

<h1>Risk Assessment Worksheet</h1>	1. Project/Incident/Work Activity: Trail Work	2. Location: Arapaho/Roosevelt NF
3. Specific Objective: Trail Construction/Maintenance	4. Name and Title of Preparer: Lyle Skaar Recreation Management Specialist	5. Date Prepared: Wednesday, March 6, 2024
6. Risk Decision Authority: The risk decision authority block should be signed after the worksheet is completed. Use the Risk Decision Authority matrix to determine the authorization required to sign in block 6.		
Signature: /s Lyle Skaar	Title: Recreation Management Specialist	Date: 03/18/2024

Identify Hazards		Assess Hazards			Risk Control Options	Residual Risk			Decision	Implement
7. Task	8. Hazard	9. Hazard Probability	10. Severity / Consequence	11. RAC	12. Identify hazard mitigations & abatement measures (press [alt + enter] to add a line)	13. Hazard Probability	14. Severity / Consequence	15. RAC	16. Task Necessary?	17. Hazard Control Assigned to:
Individual Movement Through Project Area	Slips, Trips, and Falls	Likely	Moderate	High	Maintain situational awareness Utilize appropriate field gear - boots, gloves, hardhats, other necessary PPE Avoid running, especially down slopes Have a first aid kit available in each vehicle and on each person	Possible	Moderate	Moderate	YES	Any individual on the project
Individual Movement Through Project Area	Fatigue/Exhaustion	Possible	Critical	High	Carry water and frequently take drinks Prevent overexertion when moving through difficult terrain Take breaks when necessary	Possible	Moderate	Moderate	YES	Any individual on the project
Individual Movement Through Project Area	Loss of communication	Possible	Critical	High	Follow district check-in / check-out policy. Maintain radio contact with others. Take a radio with fresh battery and a spare Take a SPOT device, Use in accordance with District Protocols. Have a written Emergency Action / Evacuation Plan and review with each employee on the work site. Conduct tailgate safety sessions weekly or when project conditions change	Unlikely	Critical	Moderate	YES	Any individual on the project
Working Outdoors	Heat and Cold Related Illness	Possible	Critical	High	<b>Heat Stress</b> take frequent breaks in the shade, hydrate properly, take care not to overexert, remove layers of clothing when necessary, cease work immediately if heat exhaustion is suspected to prevent heat stroke <b>Cold Extremes</b> bring adequate clothing, remove layers when heating up and put them on when cooling down, wear moisture wicking clothing, avoid cotton clothing, bring plenty of food and eat throughout the day, cease work and find shelter if hypothermia is suspected	Unlikely	Critical	Moderate	YES	Any individual on the project
Working Outdoors	Plant Hazards	Unlikely	Moderate	Low	Be familiar with irritating plants IE poison ivy Wear clothing that covers skin, wash if this clothing comes into contact with toxic plants Don't touch eyes, nose, or mouth with contaminated skin or clothing	Rare	Negligible	Low	YES	Any individual on the project
Working Outdoors	Insect/Spider Hazards	Possible	Moderate	Moderate	Use diethylmetaoamide (DEET) in areas with high numbers of problematic insects IE mosquitos Wear long sleeve shirts and pants to cover exposed skin <b>Ticks</b> Remove ticks carefully according to first aid training, take offending ticks back in a plastic bag if disease transmission is suspected <b>Spiders</b> Be familiar with potentially dangerous local spiders <b>Bees and Wasps</b> Alert supervisors if you are allergic to bee/wasp stings, always carry an epinephrine pen in this case Watch for signs of allergic reaction	Unlikely	Negligible	Low	YES	Any individual on the project
Working Outdoors	Animal Hazards	Unlikely	Critical	Moderate	Avoid animals behaving in a hostile or unusual manner Don't place animals in a defensive position Carry bear spray in areas with high potential of interaction with bears or mountain lions <b>Black Bears</b> Know how to identify the signs of bears Use caution storing food during overnight when camping Be familiar with bear avoidance techniques Know to respond during a bear attack <b>Mountain Lions</b> Give the lion a way to escape Stop and back away slowly Talk calmly but firmly Try to appear larger by raising arms Fight back if attacked	Rare	Moderate	Low	YES	Any individual on the project

