ACCG Draft Landscape Prioritization Tool

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ACCG Fuels Reduction Project Mapper & Landscape Prioritization Tool Framework



Assets

Objective: Compile and rank high-valued resources and assets (HVRAs) and sub-HVRAs



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PROJECT INVENTORY o Compile completed (w/maintenance status), in-progress and planned fuels reduction or stand structure altering projects within the ACCG landscape into an interactive map (Project Mapper).

 Compile and rank HVRAs (high-valued resources and assets) within the following broad HVRA categories: Communities, Infrastructure, Wildlife/Ecosystems, Economic Assets, and Watersheds.

FIRE RISK

ASSETS

 O Use flame-length class probability and burn probability estimates (USFS R5 FSim outputs) and ranked HVRAs to determine where assets are most at risk within the ACCG landscape (GTR-315, Effects Analysis).

PROJECT PRIORITY LIST

 Locate and prioritize areas for future fuels reduction project work within the ACCG landscape (Prioritization Tool) based on the information gathered above.



Predicted Fire Risk to Assets

Objective: Use flame-length class probability and burn probability estimates (USFS R5 Southern Sierra Nevada FSim outputs) and ranked HVRAs to determine where assets are most at risk within the ACCG landscape (GTR-315, Effects Analysis).



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Effects Analysis



Sub-HVRA cNVC: estimate conditional *NVC* (*cNVC*) for each sub-HVRA as the sum-product of flame-length probability (*FLP*) and response function value (*RF*) over all the six flame-length classes, with a weighting factor adjustments for the relative importance per unit area

		/	Criteria	Response Function (flame length classes)								
	HVRA	Sub-HVRA		FIL 1 (0.1-2 ft)	FIL 2 (2-4 ft)	FIL 3 (4-6 ft)	FIL 4 (6-8 ft)	FIL 5 (8-12 ft)	FIL 6 (12-20ft)	Sub-HVRA Relative Importance (RI)	Relative Extent (RE, # 30- m pixels)	WF (RI/RE)
	Communities	Population Density	Building footprints (# people per 30-m raster pixel)	-5	-5	-15	-50	-80	-100	20	65,192	0.000306786
the part of the second se		Census Populated Places	Census populated places	-5	-5	-15	-50	-80	-100	80	747,252	0.000107059
Filme Longh Added		$cNVC = \sum_{j}^{m} cNVC_{j}$ $eNVC = cNVC * BP$				Tot cN eN	vc :	NVC: S er pix	Sum sub-l el ted NVC i	HVRA cNV s the proc	'Cs for total duct of tota	Ι

5 10 20 Miles

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Priority List

Objective: Locate and prioritize areas for future fuels reduction project work within the ACCG landscape (Prioritization Tool) based on the information gathered above. Perform model validation, including seeking feedback.

