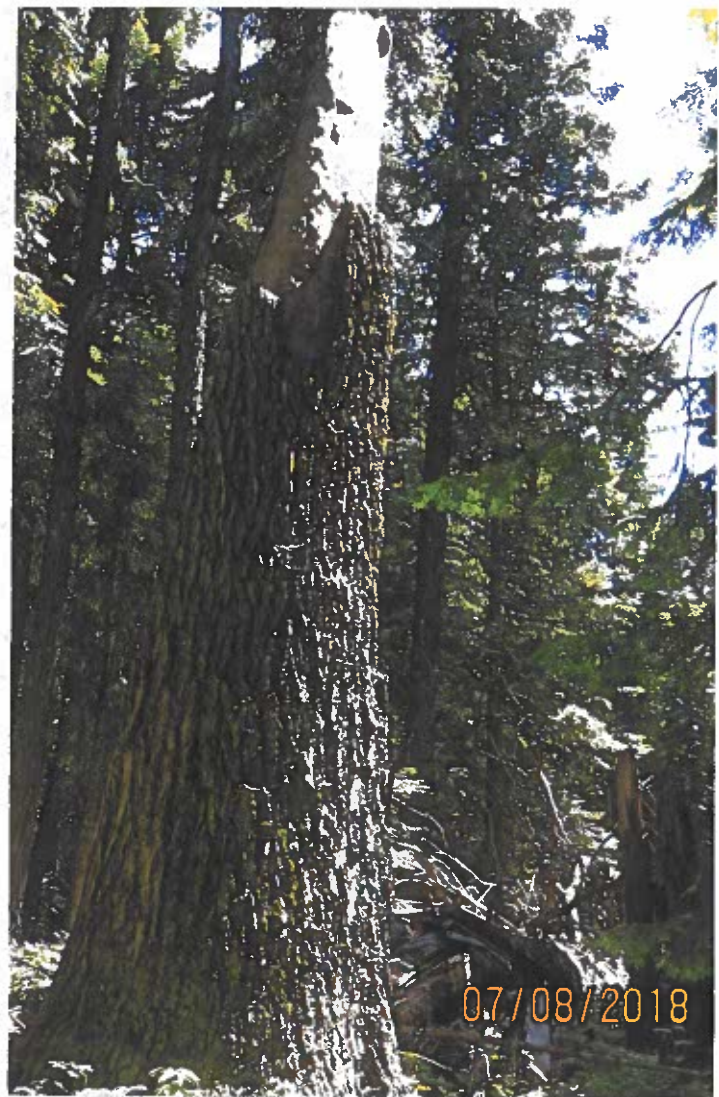
07/08/2018 11



07/08/2018



13:13 → a large old growth Grand fir snag, south end



13:02 → a huge old growth Grand fir snag with associated large old growth GF log

13:08 → a 48" dbh old growth Western Larch with Pileated woodpecker & smaller woodpecker foraging

Glass
sale unit,
Sectans
13 & 12,
E of 400 rd,
N of 6413,
W. of 450,
by spring
Walla Walla
District,
Umatilla
National
Forest

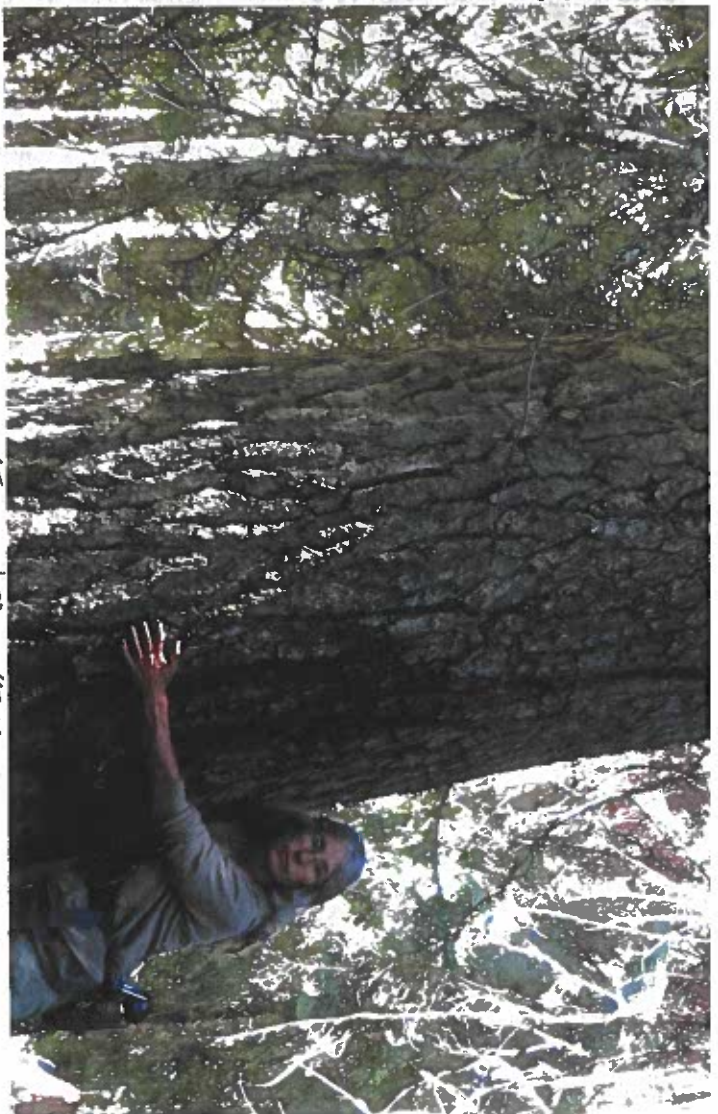




10:58 → A well-defined elk trail!

Wildlife sign: a pair of Pileated woodpeckers seen foraging in the sale unit, a possible MacGillivray's warbler heard, Hermit Thrush, Redbreasted nuthatch, Robins, Black-capped Chickadee, Western Tanager, yellow-rumped warbler heard, Ruby-crowned Kinglet, Bald-faced hornet nest, old bear scat, Douglas squirrels, deer scat, elk trail, two Pileated woodpeckers kept calling to each other in the sale unit-possible nesting area.

