Report: Landscape Fire Behavior
Landfire Version: LANDFIRE 2014
Landscape Name: homestead_clearcut_broadcastburn_2 5yrs
Landscape Acres: 62,956
Area of Interest: homestead_pa_072419 (2)

Prepared for: Dawn Griffith
11/18/2019, 3:20:11 PM

Model Parameters

Run Name: homestead_clearcut_broadcstburn_2-5yrs

Model Type: Landscape Fire Behavior

Run Date: Nov 18, 2019 6:07:09 PM

Wind Type: Gridded Winds

Wind Speed: 20 mph

Wind Direction: 270 deg

Crown Fire Method: Scott/Reinhardt

Foliar Moisture: 100

Conditioning: Off - Initial fuel moisture used

Conditioning start: , NaN/NaN/NaN

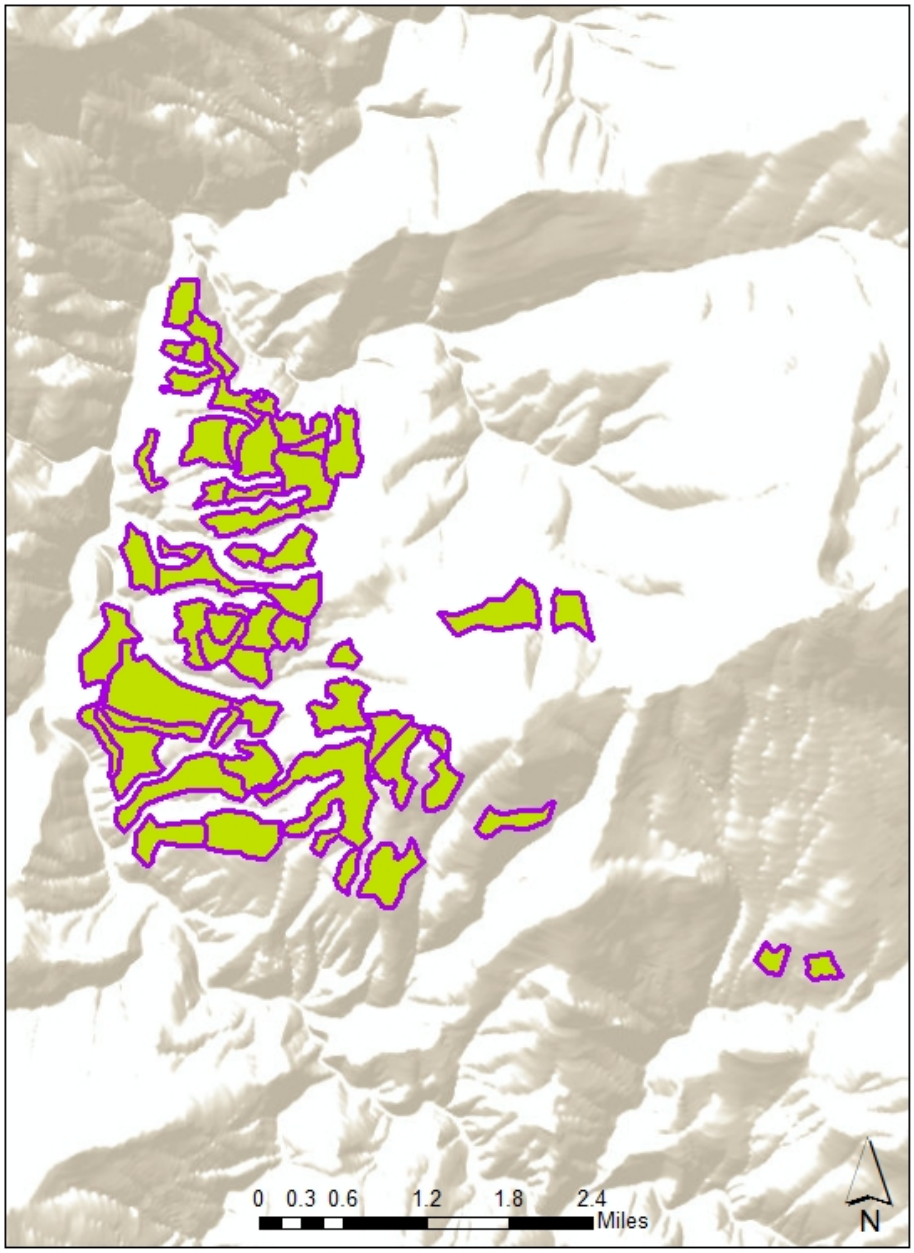
Days conditioned:

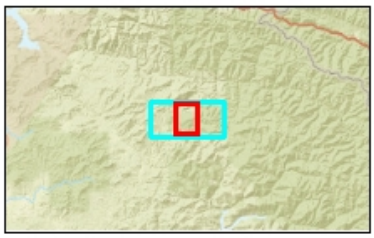
Conditioning start:

Conditioning end:

Fuel Model	1 Hr Fuel Moisture	10 Hr Fuel Moisture	100 Hr Fuel Moisture	Live Herbaceous Fuel Moisture	Live Woody Fuel Moisture
All	4	4	6	48	75

Flame Length





Legend

Unbuffered Extent
Non-burnable
Area of Interest

Flame Length (ft)

- >25
- >11 - 25
- >8 - 11
- >4 - 8
- >1 - 4
- >0 -1

Interagency Fuel Treatment
Decision Support System

Landscape Fire Behavior Summary
Flame Length

Analysis Details:

Date: 11/18/2019
LANDFIRE Version: LANDFIRE 2014
IFTDSS Username: dmgriffith
LCP Name: homestead clearcut broadcastburn 2-5yrs

Model Inputs:

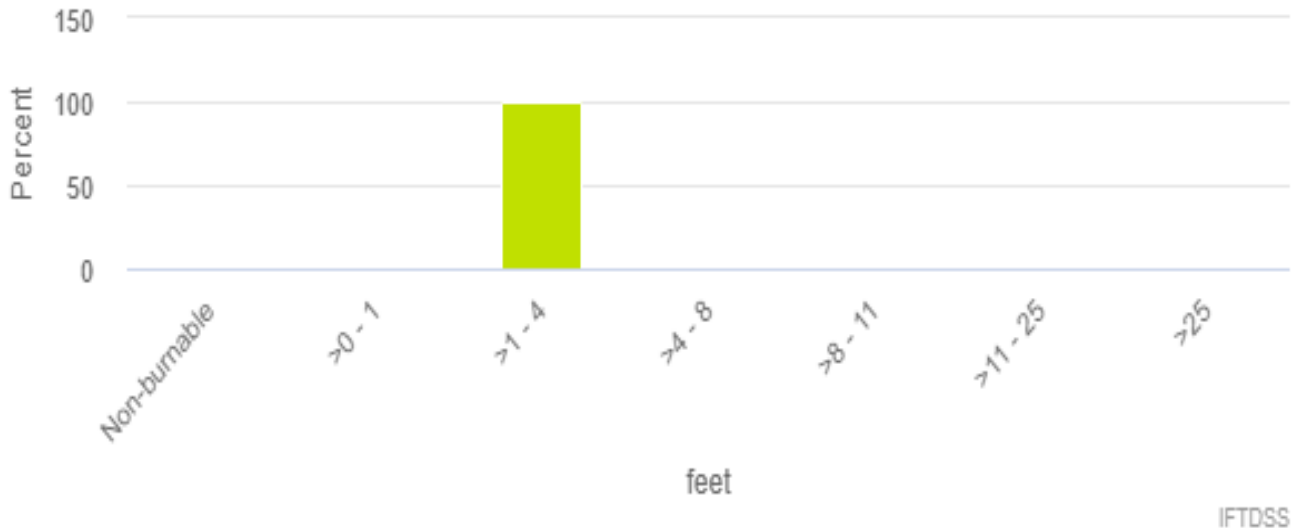
Wind Type: Gridded Winds
Wind Speed: 20
Wind Direction: 270
Crown Fire Method: Scott/Reinhardt
Foliar Moisture: 100
Weather Station Used: Not Available
Initial Fuel Moisture:
- 1 hr FM: 4
- 10 hr FM: 4
- 100 hr FM: 6
- Herb FM: 48
- Woody FM: 75

Conditioning Type: Off
Initial fuel moisture used

Flame Length

Flame Length (feet) Data Summary for Area of Interest "homestead_pa_072419 (2)" within "homestead_clearcut_broadcastburn_2-5yrs" Landscape

Source Landscape Name: homestead_clearcut_broadcastburn_2-5yrs
Landfire Version: LANDFIRE 2014
Source Landscape Acres: 62,956
Area of Interest Name: homestead_pa_072419 (2)
Area of Interest Acres: 1,239
Model Name: homestead_clearcut_broadcstburn_2-5yrs



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Landfire Version: LANDFIRE 2014
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Area of Interest Name: homestead_pa_072419 (2)
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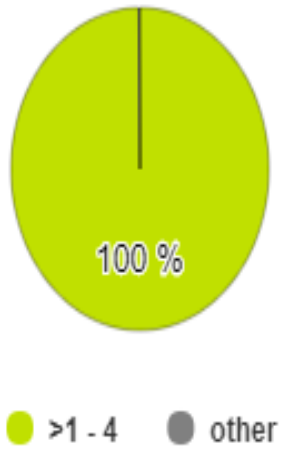
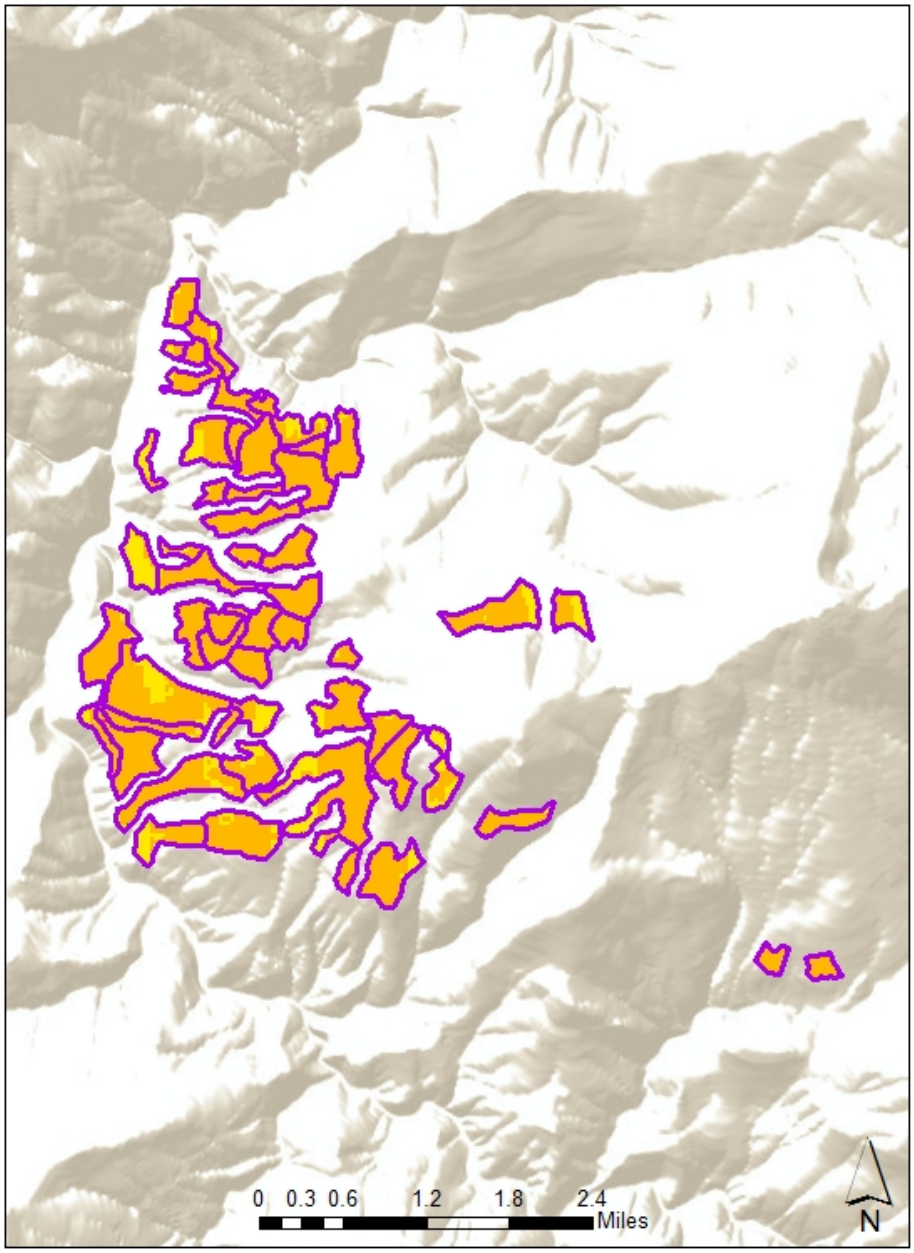