Working Outdoors	Eye Injuries	Possible	Moderate	Moderate	Be aware of your surroundings, especially of plants and tree limbs at eye level Use eye protection Sunglasses are recommended to prevent UV damage	Possible	Moderate	Moderate	YES	Any individual on the project
Trail Maintenance, Construction, & Reconstruction	Aerial hazards	Possible	Critical	High	PPE (Proper boots with 6-8" lug soled vibram soles, clothing, eye protection, hardhat, gloves, earplugs, etc. – applies to all hazard categories). Always park vehicles in a safe zone. Avoid visibly hazardous or weakened trees (walk on upwind side, relocate travel path, 2 ½ lengths +). Inspect trees/stand for damage before working/moving thru area. In pre-work briefing, discuss specific hazards for work to be performed. Resource knowledge, skill, experience (partner up if possible). Within Work Area: Identify –safe zones (LCES). Create safe zones prior to engaging in projects where extended exposure to aerial hazards is required. Perform work when weather conditions are favorable, plan work early before wind changes in afternoon. Minimize pass through trips and time of exposure in field. Education of environment/Situational Awareness. Minimize exposure to hazards with good preparation and planning. Work in smaller groups if possible, separate crews along the trail and do not “leap-frog” crews (less exposure). Stage equipment and take work breaks in identified safety zones.	Unlikely	Critical	Moderate	YES	All Personnel
Trail Maintenance, Construction, & Reconstruction	Terrain	Likely	Moderate	High	Assess footing (slope steepness, wet, snow, dead-down, stumps, tripping hazards) before beginning work. Scout for hazards. Use personnel appropriate for the terrain. Wear appropriate footwear for terrain.	Possible	Moderate	Moderate	YES	All Personnel
Trail Maintenance, Construction, & Reconstruction	Adverse/Changing Weather Wind, precipitation	Likely	Moderate	High	Plan activity based on current/predicted weather. Dress appropriately for conditions using layers/water-proof gear, etc. Monitor weather during and throughout assignment (especially wind speeds and direction) and change work accordingly. Plan activity on best time of day (weather wise) and change work accordingly. Avoid working/travelling in high-elevations and radio-use during lightning events.	Possible	Moderate	Moderate	YES	All Personnel
Trail Maintenance, Construction, & Reconstruction	Human Factors	Likely	Moderate	High	Avoid over-fatigue, take regular breaks. Maintain hydration/nutrition. Assess mental and physical condition of employees and assign work appropriately. Use properly trained/certified personnel for the assigned work. Have a good safety briefing and discussion including a review of appropriate RA's. Administrative control (hrs worked, work in pairs, etc).	Possible	Moderate	Moderate	YES	All Personnel
Trail Maintenance, Construction, & Reconstruction	Weakened tree/stand	Possible	Critical	High	Awareness of stand conditions ( stand type, age class, etc.) Identify and avoid trees with broken tops, widow makers, root rot, thinned tops, root exposure, fire damage, equipment damage etc. Situational awareness of surrounding environment. Resource knowledge, skill, experience (partner up if possible). Wear hard hat and proper PPE for duration of project work in the forest	Unlikely	Critical	Moderate	YES	All Personnel
Trail Maintenance, Construction, & Reconstruction	Public Encounters	Possible	Moderate	Moderate	Post lookouts on trails during felling or other potentially hazardous activities to restrict access to work area. Be attentive to forest users and their locations. Post lookouts to contact and educate the public on trails activities/work taking place. Establish trail closures and/or detours when trail work poses risks to public. Use signs, posters, and public notices to inform the public of upcoming or ongoing trail work in the area.	Unlikely	Moderate	Low	YES	All Personnel

Trail Maintenance, Construction, & Reconstruction	Use of Handtools	Possible	Moderate	<b>Moderate</b>	Carry tools in a safe manner, keeping a safe distance between workers (approximately 10 feet), check tools periodically for possible damage (i.e. loose heads and handle damage), never swing tools over your head, communicate when passing others working, be properly trained and familiar with the tool(s) you are using. Place tools and equipment not in operation a safe area from the immediate work area.	Unlikely	Moderate	<b>Low</b>	YES	All Personnel
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