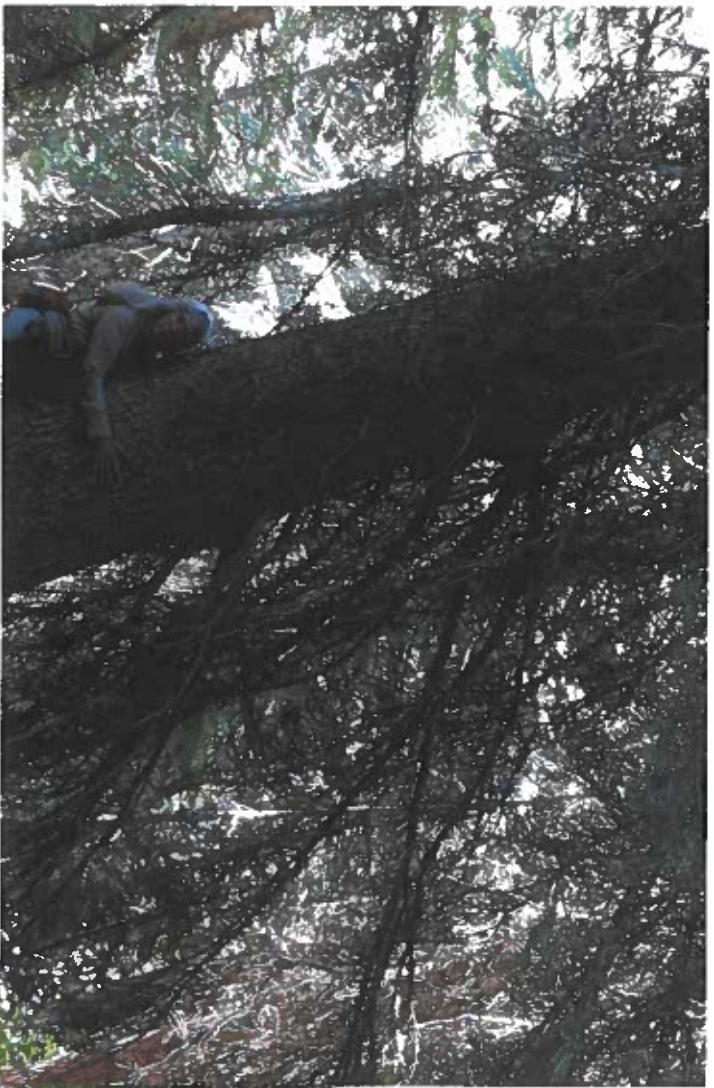
61555
 Sale unit
 Seeshus
 13 & 12,
 E. of 400d,
 N of 6413,
 W of 450
 by spring
 Walla
 Walla
 District,
 Linnetilla
 National
 Forest



10:53 → a 45.3" dbh old growth Grandfir with Karen

10:56 → Old growth mostly mixed conifer in the East end of the sale unit

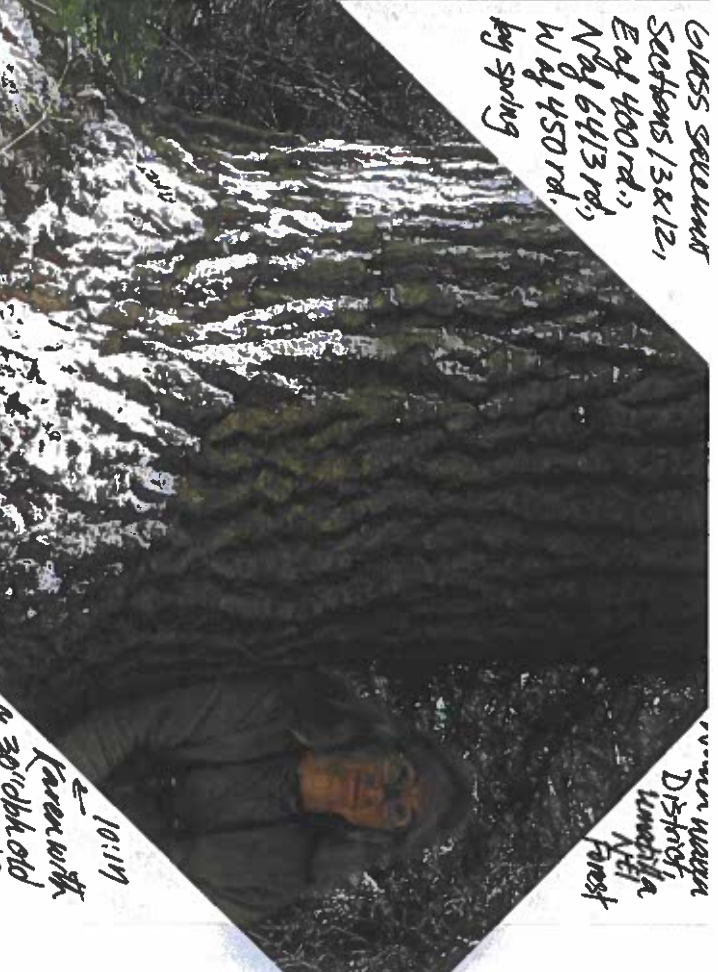




10:26 Karen with a 29.3" dbh old growth Englemann spruce
9:53 Healthy Englemann spruce seedlings and saplings



GLASS SECUENT
Sections 13&12,
E of 400 rd.,
N of 6413 rd.,
W of 450 rd.
by spring



near upper
District,
Linnville
Nell
Forest

10:19
Karen with
a 30" dbh old
growth Grand Fir

Recommendation:

DROP the East end &
the South end of the sale
unit, which are active
P-leated woodpecker habitat
& good winter habitat.
Leave
ALL patches of old growth, mature
forest within sale units - including
this one. Drop all the old growth
habitat.

