Appendix I

FlamMap Outputs Explanation

Crown Fire Potential – FlamMap calculates fire behavior characteristics on a cell by cell (30m x 30m) basis for the landscape file input into the model. The crown fire activity of any cell is independent of any adjacent cells. This means active crown fire cannot *"spread"* cell to cell and <u>spotting is not modeled in FlamMap</u>.

◊ <u>Non-burnable</u> – Portions of the landscape fuels that will not support combustion. Generally associated with bodies of water or non-vegetated areas of the landscape

◊ <u>Surface Fire</u> – Fire that burns loose debris on the surface, which includes dead branches, leaves, and low vegetation.

◊ <u>Passive Crown Fire</u> - A fire in the crowns of trees in which trees or groups of trees torch, ignited by the passing front of the fire. The torching trees reinforce the spread rate, but these fires are not basically different from surface fires.

◊ <u>Active Crown Fire</u> - A fire in which a solid flame develops in the crowns of trees, but the surface and crown phases advance as a linked unit dependent on each other.

Rate of Spread – Models the rate of forward spread of the fire in each cell (30m x 30m) of the input landscape file. Results are based on surface fire spread only and does not include the influence of crown fire, firewhirls and spotting on the spread rate of a fire

Flame Length - Models the flame length in feet of a surface fire burning with each cell (30m x 30m) of the landscape file. Flame lengths associated with crown fire activity is not modeled nor is the effects of spot fires or firewhirls.

Barry Point Fire
FlamMap Output for Crown Fire Potential
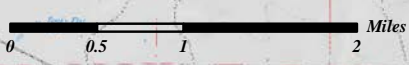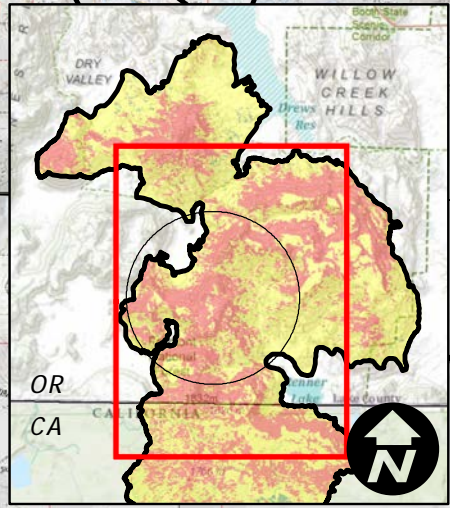## A Detailed View of the Dry Creek Area
OR-FWF-120680

