

## APPENDIX D: ARCHIE CREEK FIRE

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### ONLINE WEB MAP

<https://experience.arcgis.com/experience/3da30bdf3b6442d09f5a4937e00245b1>





# Map of the Archie Creek Fire Study Area, Douglas County, Oregon

2025

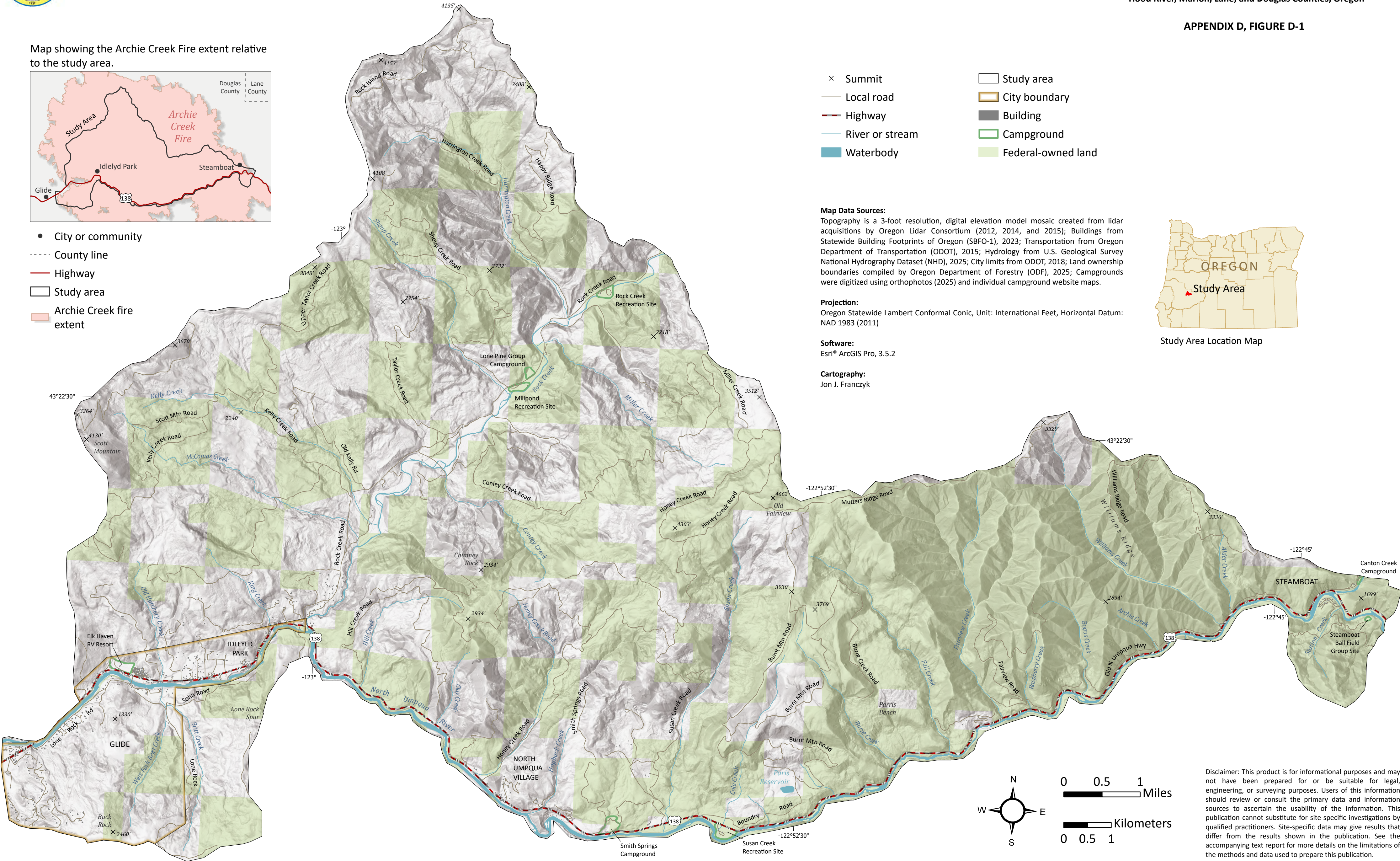
Debris Flow Hazard, Risk, and Risk Reduction in the Eagle Creek, Beachie Creek-Lionshead, Holiday Farm, and Archie Creek Fire Areas, Multnomah, Hood River, Marion, Lane, and Douglas Counties, Oregon

APPENDIX D, FIGURE D-1

Map showing the Archie Creek Fire extent relative to the study area.



- City or community
- County line
- Highway
- Study area
- Archie Creek fire extent



- × Summit
- Local road
- Highway
- River or stream
- Waterbody
- Study area
- City boundary
- Building
- Campground
- Federal-owned land

**Map Data Sources:**  
Topography is a 3-foot resolution, digital elevation model mosaic created from lidar acquisitions by Oregon Lidar Consortium (2012, 2014, and 2015); Buildings from Statewide Building Footprints of Oregon (SBFO-1), 2023; Transportation from Oregon Department of Transportation (ODOT), 2015; Hydrology from U.S. Geological Survey National Hydrography Dataset (NHD), 2025; City limits from ODOT, 2018; Land ownership boundaries compiled by Oregon Department of Forestry (ODF), 2025; Campgrounds were digitized using orthophotos (2025) and individual campground website maps.

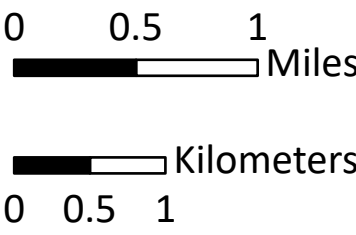
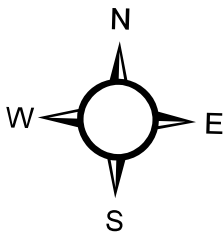
**Projection:**  
Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Datum: NAD 1983 (2011)

**Software:**  
Esri® ArcGIS Pro, 3.5.2

**Cartography:**  
Jon J. Franczyk





























Study Area Location Map



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Table D-1. Asset inventory of Archie Creek study area										
Archie Creek Study Area Asset Inventory by Land Use Categories										
—			Agricultural 	Commercial 	Educational 	Government 	Industrial 	Religious 	Residential 	Total
Douglas County, Unincorporated	Buildings		67	3	0	10	0	0	166	246
	Permanent Residents		0	0	0	0	0	0	282	282
	Value		\$8,727,360	\$1,550,820	\$0	\$2,522,850	\$0	\$0	\$46,509,637	\$59,310,667
	Critical Facilities*		0	0	0	0	0	0	0	0
Glide	Buildings		141	18	0	0	0	0	344	503
	Permanent Residents		0	0	0	0	0	0	712	712
	Value		\$16,203,240	\$6,198,108	\$0	\$0	\$0	\$0	\$96,744,778	\$119,146,126
	Critical Facilities		0	0	0	0	0	0	0	0
*Critical facilities are services essential to public health and safety, emergency response, or vital community services, e.g., hospitals, fire stations, water treatment plants										

Archie Creek Asset Inventory by Land Use Categories, Continued										
—			Agricultural 	Commercial 	Educational 	Government 	Industrial 	Religious 	Residential 	Total
Total in Archie Creek Study Area	Buildings		208	21	0	10	0	0	510	749
	Permanent Residents		0	0	0	0	0	0	994	994
	Value		\$24,930,600	\$7,748,928	\$0	\$2,522,850	\$0	\$0	\$143,254,415	\$178,456,793
	Critical Facilities		0	0	0	0	0	0	\$0	0
Archie Creek Study Area Highways and Roads										
Highways (mi)			Local Roads (mi)				Total (mi)			
22			189				211			
Archie Creek Study Area Local Campgrounds										
Elk Haven RV Park										
Lone Pine Group Campground										
Millpond Recreation Site										
Rock Creek Recreation Site										
Smith Springs Campground										
Susan Creek Campground										



Archie Creek Study Area Local Campgrounds, Continued	
Steamboat Falls Campground	
Canton Creek Campground	





