

Holy BAER - Forest Service Values At Risk Tracking Table

High / Very High Risk								
Intermediate Risk								
Low / Very Low Risk								
Category	Life/ Property/ Resources	Value at Risk	Threat to Value at Risk	Probability of Damage or Loss	Magnitude of Consequence	Risk	Treatment	Notes
Special Uses	Life/Property	Trabuco Rec. Res. Tract	Debris flow, landslides, rockfall, flooding, erosion, sedimentation.	Very Likely	Major	Very High	L3. Burned Area Closure; P4. Coordination	Cabins are located in the floodplain of Trabuco Canyon on old debris flow deposits as well as near outlets of steep burned side canyons. Canyons have unstable slopes and high debris flow/flooding potential. Access on Trabuco Canyon road (only cabin access) has a Very High risk rating for human life and safety.
Special Uses	Life/Property	Holy Jim Rec. Res. Tract	Debris flow, flooding, erosion, sedimentation.	Likely	Major	Very High	L3. Burned Area Closure; P4. Coordination	Cabins are located in canyon bottom below burn area. Access on Trabuco Canyon road (only cabin access) has a Very High risk rating for human life and safety.
Special Uses	Property	Utilities: AT&T & SCE	Debris flow, rockfall, flooding, loss of water control, soil erosion, loss of road tread.	Likely	Moderate	High	P4. Coordination	SCE and AT&T have infrastructure located within and downstream of the burn area. FS should coordinate and inform the utilities of post-fire threats that exist in the burn area. FS may need to process SUP requests related to actions by utility companies to protect their infrastructure. Coordinate with utility on worker safety/access.
Special Uses	Life/Resources	Human Life/Water Quality	Access into well/contamination of water quality	Likely	Major	Very High	L3. Burned Area Closure; P4. Coordination	Open well exposed by fire, owned by cabin owner and managed by special use permit. Exhaust special use permit process to cap the well. Apply for interim request if property is abandoned.
NFS Road	Life	Safe travel along Trabuco Road/Access to Trabuco Canyon	Debris flow, rockfall, flooding, erosion, sedimentation.	Very Likely	Major	Very High	L3. Burned Area Closure; P1. Road Signs/Gates	Trabuco Canyon has low-water crossings, is located in the channel bottom and below steep, unstable slopes. There is a very high risk of debris flows/flooding occurring in the canyon that could washout the road. Road is the only access into the canyon. A heavy duty gate is essential to preventing access to the canyon, especially during and before rain events. Installation of road debris warning signs near road entrances.
NFS Road	Property/ Resources	Trabuco Road & Bridge	Debris flow, flooding, sedimentation, erosion, rockfall.	Very Likely	Major	Very High	R1. Storm Inspection/Resp., R2. Road Stormproofing	Stormproofing of road sections in/downstream of moderate and high soil burn severity areas, which includes: Cleaning existing drainage dips, leadout ditches, and berm removal.
NFS Road	Life/Property	Holy Jim Bridge	Debris flow, flooding, erosion.	Possible	Moderate	Intermediate	L3. Burned Area Closure; R2. Road Stormproofing	Removal of trees adjacent to bridge that could act as an obstruction, causing bridge to plug and divert.
NFS Road	Life/Property	Holy Jim Road/Crossings	Debris flow, flooding.	Likely	Major	Very High	L3. Burned Area Closure	Headwaters burned approximately 3/4 miles upstream of low-water crossings. Channel is a very steep, transport system with unstable slopes. Very high risk to life and safety as road is main ingress-egress for Holy Jim Canyon. Low-water crossings will become impassable during design storm.