Barry Point Fire Perimeter

Crown Fire Potential

- 0 = Non-Burnable
- 1 = Surface Fire
- 2 = Passive Crown Fire
- 3 = Active Crown Fire
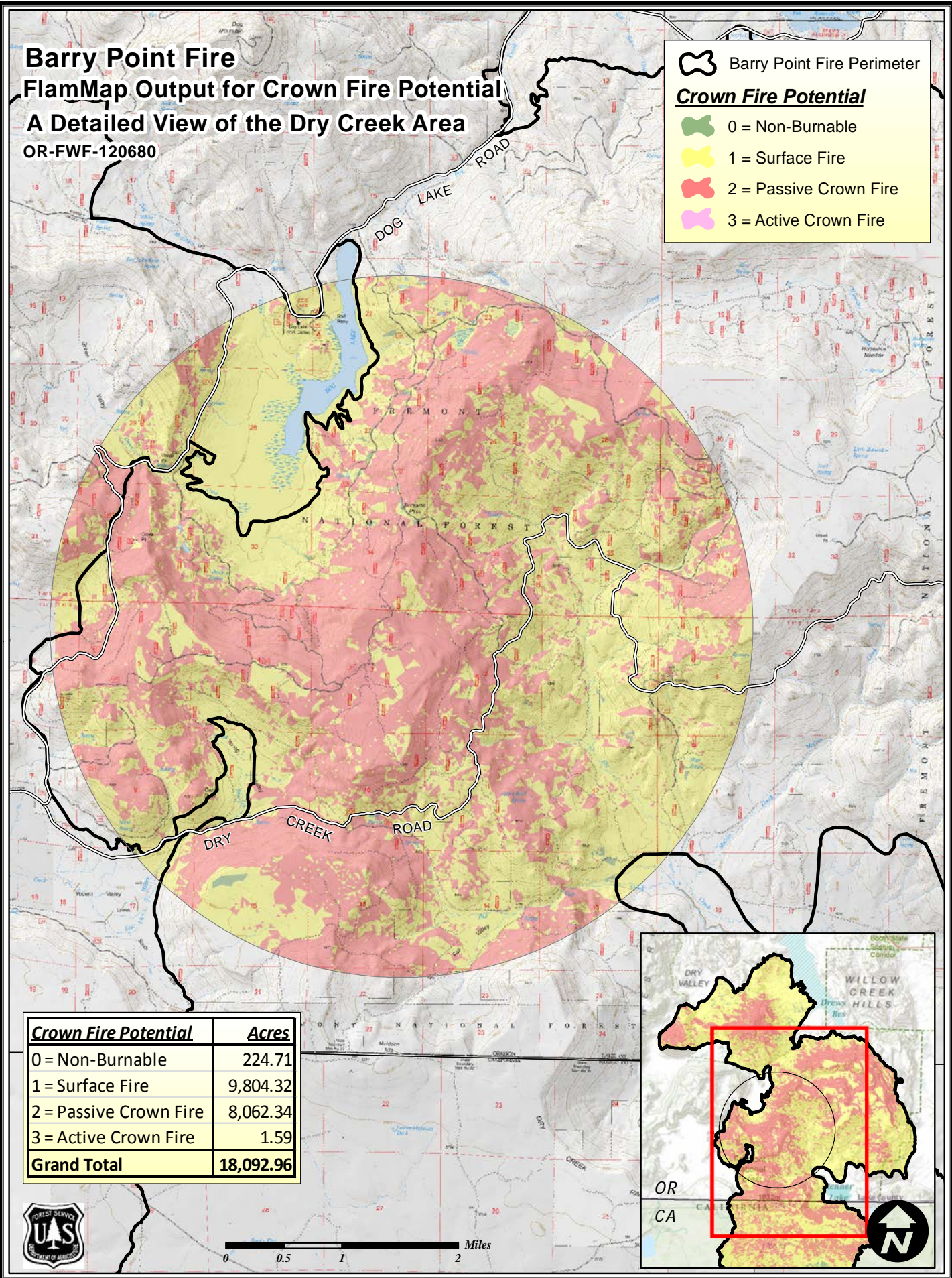
Crown Fire Potential	*Acres*
0 = Non-Burnable	224.71
1 = Surface Fire	9,804.32
2 = Passive Crown Fire	8,062.34
3 = Active Crown Fire	1.59
Grand Total	**18,092.96**