# Map of Channelized Debris Flow Deposit Areas (Fans), Archie Creek Fire Study Area, Douglas County, Oregon

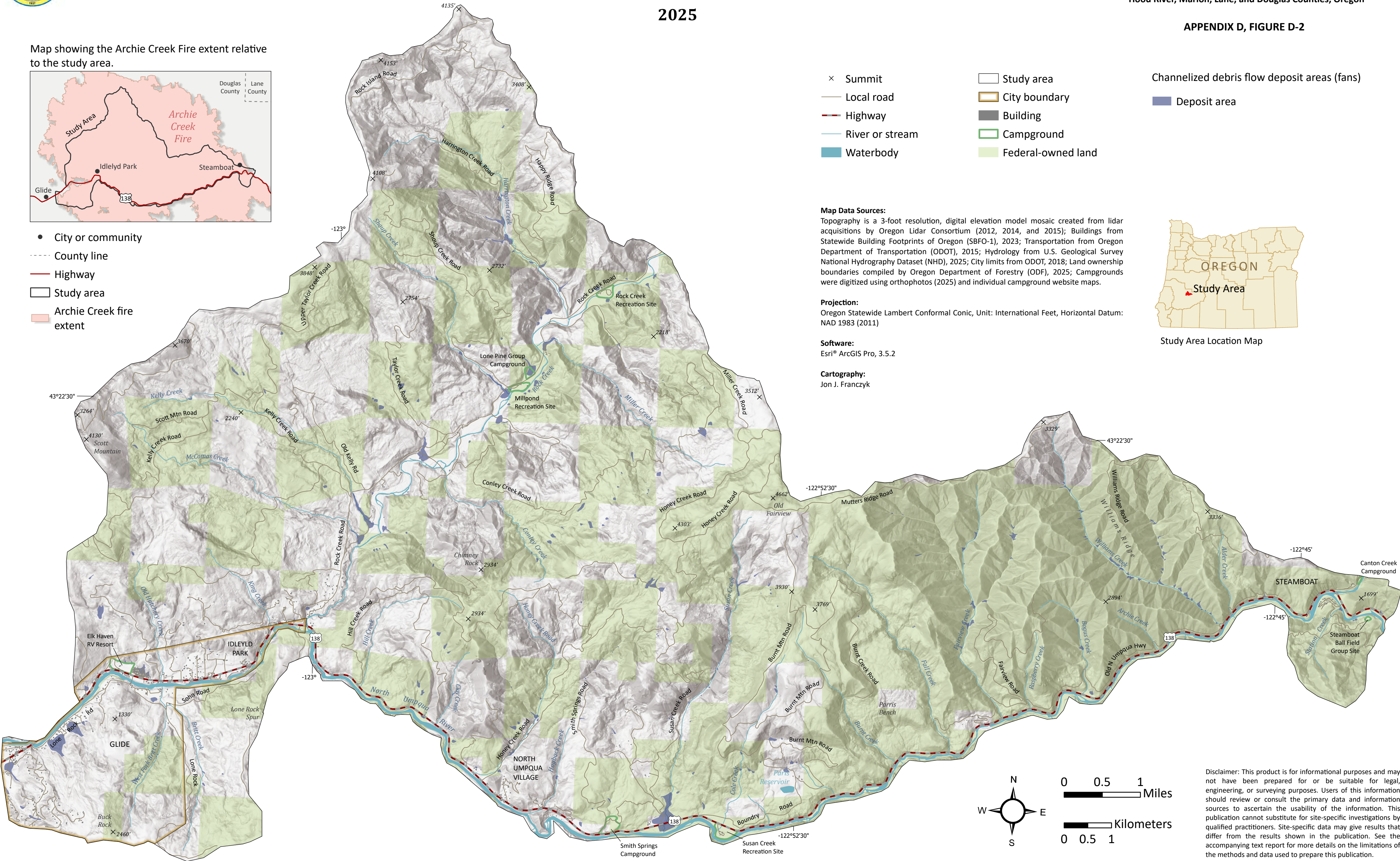
Debris Flow Hazard, Risk, and Risk Reduction in the Eagle Creek, Beachie Creek-Lionshead, Holiday Farm, and Archie Creek Fire Areas, Multnomah, Hood River, Marion, Lane, and Douglas Counties, Oregon

APPENDIX D, FIGURE D-2

Map showing the Archie Creek Fire extent relative to the study area.



- City or community
- County line
- Highway
- Study area
- Archie Creek fire extent





**Table D-2. Summary of historic channelized debris flows pre- and post-fire within and adjacent to the Archie Creek study area**

Pre-Fire Debris Flows		
Imagery Date Rate	Number of Years	Number of Debris Flow Events
pre-1995	5	36
1995-2000	5	45
2000-2005	5	20
2005-2009	5	17
2009-2014	6	21
2014-2018	5	16
<b>Total</b>	<b>31</b>	<b>155</b>
Post-Fire Lidar Change Analysis		
Lidar Date Rate	Number of Years	Number of Debris Flow Events
2020-2022	2	81
<b>Total</b>	<b>2</b>	<b>81</b>





# Map of Historic Channelized Debris Flow Events, Archie Creek Fire Study Area, Douglas County, Oregon

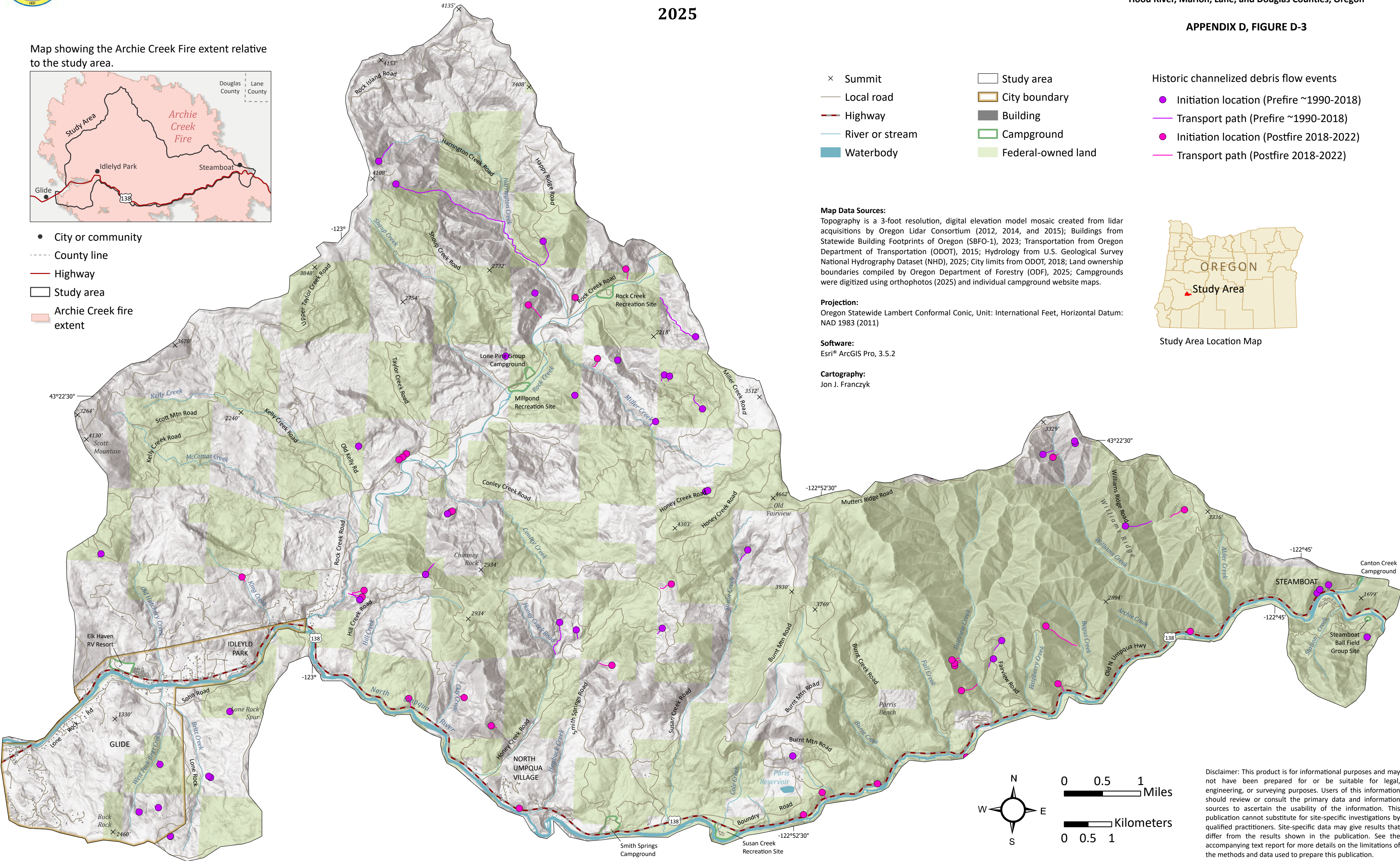
Debris Flow Hazard, Risk, and Risk Reduction in the Eagle Creek, Beachie Creek-Lionshead, Holiday Farm, and Archie Creek Fire Areas, Multnomah, Hood River, Marion, Lane, and Douglas Counties, Oregon

APPENDIX D, FIGURE D-3

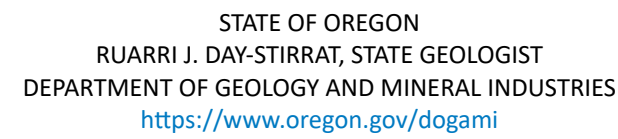
Map showing the Archie Creek Fire extent relative to the study area.



