

Additional file S2. Standardized values of wildfire response metrics across treatment scenarios of simulation studies testing landscape-scale fuel treatment effectiveness in the USA and Canada.

Each point in these figures is the average value for a specific treatment scenario tested for a given landscape/study and wildfire type (overall, damaging, beneficial), color-coded by response metric. Boxplots show the distribution of the point(s) within a scenario. Panels are shaded according to the method for standardizing response metric values (standardized by an omitted untreated control scenario unless otherwise indicated). Results are organized by five dimensions of fuel treatment design: extent, placement, size, prescription, and timing. Covarying conditions beyond the labeled dimension (y-axis) are presented in parentheses, where applicable. Studies with a single treatment scenario, or treatment scenarios differing only by non-treatment variables, are excluded from these figures.

Figure S2–a. Treatment Extent (Single–year)

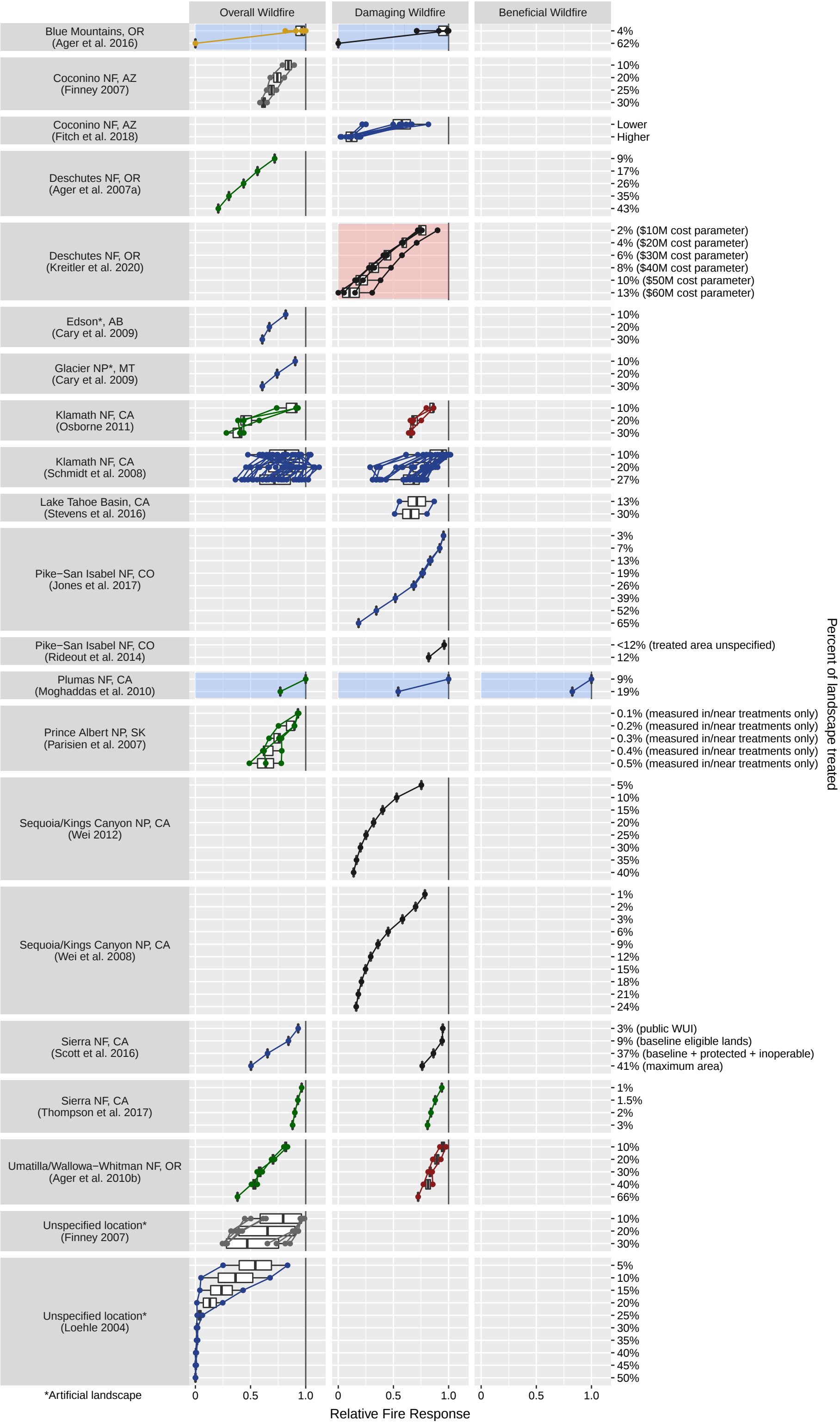


Figure S2–b. Treatment Extent (Multi–year)

