

* These residual fir LOS stands are the last strongholds of Pileated woodpecker & potential marten in this sale area and are heavily used by wildlife, including multiple MIS woodpeckers and elk. * All this needs to increase vigor is NCTing up to 8-9" dbh

NET the Recommendations for sale unit: NCT only by hand P. pine up to 8" dbh to increase vigor or DROP completely - the first stand = core wildlife habitat

League of Wilderness Defenders Blue Mountains Biodiversity Project 27803 Williams Lane Fossil, OR 97830

DATE November 10, 2019 NTL FOREST Lumatilla DISTRICT Heppner PROJECT West End CE UNIT 93 - ST 0-60 ba SURVEYOR'S NAME Karen C.

* Active Pileated habitat, suitable marten habitat

Leave all snags! Subjective evaluation of area: This appears to be an attempt to eradicate last green mature Grand fir up to 21" dbh left as a visual screen by rd 25 to hide a young P. pine plantation above & to remove the m-OG GF snags being Roadless area Never logged Plantation Many old growth logs and snags (actively used by MIS Woodpecker)

✓ Old growth/mature forest: GF/DF w/some PP 34.5" GF

most density Average tree size in "dbh": 34.1" GF, 25.9" GF, 29.5" GF, 44.3" GF, 32.2" DF, 43.1" GF, 45" GF

Examples of large tree diameter: 23.6" GF, 41.2" GF, 41.8" GF, 32.1" DF, 39.8" PP

= 49" dbh # of old growth trees per acre: 14 live OG GF, 2 live OG DF, w/4 OG GF snags & 3 OG GF & 2 OG DF tops

* High quality old growth habitat.

✓ Previously logged approx. age of trees m-OG fir stumps, a few OG PP stumps, OG DF stumps

Describe marking to cut: some old blue marking to cut on m-OG GF

Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: OG GF stumps, m fir stumps, OG PP stumps, OG DF stumps (see 13:54)

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

6 ✓ Juniper 1 ✓ Doug Fir 4 ✓ Western Larch 1 ✓ Grand Fir 5 ✓ 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): GF, PP, DF, WL - most are GF - leave all DF & WL saplings/seedling

Quality and type of canopy closure, %: about 65% in the middle of the self thinning first stand (bigger than others) at 11:35 photo - perfect for Pileated & Ngor hawk nesting

✓ Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist & foraging area, high elevation, describe: live old growth Grand fir, fresh historically GF dominant w/some DF & less PP. GF up to 45" dbh, OG DF up to 32.5" dbh, Spring above lower part

% of defoliation - species and age of trees affected: top kill in some mature GF, m-OG GF snags

planted PP has browning & thinning crowns, otherwise mostly green w/full crowns

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): coyotes yipping & howling, fresh Pileated woodpecker foraging, fresh smaller woodpecker foraging, bear foraging, Ravens, a Pileated woodpecker call heard from within the sale unit, elk tracks, Douglas squirrels, a deer bed, Mt. Chickadee heard, a big denning cavity under a big OG GF (12:26-12:27) sufficient for bobcat, lynx, Pacific Fisher in size, a Thatch ant

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, hives, creeks, rivers, lakes, ponds) describe: none in sale unit a spring in the middle of the sale unit in an open area w/elderberry, likely Red Osier dogwood Goldenrod - see 13:47 photo

Riparian buffers? Adjacent steep slopes? A buffer of 100 feet on all sides is needed for the spring hardwood area

Unusual plants? a rare (for this area) Goat's beard or "Lions mane" mushroom on an OG GF log

Plant community types: Pinegrass, Snowberry,

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

Typical plants: wild strawberry, Star flowered Solomon's seal, Currant, Pussytoes, Sticky Cinquefoil, in opening between parts of sale unit: OR grape, hawron

Wildlife, cat: deer & elk trails, 15:49 an OG large DF stump w/ clipboard for scale

15:37 2 mugs OG fir stumps - likely Douglas

(11:35) The fir stand is not consistently dense & 2) green fir canopy w/ self thinning
(11:42) 1) top of a 32.2" dbh OG Douglas fir w/ big mistletoe brooms suitable for N. goshawk

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

(11:46) another OG fir stump w/ clipboard (11:57 & 11:58) an abandoned log deck in the nestling
(12:34) Landslide risk, describe: N/A sale unit - All fir - likely 6F - except one log

Density of roads (per sq. mi): high (12:00) tops of 2 healthy OG 6Fs w/ full green
Effects of livestock grazing: simplified plant community crowns - OG 6F on right = 43.1" dbh, 26F = 45"

(12:05) me hugging the 43.1" dbh OG 6F at 12:00, shows fire scar on live OG 6F
(12:21) Evidence of Animal Damage Control (12:10) me at the fire scorched base of the live 45" dbh OG 6F

activities: None seen (12:17) root was burrow suitable for marten under OG DF of 12:00
Evidence of bait stations for hunting, hunters' camps: an adjacent deer rack along rd 106 w/ pen

a nearby occupied hunters' camp on rd 25 within about 1/4 mile, hunters leaving another
Mining Herbicide spraying Gopher trappings/poison Other: (12:19) wood pecker foraging in wheeler

Exotic weeds seen: extensive Bull thistle from logging area adjacent to sale unit
Recreational use: Elk & deer hunting, camping nearby w/ denser stands, bgr rd 106

Describe sale unit overall: High quality old growth mixed conifer GF/DF/PP
habitat despite past high grading, w/ lots of MIS & other wildlife use, ash

soils, historic very large OG 6F & large OG DF, good OG snags & logs, mostly
Surrounding area: contiguous forest high-graded forest never logged area

roadless area(s) wildlife corridor meadow to w/s grassland rocky upland (12:26-12:27) a big
high desert seedlings pine plantation clear cut other cut: dense canopy in base of fir

public land, agency FS private land, ownership (12:26) me w/ large OG 6F, big enough
riparian (specify): Notch meadow to w/s w/ becomes marshy after winter snows for bobcat

area of human habitation None (12:44) recent bear foraging on another OG 6F log
Species seen adjacent to sale unit: (12:48) full green crowns on 2 OG 6Fs in OG count

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 (12:53) for depth
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. red Canon 10:01 sale map 10:21 survey heading

Photo #s & descriptions: 10:21 - a tall large OG Grand fir in the sale unit = 34.1" dbh
10:26 - me w/ the 34.1" dbh OG 6F at 10:21 (10:27) another OG 6F in the sale unit near

10:29 (2) adjacent recent (likely Kahler sale) logging w/ OG 6F stumps & big pile of
10:32 - view of mostly healthy mature mixed conifer introduced Bull thistle infestation