Miles
0   0.5   1   2

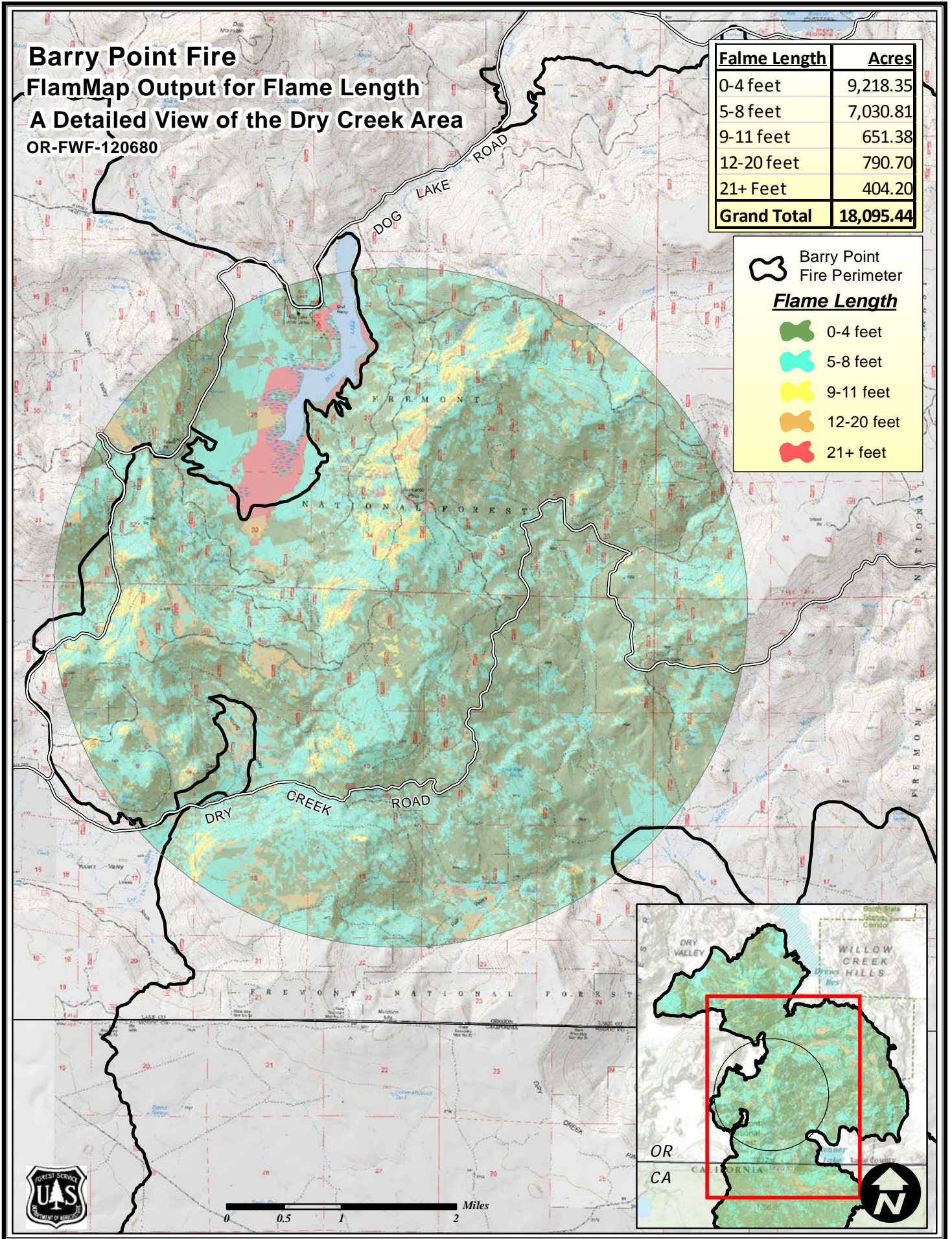# Barry Point Fire
FlamMap Output for Flame Length
A Detailed View of the Dry Creek Area

OR-FWF-120680

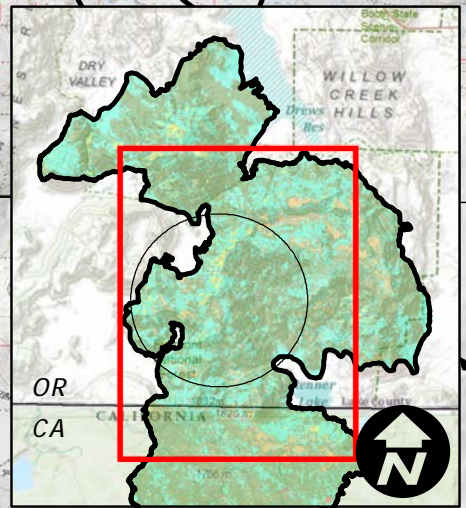| Falme Length	Acres
0-4 feet	9,218.35
5-8 feet	7,030.81
9-11 feet	651.38
12-20 feet	790.70
21+ Feet	404.20
Grand Total	**18,095.44**