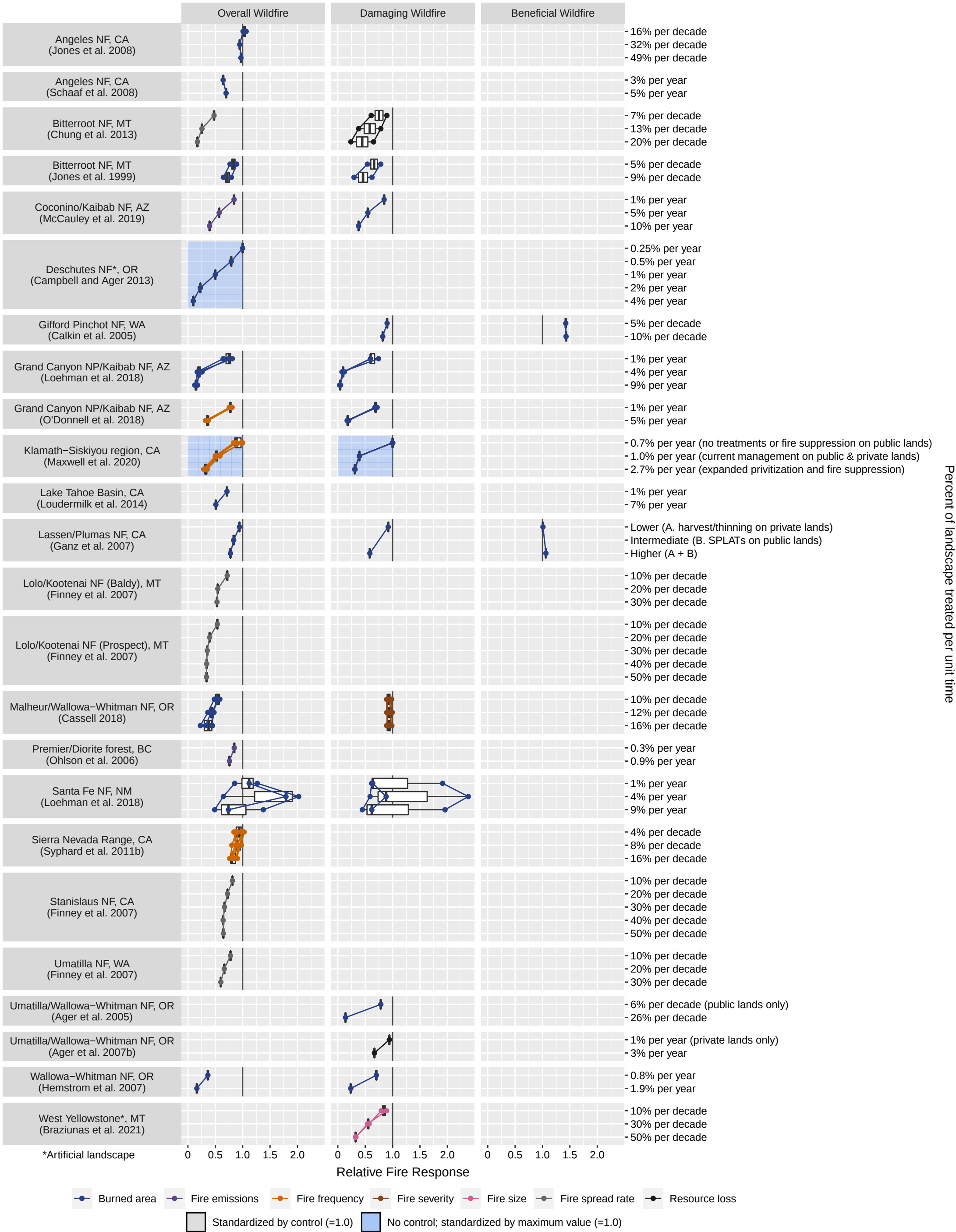


Figure S2-c. Treatment Placement (Constraint)