& introduced Bull thistle w/ closed road gate sale unit w/ adjacent recent logging
10:39 - a 29.5" OG Grand fir in the sale unit w/ adjacent recent OG 6F stump

10:41 - fresh Pileated woodpecker foraging on an OG 6F snag (12:44) (12:57) another OG 6F in log deck
10:43 - fresh smaller woodpecker foraging in an OG 6F snag in sale unit w/ clipboard

10:47 - young planted PP plantation in the sale unit (10:49) another residual historic
10:52 - a large OG fir stump w/ clipboard for scale legacy OG 6F = 44.3" dbh

10:54 - more fresh Pileated foraging in a YGF snag (10:55) bear foraging in an OG
10:59 - an OG DF stump w/ clipboard (11:01) more small woodpecker foraging on PP log

11:19 - me w/ the 44.3" OG 6F at 10:49 w/ old blue marking to cut (13:05) me hugging a
11:24 - healthy full green crowned mature GF & DF that would be targeted for removal

11:27 - typical view - the fir engraver beetle is creating needed OG snags & logs
for this otherwise green GF in OG stand - there is no evidence that all GF

would be killed by the beetle (13:13 & 13:32) 1) tops of 2 OG DFs & OG 6F, 2) showing mostly net size understory
11:30 - (2) an OG 6F snag w/ fresh Pileated foraging & 2) a woodrat nest at the base of

of the same OG 6F snag (11:33) a decaying OG GF log contributing soil nutrients
& soil carbon

(12:45) 1) a big OG broken top GF
snag & 2) a small OG 6F log

(12:45) 1) a big OG broken top GF
snag & 2) a small OG 6F log

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Recommendations #149: LEAGUE OF WILDERNESS
for sale unit: *No thinning*

DEFENDERS

BLUE MOUNTAINS

BIODIVERSITY PROJECT

27803 Williams Lane

Fossil, OR 97830

DATE *November 9th, 2019*

NTL FOREST *Kumatilla*

DISTRICT *Heppner*

PROJECT *West End CE*

UNIT *149 (large) & 148 (small)*

SURVEYOR'S NAME *Karen C.*

needed, No Netting needed;

DROP IT for wildlife habitat.

#148: NCT to 9" dbh or Drop.

No real commercial value.

Subjective evaluation of area: *This sale unit would not come close to paying for itself as it's fairly open with mostly small trees on a steep slope that would require yarding or helicopter logging - very expensive - and there's no evident insect epidemic here.*

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

☒ Old growth/mature forest: *some OG structure left (DF & some PP) but not much mature*

Average tree size in "dbh": *mostly NCT size (up to 9" dbh)*

Examples of large tree diameter: *35.4" DF, 25.2" DF, 30.2" DF, 46.7" in #148 DF,*

of old growth trees per acre: *estimated only - 4 +/- / acre live (most DF, some PP)*

w/ some OG logs & snags - not many

☒ Previously logged approx. age of trees *past higher grading of OG large fir*

Describe marking to cut:

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

some OG DF stumps

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

☐ Juniper *1* ☒ Doug Fir *2* ☒ Western Larch *3* ☒ 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): *a good mix of DF, WL, GF, & PP - not too dense - in openings*

Quality and type of canopy closure, %: *mostly very low - big openings, little overstory & young trees*

☒ Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: *large OG DF up to 35.4" dbh in #149, w/ a 46.7" DF in #148,*

N-NW slope, high elevation

% of defoliation - species and age of trees affected: *a lot of self thinning from below has already happened here; patchy DF mistletoe, patchy self-thinning of young GF*

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): *Northern Flicker heard, deer scat, Mt. Chickadee heard, a deer trail, a rank smell like a bear, elk scat, deer tracks, an elk track,*

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: *None seen except possible seeps on a*

spur rd by #148

Riparian buffers? Adjacent steep slopes?

N/A

Unusual plants? *Old Mans Beard lichen,*

Plant community types: *Snowberry/Pinegrass, Fescue, Princess Pine,*

Soil type, quality, compaction

level(s): *light tan ash*

Typical plants: *wild rose, OR grape, Currant, Phacelia sp., wild strawberry*

Monument plant: *Buckwheat sp. (Eriogonum)*

* Sale Unit 148 appears to be a dense spindly Ponderosa pine (young) thicket next to a hunters' camp w/ some OG PP & DF

Steepness of slope/aspect of slope (direction it faces): steep N. slope - 27° upper NW slope at 14:52

15:13 very steep mid slope: 30° N. slope;

✓ Landslide risk, describe: yes: 27-30° slope pitches on ash soil; trees are holding the slope

Density of roads (per sq. mi):

Effects of livestock grazing: cattle tracks in compacted bare ground clay area by #148

cowpies in #148, cattle trail in #148, overgrazing around sale unit 148

Evidence of Animal Damage Control

activities: None seen.

Evidence of bait stations for hunting, hunters' camps: a hunters' camp between sale units

149 & 148 w/ clearing, fire rings, deer hanging racks, & a great view

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

Exotic weeds seen:

Recreational use: two people driving out from the sale unit, looking for elk or good views

Describe sale unit overall: a block sale unit on very steep slopes w/ periodic small

benches - upper & mid slopes are big openings w/ lots of down wood & mostly
patches of seedlings & saplings w/ sparse m-OG PP & DF & m WL. Lower slope is denser

Surrounding area: ✓ contiguous forest ✓ high-graded forest ✓ never logged area ✓ canyon y-m frs

✓ roadless area(s) ✓ wildlife corridor ✓ meadow ✓ grassland ✓ rocky upland but very green.

✓ high desert ✓ seedlings ✓ pine plantation = 148 clear cut other cut: No sign of an insect

✓ public land, agency FS ✓ private land, ownership or disease epidemic.