Barry Point Fire Perimeter

Flame Length

- 0-4 feet
- 5-8 feet
- 9-11 feet
- 12-20 feet
- 21+ feet

DOG LAKE ROAD

DRY CREEK ROAD

FREMONT NATIONAL FOREST

OREGON
CALIFORNIA

OR
CA

DRY VALLEY

WILLOW CREEK HILLS

Miles
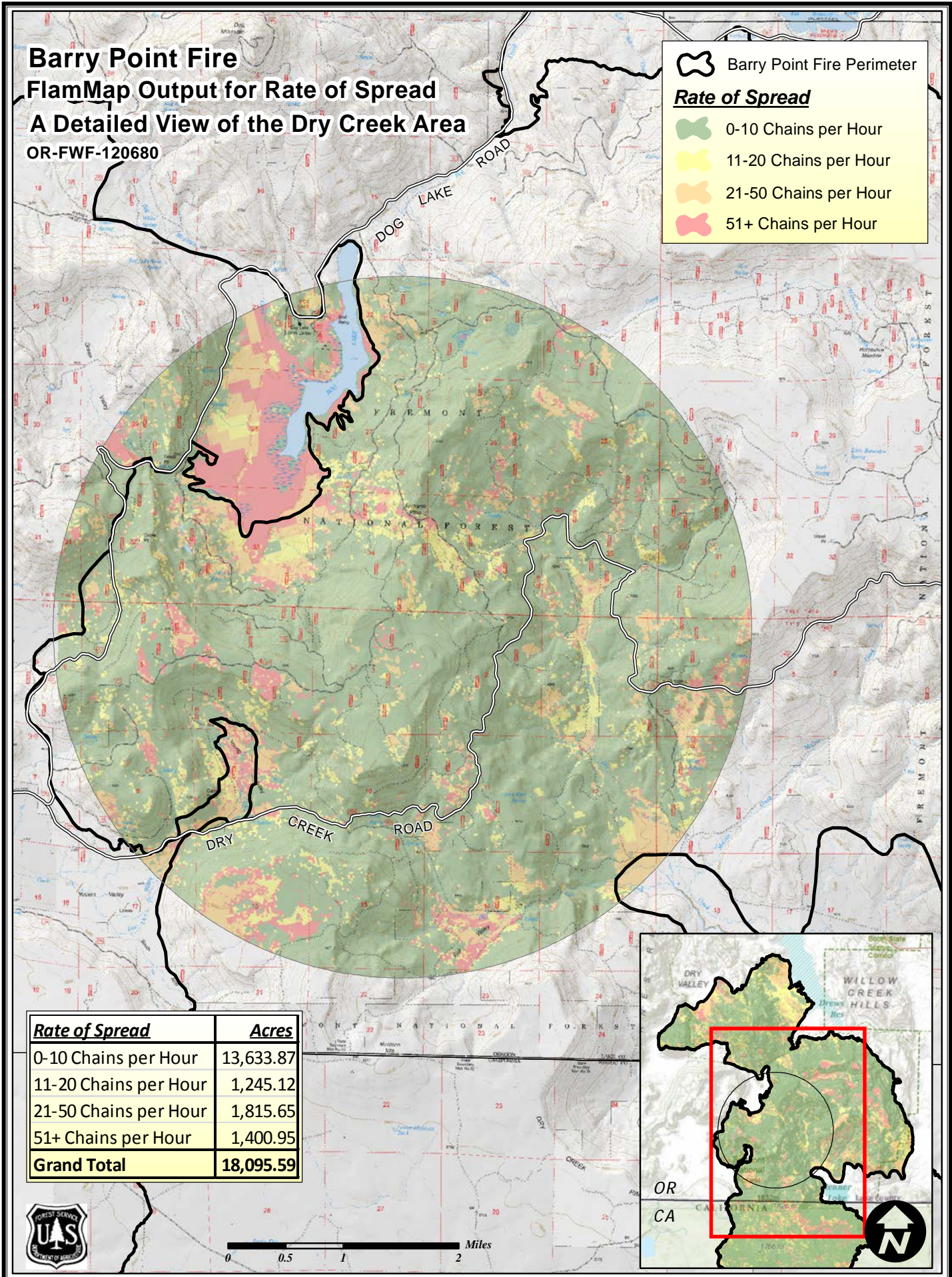0   0.5   1   2

Barry Point Fire
FlamMap Output for Rate of Spread
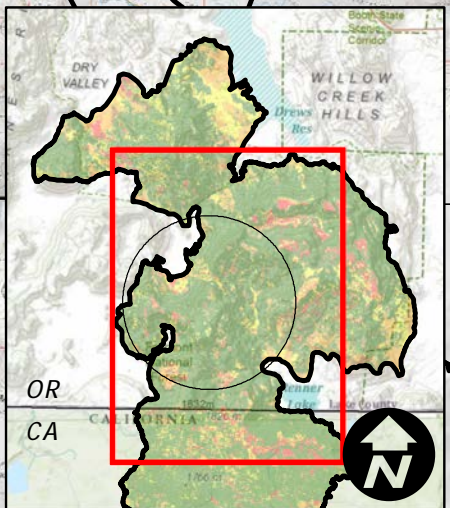## A Detailed View of the Dry Creek Area
OR-FWF-120680

Barry Point Fire Perimeter

Rate of Spread
- 0-10 Chains per Hour
- 11-20 Chains per Hour
- 21-50 Chains per Hour
- 51+ Chains per Hour

| Rate of Spread	Acres
0-10 Chains per Hour	13,633.87
11-20 Chains per Hour	1,245.12
21-50 Chains per Hour	1,815.65
51+ Chains per Hour	1,400.95
Grand Total	**18,095.59**

Miles
0   0.5   1   2

Barry Point Fire
FlamMap Output for Crown Fire Potential
A Detailed View of the Yocum Valley Area
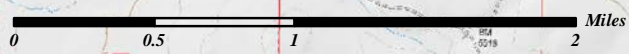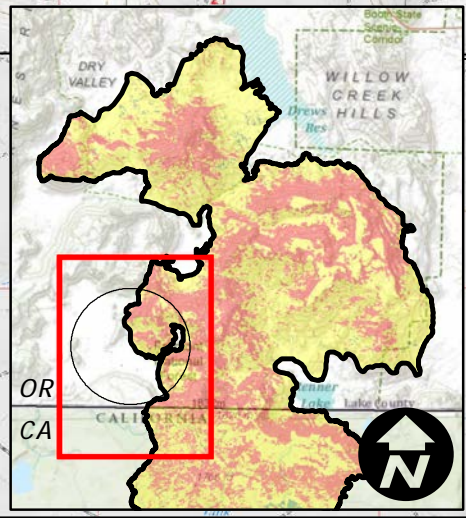
OR-FWF-120680