Sample large tree sizes: (in dbh)

- Grand Fir: 30", 45.3", 39.8", 43.3", 27.5", 44", 51"
- Englemann spruce: 29.3", 35", 29"
- Western Junch: 48" Ponderosa pine: 23"



12:54^a a large old growth Grand fir snag



12:47^a 3 large old growth Grand firs, middle of sale unit

12:52^v Beautiful moist mixed conifer forest in the south middle of the sale unit



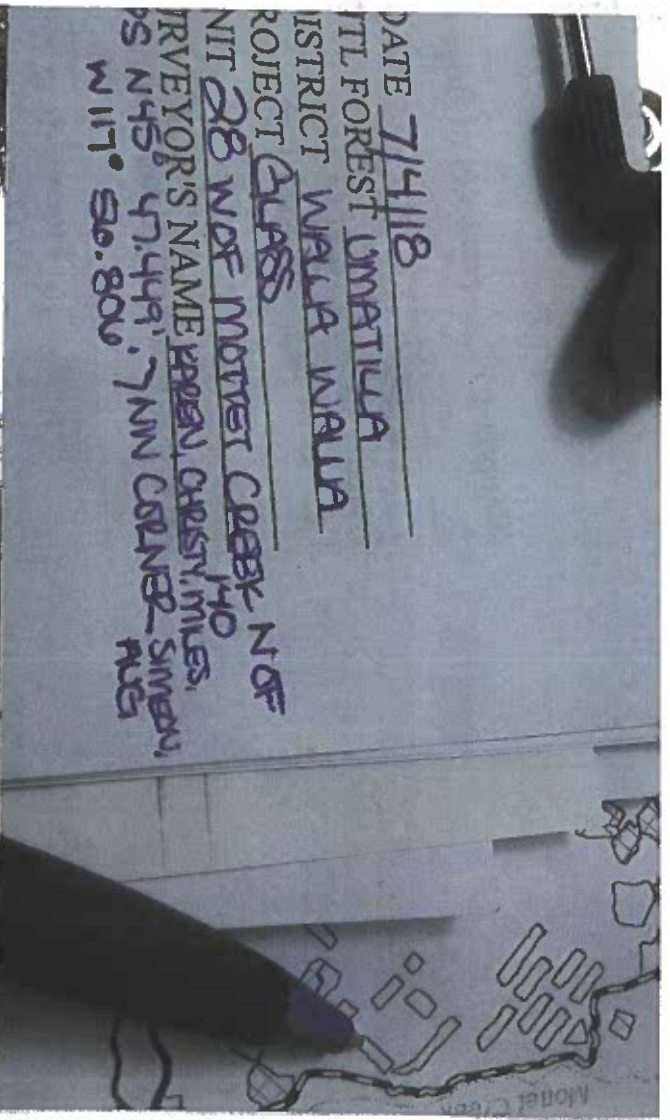
Glass
sale unit,
Sections 13 & 12
E of 400 rd.,
N of 6413 rd.,
W of 450 rd.
by spring
Walla Walla
District,
Umatilla
National
Forest



13:10 → Smeem with a young white pine in the meadows

Definitely not a plantation away from the road.

Overall sale unit description: Near rd. 140, mostly young dense Douglasfir. But back in the sale unit near the North side, lush old growth mixed conifer moist habitat with old growth Grandfir, Englemann spruce, Western Larch, & 1 old growth Douglasfir, & 1 old growth white pine. Active F-lated woodpecker foraging & nest roost holes, bear foraging, deer scat, and a variety of songbirds.



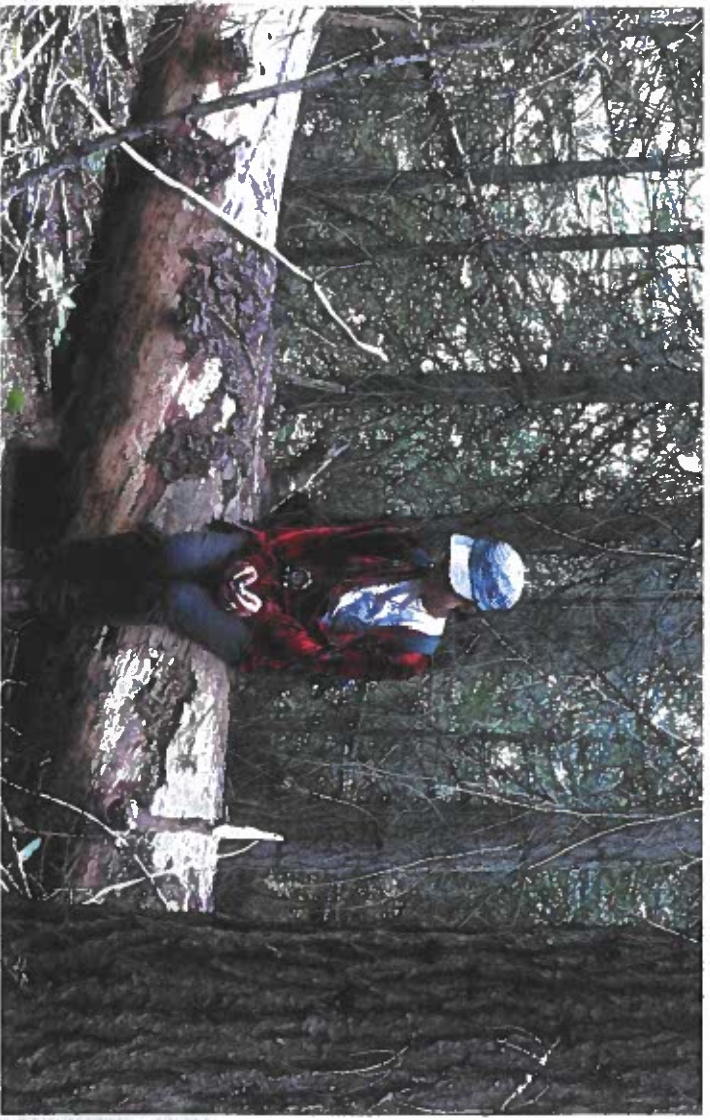
13:10 → The big meadow in the sale unit with "bird" the dog.

Class Sale Unit, sec. 28 n. of Kottet Creek, N of 140

675 : N 45° 49.449' } NW corner
W 119° 56.806'

Walla Walla District, WnataWa National Forest

Wildlife sign: Deer trails, Small group burrows, deer scat, woodpecker calls, Pileated woodpecker heard in the sale unit, Ruby Crowned Kinglet heard, bear foraging & scat, Olive-sided flycatcher, Western Tanager calls, deer or elk grazing, Bobcat or Lynx scat, Hermit-thrush song heard, woodpecker drumming, Red breasted nuthatch



13:23 A Smeon on an old growth Western larch log in the dense Douglas fir area by road.

