

Photo Fuel Plots: Merritt - Part 2

- **Champion Creek**
#97-5-06-008-1
ESSF dc2—S2
- **Elkhart Exchange**
#97-5-06-008-3
MS dm2—S1
- **Elkhart Exchange**
#97-5-06-008-4
MS dm2—C3
- **Fox Farm**
#97-5-06-011-1
IDF xh2—C7
- **Fox Farm**
#97-5-06-011-2
IDF xh2—C3
- **Harmon Lake**
#98-5-06-001
IDF dk1—C7
- **Harmon Lake**
#98-5-06-001-2
MS xk/IDF dk2—C2
- **Chattaway Road**
#98-5-06-001-3
IDF xh2—C7

LOCATION: Champion Creek
Photo Fuel Plot # 97-5-06-008-1



Post 1



Post 2



Post 3

ECOLOGY		PLOT SUMMARY	
Aspect	West	Location	Champion creek
Slope (%)	10	GPS Coordinates	N49-27.097 W120-54.091
Elevation (m)	1500	Map sheet	92H.046
Fuel Type	S2	Polygon #	307
Bigeoclimatic Zone	ESSFdc2	FOREST COVER SUMMARY	
SOILS		Primary Species	n/a
LFH Layer	3cm	Secondary Species	n/a
Humus Form	mor	% Canopy Closure	0
Soil Order	Brunisol	Treatment Type	Mechanical site prep
Moisture Regime	Xeric	Year of Treatment	1992
Nutrient regime	poor	TREE AND FUEL CALCULATIONS	
Texture	sandy clay loam	Average Tree Height (m)	n/a
% Mineral Soil Exposure		Average Height to Live Crown (m)	n/a
		Coarse Woody Debris Mass (t/ha)	104.6
		Fine Fuel Mass (t/ha)	5.44

VEGETATION COVER				
	Brush Species	%	Herbaceous Species	%
Primary Species	<i>Vaccinium membranaceum</i>	30	<i>Valeriana sitchensis</i>	50
Secondary Species	<i>Rhododendron albiflorum</i>	20	<i>Epilobium angustifolium</i>	40

VEGETATION							
Unique #:		97-5-06-008-1		Surveyors:		SC,Merritt IA	
GPS co ordinates		N49-27.097' W120-54.091'		Location:		Merritt	
Map#:	92H.046			Polygon #		307	
Seedlings species		%	Brush species	%	Herbaceous species		%
Abies lasiocarpa		40%	Rubus pedatus	10%	Senecio triangularis		10%
Picea engelmannii	10%		Sorbus sitchensis	10%	Epilobium angustifolium		60%
Pinus contorta	40%		Vaccinium membranaceum	10%	Valeriana sitchensis		30%
			Paxistima myrsinites	5%			
			Rhododendron albiflorum	30%			
			Phyllodoce empetrifomis	10%			

LOCATION: Elkhart Exchange

Photo Fuel Plot # 97-5-06-008-3



Post 1



Post 2



Post 3

ECOLOGY		PLOT SUMMARY	
Aspect	South East	Location	Elkhart exchange
Slope (%)	5	GPS Coordinates	N49-52.754 W120-10.453
Elevation (m)	1539	Map sheet	92H.089
Fuel Type	S1	Polygon #	108
Bigeoclimatic Zone	MSdm2	FOREST COVER SUMMARY	
SOILS		Primary Species	n/a
LFH Layer	8cm	Secondary Species	n/a
Humus Form	mor	% Canopy Closure	0
Soil Order	Brunisol	Treatment Type	mech. Site prep, handfell
Moisture Regime	submesic	Year of Treatment	1986
Nutrient regime	poor	TREE AND FUEL CALCULATIONS	
Texture	Loamy-Sand	Average Tree Height (m)	n/a
% Mineral Soil Exposure		Average Height to Live Crown (m)	n/a
CREW LIST		Coarse Woody Debris Mass (t/ha)	63.4
Merritt IA		Fine Fuel Mass (t/ha)	36.36

VEGETATION COVER				
	Brush Species	%	Herbaceous Species	%
Primary Species	<i>Arcotostaphylos uva-ursi</i>	5	<i>Cornus canadensis</i>	5
Secondary Species			<i>Lupinus arcticus</i>	5

VEGETATION					
Unique #:	97-5-06-008-3		Surveyors:	NJ, Merritt IA	
GPS co ordinates	N49-52.754' W12-10.453'		Location:	Merritt	
Map#:	92H.089			Polygon #:	108
Seedlings species	%	Brush species	%	Herbaceous species	%
		Arcotostaphylos uva-ursi	5%	Cornus canadensis	5%
				Lupinus arcticus	5%
				Calamagrotis canadensis	10%
				Erigeron peregrinus	5%
				Taraxacum officinale	5%
				Rubus pedatus	15%