Barry Point Fire Perimeter

Crown Fire Potential

- 0 = Non-Burnable
- 1 = Surface Fire
- 2 = Passive Crown Fire
- 3 = Active Crown Fire
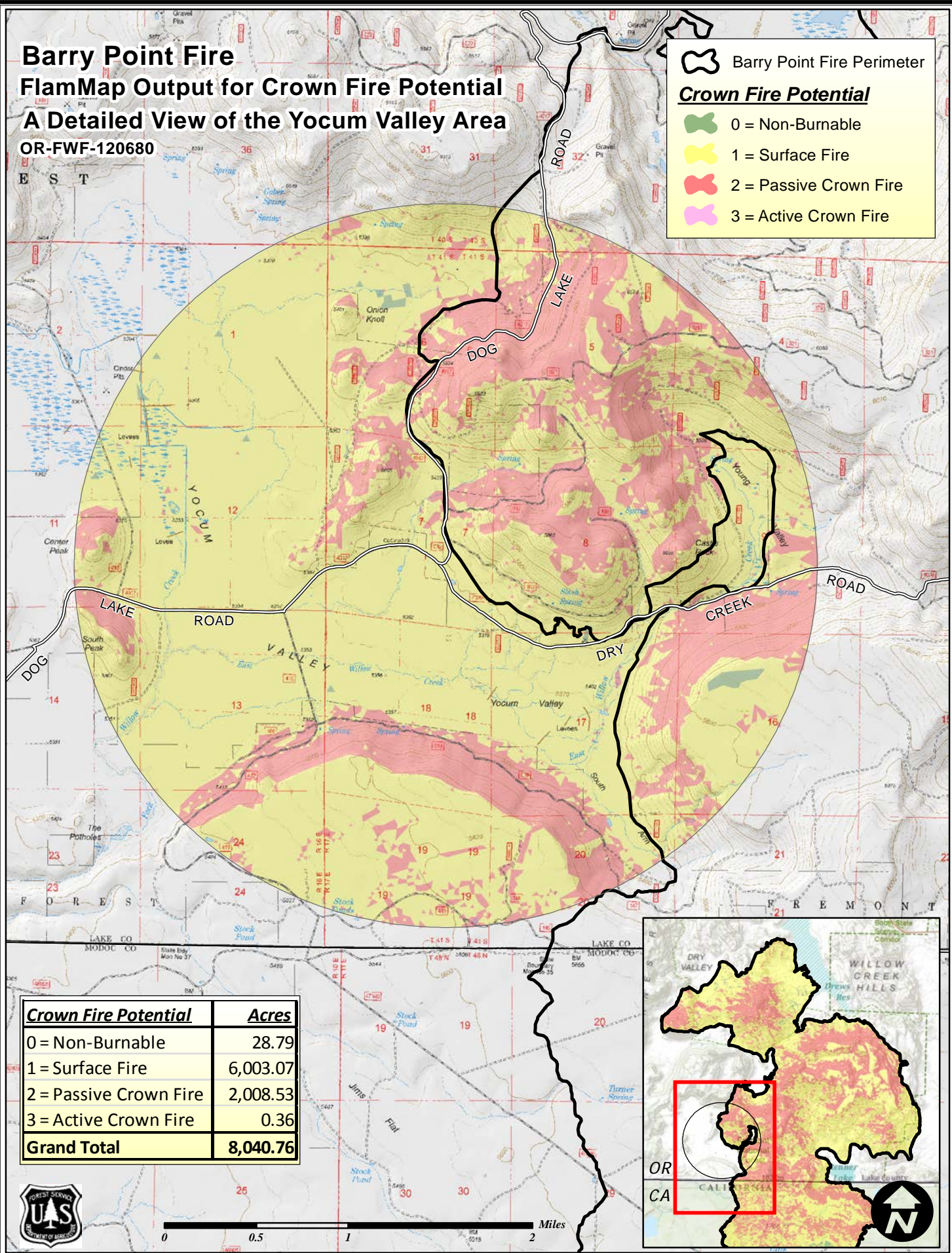