- City or community
- County line
- Highway
- Study area
- Archie Creek fire extent







2025

**Debris Flow Hazard, Risk, and Risk Reduction, Eagle Creek, Beachie Creek-Lionshead, Holiday Farm, and Archie Creek Fires, Multnomah, Hood River, Marion, Lane, and Douglas Counties, Oregon**

Map showing the Archie Creek Fire extent relative to the study area.



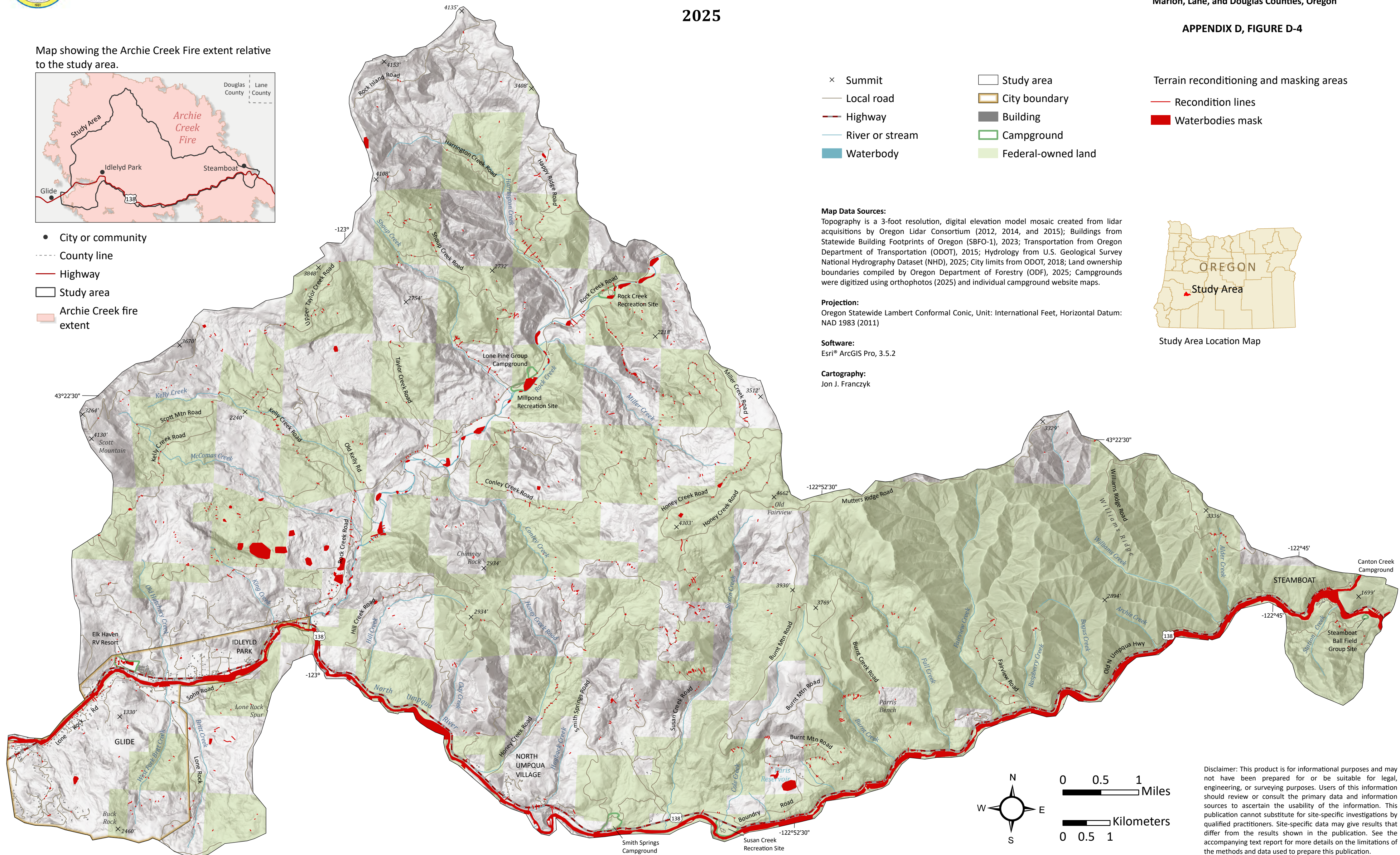
- City or community
- County line
- Highway
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- Archie Creek fire extent

- Terrain reconditioning and masking areas
- Recondition lines
  - Waterbodies mask

**Cartography:**  
Jon J. Franczyk



### Study Area Location Map



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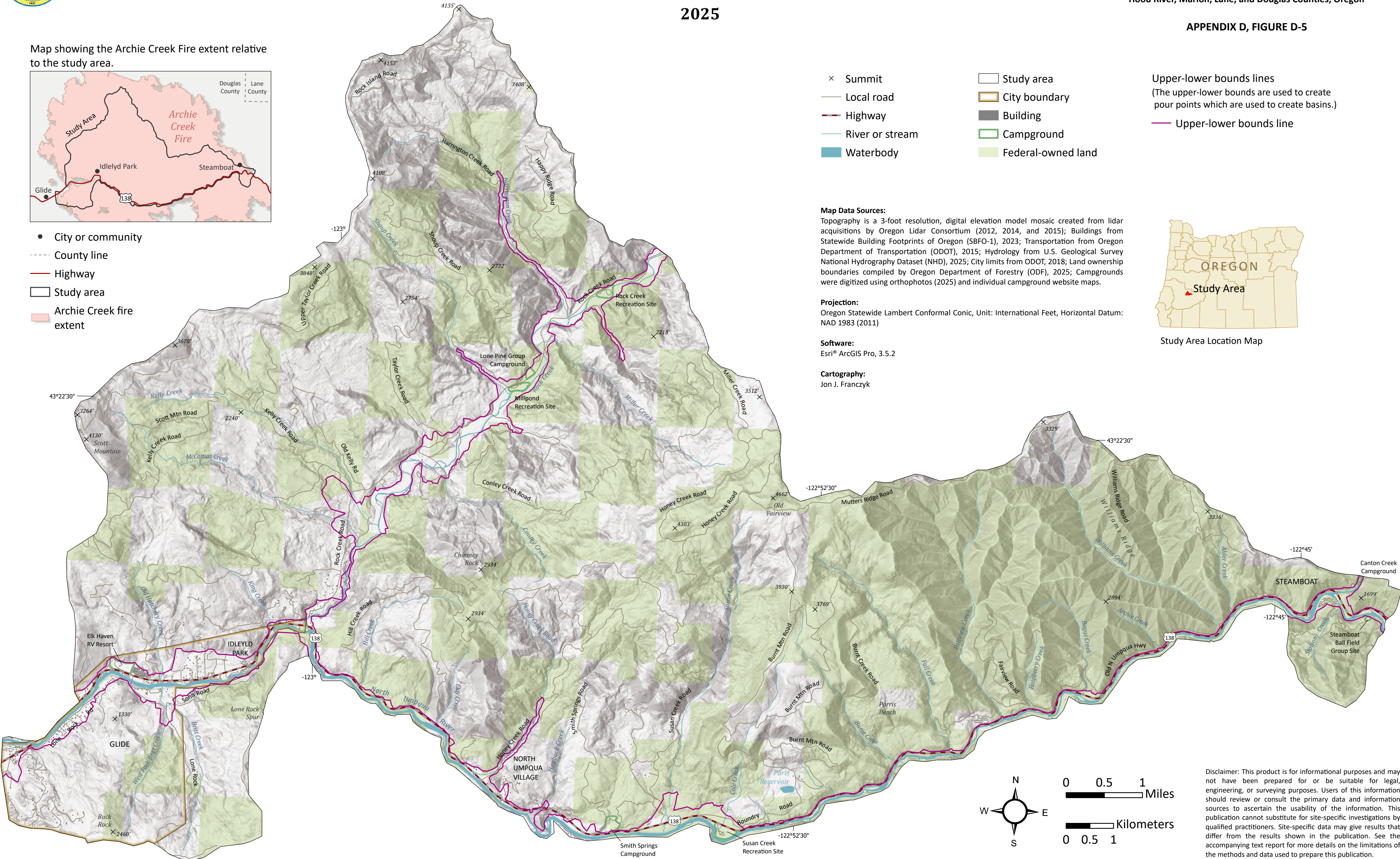
# Map of the Upper-Lower Bounds, Archie Creek Fire Study Area, Douglas County, Oregon