LOCATION: Elkhart Exchange

Photo Fuel Plot # 97-5-06-008-4



Post 1



Post 2

ECOLOGY		PLOT SUMMARY	
Aspect	North West	Location	Elkhart exchange
Slope (%)	5	GPS Coordinates	N49-52.731 W120-18.475
Elevation (m)	1478	Map sheet	921.089
Fuel Type	C3	Polygon #	110
Bigeoclimatic Zone	MSdm2	FOREST COVER SUMMARY	
SOILS		Primary Species	<i>Pinus contorta</i>
LFH Layer	8cm	Secondary Species	n/a
Humus Form	mor	% Canopy Closure	80
Soil Order	Brunisol	Treatment Type	none
Moisture Regime	submesic	Year of Treatment	n/a
Nutrient regime	medium	TREE AND FUEL CALCULATIONS	
Texture	Loamy-Sand	Average Tree Height (m)	18.1
CREW LIST		Average Height to Live Crown (m)	12.55
Merritt IA		Coarse Woody Debris Mass (t/ha)	193.9
		Fine Fuel Mass (t/ha)	18.49

VEGETATION COVER				
	Brush Species	%	Herbaceous Species	%
Primary Species	<i>Vaccinium membranaceum</i>	10	<i>Cornus canadensis</i>	5
Secondary Species	<i>Arctostaphylos uva-ursi</i>	30	<i>Phyllodoce empetriiformis</i>	5

VEGETATION					
Unique #:	97-5-06-008-4		Surveyors:	NJ, Merritt IA	
GPS co ordinates	N 49-52.731' W120-18.475'		Location:	Merritt	
Map#:	921.080		Polygon #:	635/a	
Seedlings species	%	Brush species	%	Herbaceous species	%
		Vaccinium membranaceum	10%	Cornus canadensis	5%
		Arctostaphylos uva-ursi	30%	Phyllodoce empetriiformis	5%
		Rhododendron albiflorum	15%		

LOCATION: Fox Farm

Photo Fuel Plot # 97-5-06-011-1



Post 1



Post 2



Post 3

ECOLOGY		PLOT SUMMARY	
Aspect	South East	Location	Fox Farm Merritt
Slope (%)	0	GPS Coordinates	N50-14.597 W120-45.310
Elevation (m)	888	Map sheet	921.007
Fuel Type	C7	Polygon #	273
Bigeoclimatic Zone	IDFxb2	FOREST COVER SUMMARY	
SOILS		Primary Species	<i>Pseudotsuga menziesii</i>
LFH Layer	10cm	Secondary Species	<i>Pinus Ponderosa</i>
Humus Form	mor	% Canopy Closure	30
Soil Order	brunisol	Treatment Type	none
Moisture Regime	n/a	Year of Treatment	n/a
Nutrient regime	n/a	TREE AND FUEL CALCULATIONS	
Texture	Sand-loam	Average Tree Height (m)	12.98
CREW LIST		Average Height to Live Crown (m)	0
Merritt IA		Coarse Woody Debris Mass (t/ha)	0
		Fine Fuel Mass (t/ha)	3.34

VEGETATION COVER				
	Brush Species	%	Herbaceous Species	%
Primary Species	<i>Spiraea betulifolia</i>	30	<i>Vicia americana</i>	10
Secondary Species	<i>Vaccinium scoparium</i>	5	<i>Epilobium angustifolium</i>	30

VEGETATION					
Unique #:	97-5-06-011-1		Surveyors:	NJ, Merritt	
GPS co ordinates	N50-14.597' W120-45.310'		Location:	Merritt	
Map#:	921..007		Polygon #:	273	
Seedlings species	%	Brush species	%	Herbaceous species	%
		<i>Spiraea betulifolia</i>	30%	<i>Vicia americana</i>	10%
		<i>Vaccinium scoparium</i>	5%	<i>Epilobium angustifolium</i>	30%
				<i>Arnica cordifolis</i>	20%
				<i>Festuca occidentalis</i>	80%
				<i>Achillea millefolium</i>	5%

LOCATION: Fox Farm

Photo Fuel Plot # 97-5-06-011-2



Post 1

ECOLOGY		PLOT SUMMARY	
Aspect	North	Location	Fox Farm Merritt
Slope (%)	3	GPS Coordinates	N50-04.589 W120-45.192
Elevation (m)	843	Map sheet	921.007
Fuel Type	C3	Polygon #	273
Bigeoclimatic Zone	IDFxh2	FOREST COVER SUMMARY	
SOILS		Primary Species	<i>Pseudotsuga menziesii</i>
LFH Layer	7cm	Secondary Species	<i>Pinus ponderosa</i>
Humus Form	mor	% Canopy Closure	20
Soil Order	Brunisol	Treatment Type	none
Moisture Regime	xeric	Year of Treatment	n/a
Nutrient regime	medium	TREE AND FUEL CALCULATIONS	
Texture	Silt-Clay	Average Tree Height (m)	13.53
CREW LIST		Average Height to Live Crown (m)	5.46
Merritt IA		Coarse Woody Debris Mass (t/ha)	n/a
		Fine Fuel Mass (t/ha)	TBA

