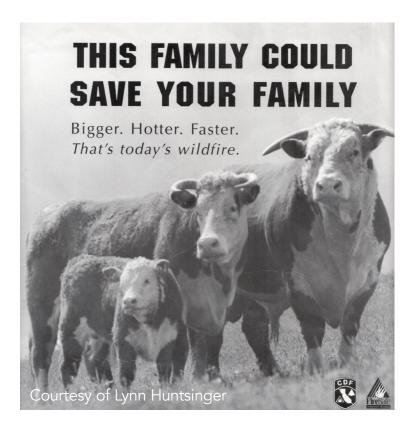
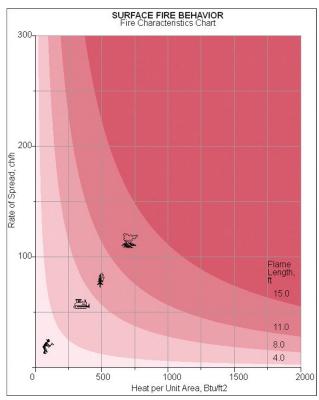
Science of livestock fuels management and fire danger reduction "Targeted Grazing for Fuel Reduction" RMAC/Cal-Pac; May 8, 2023

Matthew Shapero, UC Cooperative Extension, Livestock & Range Advisor Ventura and Santa Barbara Counties; mwkshapero@ucanr.edu





"Livestock can help stop fires before they start. They can save your life and property by establishing defensible space..."

-CDF Director Richard Wilson

Rustici Endowment: "Quantitative assessment of range use effects on fire behavior" Project Partners: Roxanne Foss, Shane Dewees, Lenya Quinn-Davidson, Jeff Stackhouse, Luke Macaulay

Stratification Variables	Weather Variables	Dependent Variables
Treatment (Biomass)SlopeVegetation Zone	TemperatureRelative humidityWind speed	 Flame height Passing 10m Cover of burned, ash, etc. Rate of spread Surface temperature



Biomass Range (lbs/acre)	Grazing Level	Potential Fire Behavior
>3,500	Ungrazed	Likely flame heights above 4 ft and all biomass is burned
3,500 to 2,500	Ungrazed or very light	Possible flames above 4 ft and majority burned
2,500 to 1,250	Light to moderate	Flames likely below 4 ft and fire will not be stopped
1,250 to 400	Moderate to heavy	Flames below 4 ft and fire may be stopped
<400	Very heavy	Flames below 4 ft and highly likely fire stopped