APPENDIX D, FIGURE D-5

Map showing the Archie Creek Fire extent relative to the study area.



- City or community
- County line
- Highway
- Study area
- Archie Creek fire extent



- × Summit
- Local road
- Highway
- River or stream
- Waterbody
- Study area
- City boundary
- Building
- Campground
- Federal-owned land

**Map Data Sources:**  
Topography is a 3-foot resolution, digital elevation model mosaic created from lidar acquisitions by Oregon Lidar Consortium (2012, 2014, and 2015); Buildings from Statewide Building Footprints of Oregon (SBFO-1), 2023; Transportation from Oregon Department of Transportation (ODOT), 2015; Hydrology from U.S. Geological Survey National Hydrography Dataset (NHD), 2025; City limits from ODOT, 2018; Land ownership boundaries compiled by Oregon Department of Forestry (ODF), 2025; Campgrounds were digitized using orthophotos (2025) and individual campground website maps.

**Projection:**  
Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Datum: NAD 1983 (2011)

**Software:**  
Esri® ArcGIS Pro, 3.5.2

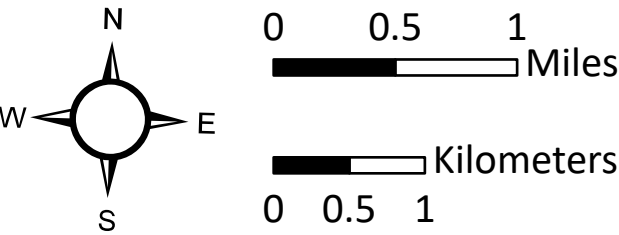
**Cartography:**  
Jon J. Franczyk

Upper-lower bounds lines  
(The upper-lower bounds are used to create pour points which are used to create basins.)

- Upper-lower bounds line



Study Area Location Map



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# Map of the Growth Factors for Modeling Inundation Susceptibility, Archie Creek Fire Study Area, Douglas County, Oregon

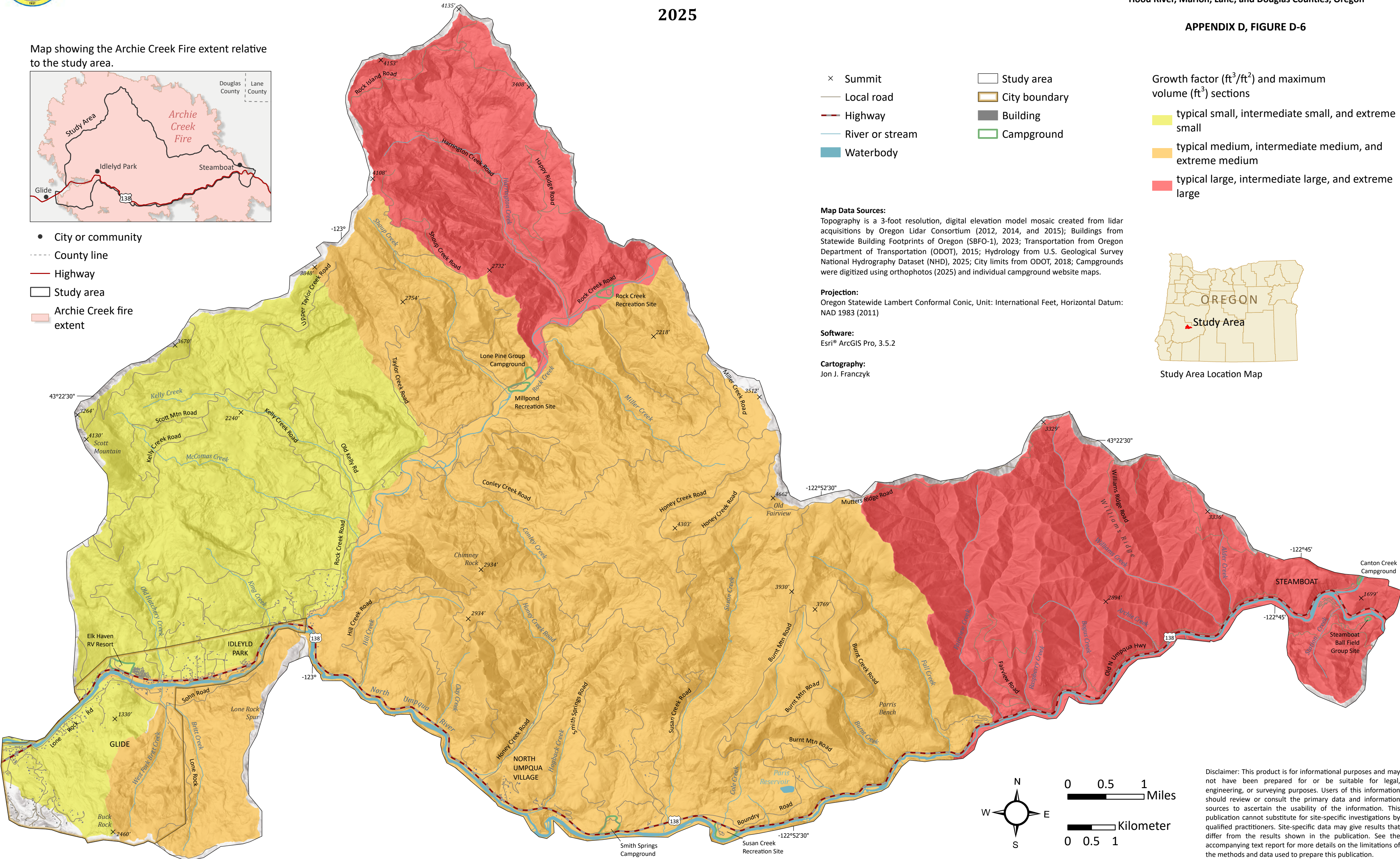
Debris Flow Hazard, Risk, and Risk Reduction in the Eagle Creek, Beachie Creek-Lionshead, Holiday Farm, and Archie Creek Fire Areas, Multnomah, Hood River, Marion, Lane, and Douglas Counties, Oregon

APPENDIX D, FIGURE D-6

Map showing the Archie Creek Fire extent relative to the study area.