VEGETATION COVER				
	Brush Species	%	Herbaceous Species	%
Primary Species	<i>Spiraea betulifolia</i>	35	<i>Vicia americana</i>	10
Secondary Species	<i>Arctostaphylos uva-ursi</i>	5	<i>Festuca occidentalis</i>	40

VEGETATION										
Unique #:			97-5-06-011-2			Surveyors:			NJ, Merritt	
GPS co ordinates			N 50-04.589' W120-45.192'			Location:			Merritt	
Map#:	921.007					Polygon #			273	
Seedlings species			%	Brush species			%	Herbaceous species		%
Pseudotsuga menziesii			5%	Spiraea betulifolia			35%	Vicia americana		10%
Pinus ponderosa		5%		Arctostaphylos uva-ursi			5%	Festuca occidentalis		40%
				Rosa acicularis			5%			
				Amelanchier alnifolia			5%			
				Shepherdia canadensis			5%			

LOCATION: Harmon Lake

Photo Fuel Plot # 98-5-06-001-1



Post 1



Post 2



Post 3

ECOLOGY		PLOT SUMMARY	
Aspect	northwest	Location	Harmon Lake
Slope (%)	30	GPS Coordinates	N49-58.169' W120-41-695'
Elevation (m)	1092	Map sheet	92H097
Fuel Type	C7	Polygon #	279
Bigeoclimatic Zone	IDFdk1	FOREST COVER SUMMARY	
SOILS		Primary Species	<i>Pseudotsuga menziesii</i>
LFH Layer	5.5	Secondary Species	<i>Pinus contorta</i>
Humus Form	mor	% Canopy Closure	30
Soil Order	Brunisolic	Treatment Type	none
Moisture Regime	submesic	Year of Treatment	n/a
Nutrient regime	Oligotrophic	TREE AND FUEL CALCULATIONS	
Texture	sandy loam	Average Tree Height (m)	19.40
% Mineral Soil Exposure	0	Average Height to Live Crown (m)	8.91
CREW LIST		Coarse Woody Debris Mass (t/ha)	42.4
SC,DM, JG, MB, MP, AS, TP, KM, KR		Fine Fuel Mass (t/ha)	8.13

VEGETATION COVER				
	Brush Species	%	Herbaceous Species	%
Primary Species	<i>Ribes lacustre</i>	5	<i>Lathyrus nevadensis</i>	75
Secondary Species	<i>Rosa gymnocarpa</i>	5	<i>Viola canadensis</i>	20
Tertiary Species	n/a		<i>Epilobium angustifolium</i>	5

VEGETATION					
Past Unique #		#:91-5-06-010-1		New Unique #	
GPS coordinates:		N49-58.169' W120-41.695'		Surveyors:	
Location:		Harmon lake Research Forest 100m SW of plot 2			
				Map#:	92H.097
Mosses %		0		Lichens %	0
Seedling species		%	Brush species	%	Herbaceous species
n/a			<i>Ribes lacustre</i>	5	<i>Lathyrus nevadensis</i>
			<i>Rosa gymnocarpa</i>	5	<i>Viola canadensis</i>
				<i>Epilobium angustifolium</i>	5
				<i>Taraxacum officinale</i>	5
				<i>Calypso bulbosa</i>	5

TREE TALLY						
Tree Species	Dominant	Codominant	Intermediate	Suppressed	Regen	Snag Count
<i>Picea glauca x engelmannii</i>	0	0	0	0	1	0
<i>Pseudotsuga menziesii</i>	6	4	6	10	6	0
<i>Pinus contorta</i>	1	4	1	3	0	0
<i>Pinus ponderosa</i>	0	0	1	1	0	0

