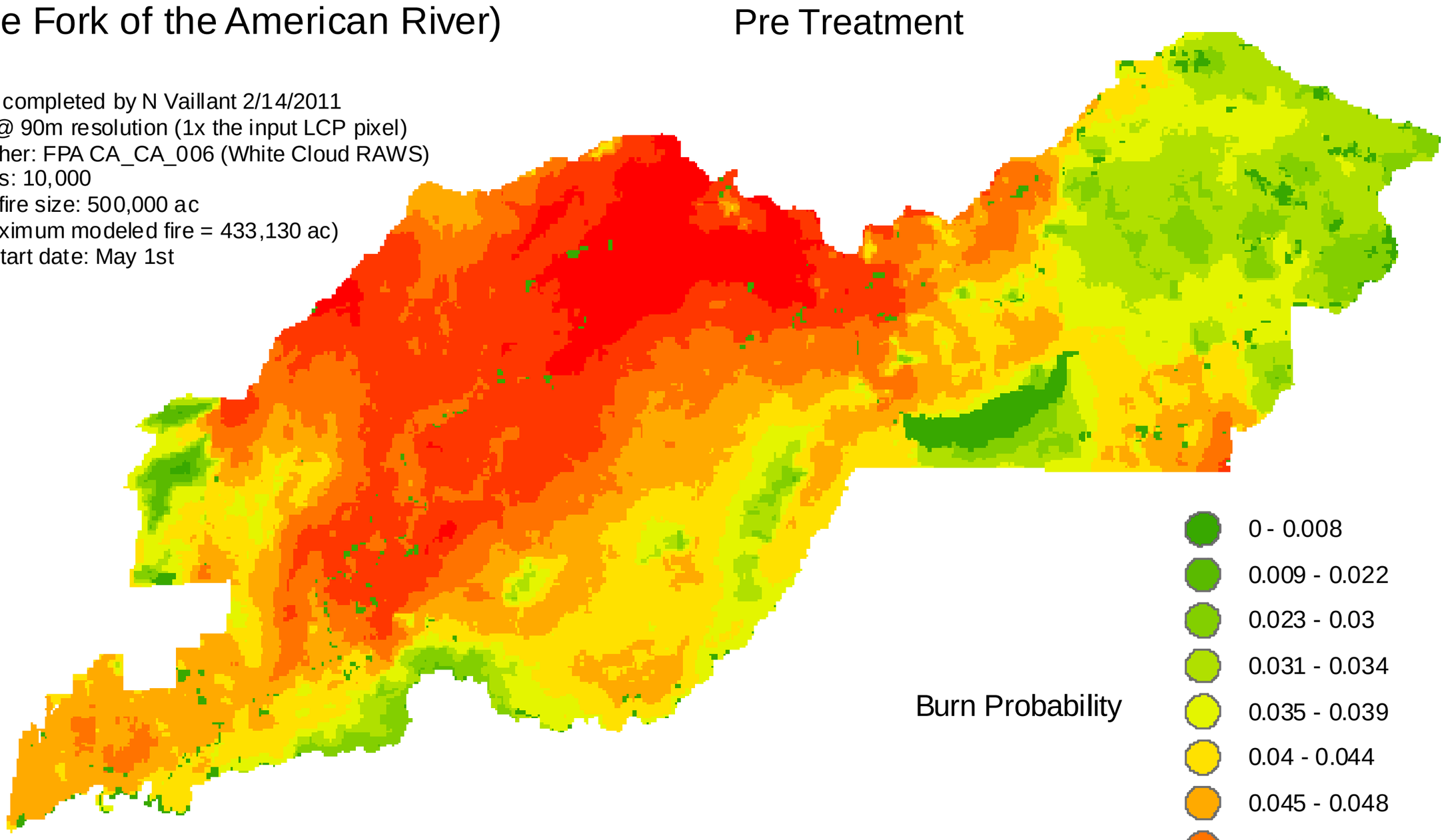
Tahoe NF Restoration Project
(Middle Fork of the American River)

Pre Treatment

FSim runs completed by N Vaillant 2/14/2011
FSim run @ 90m resolution (1x the input LCP pixel)
Input weather: FPA CA_CA_006 (White Cloud RAWS)
Simulations: 10,000
Maximum fire size: 500,000 ac
(actual maximum modeled fire = 433,130 ac)
Fire year start date: May 1st