- City or community
- County line
- Highway
- Study area
- Archie Creek fire extent







Map of Initiation Susceptibility, Archie Creek Fire Study Area, Douglas County, Oregon

Debris Flow Hazard, Risk, and Risk Reduction in the Eagle Creek, Beachie Creek-Lionshead, Holiday Farm, and Archie Creek Fire Areas, Multnomah, Hood River, Marion, Lane, and Douglas Counties, Oregon

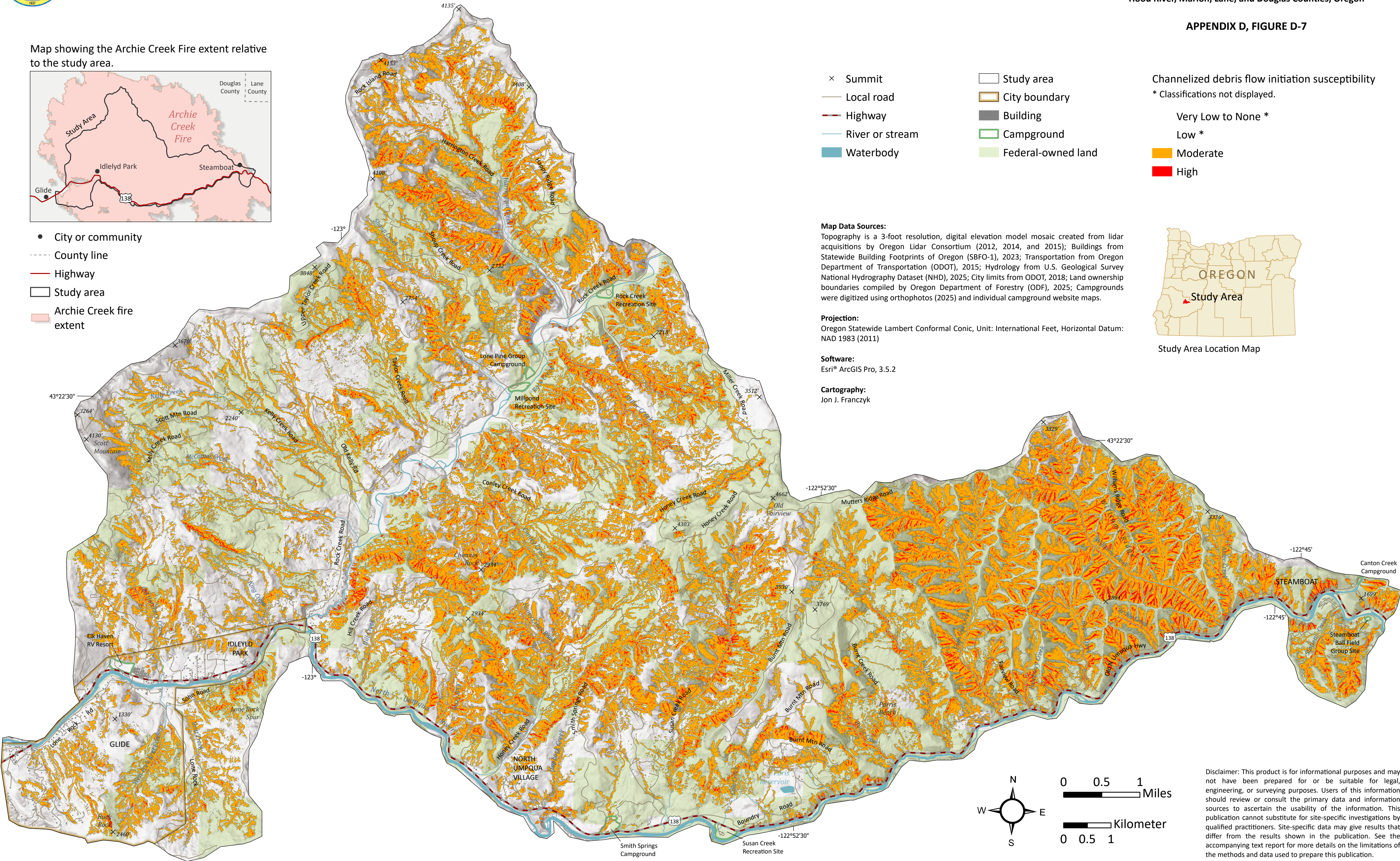
2025

APPENDIX D, FIGURE D-7

Map showing the Archie Creek Fire extent relative to the study area.



- City or community
- County line
- Highway
- Study area
- Archie Creek fire extent



Map Data Sources:

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Projection:

Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Datum: NAD 1983 (2011)

Software:

Esri® ArcGIS Pro, 3.5.2

Cartography:

Jon J. Franczyk



Study Area Location Map

Channelized debris flow initiation susceptibility

\* Classifications not displayed.

Very Low to None \*

Low \*

Moderate

High

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# Map of Transport Susceptibility, Archie Creek Fire Study Area, Douglas County, Oregon

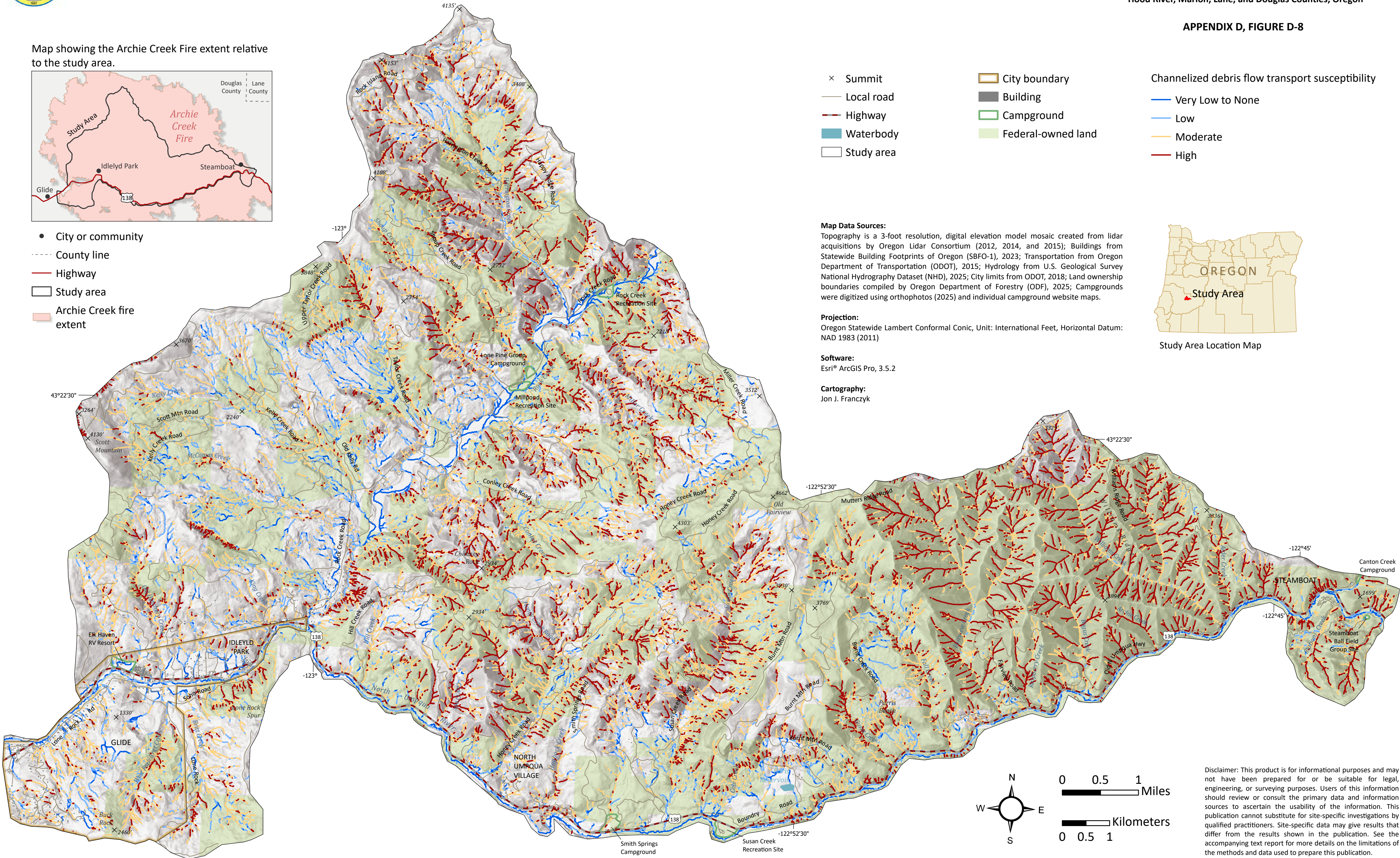
Debris Flow Hazard, Risk, and Risk Reduction in the Eagle Creek, Beachie Creek-Lionshead, Holiday Farm, and Archie Creek Fire Areas, Multnomah, Hood River, Marion, Lane, and Douglas Counties, Oregon

APPENDIX D, FIGURE D-8

Map showing the Archie Creek Fire extent relative to the study area.