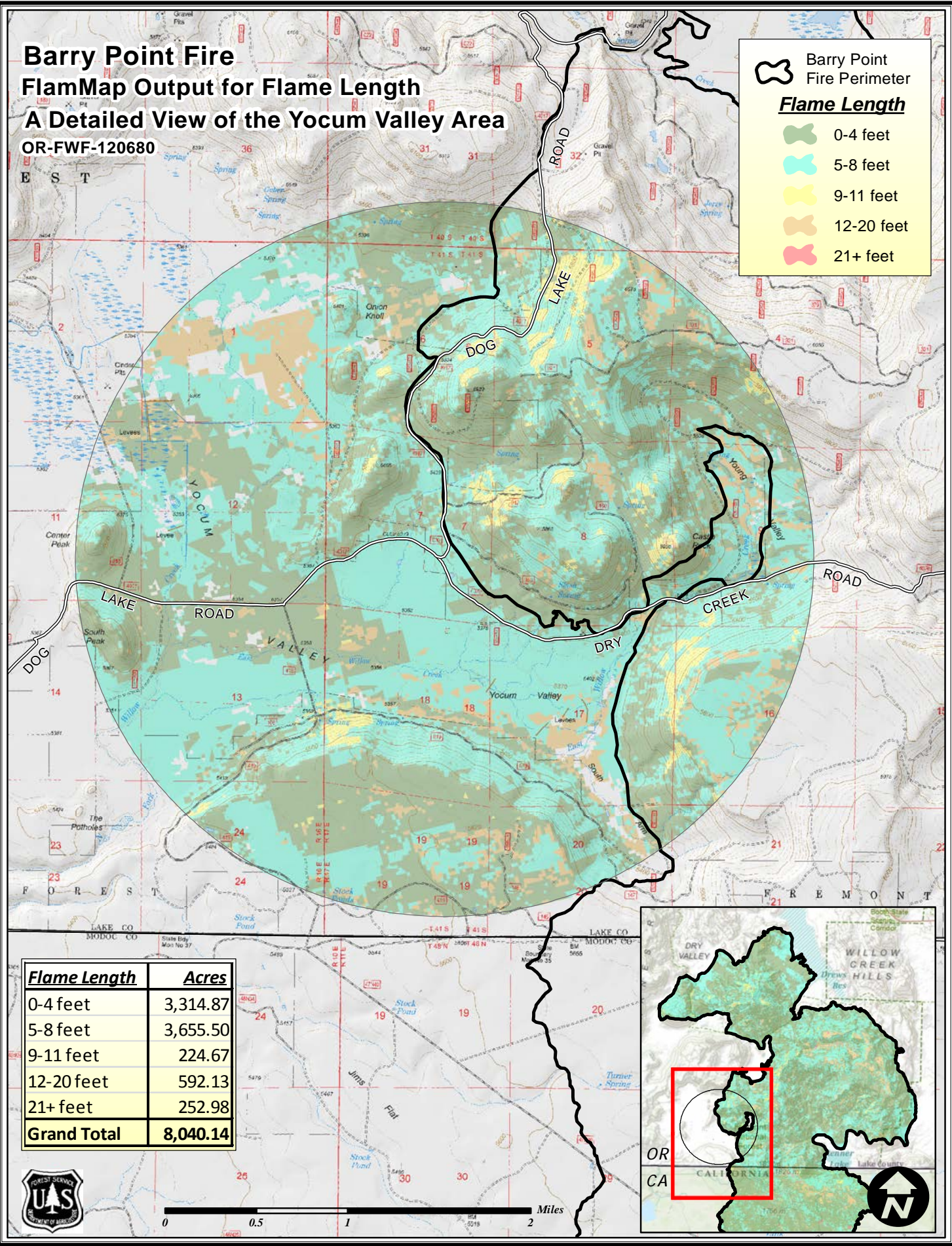| Crown Fire Potential	Acres
0 = Non-Burnable	28.79
1 = Surface Fire	6,003.07
2 = Passive Crown Fire	2,008.53
3 = Active Crown Fire	0.36
Grand Total	**8,040.76**