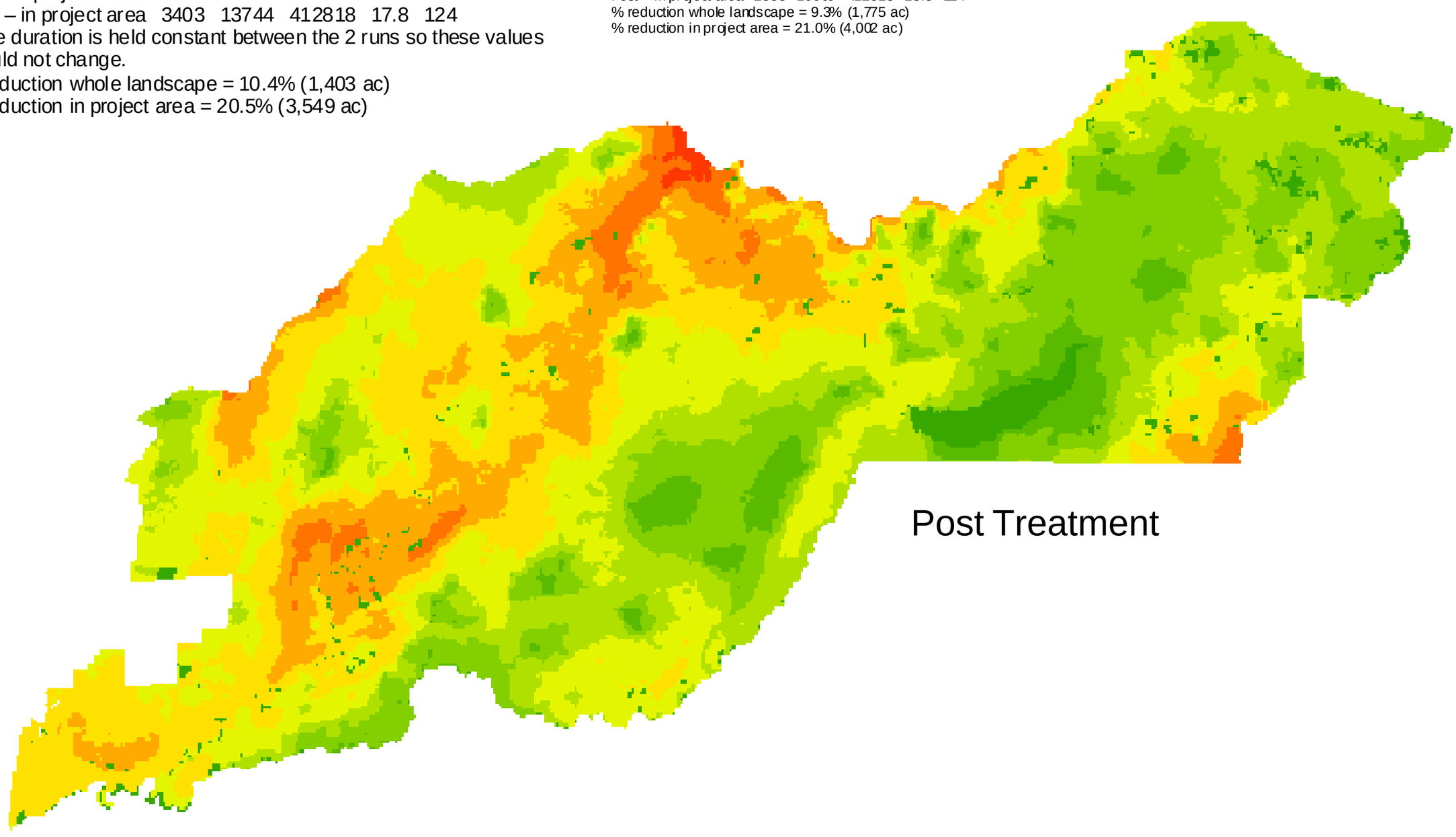


Burn Probability

- 0 - 0.008
- 0.009 - 0.022
- 0.023 - 0.03
- 0.031 - 0.034
- 0.035 - 0.039
- 0.04 - 0.044
- 0.045 - 0.048
- 0.049 - 0.053
- 0.054 - 0.059
- 0.06 - 0.068