Land eligible or off limits for treatment

Overall Wildfire

Damaging Wildfire

Beneficial Wildfire

Gifford Pinchot NF, WA
(Hummel and Calkin 2005)

Lolo/Kootenai NF (Baldy), MT
(Finney et al. 2007)

Lolo/Kootenai NF (Prospect), MT
(Finney et al. 2007)

Plumas NF, CA
(Dow et al. 2016)

Stanislaus NF, CA
(Finney et al. 2007)

Tahoe/Eldorado NF, CA
(Chiono et al. 2017)

Umatilla NF, WA
(Finney et al. 2007)

- 6985 ha late seral forest retained
- 6879 ha late seral forest retained
- 6778 ha late seral forest retained
- 6677 ha late seral forest retained
- 0 ha late seral forest retained

- 65% off limits
- 35-45% off limits
- 15-25% off limits

- 65% off limits
- 35-45% off limits
- 15-25% off limits

- Baseline eligible lands
- Baseline + protected areas

- 65% off limits
- 35-45% off limits
- 15-25% off limits

- Baseline eligible lands
- Baseline + protected areas
- Baseline + protected + private lands

- 65% off limits
- 35-45% off limits
- 15-25% off limits

0

0.5

1.0

Relative Fire Response

0

0.5

1.0

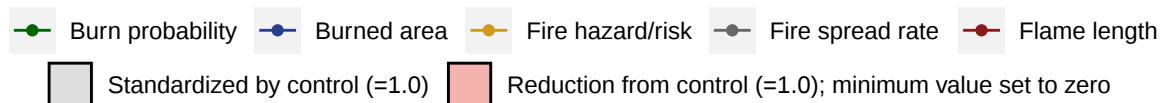


Figure S2-d. Treatment Placement (Arrangement)