LOCATION: Harmon Lake

Photo Fuel Plot # 98-5-06-001-2



Post 1



Post 2



Post 3

ECOLOGY		PLOT SUMMARY	
Aspect	north	Location	Harmon Lake
Slope (%)	25	GPS Coordinates	N49-58.243' W120-41.638'
Elevation (m)	1092	Map sheet	92H097
Fuel Type	C2	Polygon #	279
Bigeoclimatic Zone	MSxk/IDFdk2	FOREST COVER SUMMARY	
SOILS		Primary Species	<i>Pseudotsuga menziesii</i>
LFH Layer	6.5	Secondary Species	<i>Picea glauca x engelmannii</i> , <i>Abies lasiocarpa</i>
Humus Form	mor	% Canopy Closure	60
Soil Order	Brunisolic	Treatment Type	none
Moisture Regime	mesic	Year of Treatment	n/a
Nutrient regime	medium	TREE AND FUEL CALCULATIONS	
Texture	sandy clay loam	Average Tree Height (m)	29.57
% Mineral Soil Exposure	0	Average Height to Live Crown (m)	17.64
CREW LIST		Coarse Woody Debris Mass (t/ha)	379.6
SC,PBC,DW,DM		Fine Fuel Mass (t/ha)	5.41

VEGETATION COVER				
	Brush Species	%	Herbaceous Species	%
Primary Species	<i>Ribes lacustre</i>	15	<i>Linnaea borealis</i>	30
Secondary Species	<i>Lonicera involucrata</i>	<5	<i>Goodyera oblongifolia</i>	5
Tertiary Species	<i>Rosa spp.</i>	<5	<i>Calypso bulbosa</i>	5

VEGETATION							
Past Unique #:		91-5-06-1-010-2		New Unique #:		98-5-06-001-2	
GPS coordinates:		N49-58.243' W120-41.638'		Survey-ors:		SC, PBC, DW, DM	
Location:	Harmon Lake Research Forest						
				Map#:		92H097	
Mosses %	60			Lichens %		5	
Seedling species	%	Brush species	%	Herbaceous species	%		
		Ribes lacustre	15	Linnaea borealis	30		
		Lonicera involucrata	<5	Goodyera oblongifolia	5		
		Rosa spp.	<5	Calypso bulbosa	5		
				Streptopus roseus	5		

TREE TALLY						
Tree Species	Dominant	Codominant	Intermediate	Suppressed	Regen	Snag Count
<i>Abies lasiocarpa</i>	0	0	0	0	2	0
<i>Picea glauca x engelmannii</i>	2	4	4	1	4	1
<i>Pseudotsuga menziesii</i>	4	5	0	1	10	0

LOCATION: Chattaway Road

Photo Fuel Plot # 98-5-06-001-3



Post 1



Post 2



Post 3

ECOLOGY		PLOT SUMMARY	
Aspect	northeast	Location	Chattaway Rd.
Slope (%)	5	GPS Coordinates	N50-15.101' W120-53.156'
Elevation (m)	1184	Map sheet	92I026
Fuel Type	C7	Polygon #	595/a
Bigeoclimatic Zone	IDFxh2	FOREST COVER SUMMARY	
SOILS		Primary Species	<i>Pseudotsuga menziesii</i>
LFH Layer	2.5	Secondary Species	<i>Pinus contorta</i>
Humus Form	moder	% Canopy Closure	<5
Soil Order	Brunisolic	Treatment Type	selective logged
Moisture Regime	xeric	Year of Treatment	1987
Nutrient regime	poor	TREE AND FUEL CALCULATIONS	
Texture	sandy loam	Average Tree Height (m)	22.25
% Mineral Soil Exposure	0	Average Height to Live Crown (m)	15.43
CREW LIST		Coarse Woody Debris Mass (t/ha)	5.3
SC, DW, JG, MP, MB, AS		Fine Fuel Mass (t/ha)	3.66

VEGETATION COVER				
	Brush Species	%	Herbaceous Species	%
Primary Species	<i>Arctostaphylos uva-ursi</i>	40	<i>Viola adunca</i>	10
Secondary Species	<i>Paxistima myrsinites</i>	10	<i>Agropyron repens</i>	5
Tertiary Species	<i>Spiraea betulifolia</i>	10	<i>Hieracium aurantiacum</i>	5

VEGETATION										
Past Unique #:			91-5-06-008-3		New Unique #:		98-5-06-001-3			
GPS coordinates		N 50-15.101' W120-53.156'			Surveyors:	SC, DW, JG, MP, MB, AS, TP, KR, KM, NO, SM				
Location:	6.4 km Chattaway Rd									
					Map#:		92I.026			
Mosses %		10				Lichens %		5		
Seedling species		%	Brush species		%	Herbaceous species		%		
n/a			Arctostaphylos uva-ursi		40	Viola adunca		10		
			Paxistima myrsinites		10	Agropyron repens		5		
			Spiraea betulifolia		10	Hieracium aurantiacum		5		
			Amelanchier alnifolia		<5					
			Vaccinium scoparium		5					
			Rosa nutkana		<5					
			Shepherdia canadensis		5					

TREE TALLY						
Tree Species	Dominant	Codominant	Intermediate	Suppressed	Regen	Snag Count
<i>Pseudotsuga menziesii</i>	2	1	2	0	0	0