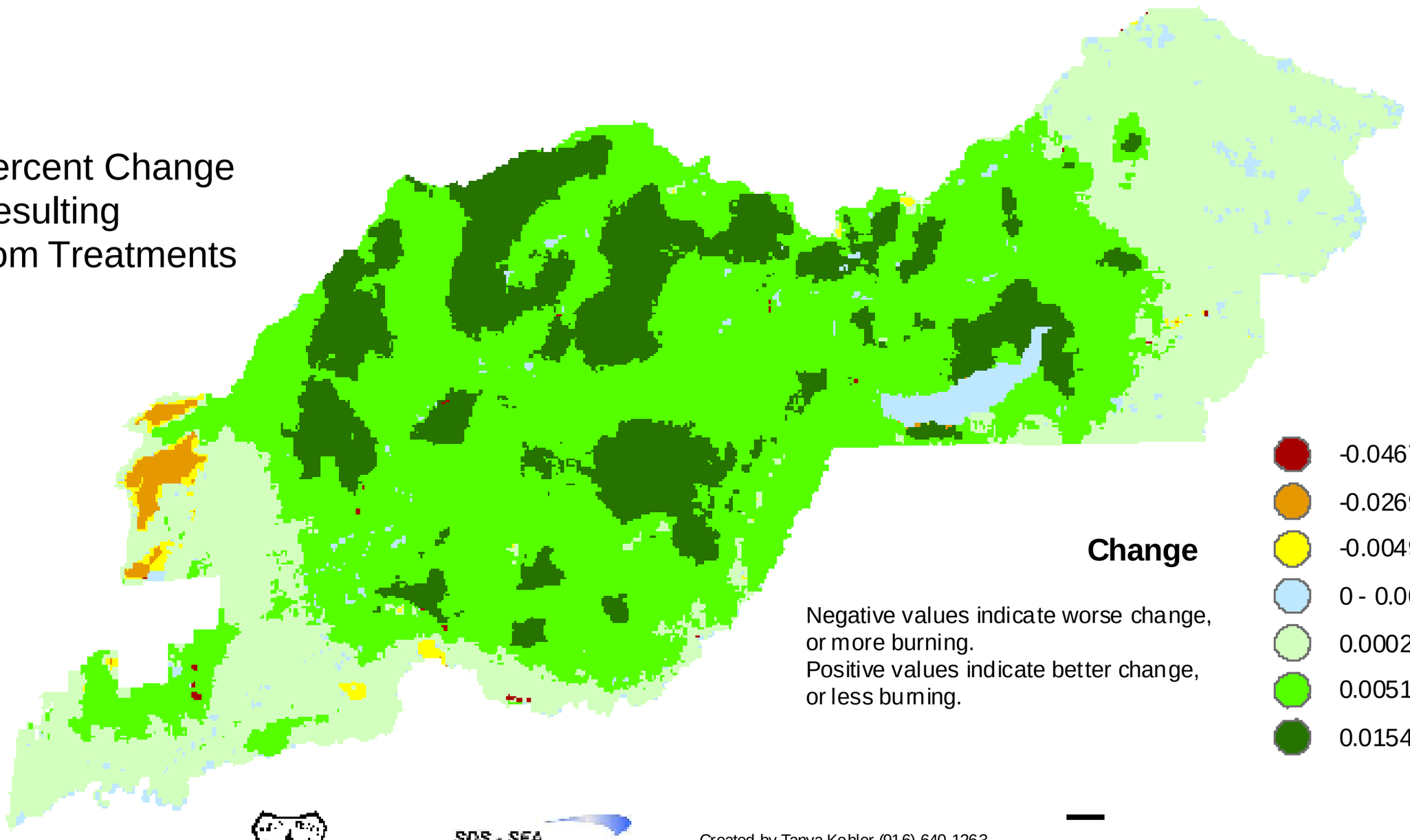
All fires
n Mean Fire Size (ac) Max Fire Size
(ac) Mean Fire Dur. (days)* Max Fire Dur. (days)
Pre - all 12070 13515 433130 17.7 124
Post - all 12070 12112 412818 17.7 124
Pre – in project area 3403 17293 433130 17.8 124
Post – in project area 3403 13744 412818 17.8 124
* Fire duration is held constant between the 2 runs so these values should not change.
% reduction whole landscape = 10.4% (1,403 ac)
% reduction in project area = 20.5% (3,549 ac)

Large fires only (>300 ac) – use the "in project area mean fire sizes" for the R-CAT spreadsheet
n Mean Fire Size (ac) Max Fire Size
(ac) Mean Fire Dur. (days)* Max Fire Dur. (days)
Pre - all 8555 19035 433130 22.8 124
Post - all 8453 17260 412818 23.0 124
Pre – in project area 2452 23971 433130 22.7 124
Post – in project area 2338 19969 412818 23.5 124
% reduction whole landscape = 9.3% (1,775 ac)
% reduction in project area = 21.0% (4,002 ac)



Post Treatment

Percent Change Resulting from Treatments



Change

- -0.0467 - -0.027
- -0.0269 - -0.005
- -0.0049 - -0.0001
- 0 - 0.0001
- 0.0002 - 0.005
- 0.0051 - 0.0153
- 0.0154 - 0.0364

Negative values indicate worse change, or more burning.
Positive values indicate better change, or less burning.

SDS - SFA

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tnf_fsim_20110215.mxd

0 0.5 1 2 Miles