Miles

0   0.5   1   2

OR
CA

Barry Point Fire
FlamMap Output for Flame Length
A Detailed View of the Yocum Valley Area
OR-FWF-120680

Barry Point Fire Perimeter

Flame Length
- 0-4 feet
- 5-8 feet
- 9-11 feet
- 12-20 feet
- 21+ feet

Flame Length	*Acres*
0-4 feet	3,314.87
5-8 feet	3,655.50
9-11 feet	224.67
12-20 feet	592.13
21+ feet	252.98
Grand Total	**8,040.14**
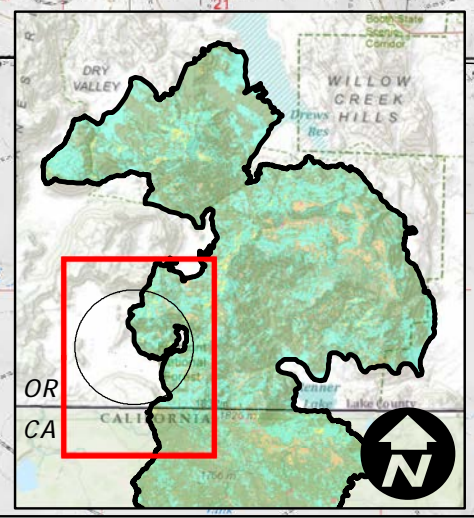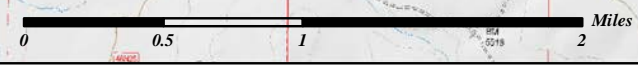
Miles