✓ 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. Red cannon 14:35 sale map, 14:39 Survey heading

Photo #s & descriptions: 14:42 - a large OG Grand fir snag at the SW corner of the sale unit

14:46 - the big trunk of the OG GF snag in 14:42 w/ beautiful rock formation - basalt

14:50 - a big OG fir stump - likely GF (14:53) looking up into the healthy crown of

15:02 - abundant down & elevated logs for martin a 25.3" dbh OG DF

15:06 - looking up the trunk of a 30.2" dbh OG DF into healthy crown

15:17 - a typical big self-thinned opening w/ mostly seedlings & saplings in nice

15:22 - full green crown of an open grown OG DF (left) w/ a healthy OG PP & green m DFs

15:23 - recent Pileated foraging in a m DF snag (15:34) a high elevation view

15:33 - denser green y-m frs on lower slope (not sure if this is in the sale unit

15:39 - Old Man's Beard lichen hanging from an OG DF log

15:43 - another high elevation view from a big opening in the sale unit

15:48 - a big OG DF (or WL?) stump w/ clipboard for scale

15:54 & 15:55 - 2 elk tracks in a wet spot at the access road

15:57 - a hunters' camp w/ fire ring between sale units 149 & 148

15:59 - another fire ring & a deer rack in the hunters' camp

16:03 - 2 more elk tracks (16:06 & 16:07) looking up the trunk (x 2) me at the

base of a 46.7" dbh in or near 148

Recommendations

for sale unit:

Drop
high habitat value.
Previously high graded.
Moist north slope
rearing well

LEAGUE OF WILDERNESS
DEFENDERS
BLUE MOUNTAINS
BIODIVERSITY PROJECT

27803 Williams Lane
Fossil, OR 97830

DATE 11/9/19

NIL FOREST MATILLA

DISTRICT HEPPNER

PROJECT WESTEND CE

UNIT 151, 150

SURVEYOR'S NAME Cooper

PROPOSED TREATMENT: ~~overstory~~
removal of ponderosa pine res.
BA: 0-60

Subjective evaluation of area: Complex & young.

beautiful with changing latches.
good vigor on evergreen shrubs. In places

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

Old growth/mature forest: ☐

Average tree size in "dbh": 4"

Examples of large tree diameter: 16" WL, 17" GF, 21" DF, 44" GF, 13" GF

of old growth trees per acre: not enough to count

☒ Previously logged approx. age of trees 250 - many 0-50.

Describe marking to cut: adjacent area - blue paint

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

Previously NET'd, many OG stumps

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

Juniper 4✓ Doug Fir 3✓ Western Larch 1✓ 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): many larch, GF

Quality and type of canopy closure, %: 0-30% M trees spaced - little continuous canopy / touching branches

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

% 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.): woodpecker forage, brown woodpecker heard, deer trails, pileated forage, Deer / elk forage on bark, Elk scat, coyote scat? Bear scat, Rabbit scat, Bear forage, FRESH elk scat, wasp nest

lots of elk / deer signs.

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?

Unusual plants?

Plant community types: prince's pine, turnflower

Soil type, quality, compaction

level(s): ashy, less compacted

Typical plants: Elderberry, pine drop, strawberry, Kinnikinnick, Currant, Oregon grape, gooseberry, pussytoes, Huckleberry, rattlesnake plantain, Elk scat, pussytoes, pink wintergreen

Steepness of slope/aspect of slope (direction it faces): 20% N Facing

Landslide risk, describe: none seen

Density of roads (per sq. mi): 3 mi

Effects of livestock grazing: none seen

Evidence of Animal Damage Control

activities: none seen

Evidence of bait stations for hunting, hunters' camps:

unoccupied & active hunters camps nearby

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

Exotic weeds seen: ☐

Recreational use: ☐

Describe sale unit overall: all N Slope, mixed conifer, many larch, some areas previously thinned, most large trees have been highgraded, good amount of cover & forage, healthy shrub layer, r

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: thinned

☒ public land, agency FS ☐ 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.

Photo #s & descriptions:

15:27 squirrel forage
15:29 old, extensive thinned forage
15:30 OG fir w/ forage/nest holes
15:35 Cooper with 4" GP
15:39 forage / nest hole in snag
15:42 bear forage hole in stump
15:54 thinned wood
15:57 Elk / deer forage on YP
15:58 deer scat
15:59 adjacent area to unit - all young no canopy
16:03 - adjacent to unit - clearings, low
16:03 - blue print from previous sale
15:01 stacked wood
5:11 typical canopy view: sparse tall m trees
5:14 Elk scat
5:15 Coyote ? scat
15:16 more Elk scat
15:20 Bear scat
15:20 rabbit scat
15:22 soft fresh sapsucker forage
15:23 Elk + deer forage
15:23 snapped - windthrow?
15:24 Bear forage
4:00 > Elk / deer forage on shrub bark
4:59 thinned forage in stump
4:58 extensive downed wood
4:57 typical view: mixed conifer patches
14:55 m larch group
14:53 antlers
4:53 NCT d area
4:50 large stump
4:48 GP seedlings among m pine
4: heading
canon Powershot SD 800

Recommendations

for sale unit: DRUP -

~~the~~ Cumulative Impacts: adjacent to clearcut area; previously high moisture area, higher up - variable slopes.

LEAGUE OF WILDERNESS
DEFENDERS
BLUE MOUNTAINS
BIODIVERSITY PROJECT

27803 Williams Lane
Fossil, OR 97830

DATE 11/3/19

NTL FOREST UMATILLA

DISTRICT HEPPNER

PROJECT WESTEND CE

UNIT 186, 185, 187

SURVEYOR'S NAME COOPER

PROPOSED TREATMENT: 0-50 BA

Subjective evaluation of area: very mixed age with old trees. Lots of nice logs to sit on. Made me walk slowly & carefully.
HEALTHY - has survived several disturbances.

Roadless area ☐ Never logged ☐ Plantation ☒ Many old growth logs and snags

☒ Old growth/mature forest: Moist mixed OG

Average tree size in "dbh": 8"

Examples of large tree diameter: 37" GF, 36 1/2" DF, 31" GF, 34" PP, 37" DF

of old growth trees per acre:

☒ Previously logged approx. age of trees 250+

Describe marking to cut: none seen

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

Some "roads" on map seemed to be just skid trails??

Mixed conifer, specify species and number in descending order of prevalence: 3 ☒ 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): GF predominantly.

Quality and type of canopy closure, %: 30-50% multi story canopy w/ snags + large tree structure.

☒ Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: somewhat moist: minor drainage, nearby evidence of groundwater (willows, springs) GF dominant until uplands.

% of defoliation - species and age of trees affected: none seen

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): Burrows, sapsucker forage, predator's leftovers (skeletons) bear forage on log, deer or elk beds, deer scat, elk scat, nesting + roosting in large snags

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: nearby springs, willows in odd places indicate seeps. Minor drainages = headwaters

Riparian buffers? Adjacent steep slopes?

There is a riparian buffer separating 186 + 185. uplands get steeper.

Unusual plants?