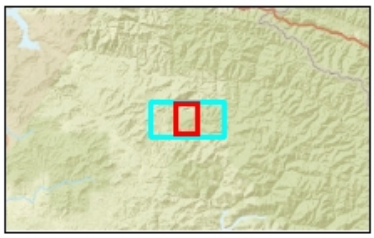
IFTDSS

Flame Length

Flame Length (feet)	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	0	0	0
>0 - 1	0	0	0
>1 - 4	5564	1237	100
>4 - 8	8	2	0
>8 - 11	0	0	0
>11 - 25	0	0	0
>25	0	0	0

Spread Rate





Legend

- Unbuffered Extent
- Area of Interest

Rate of Spread (chains/hr)

- >150
- >50 - 150
- >20 - 50
- >5 - 20
- >2 - 5
- >0 - 2
- Non-burnable

Interagency Fuel Treatment
Decision Support System

Landscape Fire Behavior Summary
Rate of Spread

Analysis Details:

Date: 11/18/2019
LANDFIRE Version: LANDFIRE 2014
IFTDSS Username: dmgriffith
LCP Name: homestead clearcut broadcastburn 2-5yrs

Model Inputs:

Wind Type: Gridded Winds
Wind Speed: 20
Wind Direction: 270
Crown Fire Method: Scott/Reinhardt
Foliar Moisture: 100
Weather Station Used: Not Available
Initial Fuel Moisture:
- 1 hr FM: 4
- 10 hr FM: 4
- 100 hr FM: 6
- Herb FM: 48
- Woody FM: 75

Conditioning Type: Off
Initial fuel moisture used

Spread Rate

Rate of Spread (chains/hr) Data Summary for Area of Interest "homestead_pa_072419 (2)" within "homestead_clearcut_broadcastburn_2-5yrs" Landscape

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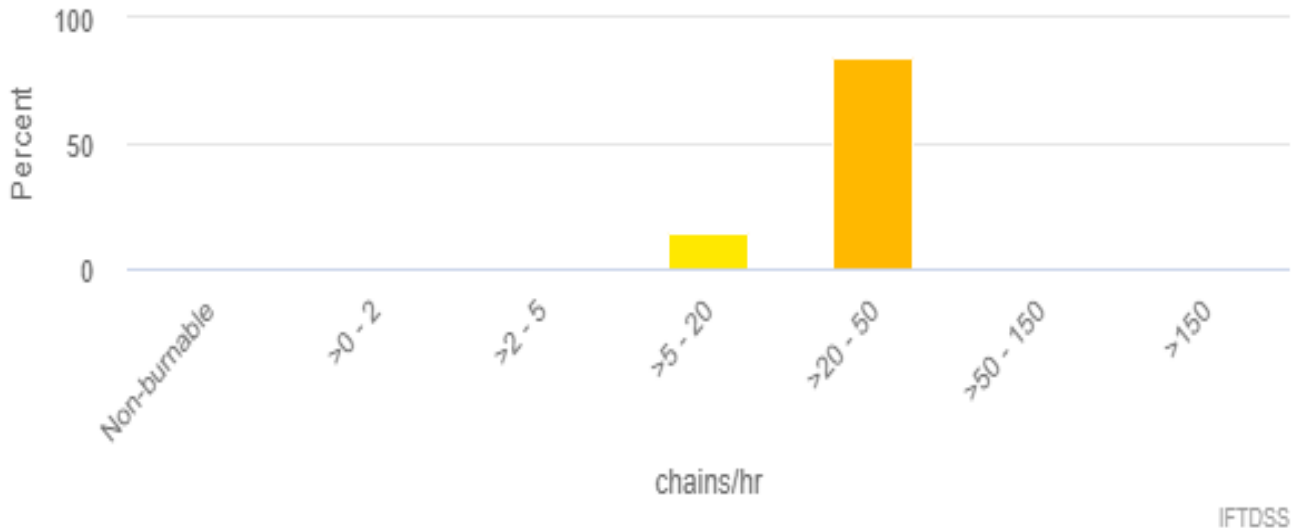
Area of Interest Acres: 1,239
Model Name: homestead_clearcut_broadcstburn_2-5yrs



