JHA # 6

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U.S. Department of Agriculture Forest Service #6		1. WORK PROJECT/ACTIVITY Dragging and stacking brush		2. LOCATION Green Mountain and Finger Lakes National Forests	3. UNIT All	
JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 (Instructions on Reverse)		4. NAME OF ANALYST Sue Staats		5. JOB TITLE Fish & Wildlife Technician	6. DATE PREPARED 04/12/2021	
7. TASKS/PROCEDURES (List them in the order they will occur)	8. HAZARDS What will happen and to whom under what circumstances?		9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls (state if you considered these) Training * PPE Be specific – who needs to do what?			
Provide training Working near chainsaws, and/or with hand tools.	Lack of training/or to personal injury Improper use of to and lack of trainin injuries.	rientation leads ols, lack of PPE g can lead to	 Project supervisor shall ensure that all workers stacking brush are trained/oriented on the hazar outlined below. Project/activity supervisor shall ensure that all v communicate unanticipated hazards not listed b Repeat training whenever a new employee or ve work or when site conditions or work processes The general <i>Guide to Working Safely Outdoor</i> assesses the hazards and abatement actions driving; exposure to temperature and weath exposure to ticks and other animal and plant public contacts. Personnel shall be familiar v do not repeat it here. Wear long sleeved shirts and long pants. Follow JHA for using chainsaws. All workers must wear the following PPE: ANSI approved hard hat or chainsaw har Ear muffs with properly inserted formab Safety glasses meeting current ANSI star 		olved in dragging and and abatement actions kers be alert to and w. nteer begins this type of ange. n the GMFL (JHA #0) these work activities: extremes; walking; reats; and making safe n this information, but	
Planning work to be done and specific locations of work within the site.	Lack of communic areas of saw work injuries.	cation about can lead to	Be aware of le communication determine where the second seco	ocation(s) of sawyer(s) at all times. If on with sawyer(s) to plan where cuttingere and how high to build brush piles	Keep in ng areas will be and to	
Dragging brush	Ish Tripping on stubs or other obstacles or slipping on slick ground can result in a fall that can		• Watch out for can trip. Wat Many of these	Watch out for stumps, rocks, branches and uneven terrain on which you can trip. Watch out for wet terrain or debris on which you can slip. Many of these types of hazards are covered by tall vegetation and are		

	wrist, face, arms, legs, ankles.	•	 hazards. Use same path repeatedly while maintaining awareness of the hazards; keep path clear. Designate area where you plan to make brush piles so that you reduce dragging distance. Avoid dragging and tossing pieces of brush or small diameter trees that are more than 50 lbs total weight – less if you do not do this type of work regularly. Be mindful of how much weight you can normally lift or drag.
Stacking brush	This type of work poses ergonomic risk factors with an elevated risk of muscle and joint injuries. Lifting heavy branches or chunks of wood, especially while twisting, can cause permanent and debilitating injury to your spinal discs that will limit your ability to work or do other life functions. Creating brush piles requires moving branches, twigs and stems of various sizes; handling these can cause damage to your eyes and face.	•	 People doing this kind of work should be fit for the work. This may require an active shoulder, arm and back strengthening program for 8 to 10 weeks in advance of the work to avoid joint and muscle injuries. Alternatively, adjust initial output expectations to allow strengthening to happen OJT. When lifting blocks of wood or chunks of stem and bole, use proper lifting techniques to avoid strains; lift with your legs. Cutting brush into smaller, manageable lengths can help avoid strains. If possible, begin a physical strengthening program at least 8 weeks prior to beginning brush work. Focus especially on upper and lower back, abdominal, and wrist, arm, shoulder, knee, ankle strength. When lifting, spread feet 2 to 2½ times wider than hips with toes turned outward. Bend knees to reach object but always keep an inward arch in your low back (maintain neutral spine position). Keeping the load close to your body, lift your chin and lift the load straight up like an elevator with your legs. Lower the load using the same technique. When lifting, <i>never let your low back round out</i>. For long pieces of wood, raise one end up and with the lower end resting on the ground between your feet in the same position as described in #2. Tilt the upper end away from you, grab the bottom end with the other hand, raise your chin, keep the inward arch in your low back and lift straight up with your legs like an elevator. Do not rotate torso or knees while carrying a load. Take a step to make a turn Avoid twisting. Avoid throwing brush without setting your legs. Do not twist your back at the end of a throw.