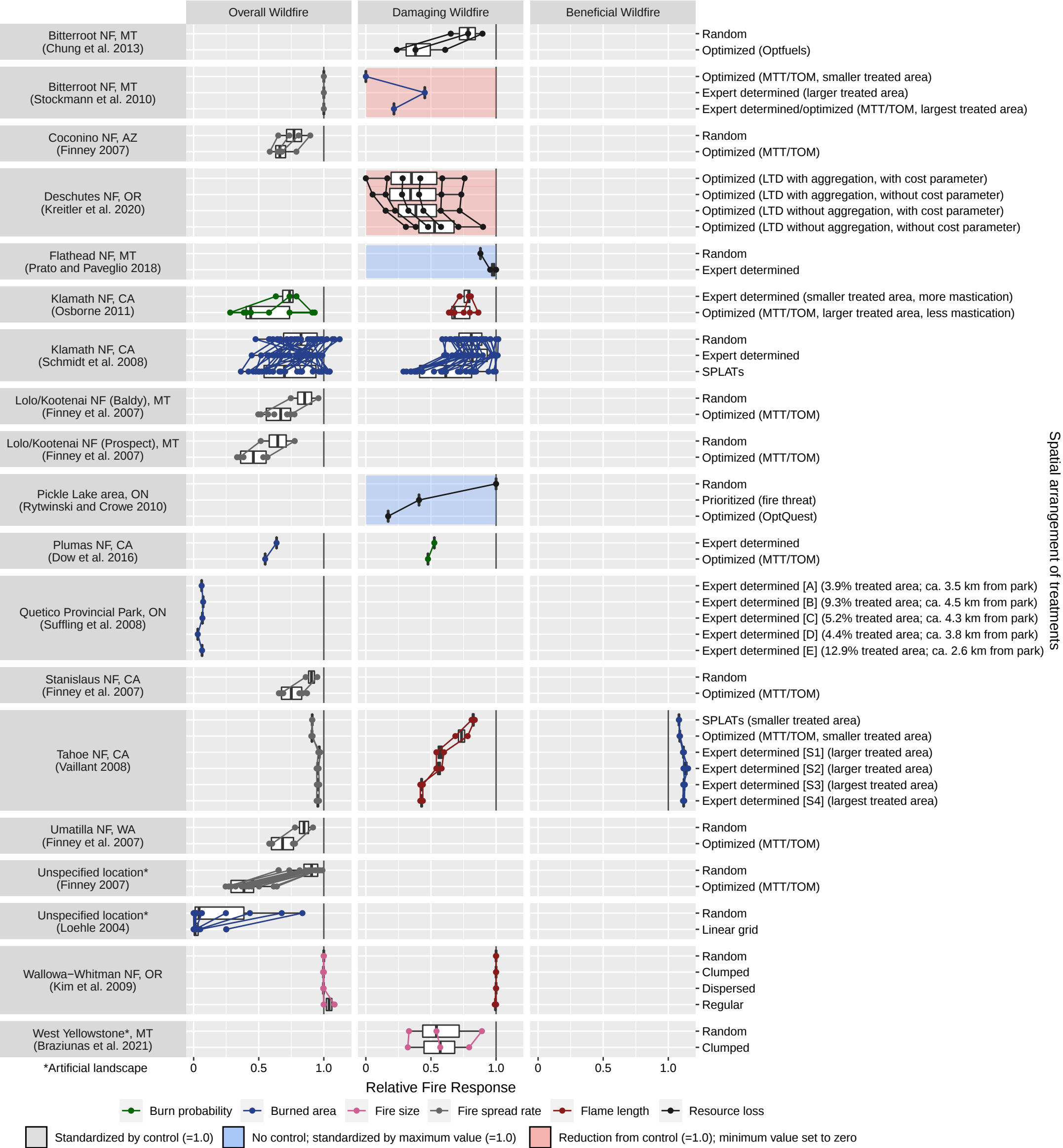
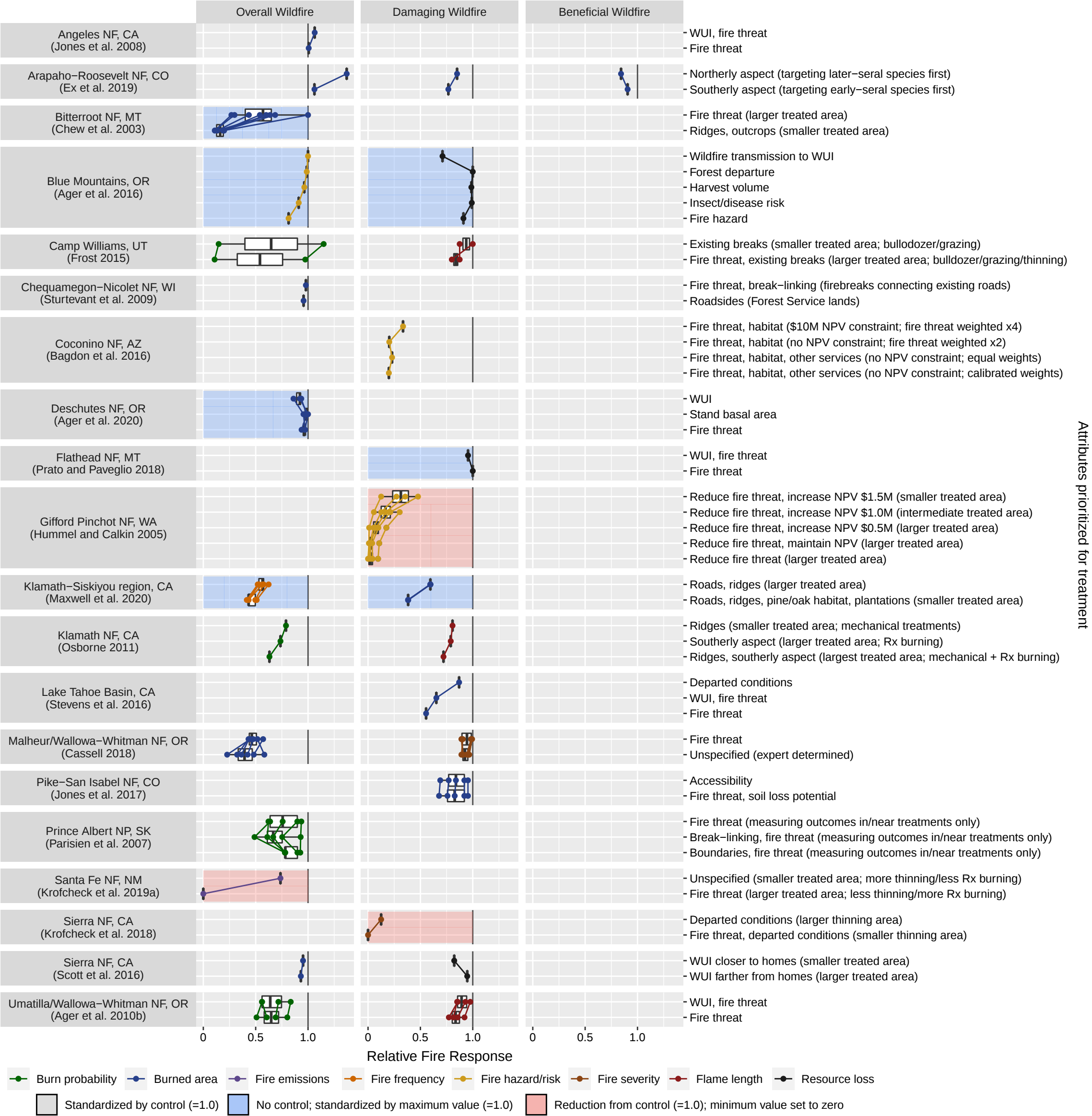