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NFS Road	Property/Life/ Resources	North Main Divide (3S04) and Indian Truck Trail (5S01)	Rockfall, loss of water control, sedimentation, soil erosion, loss of road tread.	Very Likely	Major	Very High	L3. Burned Area Closure, R1. Storm Inspection/Resp., R2. Road Stormproofing, R3. Road Drainage Structure Replacement, P1. Road Signs/ Gates	Stormproofing of road sections in/downstream of moderate and high soil burn severity areas, which includes: Cleaning existing drainage dips, berm removal, outsloping, installation of rock armored spillways at critical areas, installation of gates, replacement of damaged overside drains, installation of risers, and installation of road debris warning signs near road entrances.
NFS Road	Life	Safety on El Cariso Road	Rockfall, (loss of water control, sedimentation, soil erosion, loss of road tread).	Possible	Major	High	P1. Road Signs	Temporary road on NFS land. Signs to protect life and safety during travel on road.
Recreation	Life and Safety	Human Life and Safety in the burn scar	Debris flow, rockfall, hazard trees, stump holes, unstable lands, flash flooding.	Very Likely	Major	Very High	L3. Burned Area Closure; P1. Road Signs/Gates; P2. Trail Hazard Signs	Current closure order in place (Order NO. -----) the closure expires ----- . In order to protect life and safety, it is recommended the the burned area closure apply to all forest-users and recreation residences. Access to utilities should be timed to avoid the burn area and low-lying areas below the burn area when storms are forecasted.
Recreation	Resources	Hydrologic Function, spread of invasive weeds, soil productivity, vegetative recovery	Human traffic by foot, motorized/non-motorized travel	Likely	Major	Very High	L3. Burned Area Closure; L5. OHV Trespass Prevention; P1. Road Signs/Gates; P2. Trail Hazard Signs	Current closure order in place (Order NO. -----) the closure expires ----- . The Cleveland National Forest has experienced unauthoroized OHV trespass in burned areas after previous fires. In order to prevent long term damage to resources that may prolong recovery rates and spread weeds, prevention patrols would be used to enforce the closure in lieu of installing miles of barrier. Should patrols prove to be ineffective, the CNF will re-evaluate access points and submit an interim request.
Recreation	Life/Property	E&W Horsethief Trail, Trabuco Trail	Debris flow, rockfall, flooding. Loss of water control, soil erosion, loss of trail tread.	Very Likely	Major	Very High	L3. Burned Area Closure; T1. Trail Stabilization; P2. Trail Hazard Signs	Total of 7.6 miles for stabilization treatments. Trails are located on a combination of ridges, valleys, and sideslopes on and below rocky steep cliffs. Closure/signs address safety. Trail work will help protect investment of the trail and reduce erosion. Trailheads are located within the burn area. Work will be timed to avoid the burn area when storms are forecasted.
Recreation	Property	Los Pinos Trail	Loss of water control, soil erosion, loss of trail tread	Possible	Minor	Low	No Treatment	Located on ridge top on the edge of the burn.

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Recreation	Life/Property	Holy Jim Waterfall Trail	Debris flow, flooding, erosion.	Very Likely	Major	Very High	L3. Burned Area Closure; P2. Trail Hazard Signs.	Much of the Holy Jim Trail is located outside the burn area; however, there are sections in the stream channel downstream of the burn and the trail can be used to access the burned area. There is access to the trail from Trabuco Canyon, which has a Very High risk rating for human life and safety, and off North Main Divide in the unburned part of the forest. Sections of the trail are adjacent to and cross the creek, which has a Very High Risk of flooding and debris flows.
Recreation	Life/Property	Trabuco Canyon Recreation sites.	Debris flow, landslides, rockfall, flooding, erosion.	Very Likely	Major	Very High	L3. Burned Area Closure; T1. Trail Stabilization; P2. Trail Hazard Signs	Some dispersed and developed recreation sites are located downstream and in the burn area along Trabuco Creek. Areas along the channel (even outside the burn area) are subject to debris flow runout and flooding. Access to the sites is via Trabuco Canyon road, which has a Very High risk rating for human life and safety.
Hazardous Material	Life	Human Safety	Open addit(s)/mines	Possible	Moderate	Intermediate	L3. Burned Area Closure; P4. Coordination	Addits have been exposed through removal of vegetation. Forest closure will prevent the public from accessing sites. Monitor closure. If addits are being accessed, re-assess for bats and potential foam closure with interim request. Interagency coordination with landowner of Old Dominion mine (could be open, road is now accessible). Upper mine entrance of Yaeger Mine has existing bat gate.
Hazardous Material	Life/Resources	Human Life/Safety/ Water quality	Exposure to and transport of Hazardous Material from burned cabins and associated infrastructure	Very Likely	Major	Very High	L3. Burned Area Closure; P3. Hazmat Stabilization; P4. Coordination	Closure to prevent exposure of general public to hazardous material. Stabilization treatments to prevent mobilization of material off-site. Interagency coordination to process SUP requests to clean-up material.
Watershed	Resources	Hydrologic Function	Riparian Recovery	Very Likely	Moderate	Very High	L3. Burned Area Closure, L4. Natural Recovery	Other treatments proposed will prevent further degradation of the watershed. There will be loss of stream stability due to burned riparian vegetation, increased runoff, bulking in channel, impacts from debris flows, loss of riparian buffer and increased sediment and nutrient loading, loss of infiltration capacity from burned soils and loss of roughness and surface soil protection from vegetation canopy and litter. Other treatments proposed will prevent further degradation of the watershed related to infrastructure and human impacts.