Spread Rate

Rate of Spread (chains/hr) Data Summary for Area of Interest "homestead_pa_072419 (2)" within "homestead_clearcut_broadcastburn_2-5yrs" Landscape

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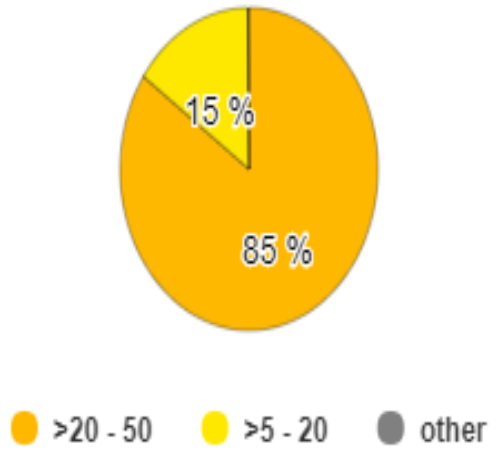
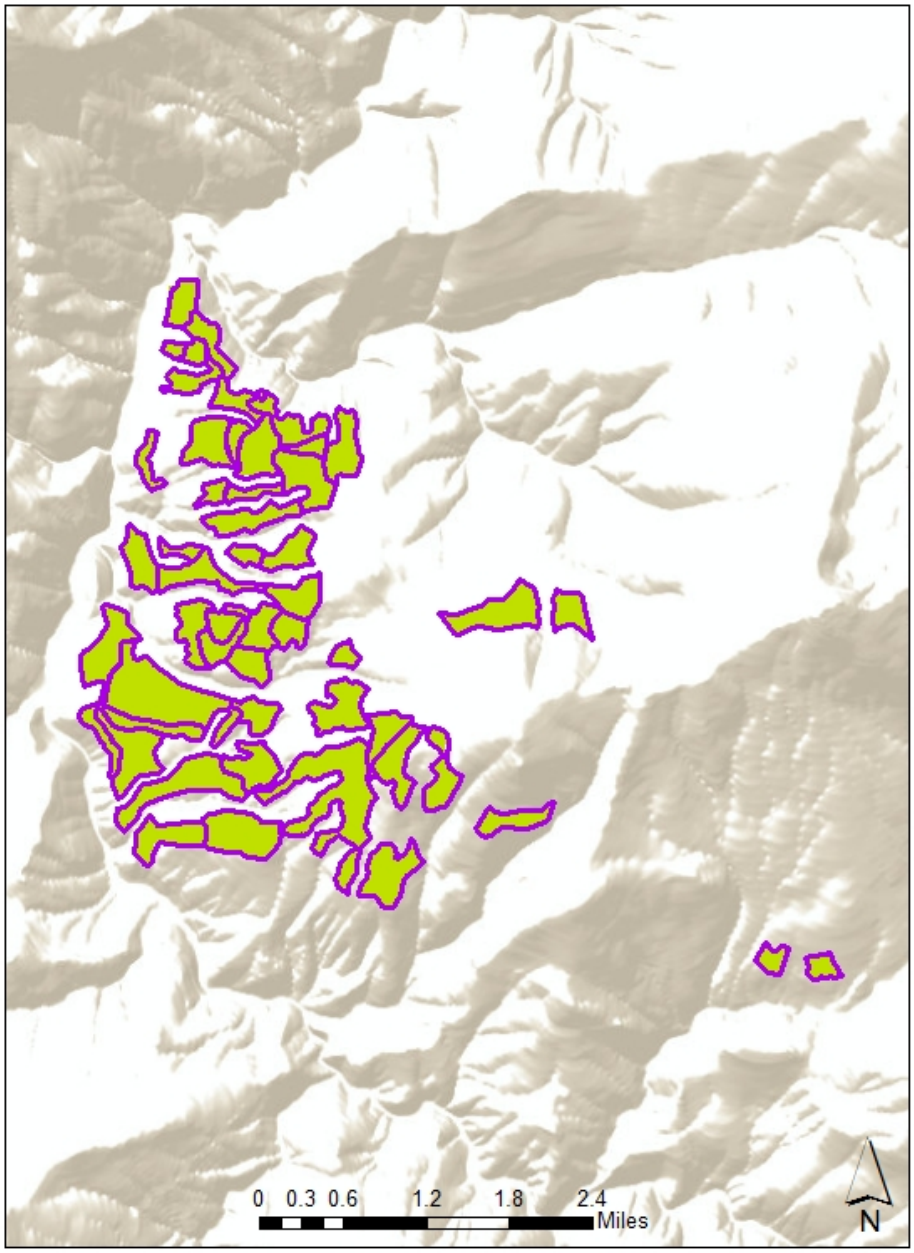