- City or community
- County line
- Highway
- Study area
- Archie Creek fire extent



- × Summit
- Local road
- Highway
- Waterbody
- Study area

- City boundary
- Building
- Campground
- Federal-owned land

- Channelized debris flow transport susceptibility
- Very Low to None
  - Low
  - Moderate
  - High

**Map Data Sources:**

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**Projection:**

Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Datum: NAD 1983 (2011)

**Software:**

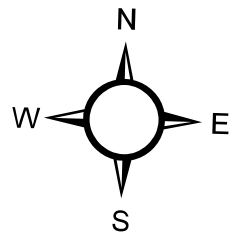
Esri® ArcGIS Pro, 3.5.2

**Cartography:**

Jon J. Franczyk



Study Area Location Map



0 0.5 1 Miles

0 0.5 1 Kilometers

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Map of Basin Susceptibility, Archie Creek Fire Study Area, Douglas County, Oregon

2025

Debris Flow Hazard, Risk, and Risk Reduction, Eagle Creek, Beachie Creek-Lionshead, Holiday Farm, and Archie Creek Fires, Multnomah, Hood River, Marion, Lane, and Douglas Counties, Oregon

APPENDIX D, FIGURE D-9

Map showing the Archie Creek Fire extent relative to the study area.



- City or community
- County line
- Highway
- Study area
- Archie Creek fire extent

- × Summit
- Local road
- Highway
- River or stream
- Waterbody
- Study area
- City boundary
- Building
- Campground

- Basins susceptibility
- \* Symbology indicates minimal susceptibility.
- Very Low to None \*
  - Low \*
  - Moderate
  - High

**Map Data Sources:**  
Topography is a 3-foot resolution, digital elevation model mosaic created from lidar acquisitions by Oregon Lidar Consortium (2012, 2014, and 2015); Buildings from Statewide Building Footprints of Oregon (SBFO-1), 2023; Transportation from Oregon Department of Transportation (ODOT), 2015; Hydrology from U.S. Geological Survey National Hydrography Dataset (NHD), 2025; City limits from ODOT, 2018; Campgrounds were digitized using orthophotos (2025) and individual campground website maps.

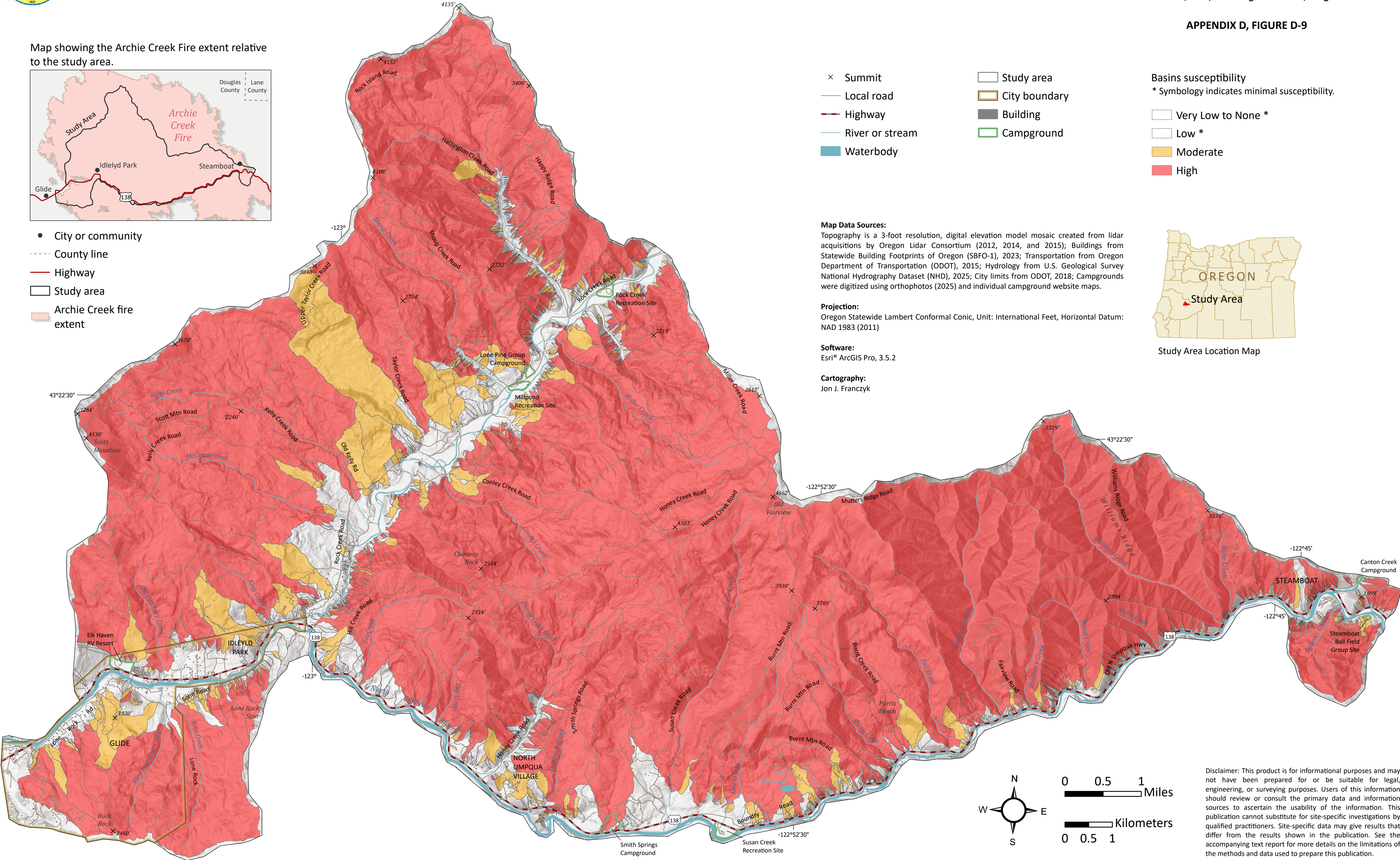
**Projection:**  
Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Datum: NAD 1983 (2011)

**Software:**  
Esri® ArcGIS Pro, 3.5.2

**Cartography:**  
Jon J. Franczyk



Study Area Location Map



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Map of Inundation Susceptibility, Archie Creek Fire Study Area, Douglas County, Oregon