Plant community types: prince's pine, fescue, elk sedge, snowberry

Soil type, quality, compaction

level(s): ashy, compacted. Rocky in places

Typical plants: Pileated, wild strawberry, mullein, pussy toes, stone lichen, Oregon Grape, pathfinder, Kalm's rhubarb, Yarrow, pathfinder, elderberry, Lemnathus, Sedum,

Canoe missed

Steepness of slope/aspect of slope (direction it faces): 30° slope ~~to~~ W facing

Gets cliffy in places (45°+)

Landslide risk, describe: large trees hold the rock ~~the~~ slope together.

Density of roads (per sq. mi): 3 mi

Effects of livestock grazing: cow pies, trampling in streambed.

Evidence of Animal Damage Control

activities: none seen

Evidence of bait stations for hunting, hunters' camps:

2 Current hunters camps nearby

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

Exotic weeds seen: adjacent - MANY thistle. some encroaching into unit.

Recreational use: 2 occupied hunters camps nearby

Describe sale unit overall: Sloping from flat to steep, diverse + variable forest defined by moderately spaced old, ^{large} trees. minorly thickety, abundant downed wood + forage of various types + habitat of various types

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 inholdings

☒ riparian (specify): "The Notch" meadow springs

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:

11:03 - Deer or elk beds
11:19 - 06 stump
11:19 - is this the road 2500-100?
11:14 - showing extreme ruggedness of upper slope
11:22 - showing live + dead Dfs holding together
11:24 - old elk scat
11:35 - showing bare upland
11:35 - (2) 1129-69 road?
10:59 - (2) typical view showing mixed con. canopy & steep rocky slope
10:57 - stumps on steep rocky slope
10:54 - bear forage on OC log
10:52 - showing sunned wood, logs, stumps
10:45 - forage on log
10:44 - cow per w/ 3rd pp
10:37 - sparrowhawk at prey
10:27 - 06 stump w/ woodpecker range
10:24 - Cooper with 3" GF
10:18 - minor drainage view
10:18 - cow trampling in minor drainage
10:18 (2) - adjacent clearest end of thistle
10:02 - map
10:02 - heading
Fanta's Canon PowerShot SD 800

(12:50) Typical view (high elevation) looking down in to the sale unit - healthy m DF, WL, ES opa
East/NE aspect (12:53) orange & yellow rock lichen (12:59) Looking up the trunk of a 31.4" OG PF
Steepness of slope/aspect of slope (direction it faces): 23° SE/E aspect toward drainage (11:41)
(12:24) a 33° steep slope in the sale unit w/ typically open m & OG trees & patches seedlings
(13:02) Landslide risk, describe: Yes - up to 33° trees holding slope (13:08) fresh Pileated foraging in
(13:03) Density of roads (per sq. mi): lower in this section, as not logged down here. (13:15) heartwood
Effects of livestock grazing: some possible cattle trails (13:12) mossy large rock & formation dbh OG PF
(13:20) me hugging a 35.8" OG DF in the OG count area. 13:02-3
Evidence of Animal Damage Control (13:37) high-elevation view w/ open overstory w/ healthy OG DF
activities: None seen. (13:39) fresh bear foraging in an OG GF log.
Evidence of bait stations for hunting, hunters' camps: a hunters' camp nearby (occupied) on rd 2516
w/ RV, successful Bull elk hunters leaving on rd 21 by sale unit, a shot heard
Mining _____ Herbicide spraying _____ Gopher-trappings/poison _____ Other (13:49) OG P, PS, top of slope
Exotic weeds seen: None seen. (13:43) a 29° upper slope in sale unit w/ OG PFs & m-OG healthy GFs
Recreational use: 2 trucks drove out past these sale units on rd 21 w/ big elk hunters & an
Describe sale unit overall: young GF mortality only appears at the edges of the sale unit above the drainage in more clay soil w/ PFs & by a ski trail (unregenerated). In
the drainage = OG GFs & DF w/ m WL & ES all healthy, already open & variable density w/
Surrounding area: ☒ contiguous forest ☒ high-graded forest ☒ never logged area ☒ canyon healthy
_____ roadless area(s) _____ wildlife corridor _____ meadow _____ grassland _____ rocky upland GF, DF, WL & ES
_____ high desert _____ seedlings _____ pine plantation _____ clear cut _____ other cut: saplings & seedling
☒ public land, agency FS _____ private land, ownership (14:12) 32° N/NW slope not too dense
☒ riparian (specify): Brown Creek & intermittent tributary below steep slopes of sale unit.
area of human habitation None (13:54 & 13:55) downhill & uphill views of an elk trail
Species seen adjacent to sale unit: (13:57) more recent Pileated foraging in a m DF snag (14:00)
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. Red Canon 10:25 Sale map 10:32 District map, marked then
Photo #s & descriptions: 10:35 Survey heading (14:04) me hugging a 33.4" dbh OG Grand fir (14:06) 1 an OG GF
10:45 - typical view looking down slope in the sale unit w/ many (most fall) green healthy saplings, 2 an
full crowned hazy to mature Grand firs (10:49) an OG fir log w/ clipboard for scale OG DF log
10:53 - me sitting in front of a large OG log - bark looks like DF (10:56) a big OG fir stump (14:08) 1 an OG GF
11:00 - a large OG WL log (11:01) (2) an OG DF snag w/ old Pileated foraging likely GF, w/ clipboard
11:09 - me next to a big OG GF snag w/ big chunks ripped off a bear - in the RHCA
11:14 - me pointing to an old blue marking tree on a 44" dbh healthy OG GF in the
11:21 - fresh P. teated woodpecker & smaller woodpecker intermittent stream RHCA
11:23 - a 37.5" dbh bending line OG DF (11:28) 2 OG DFs w/ full green crowns w/ a m GF
11:41 - steep slope in sale unit w/ boulders between them w/ slightly thinning top crown
many fallen trees, already open = 25° the DF on the right = 31" dbh (12:26) sword fern
E/SE facing into drainage - OG DF on left = 30.1" dbh. (11:57 & 11:58) base & top
11:47 - rock formations like this require a 50' wildlife buffer of a 26.2" dbh OG E spruce
11:52 - recent bear foraging in an OG GF log (12:01) me sitting at the base of a 26.2" OG ES
12:06 - looking up the trunk of a 29" dbh OG DF (12:10) recent Pileated foraging on a m GF ska
12:18 & 12:20 - unided plant w/ many curled leaf seed capsules on woody stems, about 10"
12:26 - a large OG DF log w/ boulders (12:27) typical healthy mixed understory on high
12:29 - an OG WL w/ full green crowns on lower slope w/ abundant logs for martin
12:36 - beautiful rock formations at m DF x ES overstory (12:33) a large OG WL snag - looking
top of slope in sale unit w/ serviceberry (12:49) another lovely rock formation up trunk