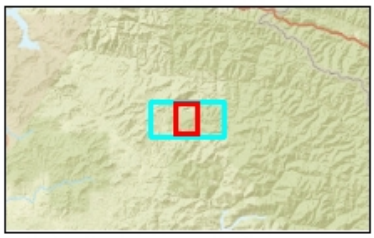
IFTDSS

Spread Rate

Rate of Spread (chains/hr)	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	0	0	0
>0 - 2	0	0	0
>2 - 5	0	0	0
>5 - 20	842	187	15
>20 - 50	4722	1050	85
>50 - 150	8	2	0
>150	0	0	0

Intensity





Legend

- Unbuffered Extent
- Area of Interest

Fireline Intensity (BTU/ft-sec)

- >6,175
- >1,000 - 6,175
- >500 -1,000
- >100 - 500
- >5 - 100
- >0 - 5
- Non-burnable

Interagency Fuel Treatment

Decision Support System

Landscape Fire Behavior Summary

Fireline Intensity

Analysis Details:

Date: 11/18/2019
LANDFIRE Version: LANDFIRE 2014
IFTDSS Username: dmgriffith
LCP Name: homestead clearcut broadcastburn 2-5yrs

Model Inputs:

Wind Type: Gridded Winds
Wind Speed: 20
Wind Direction: 270
Crown Fire Method: Scott/Reinhardt
Foliar Moisture: 100
Weather Station Used: Not Available
Initial Fuel Moisture:
- 1 hr FM: 4
- 10 hr FM: 4
- 100 hr FM: 6
- Herb FM: 48
- Woody FM: 75

Conditioning Type: Off
Initial fuel moisture used

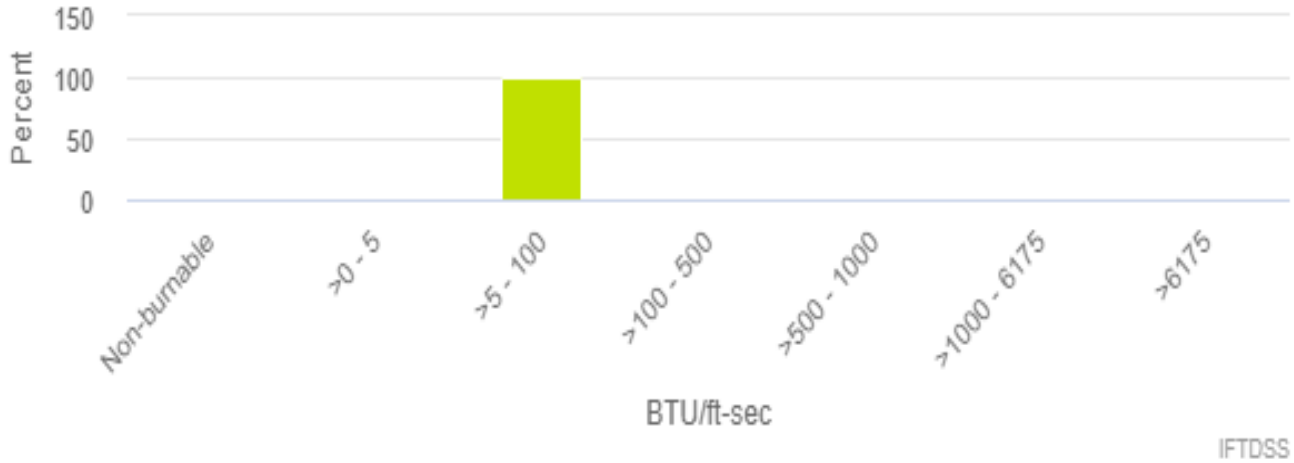
Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community
Sources: Esri, USGS, NOAA

IFTDSS

Intensity

Fireline Intensity (BTU/ft-sec) Data Summary for Area of Interest "homestead_pa_072419 (2)" within "homestead_clearcut_broadcastburn_2-5yrs" Landscape

Source Landscape Name: homestead_clearcut_broadcastburn_2-5yrs
Landfire Version: LANDFIRE 2014
Source Landscape Acres: 62,956
Area of Interest Name: homestead_pa_072419 (2)
Area of Interest Acres: 1,239
Model Name: homestead_clearcut_broadcstburn_2-5yrs



Intensity

Fireline Intensity (BTU/ft-sec) Data Summary for Area of Interest "homestead_pa_072419 (2)" within "homestead_clearcut_broadcastburn_2-5yrs" Landscape