13:14 } Christy with an old growth Douglas fir stump near the road.

13:21 } bear foraging in a down log Douglas fir area by road.





13:47² Nest or roost holes on another
Western Tanager Slog - top could be from
Northern Flicker, bottom from Pileated
woodpecker

Glass Sale unit
Section 28, W. of Mottet Creek,
N of rd. 140
Walla Walla Ranger District,
Wenatchee National Forest



13:53³ Augs measuring an old growth
Grand fir

⊕ The logging of the old growth portion of this sale unit does not meet the purpose
and need of this sale, which is to restore plantations. This is not a plantation.



13:46² Nest or roost hole - probably
Pileated woodpecker

DREST Winnable
ICT Walla Walla

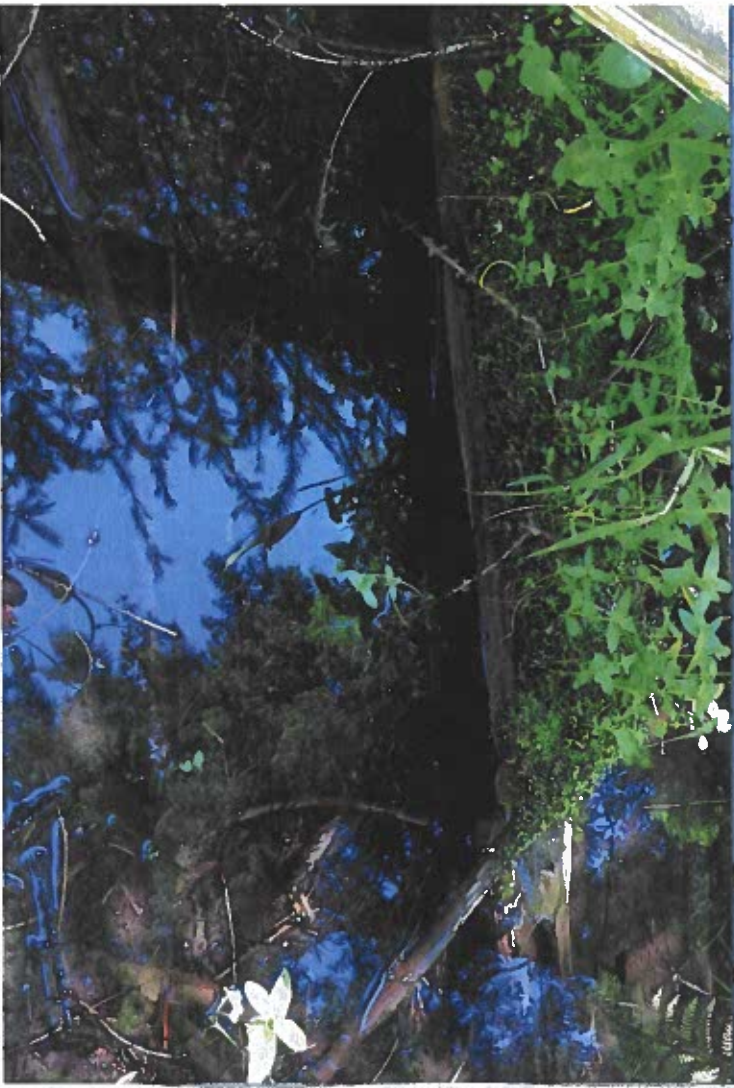
CT Glass

See. No. immediately So. of 433,
BYOR'S NAME Karen (E of 400,

N of 6413, N. of
Suttonmost sale
unit along rd 400
just N of
junction of 6413
& 6236

07/08/2018

To h logs and snags



15:29 a running stream with a pool



07/08/2018 1

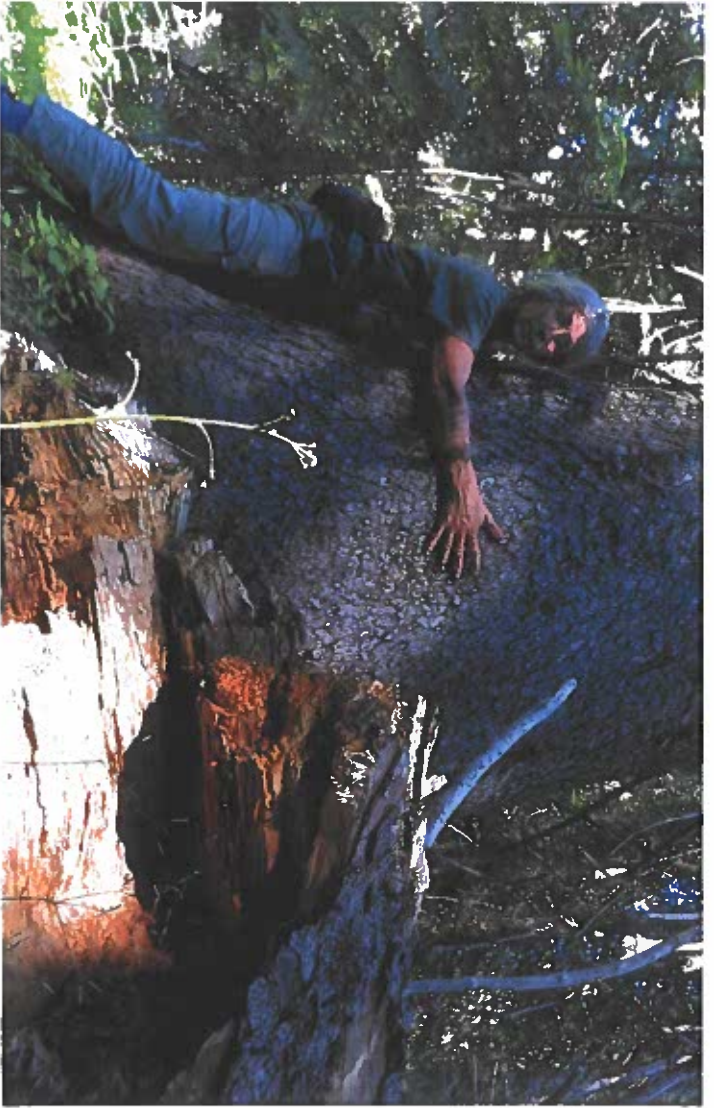
15:27 a Running stream at the North boundary of the sale unit, with down wood & ferns

Overall sale unit description: a relatively small finger of mature and old growth mixed conifer forest running East and West up a slope to East with a high old growth count at the top, lots of Grand fir & Englemann spruce old growth and some Western Tanager, with plenty of snags & logs, active Pileated woodpecker & bear use.