- * Steepslopes would require yardings w/difficult regeneration if logged.
 * Very high quality old growth snag & log habitat. A Pileated woodpecker within the sale unit.
 * High quality old growth habitat. Uneconomical to log and never logged before. Not many mature trees < 21" dbh - mostly open overstory & NOT size understory.
- Recommendations for sale unit: **DROP** should be a DOG combined w/unit 173. Active Pileated woodpecker habitat & suitable marked habitat. Lots of old growth structure.
- LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT
 27803 Williams Lane Fossil, OR 97830
- DATE November 10th, 2019
 NTL FOREST Timatilla
 DISTRICT Heppner
 PROJECT West End CE
 UNIT 295 (next to 173)
 SURVEYOR'S NAME Karen Coulter

Subjective evaluation of area: This should be combined w/sale unit 173, as they are only disconnected by a shared RHCA buffer and both should not be logged and should be designated as Dedicated Old Growth for wildlife. Having done the Heppner District

Roadless area ☒ Never logged ☐ Plantation ☒ Many old growth logs and snags old growth
☒ Old growth/mature forest: OG DF, ES, GF, & WL structure - live, snags, & logs inventory
 Average tree size in "dbh": most density = < 9" dbh - very open overstory 23.7% this is a DOG
 Examples of large tree diameter: 35.9" PP, 30.6" DF, 26.2" ES, 32" GF, 33" GF, 27" GF, 25" GF is a DOG
 # of old growth trees per acre: 10 OG live GF, 3 OG live PP, 2 OG live ES, 1 OG live DF, (16) or share
 w/OG snags: 8 OG DF snags, 4 OG WL snags, 2 OG GF snags, (14) & OG logs: 7 OG DF logs, & most old growth
 Previously logged approx. age of trees: 4 OG GF logs, 2 OG ES logs, & 1 OG WL log? has been logged on
 Describe marking to cut: old blue marking to cut out some OG GF & DF (14 OG logs) esp. in the West End & may not be enough to meet
 Former logging sign (skid trails, stumps, lack of regen., dense overstocked spindly thickets), describe: No signs of prior logging within the sale unit - prior logging on PP/DF plateau above
☒ Mixed conifer, specify species and number in descending order of prevalence: 2 Ponderosa Pine
 Juniper 5 Doug Fir 4 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:
 Tree seedlings (species, quantity): GF, DF, ES, WL in openings - not too dense - good to
 Quality and type of canopy closure, %: Mostly low due to open over (see so much ES. Forest Plan standards which is pathetic
 Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: Twinflower moist PAG, above Brown Creek, w/OG DF, OG WL, OG GF - live, logs, & snags, an OG ES snag
 % of defoliation - species and age of trees affected: some beneficial YGF self thinning next to the drier PP/DF plateau adjacent to the S., some m-OG GF snags. The mortality has
 Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, already dens, burrows, beds, hives, etc.): a Redbreasted nuthatch seen, elk scat, happened in the unit
 fresh Pileated woodpecker foraging, bear foraging, Pileated roost holes in an OG DF snag
 a big soaring hawk seen, Northern Flicker foraging, a Pileated woodpecker heard in the sale unit, also a N. Flicker call in the sale unit
 abundant down & elevated m & OG logs for martin subnivian foraging, also big
 Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: next to a tributary to Brown Creek (intermittent) to West, and sloped above (leading to) Brown Creek below to North. Brown Creek is perennial & likely has fish.

Riparian buffers? Adjacent steep slopes? Brown Creek needs at least a 150' buffer, tributary needs a 50' buffer > golden brown fungus (conk) w/darker & lighter edges
 Unusual plants? Sword fern, (15:37) an undecid. See, 15:31 & 15:32
 Plant community types: Elk sedge, Princess Pine, Twinflower-moist PAG.

Soil type, quality, compaction level(s): light tan ash
 Typical plants: moss, wild strawberry, Arnica Cordifolia, OR grape, Rattlesnake plantain, False Solomon's Seal, Big leaf or Sticky currant, Pink Wintergreen, Swamp gooseberry.

Wildlife, cont.: well traveled elk trails, woodpecker foraging heard,

Steepness of slope/aspect of slope (direction it faces): NW slope - 24° NW

✓ Landslide risk, describe: ashy soils, up to 24° slope, rocky difficult regeneration if logged.

Density of roads (per sq. mi.):

Effects of livestock grazing: None seen in sale unit.

Evidence of Animal Damage Control

activities: None seen.

Evidence of bait stations for hunting, hunters' camps: a hunters' camp nearby on the 2516 rd,

an unoccupied hunters' camp nearby on 21 rd; hunters driving by on 21 rd,

Mining ☐ Herbicide spraying ☐ Gopher trappings/poison ☐ Other: shots heard earlier nearby.

Exotic weeds seen: None seen.

Recreational use: Hunting - a hunters' camp nearby on 2516 rd, hunters driving by on rd 21

Describe sale unit overall: Great old growth snag & log habitat w/ variable density,

fairly open overstory line of trees, not much mature mid-story vigorous

but patchy mixed seedling & sapling regen; most in 206 trees have full

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

☐ roadless area(s) ☐ wildlife corridor ☐ meadow ☐ grassland ☐ rocky upland ☐ crowns, w/ any

☐ high desert ☐ seedlings ☒ pine plantations ☐ clear cut ☐ other cut: die-off part except at

☒ public land, agency FS ☐ private land, ownership edges of upper plateau & sides

☒ riparian (specify): intermittent tributary to Brown Creek adjacent to W. Brown Creek to N.

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. Red cannon 14:41 Survey heading 14:48 elk scat

Photo #s & descriptions: 14:52 - fresh Pileated woodpecker foraging in a Y log adjacent to the

14:54 - green Y-M GF w/ 1 OG GF snag & 2 m GF snags

14:57 - fresh Pileated foraging in a Y GF snag

15:04 - mossy rock formation at top of slope

15:10 - taller rock formation along the top of the slope

15:26(3) 1) a long bending OG WL log, 2) an OG WL snag, & 3) an OG DF snag

15:33 - recent bear foraging in a m DF log

15:40(2) 2 different OG GF logs

15:44 - a Pileated woodpecker roost hole in an OG DF snag

15:57 - me at the base of a big OG DF snag w/ loose bark

15:59 - many Englemann spruce seedlings

16:01 - another big OG DF snag w/ Pileated roost holes (hollow)

16:10 - me sitting at the base of a 32" dbh OG GF marked blue to cut, w/ light tan ashy

16:21 - me pointing to old blue marking to cut on a 33" dbh live OG GF

16:32 - top of a big OG DF snag

16:37 - Northern Flicker foraging in the base of a another big OG DF snag

17:07 - a 24° SW slope w/ opening & NCT size GF, DF, ES, WL, & PP seedlings & saplings

17:16 - a well traveled elk trail

17:22 - Pileated foraging in a big OG DF snag & top of same big OG DF snag

old growth habitat in dense NCT thickets - small sale unit

Recommendations

for sale unit: NCT by hand

up to 8-9" dbh max.