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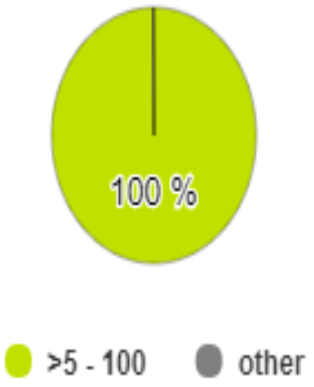
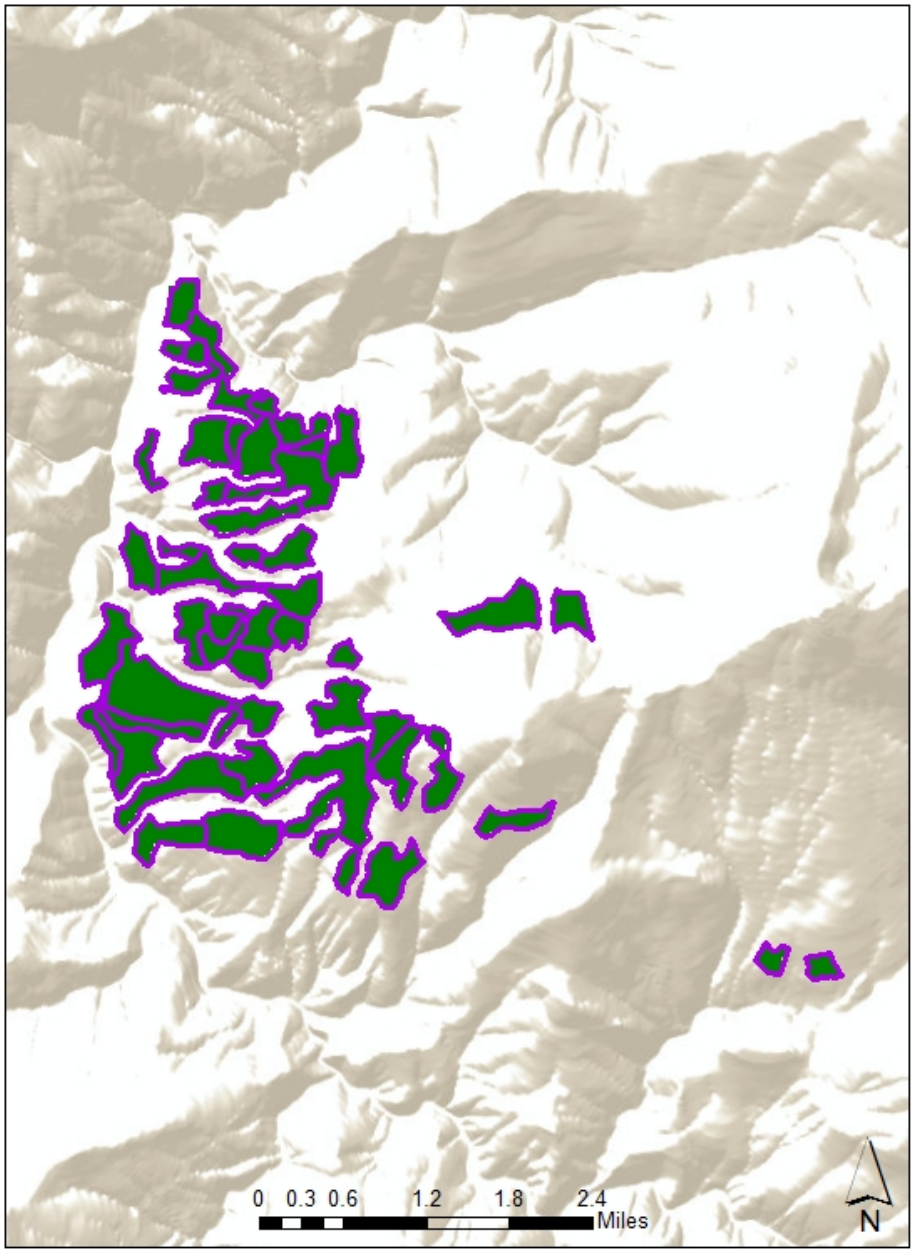


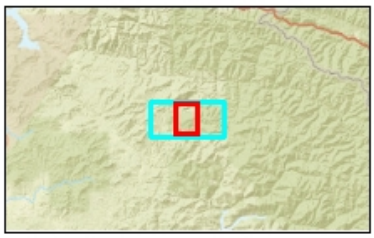
IFTDSS

Intensity

Fireline Intensity (BTU/ft-sec)	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	0	0	0
>0 - 5	0	0	0
>5 - 100	5564	1237	100
>100 - 500	8	2	0
>500 - 1,000	0	0	0
>1,000 - 6,175	0	0	0
>6,175	0	0	0

Heat/Area





Legend

- Unbuffered Extent
- Area of Interest

Heat per Unit Area (BTU/ft^2)

- >10,000
- >6,000 - 10,000
- >3,000 - 6,000
- >1,000 - 3,000
- >300 - 1,000
- >0 - 300
- Non-burnable

Interagency Fuel Treatment

Decision Support System

Landscape Fire Behavior Summary

Heat per Unit Area

Analysis Details:

Date: 11/18/2019
LANDFIRE Version: LANDFIRE 2014
IFTDSS Username: dmgriffith
LCP Name: homestead clearcut broadcastburn 2-5yrs

Model Inputs:

Wind Type: Gridded Winds
Wind Speed: 20
Wind Direction: 270
Crown Fire Method: Scott/Reinhardt
Foliar Moisture: 100
Weather Station Used: Not Available
Initial Fuel Moisture:
- 1 hr FM: 4
- 10 hr FM: 4
- 100 hr FM: 6
- Herb FM: 48
- Woody FM: 75

Conditioning Type: Off
Initial fuel moisture used

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Sources: Esri, USGS, NOAA

IFTDSS

Heat/Area

Heat per Unit Area (BTU/ft^2) Data Summary for Area of Interest "homestead_pa_072419 (2)" within "homestead_clearcut_broadcastburn_2-5yrs" Landscape