01055
 Sale unit
 Sec. 12,
 S. of 433,
 N. of 1643,
 NW of
 Junction
 of 6413
 & 6236
 Wella
 Wella
 District,
 Lunathila
 National
 Forest

16:34 a huge old growth Englemann spruce was
 with a very large live old growth Englemann spruce
 in the old growth count area
 Subjective evaluation: This sale unit was clearly mapped
 to 70% mature & old growth mixed conifer forest, not
 a plantation, as claimed in the purpose and need
 for this timber sale - What's going on? This is not
 acceptable to us.



16:39 a Karen with a 38" old growth Englemann spruce & a huge
 19:02 fresh bear foraging in an old growth Englemann spruce 70%
 De Grand fir 70%





5:59 a Very fresh Pileated woodpecker foraging on a mature Grand fir snag
 Glass sale unit, section 12 immediately south of rd. 433, N of 6413, just NW of junction of rd 6413 & 6236
 Walla Walla Ranger District, Wauwatta National Forest

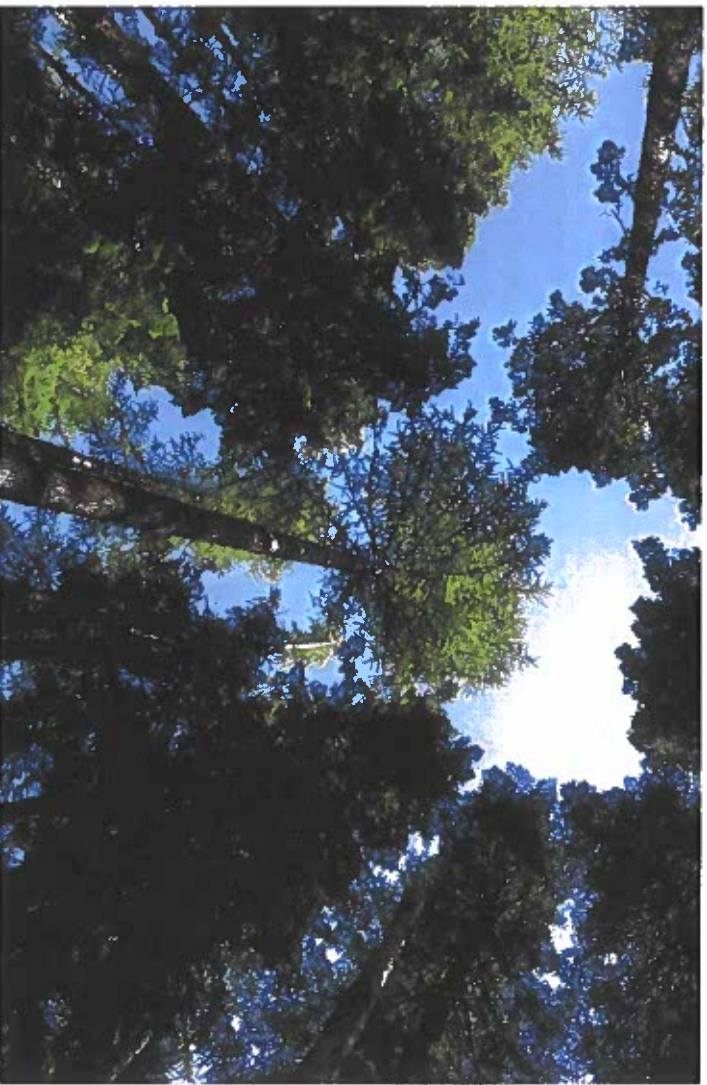


15:57 a mature to old growth Western Junco with an old growth Grand fir x 2 mature Grand fir snags



15:59 a Very fresh Pileated woodpecker foraging on an old growth Grand fir snag

Wildlife sign: probable Pacific wren heard, very fresh & recent Pileated woodpecker foraging, a Pileated heard in the sale unit, bear foraging, Redbreasted nuthatch, Ravens, woodpecker drumming heard, Douglas squirrel, orange & black butterfly, a yellow Swallowtail butterfly, abundant down wood for martin foraging
 ⊛ Good martin habitat & active Pileated woodpecker habitat



15:39 - Tall overstory Grand fir & Western Ranch canopy - about 55-60% canopy closure
 15:55 - abundant down & elevated wood for winter winter foraging



15:39 - extensive P. leucis woodpecker foraging on an old growth Grand fir snag

07/08/2018 1

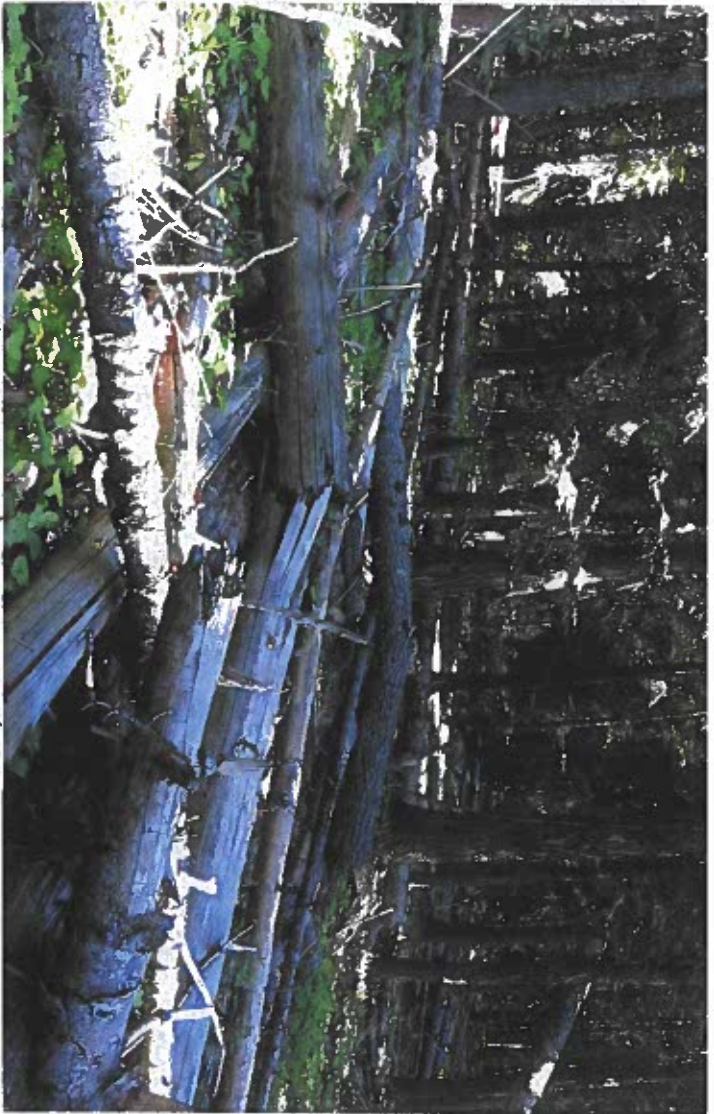
Glass Sale unit, section 12,
 immediately south of rd 433,
 E of rd 408, N of 6413 rd,
 just NW of junction of 1643 & 6236
 Walla Walla District
 Lemathia National Forest