break your bones especially in your

therefore not easy to see. Cut stumps low to the ground to remove

7. Work slowly to prevent crushing hands and feet.

		 8. Wear heavy duty gloves and eye protection. 9. Know and do not exceed your personal ability for lifting and
		tossing – it may be less than 50 lbs. Be mindful of how much
		weight you can normally lift, drag, or throw.
		• Drag brush close to pile to avoid overextending while stacking.
		• Make sure all the brush is cut into manageable size pieces before
		stacking, including cutting widely branched limbs and stems into narrow
		pieces.
		• Make several smaller piles as opposed to one tall pile, making sure the heights of the brush piles do not exceed Forest S&G's.
Emergency response	Lack of emergency response plan	Provide the following information to all crew members and document on
	causes delays in obtaining	tailgate safety meeting form. Share with all project participants:
	emergency medical treatment	1. Means of communication (radio, cell, satellite)
		2. Primary contacts (rescue squad, F.S. dispatcher, relay person)
		3. Travel routes for emergency responders
		4. Location of closest medical facilities
		5. How to contact them (phone #s)
		Keep a two-way radio or cell phone available in case of an emergency and a
		fully stocked crew type first aid kit on site.
		Be able to describe crew location to emergency medical responders.
		Contact them prior to starting work in case directions are difficult to give to an E-911 operator.
		All crew members should have access to a map and directions to the nearest
		medical facility and the location of the crew vehicle keys. Do not attempt to
		transport someone with serious injuries. Call emergency responder for this
		kind of transport.
10. LINE OFFICER SIGNATURE		11. TITLE 12. DATE
		Forest Supervisor
		John A. Sinclair

JHA Instructions (References-FSH 6709.11 and .12)	Emergency Evacuation Instructions (Reference FSH 6709.11)		
The JHA shall identify the location of the work project or activity, the name of employee(s) involved in the process, the date(s) of acknowledgment, and the name of the appropriate line officer approving the JHA. The line officer acknowledges that employees have read and understand the contents, have received the required training, and are qualified to perform the work project or activity.	Work supervisors and crew members are responsible for developing and discussing field emergency evacuation procedures (EEP) and alternatives in the event a person(s) becomes seriously ill or injured at the worksite.		
Blocks 1, 2, 3, 4, 5, and 6: Self-explanatory.	Be prepared to provide the following information:		
Block 7: Identify all tasks and procedures associated with the work project or activity that have potential to cause injury or illness to personnel and damage to property or material. Include emergency evacuation procedures (EEP).	 a. Nature of the accident or injury (avoid using victim's name). b. Type of assistance needed, if any (ground, air, or water evacuation). c. Location of accident or injury, best access route into the worksite (road name/number), identifiable ground/air landmarks. d. Radio frequencies. 		
Block 8: Identify all known or suspect hazards associated with each respective task/procedure listed in block 7. For example:	e. Contact person.f. Local hazards to ground vehicles or aviation.		
a. Research past accidents/incidents.	g. Weather conditions (wind speed & direction, visibility, temperature).		
b. Research the Health and Safety Code, FSH 6709.11 or other appropriate literature.	i. Number of individuals to be transported.		
c. Discuss the work project/activity with participants.	j. Estimated weight of individuals for air/water evacuation.		
d. Observe the work project/activity.	The items listed above serve only as guidelines for the development of emergency evacuation		
e. A combination of the above.	procedures.		
 Block 9: Identify appropriate actions to reduce or eliminate the hazards identified in block 8. Abatement measures listed below are in the order of the preferred abatement method: a. Engineering Controls (the most desirable method of abatement). For example, ergonomically designed tools, equipment, and furniture. b. Substitution. For example, switching to high flash point, non-toxic solvents. c. Administrative Controls. For example, limiting exposure by reducing the work schedule; establishing appropriate procedures and practices. 	JHA and Emergency Evacuation Procedures Acknowledgment We, the undersigned work leader and crew members, acknowledge participation in the development of this JHA (as applicable) and accompanying emergency evacuation procedures. We have thoroughly discussed and understand the provisions of each of these documents: SIGNATURE DATE SIGNATURE DATE		
 d. PPE (least desirable method of abatement). For example, using hearing protection when working with or close to portable machines (chain saws, rock drills, and portable water pumps). e. A combination of the above. 			
Block IU: The JHA must be reviewed and approved by a line officer. Attach a copy of the JHA as justification for purchase orders when procuring PPE.			
Blocks 11 and 12: Self-explanatory.			

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SIGNATURE DATE	SIGNATURE DATE	SIGNATURE DATE	SIGNATURE DATE