0   0.5   1   2

Barry Point Fire
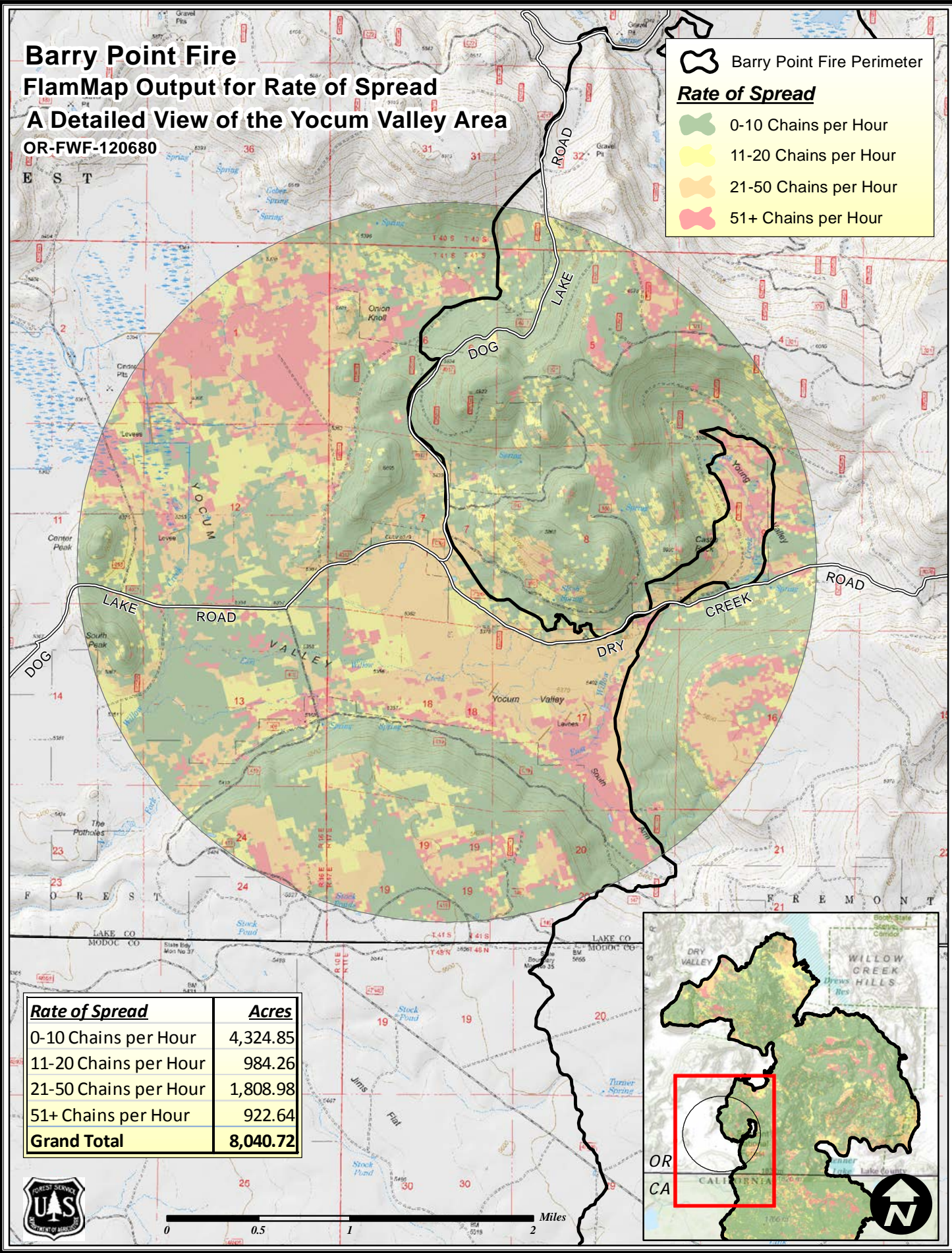## FlamMap Output for Rate of Spread
A Detailed View of the Yocum Valley Area
OR-FWF-120680

Legend

Barry Point Fire Perimeter

Rate of Spread

- 0-10 Chains per Hour
- 11-20 Chains per Hour
- 21-50 Chains per Hour
- 51+ Chains per Hour

Rate of Spread	Acres
0-10 Chains per Hour	4,324.85
11-20 Chains per Hour	984.26
21-50 Chains per Hour	1,808.98
51+ Chains per Hour	922.64
Grand Total	**8,040.72**

Miles
0   0.5   1   2