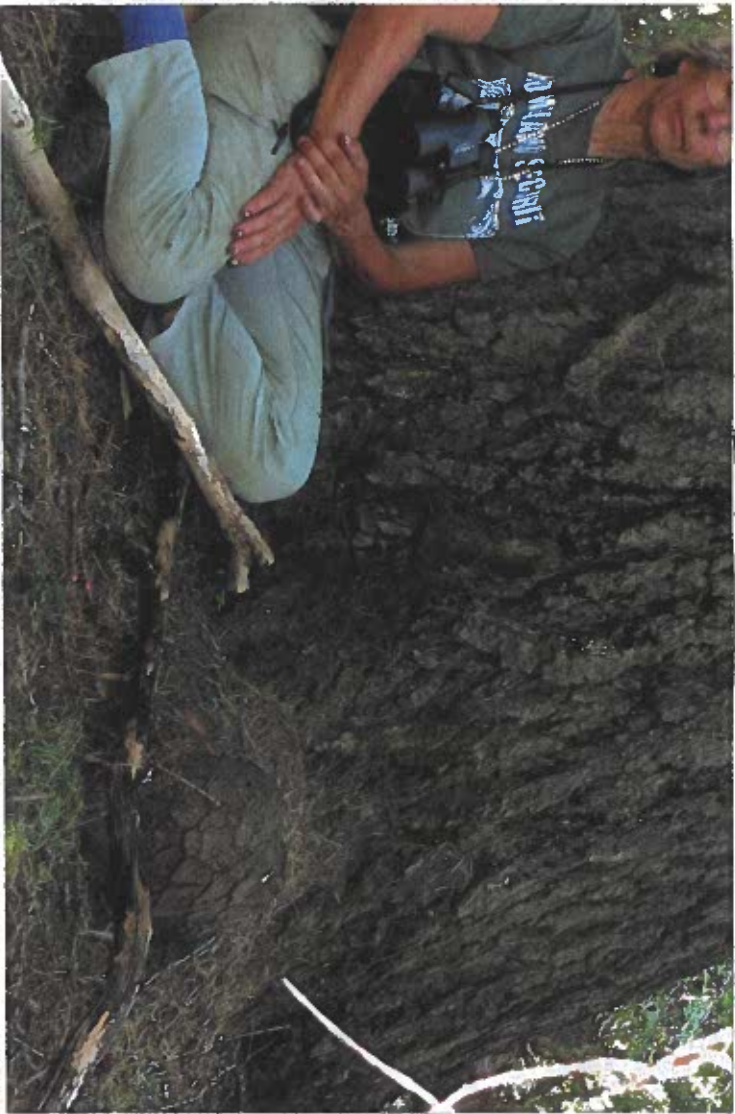
Glass
 Sale unit
 See for 12,
 S. of 433,
 E. of 400,
 N. of 6413,
 just NW of
 Junction of
 6413 &
 6236
 Walla Walla
 District,
 Lemahla
 Nat Forest

17:12 Pileated woodpecker foraging in a
 large old growth Grand fir snag

Glass See 12 sale unit recommendation: *** DROP IT!**
 This is high quality old growth mixed conifer habitat
 & active Pileated woodpecker habitat.
 Regardless of whether this was logged before, it's now
 nice old growth structure habitat, & should be protected
 as such.



17:06 Very abundant elevated & down wood for subnivean winter
 water foraging 17:24 a 42.5" dbh old growth Grand fir



July 7th, 2018

DREST Wawetilla

ICT Walla Walla

CT Glass

Section 9, S46413, W. of Buzzard

YOR'S NAME Wawetilla

(adjacent)
E of 15 rd.

Recommendation: DROP IT! Great old growth moist mixed
conifer habitat right above Buzzard Creek with an active
goshawk nest in the middle of it.