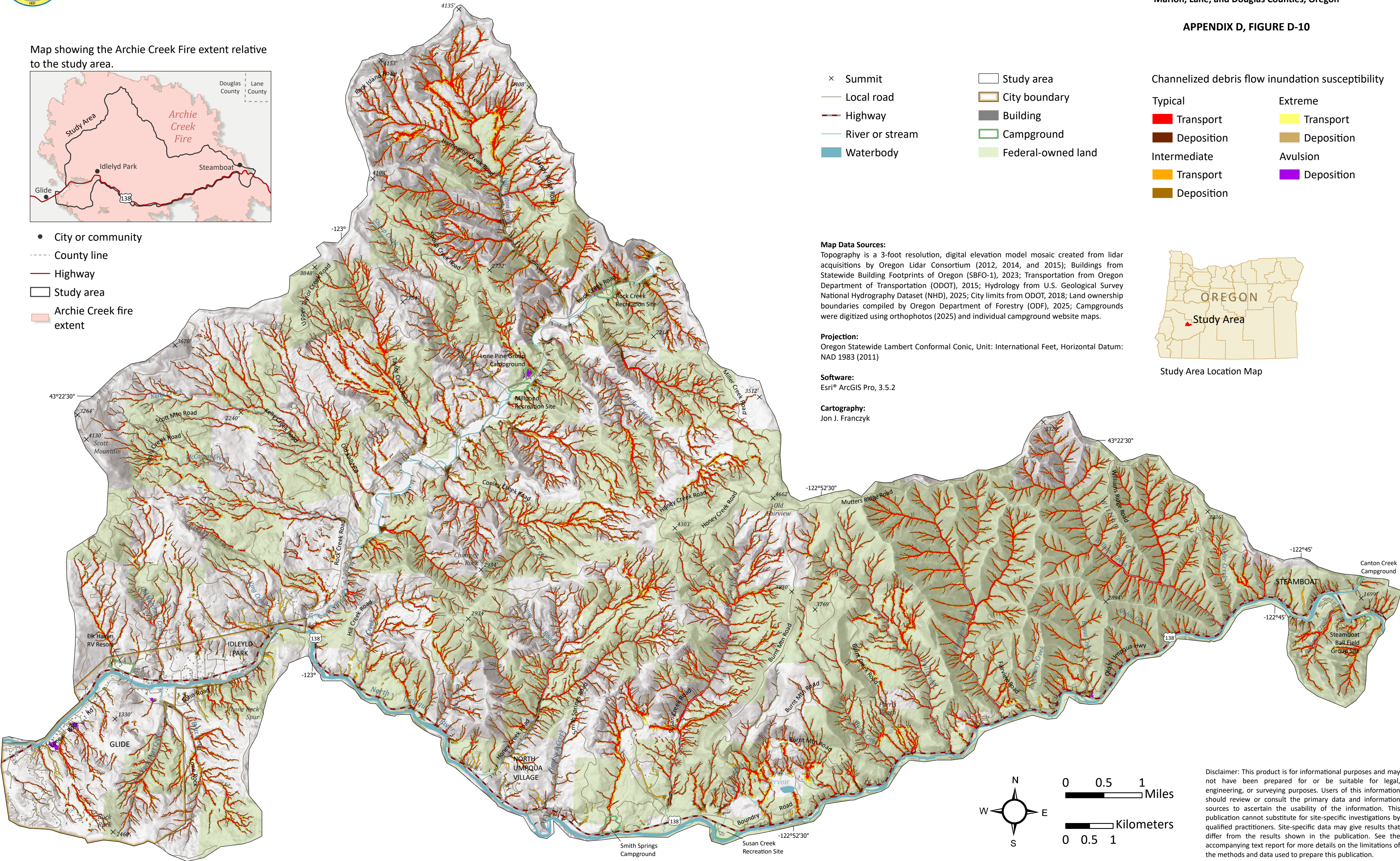
Debris Flow Hazard, Risk, and Risk Reduction, Eagle Creek, Beachie Creek-Lionshead, Holiday Farm, and Archie Creek Fires, Multnomah, Hood River, Marion, Lane, and Douglas Counties, Oregon

APPENDIX D, FIGURE D-10

Map showing the Archie Creek Fire extent relative to the study area.



- City or community
- County line
- Highway
- Study area
- Archie Creek fire extent



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**Projection:**  
Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Datum: NAD 1983 (2011)

**Software:**  
Esri® ArcGIS Pro, 3.5.2













**Cartography:**  
Jon J. Franczyk



Study Area Location Map

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Table D-3. Results of post-fire debris flow risk analysis of assets in the entire Archie Creek study area									
Risk Analysis by Land Use Categories in the Archie Creek Study Area									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk <sup>2</sup>	Percent of Total Assets at Risk
Agricultural 	Buildings 		9	22	29	2	7	34	16.3%
	Value 		\$1,151,400	\$3,818,520	\$4,511,520	\$297,840	\$1,137,840	\$5,351,520	21.5%
	Critical Facilities <sup>1</sup> 		0	0	0	0	0	0	0%
Commercial 	Buildings 		0	0	2	0	0	2	9.5%
	Value 		\$0	\$0	\$767,620	\$0	\$0	\$767,620	10.0%
	Critical Facilities 		0	0	0	0	0	0	0%
Educational 	Buildings 		0	0	0	0	0	0	0%
	Value 		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities 		0	0	0	0	0	0	0%












<sup>1</sup>Critical facilities are services essential to public health and safety, emergency response, or vital community services, e.g., hospitals, fire stations, water treatment plants.

<sup>2</sup> Indicates the number of respective assets affected by any combination of risk types, e.g., a building may be at risk of typical and intermediate inundation as well as avulsion. For further explanation, see Section 3 of the report.

Risk Analysis by Land Use Categories in the Archie Creek Study Area, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
<div>Government</div> <div></div>	Buildings		1	1	1	0	0	1	10.0%
	Value		\$142,200	\$142,200	\$142,200	\$0	\$0	\$142,200	5.6%
	Critical Facilities		0	0	0	0	0	0	0%
<div>Industrial</div> <div></div>	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
<div>Religious</div> <div></div>	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%













Risk Analysis by Land Use Categories in the Archie Creek Study Area, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Residential 	Buildings		35	63	86	6	49	120	23.5%
	Permanent Residents		63	117	164	17	76	214	21.5%
	Value		\$8,467,706	\$16,932,939	\$23,844,410	\$2,451,062	\$7,575,736	\$28,577,685	19.5%
	Critical Facilities		0	0	0	0	0	0	0%
Total Impacted Structures	Buildings		45	86	118	8	56	157	21.0%
	Permanent Residents		63	117	164	17	76	214	21.5%
	Value		\$9,761,306	\$20,893,659	\$29,265,750	\$2,748,902	\$8,713,576	\$34,839,025	19.5%
	Critical Facilities		0	0	0	0	0	0	0%





Risk Analysis by Road Type in the Archie Creek Study Area							
—	Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Highways (mi)	4.4	7.5	9.1	0.1	0.3	9.5	30.2
Local Roads (mi)	32.5	45.0	55.1	0.7	3.7	57.0	43.3
Total Impacted Miles	37.0	52.6	64.2	0.8	4.0	66.4	31.5
Risk Analysis at Local Campgrounds in the Archie Creek Study Area							
Elk Haven RV Park	✓	✓	✓	—	✓	—	—
Lone Pine Group Campground	✓	✓	✓	✓	✓	—	—
Millpond Recreation Site	—	—	—	—	✓	—	—
Rock Creek Recreation Site	✓	✓	✓	✓	—	—	—
Smith Springs Campground	✓	✓	✓	—	—	—	—
Susan Creek Campground	—	—	—	—	—	—	—











Steamboat Falls Campground	✓	✓	✓	—	—	—	—
Canton Creek Campground	—	—	—	—	—	—	—
Total Impacted Campgrounds	5	5	5	2	3	6	75.0%

Risk Analysis by Land Use Categories in Douglas County Unincorporated Communities									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk <sup>2</sup>	Percent of Total Assets at Risk
Agricultural 	Buildings		5	12	14	0	4	18	26.9%
	Value		\$698,520	\$2,677,560	\$2,915,160	\$0	\$803,640	\$3,718,800	42.6%
	Critical Facilities		0	0	0	0	0	0	0%
Commercial 	Buildings		0	0	2	0	0	2	66.7%
	Value		\$0	\$0	\$767,620	\$0	\$0	\$767,620	49.5%
	Critical Facilities		0	0	0	0	0	0	0%
Educational 	Buildings		0	0	0	0	0	0	0%










	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%


Risk Analysis by Land Use Categories in Douglas County Unincorporated Communities, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Government 	Buildings		1	1	1	0	0	1	10.0%
	Value		\$142,200	\$142,200	\$142,200	\$0	\$0	\$142,200	5.6%
	Critical Facilities		0	0	0	0	0	0	0%
Industrial 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%











Religious 	Buildings 	0	0	0	0	0	0	0%
	Value 	\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities 	0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Douglas County Unincorporated Communities, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Residential 	Buildings		21	42	50	0	2	51	30.7%
	Permanent Residents		37	73	81	0	3	82	29.2%
	Value		\$5,288,080	\$11,264,238	\$12,940,794	\$0	\$466,896	\$13,172,538	28.3%
	Critical Facilities		0	0	0	0	0	0	0%
Total Impacted Structures	Buildings		27	55	67	0	6	72	29.3%
	Permanent Residents		37	73	81	0	3	82	29.2%










	Value		\$6,128,800	\$14,083,998	\$16,765,774	\$0	\$1,270,536	\$17,801,158	30.0%
	Critical Facilities		0	0	0	0	0	0	0%






Risk Analysis by Land Use Categories in Glide									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk <sup>2</sup>	Percent of Total Assets at Risk
Agricultural 	Buildings		4	10	15	2	3	16	11.3%
	Value		\$452,880	\$1,140,960	\$1,596,360	\$297,840	\$334,200	\$1,632,720	10.1%
	Critical Facilities		0	0	0	0	0	0	0%
Commercial 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%