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Watershed	Resources	Soil productivity	Erosion on low productivity soils	Likely	Moderate	High	L3. Burned Area Closure, L4. Natural Recovery	There will be loss of soil productivity and increased erosion in areas with moderate and high soil burn severity. Lack of groundcover, loss of soil structure and fine roots, hydrophobicity, and steep terrain will contribute to increased soil loss and erosion. Terrain is too steep to treat with slope treatments. Other treatments like closure will mitigate further degradation of the watershed related to infrastructure and human impacts.
Watershed	Resources	Soil productivity and water quality near Coldwater Creek Trail.	Loss of water control, soil erosion on Coldwater Creek trail.	Unlikely	Minor	Very Low	No Treatment	No use on this trail. Historic property. No tread left.
Botany/Weeds	Resources	Native Plant Recovery/Soil Productivity in suppression areas	Invasive species, OHV incursion	Very Likely	Moderate	Very High	L1. Invasive plant detection and eradication related to suppression; L5. OHV Trespass Prevention	Initial attack on the incident did not require washing of equipment and could have introduced weeds into disturbed areas. Most of the burn area lacks known weed infestations. It is common on the CNF for OHV trespass to occur on dozer lines and in burn areas. Treatment will allow for prevention of rapid spread of weeds.
Botany/Weeds	Resources	Native Plant Recovery/Soil Productivity in riparian areas	Invasive species	Very Likely	Moderate	Very High	L2. Invasive plant detection and eradication in Riparian Areas	Tamarisk responds aggressively to fire and populations can replace riparian vegetation/habitat. CNF has observed rapid spread of tamarisk into areas that previously had no known occurrences or sparse populations prior to fire. Treatment will help prevent spread of weeds into sensitive native habitats.
Wildlife	Resources	Theatened California Gnatcatcher Suitable Habitat	Loss of habitat	Very Likely	Moderate	Very High	L3. Burned Area Closure; L4. Natural Recovery	Closure of burned area will allow natural recovery.
Heritage	Resources	Historic Road ODM	OHV trespass	Possible	Moderate	Intermediate	L3. Burned Area Closure; L5. OHV Trespass Prevention	
Heritage	Resources	Historic Property: Lithic Scatter	Erosion, debris flow, flooding, sedimentation.	Likely	Moderate	High	L6. Historic Properties Protection	Erosion control (sand bags) around site to deflect sheet erosion and mobilization off-site. Monitor treatment for effectiveness.
Heritage	Resources	Historic Cabins in Holy Jim and Trabuco Canyons	Erosion, debris flow, flooding, sedimentation.	Very Likely	Major	Very High	P4. Coordination	Interagency coordination to process SUP request for installation of protection measures. Detailed photo documentation of three cabins eligible in NRHP that have a very high likelihood of loss or major damage.
Heritage	Resources	Trabuco Rd Features	Erosion, debris flow, flooding, sedimentation.	Likely	Major	Very High	R2. Road Stormproofing	Road stormproofing near the site will redirect potential flooding/flow away from features. Monitoring treatments to maintain effectiveness.

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Heritage	Resources	Trabuco Guard Station	Erosion, debris flow, flooding, sedimentation.	Likely	Moderate	High	R2. Road Stormproofing	Road stormproofing near the site will redirect potential flooding/flow away from features. Monitoring treatments to maintain effectiveness.
Heritage	Resources	Historic Properties	Sheet erosion	Unlikely	Moderate	Low	No Treatment	Sites visited don't require any BAER treatments.