Figure S2–e. Treatment Placement (Prioritization)



Attributes prioritized for treatment

Figure S2–f. Treatment Unit Size

Size dimension of treatment units

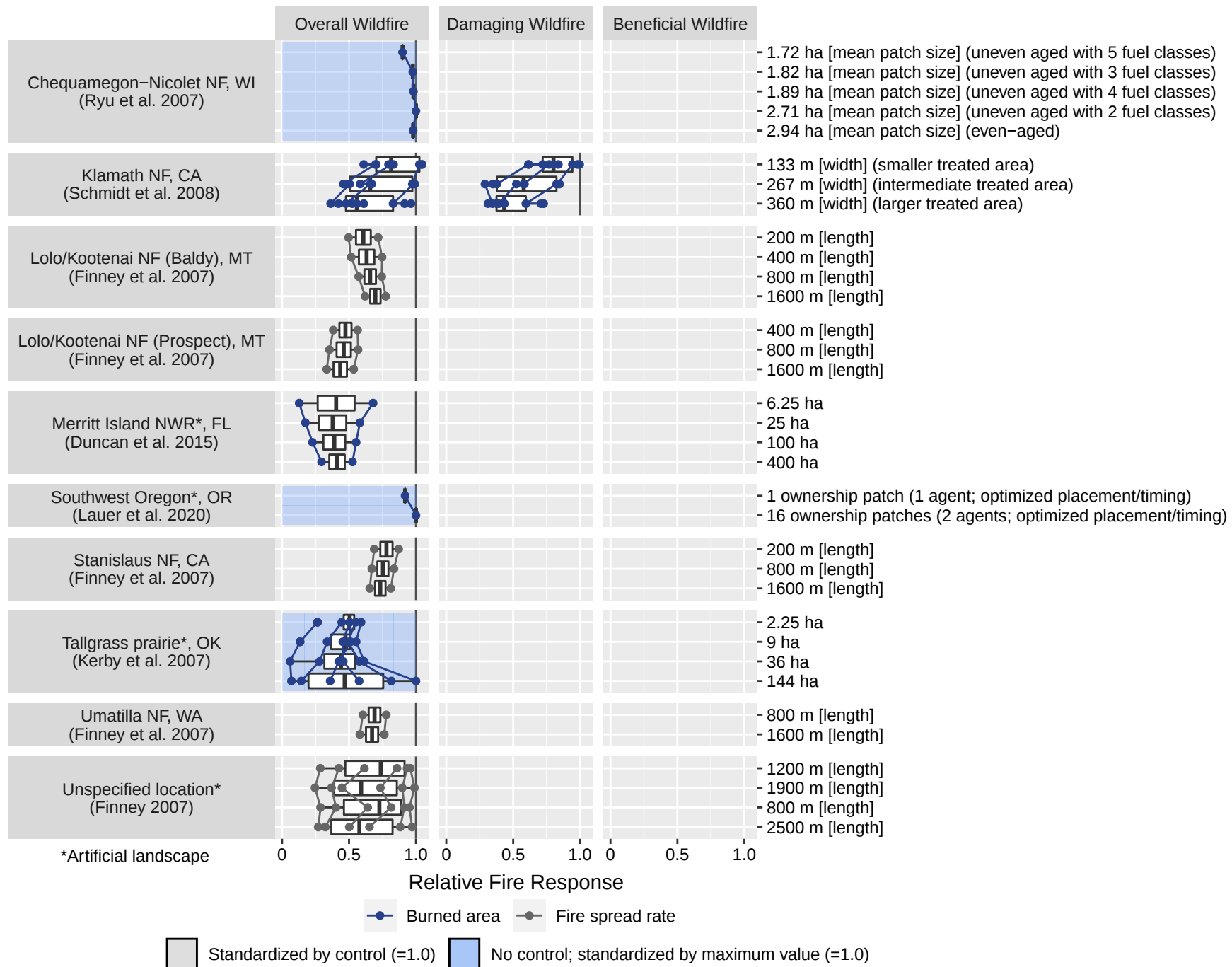
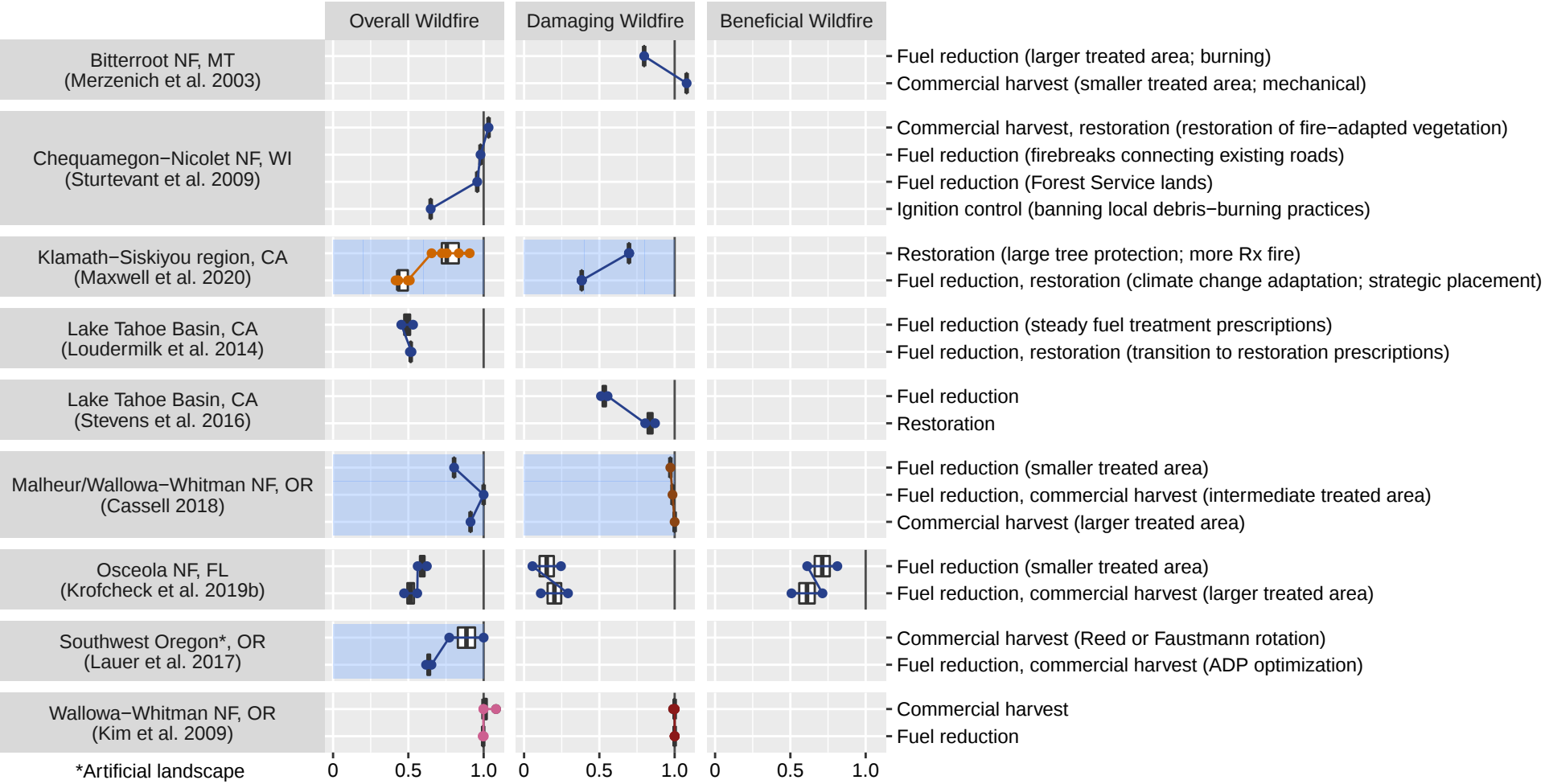