<div>Educational</div> <div></div>	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%





Risk Analysis by Land Use Categories in Glide, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Government 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
Industrial 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%









<div>Religious</div> <div></div>	Critical Facilities		0	0	0	0	0	0	0%
	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%







Risk Analysis by Land Use Categories in Glide, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Residential 	Buildings 	14	21	36	6	47	69	20.1%	
	Permanent Residents 	26	44	83	17	72	132	18.5%	
	Value 	\$3,179,626	\$5,668,701	\$10,903,616	\$2,451,062	\$7,108,840	\$15,405,147	15.9%	
	Critical Facilities 	0	0	0	0	0	0	0%	







Total Impacted Structures	Buildings		18	31	51	8	50	85	16.9%
	Permanent Residents		26	44	83	17	72	132	18.5%
	Value		\$3,632,506	\$6,809,661	\$12,499,976	\$2,748,902	\$7,443,040	\$17,037,867	14.3%
	Critical Facilities		0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Gates									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk <sup>2</sup>	Percent of Total Assets at Risk
Agricultural 	Buildings 	0	0	0	0	41	41	36.6%	
	Value 	\$0	\$0	\$0	\$0	\$6,679,560	\$6,679,560	37.2%	
	Critical Facilities 	0	0	0	0	0	0	0%	
Commercial 	Buildings 	0	0	0	0	1	1	25.0%	







	Value		\$0	\$0	\$0	\$0	\$1,185,621	\$1,185,621	43.2%
	Critical Facilities		0	0	0	0	0	0	0%
Educational 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Gates, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Government 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%







Industrial 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
Religious 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Gates, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Residential 	Buildings 		0	1	4	0	70	70	33.8%
	Permanent Residents 		0	3	10	0	135	135	31.5%
	Value 		\$0	\$450,424	\$1,327,456	\$0	\$14,298,992	\$14,298,992	27.0%






	Critical Facilities		0	0	0	0	0	0	0%
Total Impacted Structures	Buildings		0	1	4	0	112	112	34.3%
	Permanent Residents		0	3	10	0	135	135	31.3%
	Value		\$0	\$450,424	\$1,327,456	\$0	\$22,164,173	\$22,164,173	29.5%
	Critical Facilities		0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Idanha									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk <sup>2</sup>	Percent of Total Assets at Risk
Agricultural 	Buildings 		1	4	10	2	8	16	34.8%
	Value 		\$18,000	\$323,280	\$1,286,520	\$187,200	\$1,109,160	\$2,345,400	39.1%
	Critical Facilities 		0	0	0	0	0	0	0%






Commercial 	Buildings		0	0	1	0	0	1	7.1%
	Value		\$0	\$0	\$3,028,320	\$0	\$0	\$3,028,320	33.1%
	Critical Facilities		0	0	0	0	0	0	0%
Educational 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Idanha, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Government 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%





<div>Industrial</div> <div></div>	Critical Facilities		0	0	0	0	0	0	0%
	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
<div>Religious</div> <div></div>	Critical Facilities		0	0	0	0	0	0	0%
	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Idanha, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Residential 	Buildings 		3	10	22	12	13	31	33.0%
	Permanent Residents 		5	14	34	20	23	50	32.4%





	Value		\$434,892	\$1,573,083	\$4,169,927	\$2,312,539	\$2,796,043	\$6,107,780	30.8%
	Critical Facilities		0	0	0	0	0	0	0%
Total Impacted Structures	Buildings		4	14	33	14	21	48	30.2%
	Permanent Residents		5	14	34	20	23	50	32.4%
	Value		\$452,892	\$1,896,363	\$8,484,767	\$2,499,739	\$3,905,203	\$11,481,500	31.5%
	Critical Facilities		0	0	0	0	0	0	0%






Risk Analysis by Land Use Categories in Lyons								
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk <sup>2</sup>
Agricultural	Buildings		0	0	0	0	0	0
	Value		\$0	\$0	\$0	\$0	\$0	\$0





<div>Commercial</div> <div></div>	Critical Facilities <sup>1</sup> <div></div>	0	0	0	0	0	0	0%
	Buildings <div></div>	0	0	0	0	0	0	0%
	Value <div></div>	\$0	\$0	\$0	\$0	\$0	\$0	0%
<div>Educational</div> <div></div>	Critical Facilities <div></div>	0	0	0	0	0	0	0%
	Buildings <div></div>	0	0	0	0	0	0	0%
	Value <div></div>	\$0	\$0	\$0	\$0	\$0	\$0	0%

Risk Analysis by Land Use Categories in Lyons, Continued								
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk
<div>Govern ment</div> <div></div>	Buildings <div></div>	0	0	0	0	0	0	0%





	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
Industrial 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
Religious 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%








Risk Analysis by Land Use Categories in Lyons, Continued									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Residential 	Buildings		0	0	0	0	0	0	0%



	Permanent Residents		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
Total Impacted Structures	Buildings		0	0	0	0	0	0	0%
	Permanent Residents		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Mehama									
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk <sup>2</sup>	Percent of Total Assets at Risk
Agricultural 	Buildings 		0	0	0	0	3	3	5.6%



	Value		\$0	\$0	\$0	\$0	\$528,960	\$528,960	5.2%
	Critical Facilities <sup>1</sup>		0	0	0	0	0	0	0%
Commercial 	Buildings		0	0	0	0	3	3	23.1%
	Value		\$0	\$0	\$0	\$0	\$1,407,173	\$1,407,173	17.9%
	Critical Facilities		0	0	0	0	0	0	0%
Educational 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%










Risk Analysis by Land Use Categories in Mehama, Continued							
—	Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk



Government 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
Industrial 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
Religious 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Mehama, Continued								
—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk
								Percent of Total Assets at Risk



Residential 	Buildings		0	0	0	0	14	14	13.0%
	Permanent Residents		0	0	0	0	35	35	16.9%
	Value		\$0	\$0	\$0	\$0	\$5,047,322	\$5,047,322	18.5%
	Critical Facilities		0	0	0	0	0	0	0%
Total Impacted Structures	Buildings		0	0	0	0	20	20	11.0%
	Permanent Residents		0	0	0	0	35	35	16.9%
	Value		\$0	\$0	\$0	\$0	\$6,983,455	\$6,983,455	14.0%
	Critical Facilities		0	0	0	0	0	0	0%












Risk Analysis by Land Use Categories in Mill City							
—	Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk <sup>2</sup>	Percent of Total Assets at Risk



Agricultural 	Buildings 	0	3	5	0	6	9	2.6%
	Value 	\$0	\$399,360	\$563,400	\$0	\$672,600	\$904,080	4.1%
	Critical Facilities <sup>1</sup> 	0	0	0	0	0	0	0%
Commercial 	Buildings 	0	0	1	0	4	4	14.8%
	Value 	\$0	\$0	\$235,410	\$0	\$1,143,767	\$1,143,767	9.8%
	Critical Facilities 	0	0	0	0	0	0	0%
Educational 	Buildings 	0	0	0	0	0	0	0%
	Value 	\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities 	0	0	0	0	0	0	0%










Risk Analysis by Land Use Categories in Mill City, Continued



—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Government 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
Industrial 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%
Religious 	Buildings		0	0	0	0	0	0	0%
	Value		\$0	\$0	\$0	\$0	\$0	\$0	0%
	Critical Facilities		0	0	0	0	0	0	0%

Risk Analysis by Land Use Categories in Mill City, Continued



—			Typical Inundation	Intermediate Inundation	Extreme Inundation	Avulsion	Fan Deposit	Number of Assets at Risk	Percent of Total Assets at Risk
Residential 	Buildings		0	6	16	0	32	39	4.3%
	Permanent Residents		0	14	35	0	69	79	4.3%
	Value		\$0	\$1,637,423	\$4,636,179	\$0	\$8,774,900	\$10,283,082	4.1%
	Critical Facilities		0	0	0	0	0	0	0%
Total Impacted Structures	Buildings		0	9	22	0	42	52	4.0%
	Permanent Residents		0	14	35	0	69	79	4.3%
	Value		\$0	\$2,036,783	\$5,434,989	\$0	\$10,591,267	\$12,330,929	3.8%
	Critical Facilities		0	0	0	0	0	0	0%