No other thinning is needed
to invigorate this stand.

LEAGUE OF WILDERNESS

DEFENDERS

BLUE MOUNTAINS

BIODIVERSITY PROJECT

27803 Williams Lane

Fossil, OR 97830

DATE November 11th, 2019

NTL FOREST Yamatilla

DISTRICT Heppner

PROJECT West End CE

UNIT III

SURVEYOR'S NAME Karen C.

Subjective evaluation of area: It's not at all clear why this would be a commercial logging sale unit as it's almost all young small trees < 9" dbh due to heavy past logging. All that's needed to improve vigor is small tree handfelling up to 8-9" dbh.

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

40.6" GF ☒ Old growth/mature forest: Most trees are < 9" dbh but still residual OG structure

Average tree size in "dbh": mostly < 9" dbh, all densities (excessive) = only NCT size 26.5" GF,

39.2" GF Examples of large tree diameter: 23.6" GF, 31.5" PP, 25.1" GF, 26.7" GF, 24.5" DF, 24.1" DF, 24" GF

32.5" GF # of old growth trees per acre: 9 OG live GF, 6 OG live DF, w/ 8 OG GF snags, & 27.3" GF, 26.5" GF

☒ Previously logged approx. age of trees OG PP stump

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 ☐ Engelman

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

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

Tree seedlings (species, quantity): DF, GF, PP - lots - dense spindly thickets

Quality and type of canopy closure, %: mostly very low due to sparse overstory, few

mature trees not $\geq 21"$ dbh, & large areas of dense NCT-size thickets

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

area, high elevation, describe: some old growth characteristic live Grand fir remaining

& a big OG GF snag (12:37), NE/N slope, live GF up to 40.6" dbh, OG DF > 21" dbh

% of defoliation - species and age of trees affected: some MG GF snags - not many,

mostly green trees except for winter w/ losing their needles.

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

dens, burrows, beds, hives, etc.): a skull - likely deer (12:43), likely Sapsucker foraging (12:45)

Redbreasted nuthatch, fresh Pileated foraging, a wild turkey feather,

recent bear foraging in an OG GF log

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

Riparian buffers? Adjacent steep slopes?

N/A

Unusual plants? a dried up Rein orchid or lady's tresses

Plant community types: Elk sedge, Snowberry, Ocean Sprag, Prince's Pine,

Twinklflower,

Soil type, quality, compaction

level(s):

Typical plants: Boxwood, OR grape, moss, HornKweed, dried Dogbane,

CA False Hellebore,

* Drop all steep slope logging, including in this sale unit - uneconomical & destructive.
 * Cumulative impact concerns - already greatly degraded by past logging.
 * Less evident wildlife use in this younger logged stand than in the unlogged stands, but still some elk & deer use, & foraging.
 Recommendations for sale unit: Drop since the stand is already self-thinned; further logging will just stress the remaining line trees w/ full green crowns.
 LEAGUE OF WILDERNESS DEFENDERS BLUE MOUNTAINS BIODIVERSITY PROJECT
 27803 Williams Lane Fossil, OR 97830
 DATE November 11th, 2019
 NTL FOREST Limatilla
 DISTRICT Heppner
 PROJECT West End CE
 UNIT 110
 SURVEYOR'S NAME Karen C. Hays

Subjective evaluation of area: The fir self-thinning mortality has already happened here & does not appear to be active. Notably the mortality is more widespread in already logged stands like this; further thinning or heavy logging would only further stress
 Roadless area ☐ Never logged ☐ Plantation ☐ Many old growth logs and snags remaining
☒ Old growth/mature forest: mostly younger-mature w/ limited residual OG. healthy trees - already an open stand
 Average tree size in "dbh": about 12" dbh, most density = < 9" dbh
 Examples of large tree diameter: 29.3" GF, 37.6" GF, 22.6" DF, 26.7" DF, 24.8" DF, 36.6" PF, 26.1" DF
 # of old growth trees per acre: Not enough to do a representative OG count

☒ Previously logged approx. age of trees already high graded & ctd fairly open, steeper slopes were probably clearcut.
 Describe marking to cut: OG WL stump, OG PP stumps, unregenerated skid trails (e.g. 11:45 photo) stake
☒ Mixed conifer, specify species and number in descending order of prevalence: ☒ Ponderosa Pine canyon
☒ Juniper 2 ☒ Doug Fir 3 ☒ Western Larch 2 ☒ Grand Fir 1 ☐ Lodgepole Pine 1 ☐ Engleman has been
☐ Spruce 1 ☐ Subalpine Fir 1 ☐ Yew 1 ☐ Mt. Mahogany 1 ☐ Aspen 1 ☐ Willow 1 ☐ Alder very heavily
☐ Shasta Red Fir 1 ☐ Sugar Pine 1 ☐ White Pine 1 ☐ Incense Cedar 1 logged in the
 Tree seedlings (species, quantity): DF, GF, WL & some PP (in order of prevalence) past, w/
 Quality and type of canopy closure, %: highly variable w/ many openings lasting
skid trail impacts.

☒ Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: old growth Grand fir up to 37.6" dbh, OG GF log & snag, OG fir stumps, DFs > 21" dbh, patches DF mistletoe, OG GF self-thinning already done
 % of defoliation - species and age of trees affected: y-m DF snags, y-m GF snags, some m GF topkill, very limited red needles on GF, seems like mostly an old infestation, not active
 Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): a Pileated woodpecker heard in the sale unit, Pileated foraging on a WL log, elk scat, deer trails & deer scat, a male hairy woodpecker seen foraging on a m GF snag (11:28-11:30 photos), bear foraging, ruffed Ravens, an elk heard in a dense thicket on lower slope NW end, a grouse seen there, (11:54) fresh elk scat, fresh Pileated foraging (12:06), Redbreasted nuthatch,