Source Landscape Name: homestead_clearcut_broadcastburn_2-5yrs
Landfire Version: LANDFIRE 2014
Source Landscape Acres: 62,956
Area of Interest Name: homestead_pa_072419 (2)
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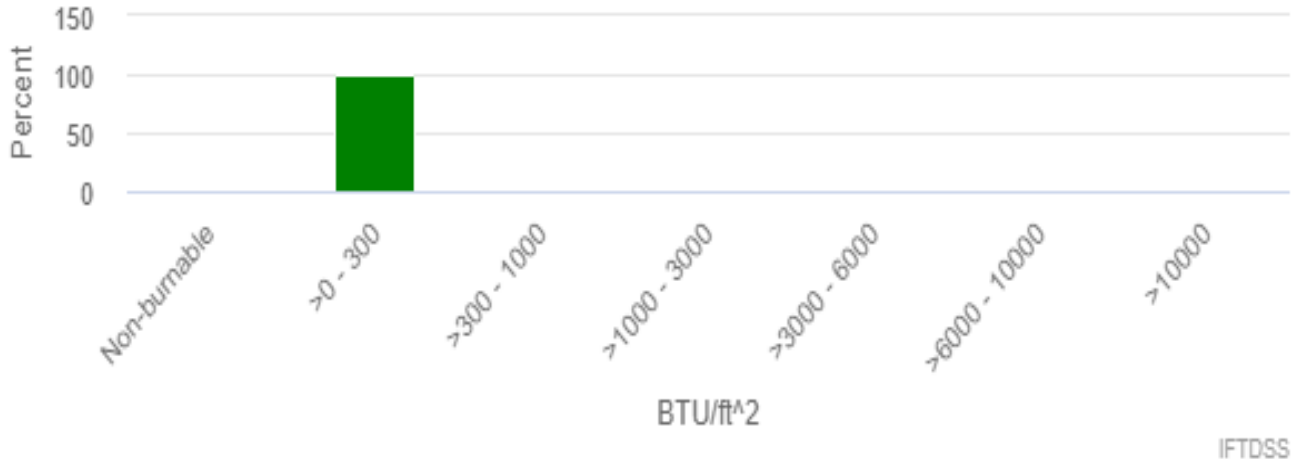

Heat/Area

Heat per Unit Area (BTU/ft^2) Data Summary for Area of Interest "homestead_pa_072419 (2)" within "homestead_clearcut_broadcastburn_2-5yrs" Landscape

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Landfire Version: LANDFIRE 2014
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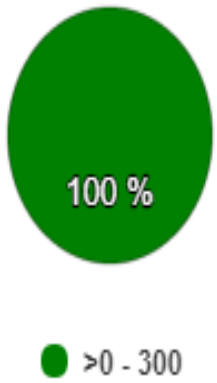
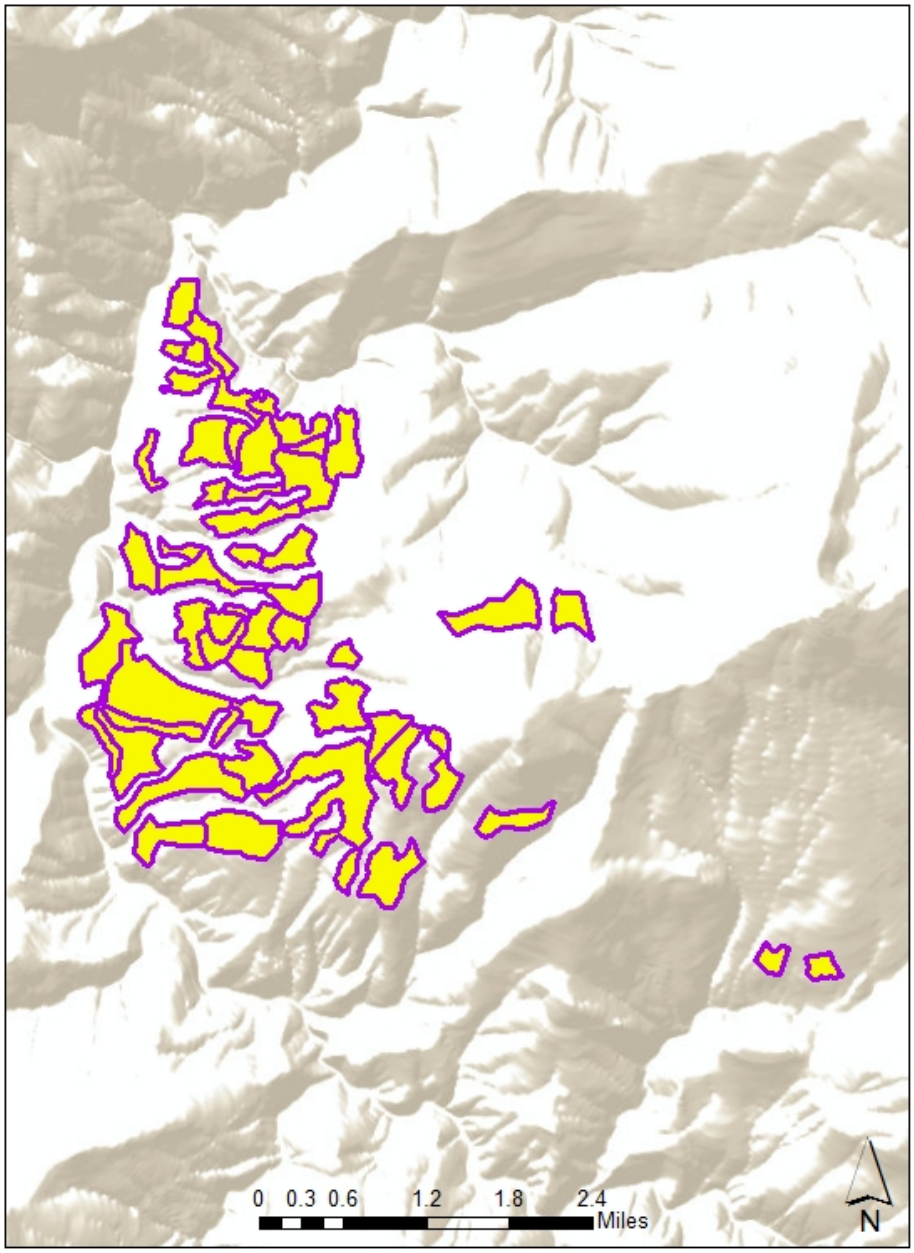