Figure S2–g. Treatment Prescription (Main Purpose)

Main purpose of treatment



*Artificial landscape

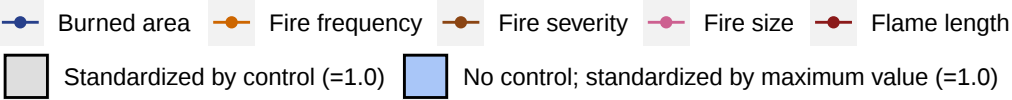


Figure S2-h. Treatment Prescription (Main Type)

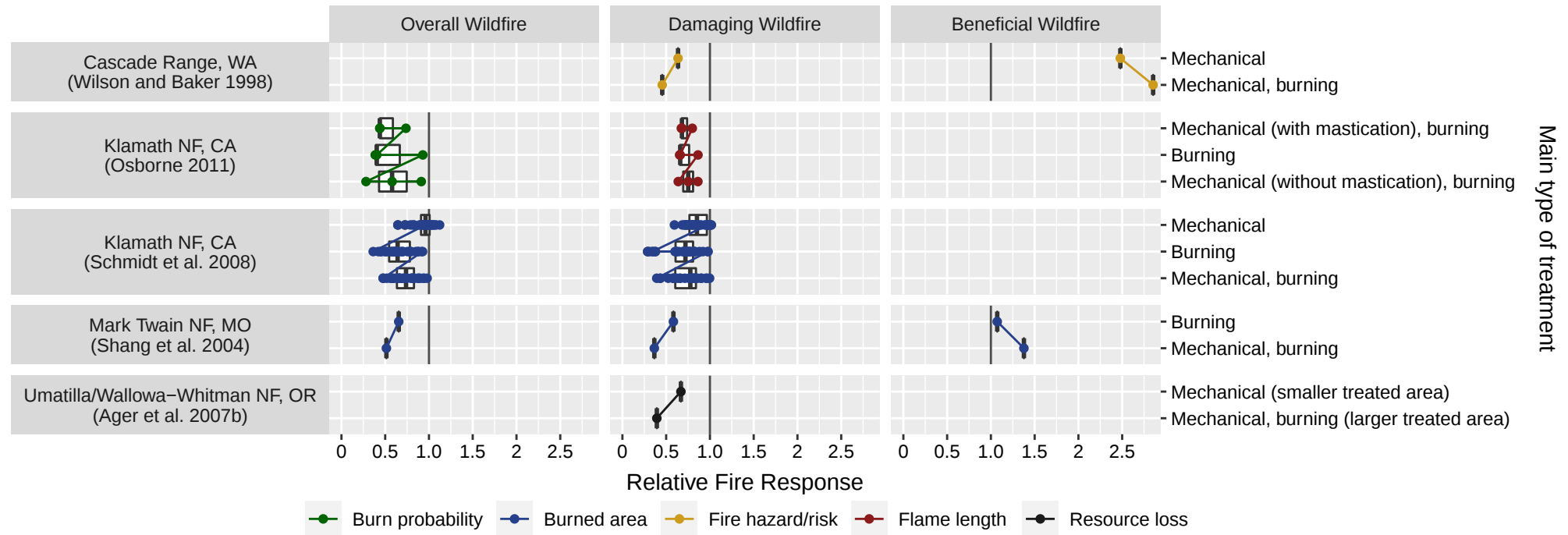


Figure S2-i. Treatment Prescription (Intensity)