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoff, creeks, rivers, lakes, ponds) describe: unbuffered stream drainage (10:18 & 10:19) at So. curve of rd 21 opposite of 446 w/ obvious channel (rocky) & culvert & Ocean spray, shrubs & moss flowing stream in sale unit (11:59-12:00) & (10:24) photos, likely w/ mapped RHEA buffer (12:02) Riparian area where elk was heard
 Riparian buffers? Adjacent steep slopes? (10:18 & 10:19) an intermittent stream drainage not buffered on the map
 Unusual plants?
 Plant community types: Snowberry, Ocean spray, Elk sedge, Twin flower, (e.g. 12:09) Prince's Pine,

Soil type, quality, compaction level(s): light tan ash
 Typical plants: wild Strawberry, OR grape, Boxwood, Monument plant, CA false Hellebore, Rattlesnake plantain, Big leaf lupine, Serviceberry, Pathfinder, Goldenrod, Eriogonum (Buckwheat),

* Logging - especially heavy logging as planned in this sale - increases stress to trees & insect infestation - contrary to the purpose & need. some m DF topkill

(11.74) Steepness of slope/aspect of slope (direction it faces): North slope, much of it mild in steepness
220 N/NE slope in NW end, more 220 slope, NE/N (12.14) 230 NE/N slope (12.18)

Landslide risk, describe:

Density of roads (per sq. mi):

Effects of livestock grazing: Nice Elk sedge length/height remaining, good grass height too.
old cowpies

Evidence of Animal Damage Control

activities:

Evidence of bait stations for hunting, hunters' camps: still an occupied hunters' camp on rd. 25, W. of rd 100
Wheeler meadow hunters' camp vacated, yesterday an occupied hunters camp on 25/6, &

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

Exotic weeds seen:

Recreational use: elk & deer hunting, & Nice elk habitat (w/ an elk) on lower slope, NW end E of rd 100

Describe sale unit overall: Already Cted & high graded with only patchy saplings &

seedlings - mostly very open except in drainages, y-m GF & DF thinning has always
happened, plenty of green vigorous y, m, & OG fir's plus WL & OG PPS - mostly y/m -
mature

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 adjacent to West

☒ riparian (specify): streams (including perennial) within sale unit & below sale unit slope
area of human habitation None

Species seen adjacent to sale unit: Mule deer along rd 25 - about 6, elk bugling heard along rd 21 near

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. Red canon 9:56 & 9:57 maps of 110 & 111, 112, & 114 & 116

Photo #s & descriptions: 10:00 Survey heading (10:11) mostly full green m fir crowns away from

10:14 - full green crowns of 2 m GF w/ green midstory DF & y WL

10:24 Culvert above unbuffered intermittent stream (10:32) Pileated woodpecker

10:30 - me sitting at the base of a 29.3" dbh OG Grand fir foraging in a WL log w/ chips

10:33 - an OG GF log in unbuffered stream (10:37) looking up the trunk of a 37" dbh

10:38 - me hugging the 37" dbh OG GF in 10:37 & a big OG GF snag at left drainage

10:49 - typical view - already Cted & high graded & open y-m DF, GF, WL, & PP

10:52 an OG WL stump w/ chipboard (10:55) full green crown of a 24.8" dbh DF

11:01 - an OG fir stump w/ GF seedlings, moss, lichen, & chipboard

11:15 a patch of young Grand fir snags (11:19) Pileated foraging in a y DF snag

11:28 - 11:30 photos of a male hairy woodpecker foraging on a m GF snag

11:33 - older Pileated foraging on an OG DF snag (11:34 & 11:35) fresh Pileated

11:45 an unregenerated skid trail, looking up slope woodpecker foraging on a y WL

11:47 - recent bear foraging in a y GF log (11:49) a 220 N/NE slope in NW end

11:54 - fresh elk scat near where the elk was heard (12:05) more elk scat

12:06 - Very fresh Pileated foraging w/ chips in a y fir snag (12:09) Twinflower

12:28 - y-m Grand fir snags next to rd. 21

- * There's no commercial value in here - most trees are NET spindly thickets w/ few mature trees > 21" dbh
 * Could NET only & leave the trees on the ground - only up to 8" dbh, but leaving hiding cover

DROP

Recommendations

LEAGUE OF WILDERNESS

DATE November 11th, 2019

for sale unit: Both sale units

DEFENDERS

NITL FOREST Linatilla

#116 & #114 should be dropped to protect the Stahl Canyon Creek & Assoc. wildlife security corridor.

BLUE MOUNTAINS

DISTRICT Heppner

BIODIVERSITY PROJECT

PROJECT West End CE

27803 Williams Lane

UNIT 116

Fossil, OR 97830

SURVEYOR'S NAME Karen C.

Subjective evaluation of area:

We're concerned that the adjacent RHCA for Stahl Canyon Creek is an important migratory & dispersal corridor (& a reliable source of water) for elk, deer, marten, potential Lynx, and other species, & should be retained in a denser (conifer) condition for wildlife security as a wildlife corridor, & also to protect Stahl Canyon Creek from adjacent road & logging sediment.

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

☒ Old growth/mature forest: Residual OG GF & DF immersed in spindly thickets

Average tree size in "dbh": < 7" dbh - more like 1-3" dbh / 25" DF, 24.8" GF,

Examples of large tree diameter: 25.9" GF, 27.4" GF, 29.6" DF, 26.6" GF, 27.3" GF, 24.6" GF

of old growth trees per acre: in a narrow rectangular N/E to S/W band acre: 2

18 live OG GFs, 5 live OG DFs, 4 OG GF snags, 1 OG DF snag, & 0 OG logs

☒ Previously logged approx. age of trees m. for stumps

Describe marking to cut: None

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

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

Juniper 2, Doug Fir 3, Western Larch 1, 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):

Quality and type of canopy closure, %: mostly low due to mostly NET size young trees & sparse open patchy overstory

☒ Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: large Grande & Douglas firs > 21" dbh, OG fir's snags above Stahl Canyon Creek

% of defoliation - species and age of trees affected: patchy m-OG GF & DF mortality (e.g. 14:55) mostly green

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): woodpecker foraging heard, deer trails, a hairy woodpecker seen foraging in sale unit 114 (across creek) & heard, then flew into sale unit 116, fresh Pileated woodpecker foraging, deer scat, Redbreasted (or Whitebreasted?) nuthatch heard,

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: Stahl Canyon Creek below slope of sale unit - perennial, w/ moist flood plain, Red Osier dogwood, alders, riparian sedge, medium to large cobbles, large downy wood, moss on rocks - see photos 14:59 + 15:03 & 15:05 also Monk's Hood & Mt. Ash

Riparian buffers? Adjacent steep slopes? Stahl Canyon Creek should have at least a 150' INFISH horizontal buffer on both sides

Unusual plants? Plant community types: Twinflower-moist PAG, Snowberry, Prince's Pine,

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

Typical plants: Vetch, Star-flowered Solomon's Seal, wild Strawberry, Box wood

Rattlesnake plantain, Big leaf Lupine, Hooker's Fairy bell,

Effects of livestock grazing: None seen

activities: None seen.