9:57 Kwan at the base of a 43.5" dbh old growth Grand fir in the side west

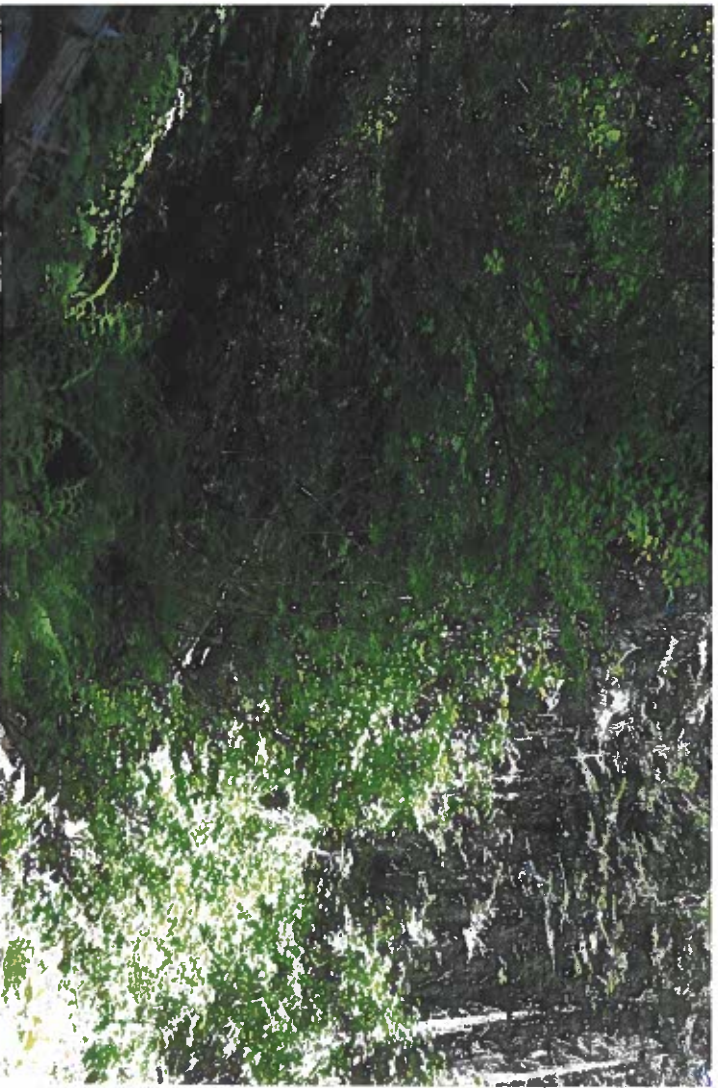


07/07/2018 0

9:49 top of the same 43.5" dbh OG Grand fir

Old growth count in 2 acre:

- 17 live old growth Grand fir, 3 live OG Western larch,
- 1 old growth live Douglas fir, 2 OG live Engelmann spruce,
- 1 old growth snags: 2 Grand fir, 1 Engelmann spruce,
- 8 1 Western larch, & 6 OG Grand fir logs.



Glass, Section 9 S. of 6413 rd, W. of Buzzard Creek, E of 15 rd, 9/9/18

Riparian area description next to sale unit:

It looks like this should be a perennial creek, though the section is currently dry - broad channel, well-defined with small to large cobbles, some large wood, alders, successfully holding back sediment, minimal alder, topographic and conifer shading, with Swamp gooseberry, and also with: big unidentifed ferns, Coltsfoot, Thimbleb

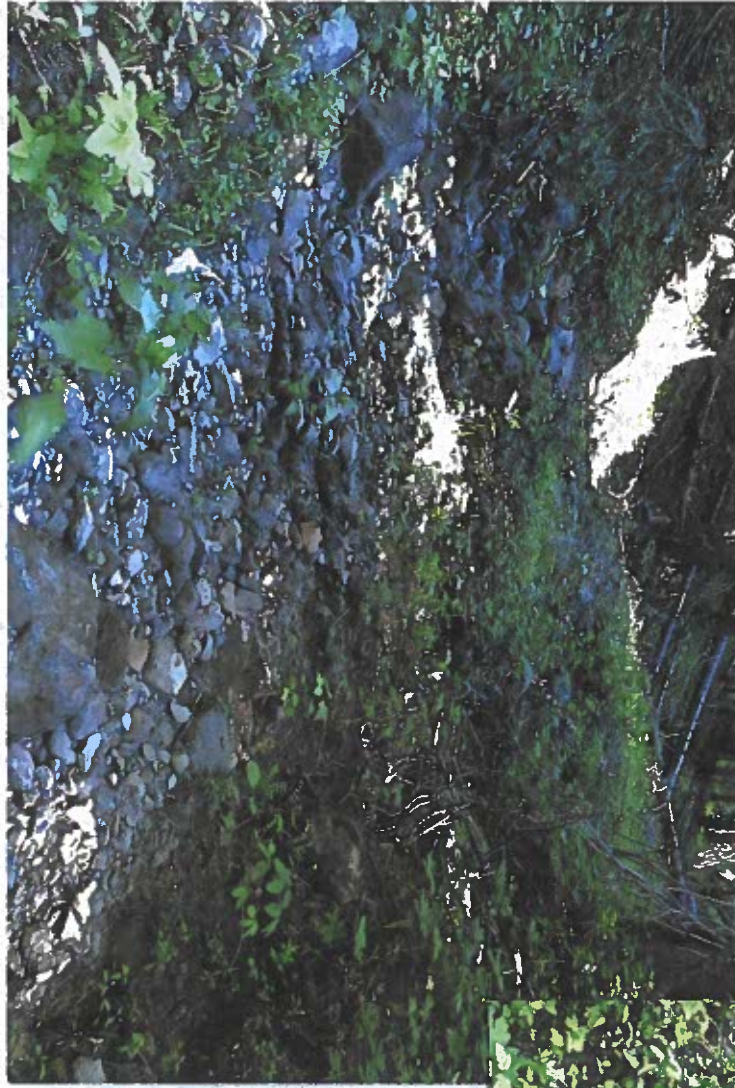
Buzzard Creek needs water flow protection, including stable banks & conifer shading, not logging within the RHEA.



11:04 v looking upstream along Buzzard Creek below the sale unit, with alders & big ferns, etc. covering the stream channel w/ ferns, 11:43 v a Buzzard Creek channel pool w/ down wood, large cobbles. 11:04 v looking downstream below the sale unit w/ ferns, etc.