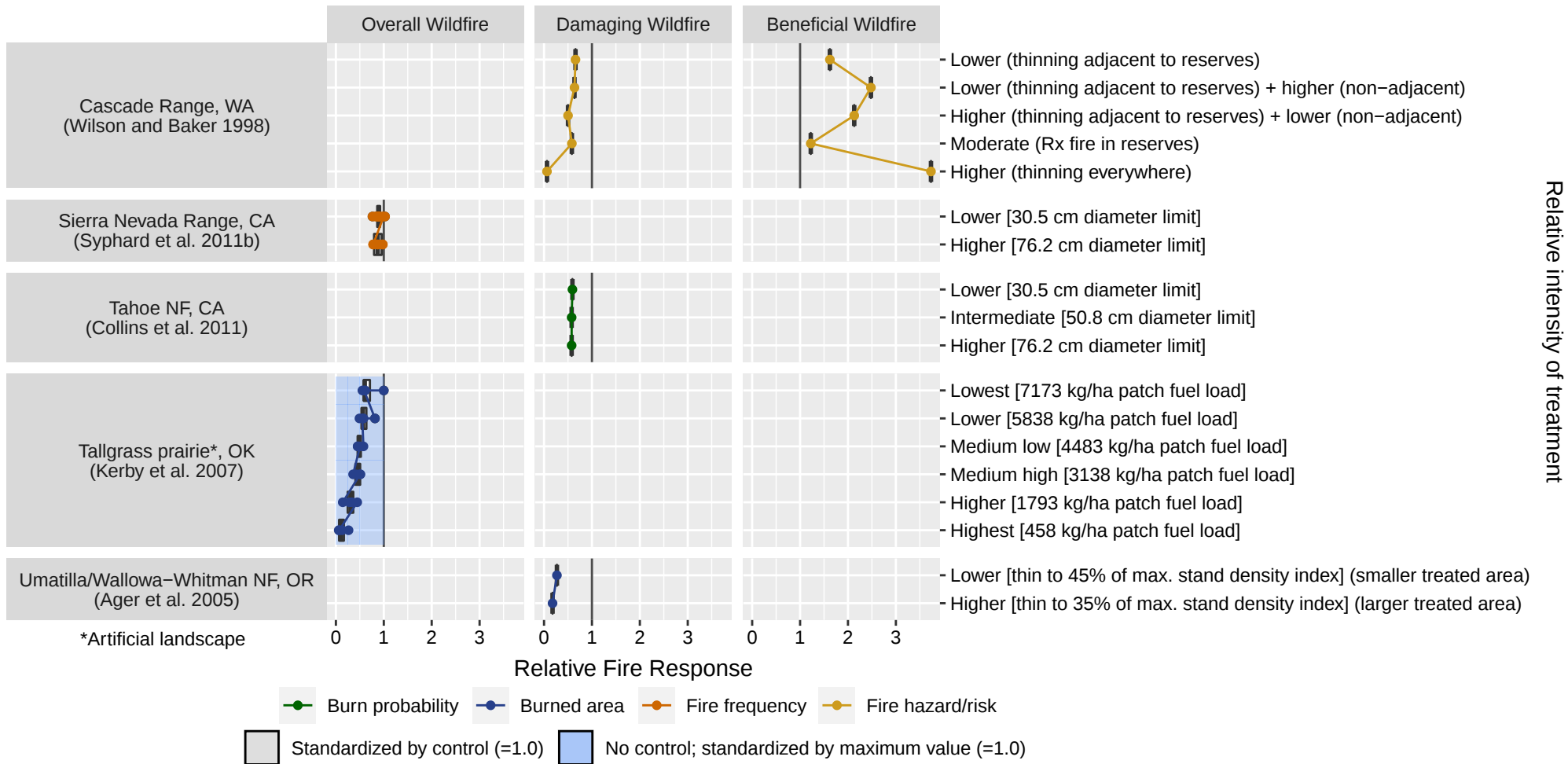


Figure S2–j. Treatment Timing