Evidence of bait stations for hunting, hunters' camps: Hunters' camps were nearby

Exotic weeds seen: None seen

Recreational use: a pickup truck passed by on rd. 21

Describe sale unit overall: a narrow band of residual pine 066F&DF w/ 066F&DF snags, surrounded by dense spindly small tree thickets about <1"-7" dbh w/ very few mature trees <21" dbh. right between the 21rd (sediment source)

Surrounding area: ☒ contiguous forest ☒ high-graded forest ☐ never logged area ☐ canyon 2 more

roadless area(s) ☐ wildlife corridor ☐ meadow ☐ grassland ☐ rocky upland ☒ high desert ☐ seedlings ☒ pine plantation ☒ to SW clear cut ☐ other cut: open Stahl Canyon Creek Riparian

✓ public land, agency FS ✓ private land, ownership *about 1 mile West* below. Part of

✓ Riparian (specify): Stahl Canyon Creek (perennial) adjacent to NW the proposed
area of human habitation None known sale unit may

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. *Red Canon 14:50 Survey headline (14:55) a patch of m & o*

Photo #s & descriptions: 14:59-15:05 Views of Stahl Canyon Creek below sale unit - medium size dark brownish blackish water. 15:05-15:10 GF & DF mortality near rd 21, SW end

15:11 - fresh Pileated woodpecker foraging in a m GF snag in the RHCA (15:28) looking up a 29.6" dbh OGD.
15:16 - more fresh Pileated foraging in the RHCA & Alders
15:30 - bear foraging on a m-OG GF snag
15:35 - extensive fresh Pileated woodpecker foraging on an OG GF snag
15:40 - me hugging a 27.3" dbh OG Grandfir, w/ typical dense small tree thicket

Recommendations
for sale unit:

LEAGUE OF WILDERNESS
DEFENDERS
BLUE MOUNTAINS
BIODIVERSITY PROJECT

27803 Williams Lane
Fossil, OR 97830

DATE November 11th, 2019
NTL FOREST Umatilla
DISTRICT Heppner
PROJECT West End CE
UNIT 114
SURVEYOR'S NAME Karen C.

reasons as #116- or NCT, right over Stahl Canyon Creek RHEA, mostly NCT size trees, wildlife dispersal corridor

Subjective evaluation of area: *No sign of an insect epidemic here. Leave all mature & large trees & sufficient small trees for this to remain good security & dispersal habitat next to a reliable water source. Very small & pointless sale unit. Already variable density & open except in NCT-size thickets.*

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

☒ Old growth/mature forest: *mostly just sparse mature w/ NCT size thickets*

Average tree size in "dbh": *about 3-6" dbh*

Examples of large tree diameter: *21.5" DF, 24" DF, 28.7" DF,*

of old growth trees per acre: *Not many live OG trees & lacking OG snags & logs.*

☒ Previously logged approx. age of trees *m-OG stumps - fir & WL*

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 ☐ Engelman

☐ Spruce ☐ Subalpine Fir ☐ Yew ☐ Mt. Mahogany ☒ Aspen *at N/E edge* ☐ Willow ☐ Alder

☐ Shasta Red Fir ☐ Sugar Pine ☐ White Pine ☐ Incense Cedar ☐ other

Tree seedlings (species, quantity):

Quality and type of canopy closure, %: *about 40% canopy closure under h & maybe 1 OG DF & m WL. lots of openings. variable*

☒ Historically natural mixed-conifer site: old growth mixed-conifer, fire scars, north slope, moist area, high elevation, describe: *Live DF > 21" dbh, OG mixed conifer evidence in 116, just across the creek, & in all the other sale units along this stretch of rd 21*

% of defoliation - species and age of trees affected: *only one m GF w/ red needles seen in this sale unit - all the rest green!*

Species evident using area for habitat/forage (scat, tracks, sightings, calls, foraging/nesting, roosts, dens, burrows, beds, hives, etc.): *a possible Pileated woodpecker nest hole in a m live GF - fresh - see 16:35 & 16:36 photos - could be fresh foraging, but deep & well chiseled. Ravens, a Pileated woodpecker heard nearby, woodpecker drumming heard, a Northern Flicker heard,*

Riparian area in or adjacent to area/unit(s) (springs, seeps, drainage headwaters, seasonal runoffs, creeks, rivers, lakes, ponds) describe: *Stahl Canyon Creek RHEA adjacent to E/SE. See descrip. & photos for sale unit 116 - perennial, flowing, rocky channel, w/ some large wood, alders, & Red Aster dogwood*

Riparian buffers? Adjacent steep slopes?

Stahl Canyon Creek needs a 150' horizontal buffer on each side

Unusual plants?

Plant community types: *Pinegrass, Elk sedge, Ocean Spray, Twinflower, Snowberry,*

Soil type, quality, compaction

level(s): *light tan ash*

Typical plants: *Boxwood, Passiflora, OR grape, Hawkweed, wild Strawberry, Goldenrod, Currant, Pearly Everlasting, bracken fern*

Steepness of slope/aspect of slope (direction it faces): East/SE slope above creek

190 E/SE aspect - see 17:05

Landslide risk, describe: N/A

Density of roads (per sq. mi): high

Effects of livestock grazing: none seen, but quick survey

Evidence of Animal Damage Control

activities: None seen

Evidence of bait stations for hunting, hunters' camps: Hunters & hunters' camps were in area, mostly gone now

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

Exotic weeds seen: None seen

Recreational use: hunting/camping

Describe sale unit overall: similar to sale unit 116 but different aspect over creek, more slope (not a bench), more grassy openings, hardly any OG size trees, and more mature frs, but still a sparse overstory & NCT-size thickets

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 to W about 1 mile away

☒ riparian (specify): Stahl Canyon Creek to E/SE

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. Red Cannon 16:33 - survey heading

Photo #s & descriptions:

16:35 & 16:36 - an apparent fresh Pileated woodpecker nest hole in an m Grand fir
16:46 - green m-OG DF & m WL (snag & live) overstory canopy - about 40% canopy closure
16:59 - Looking up the trunk of a 28.7" dbh OG DF to live crown
17:05 - slope w/ m-OG DF, DF & GF seedlings, typical open grassy area, NCT-size density (GF, DF, PP WL) in background
190 E/SE aspect
17:10 - aspen by the road