11:02 → an elk trail leading from Buzzard Creek into the sale unit
9:33 → looking upstream, Buzzard Creek



Glass, Section 8, S of 6413, W of Buzzard Creek, Eng 15

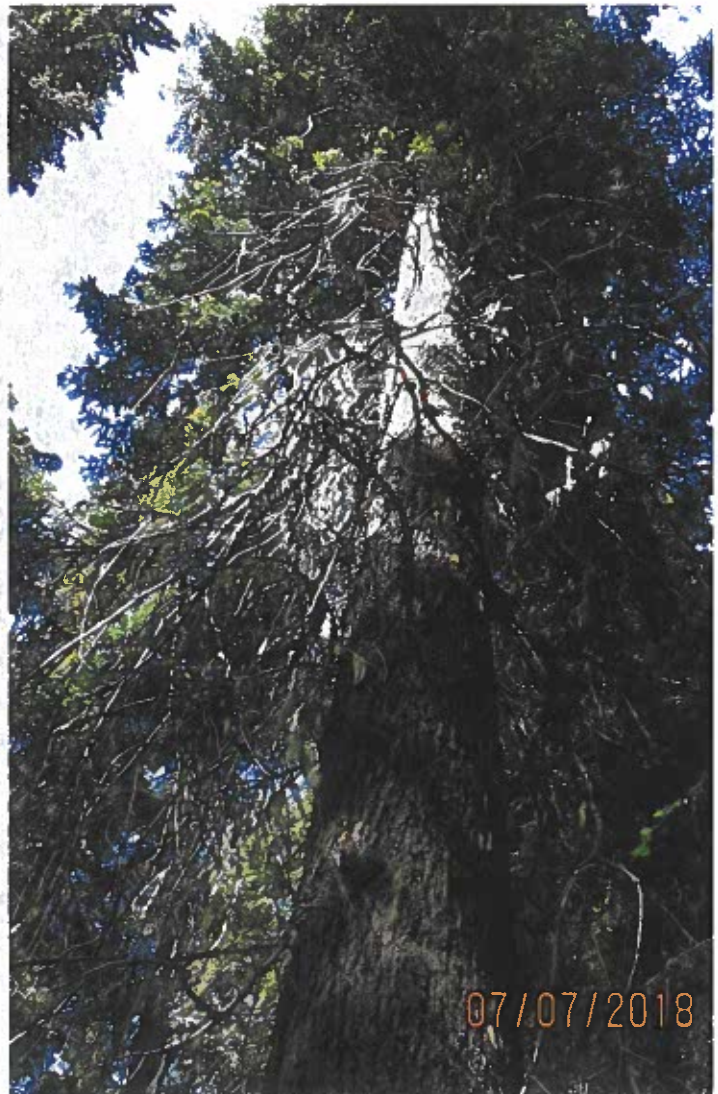


→ an elk wallow in the sale unit area

Other wildlife seen in the sale unit:
Varied thrush heard, Redbreasted nuthatch, Hermit thrush,
a likely yellow-rumped warbler heard, a Cassin's Vireo,
a large female adult Northern goshawk, deer trails,
elk scat, an orange and black butterfly, a possible
Pine Siskin heard, unided songbirds, Juncos, a Pacific
wren seen & heard



10:21 a 43.5" dbh old growth Grand fir

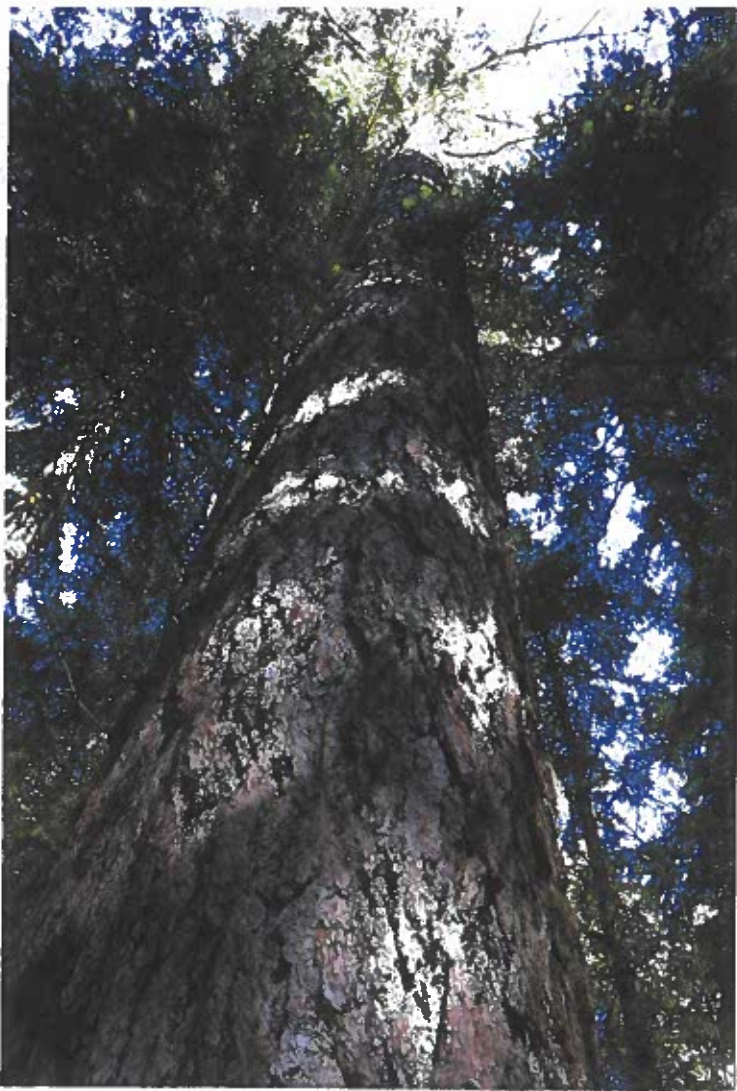


10:21 a 41.7" dbh old growth Grand fir

10:46 a 40" dbh old growth Douglas fir leaning over Buzzard Creek



Glass
Section 9,
S. of 6413,
W. of Buzzard
Creek,
E. of 15 rd.



10:16 7 as 40" dbh old growth Western Larch



10:19 7 base of a live old growth Grand fir and a broken top 06 Grand fir snag

10:21 2 old growth Grand fir logs



Glass,
section 9,
S. of 6413 rd.
W. of
Buzzard
Creek,
E of 15rd.



07/07/20

10:12 An adult female large Northern goshawk after stopping at me, apparently depending on a active nest or fledging in the middle of the sale unit



10:14 A 52" dbh of growth Grand fir in the sale unit
 Class, Section 9, So. of rd 6413, West of Buzzard Creek (an RTCA commercial logging sale unit), East of rd. 15



07/07/2018

10:09 A good photo for clearly identifying the mature female N. goshawk, taken before she dive-bombed me.



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10:05 a large OG Grand fir snag



07/07/2018

10:07 a full green crowns of 2 old growth Grand firs

10:01 Karen walking on a large old growth Grand fir log

Glass,
section 9,
S. of 6413,
W. of
Buzzard
Creek,
E. of 15rd.