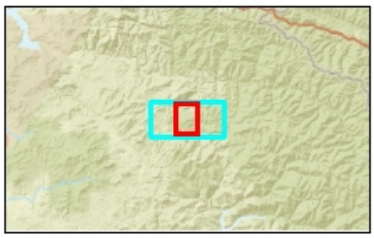
IFTDSS

Heat/Area

Heat per Unit Area (BTU/ft^2)	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	0	0	0
>0 - 300	5572	1239	100
>300 - 1,000	0	0	0
>1,000 - 3,000	0	0	0
>3,000 - 6,000	0	0	0
>6,000 - 10,000	0	0	0
>10,000	0	0	0

Crown Fire





Legend

- Unbuffered Extent
- Area of Interest
- Surface Fire

Interagency Fuel Treatment

Decision Support System

Landscape Fire Behavior Summary

Crown Fire Activity

Analysis Details:

Date: 11/18/2019
LANDFIRE Version: LANDFIRE 2014
IFTDSS Username: dmgriffith
LCP Name: homestead clearcut broadcastburn 2-5yrs

Model Inputs:

Wind Type: Gridded Winds
Wind Speed: 20
Wind Direction: 270
Crown Fire Method: Scott/Reinhardt
Foliar Moisture: 100
Weather Station Used: Not Available
Initial Fuel Moisture:
- 1 hr FM: 4
- 10 hr FM: 4
- 100 hr FM: 6
- Herb FM: 48
- Woody FM: 75

Conditioning Type: Off
Initial fuel moisture used

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Sources: Esri, USGS, NOAA

IFTDSS

Crown Fire Activity Data Summary for Area of Interest "homestead_pa_072419 (2)" within "homestead_clearcut_broadcastburn_2-5yrs" Landscape

Source Landscape Name: homestead_clearcut_broadcastburn_2-5yrs
Landfire Version: LANDFIRE 2014
Source Landscape Acres: 62,956
Area of Interest Name: homestead_pa_072419 (2)
Area of Interest Acres: 1,239
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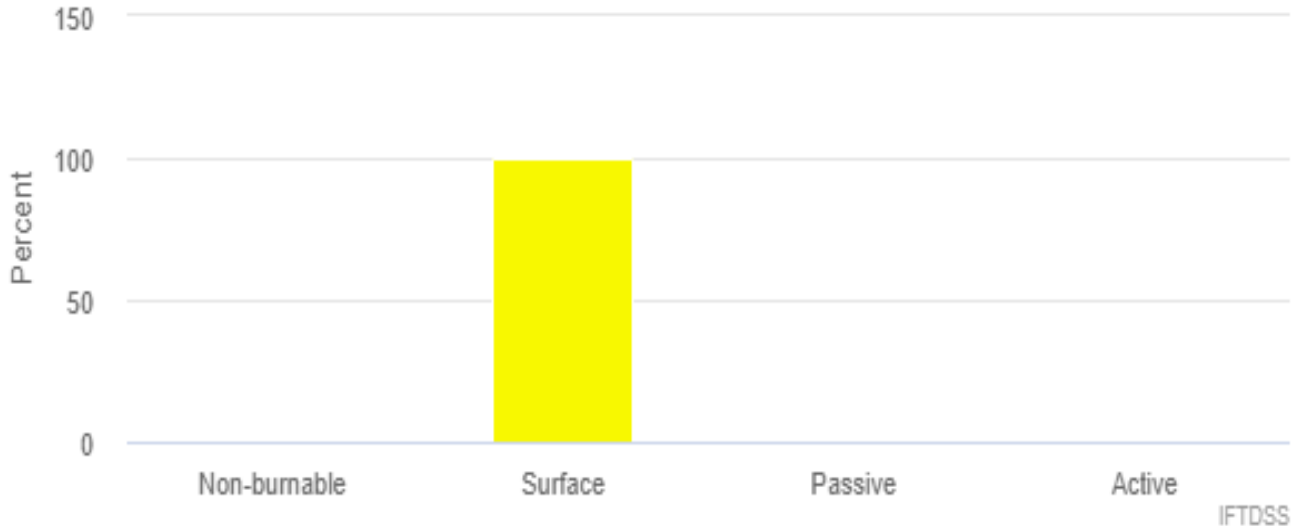

Crown Fire Activity Data Summary for Area of Interest "homestead_pa_072419 (2)" within "homestead_clearcut_broadcastburn_2-5yrs" Landscape

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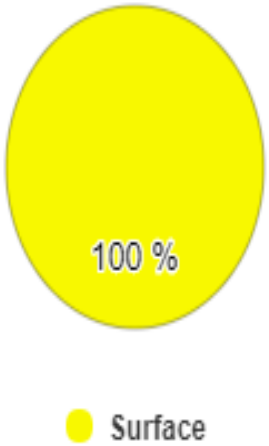

IFTDSS

Crown Fire

Crown Fire Activity	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	0	0	0
Surface Fire	5572	1239	100
Passive Fire	0	0	0
Active Fire	0	0	0