

U.S. Department of Agriculture Forest Service	1. WORK PROJECT/ACTIVITY FOOT TRAVEL	2. LOCATION Emigrant, Carson-Iceberg, Mokelumne Wilderness	3. UNIT Stanislaus NF
JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 (Instructions on Reverse)	4. NAME OF ANALYST Updated by Joel Silverman	5. JOB TITLE Wilderness Manager	6. DATE PREPARED 3/14/2019
7. TASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE	
FOOT TRAVEL - WILDERNESS	FALLS, SPRAINS, OR STRAINS FROM WALKING ON UNEVEN OR SLIPPERY SURFACES	WEAR 6" HIGH BOOTS WITH NON-SKID SOLES. BE AWARE OF ROCKS AND LOGS THAT CAN SHIFT SUDDENLY. TAKE YOUR TIME AND WALK CAREFULLY. DO NOT CARRY MORE WEIGHT THAN YOU CAN HANDLE. SELECT A SAFE ROUTE WHEN TRAVELLING OFF-TRAIL. CHECK YOUR FOOTING FOR STABILITY BEFORE COMMITTING YOUR FULL WEIGHT WHEN CARRYING HEAVY LOADS. CONSIDER USE OF TREKKING POLES.	
	CUTS, SCRATCHES, BLISTERS, AND BRUISES	BE CAREFUL WHERE YOU WALK. WHEN TRAVELLING OFF TRAIL, WEAR LONG PANTS AND A LONG SLEEVE SHIRT. WEAR BOOTS THAT ARE IN GOOD CONDITION AND ALREADY BROKEN IN. HAVE FIRST AID KIT AVAILABLE. TREAT HOTSPOTS ON FEET PROMPTLY BEFORE BLISTERS FORM.	
	HEAT EXHAUSTION, HEAT STROKE, AND SUNBURN	WEAR SUNSCREEN AND HAT FOR HIKING. DRINK LOTS OF WATER AND KNOW YOUR OWN LIMITATIONS. MAINTAIN FOOD INTAKE. BE AWARE OF THE SIGNS AND SYMPTOMS OF EXHAUSTION, AND WATCH ALL MEMBERS OF YOUR GROUP. TAKE BREAKS IN THE SHADE.	
	HYPOTHERMIA / FROSTBITE	KEEP WARM CLOTHES AND RAIN JACKET AVAILABLE. COLD MOUNTAIN STORMS CAN SET IN AT ANY TIME. BE AWARE OF CURRENT AND FUTURE WEATHER CONDITIONS. ALSO HAVE RADIO, FIRE STARTER AND FIRST AID KIT AVAILABLE.	
	LIGHTNING	MAKE A PLAN OF WHERE TO TAKE REFUGE AT FIRST SIGNS OF T-STORM. STAY AWAY FROM OPEN EXPOSED AREAS AND TALL TREES DURING A LIGHTNING STORM. KEEP RADIO OFF AND SEEK REFUGE UNDER SHORTER BRUSH OR TREES AND CROUCH WITH ONLY FEET TOUCHING THE GROUND. AVOID BEING THE TALLEST OBJECT IN THE VICINITY. STAY SPACED APART FROM OTHERS IN YOUR GROUP BUT CLOSE ENOUGH TO MAINTAIN VERBAL COMMUNICATION	
	INSECT STINGS & ANIMAL BITES	USE INSECT REPELLENT AS NEEDED, AND HAVE FIRST AID KIT AND RADIO AVAILABLE. WEAR LONG PANTS AND SHIRTS. STAY AWAY FROM ANIMALS. IF ALLERGIC TO CERTAIN INSECTS, KEEP ALLERGY KIT ON HAND, INCLUDING EPINEPHRINE IF PRESCRIBED. INFORM SUPERVISOR OF ALLERGIES, ESPECIALLY ANAPHALAXIS.	
	GETTING LOST	KNOW HOW TO USE A MAP, COMPASS AND GPS. USE MAP TO MAINTAIN AWARENESS OF WHERE YOU ARE AT ALL TIMES AND LOOK AROUND FOR LANDMARKS AS YOU TRAVEL. IF YOU GET LOST, BE CALM, STAY WHERE YOU ARE AND USE RADIO TO CALL FOR HELP.	

	POISON OAK	WHEN WORKING IN AREAS WITH POISON OAK WEAR LONG SLEEVES, LONG PANTS WITH CUFFS SECURED OVER BOOTS, CONSIDER A SKIN PROTECTIVE BARRIER MEDICATION/CREAM OR LOTION, AND WEAR GLOVES. DO NOT TOUCH FACE, HAIR OR EXPOSED SKIN WITH YOUR GLOVES OR CLOTHING THAT MAY HAVE MADE CONTACT WITH THE PLANTS. WHENEVER SKIN CONTACTS POISON OAK, WASH THE SKIN AS SOON AS POSSIBLE WITH SOAP AND COLD WATER. DO NOT USE HOT WATER. USE LIBERAL AMOUNTS OF WATER TO RINSE ALL OILS AWAY.	
	HAZARD TREES	BE AWARE OF SNAGS, HANGING LIMBS, OR DAMAGED TREES THAT COULD FALL UNEXPECTEDLY. PAY ATTENTION (LOOK UP AND LOOK AROUND), PARTICULARLY ON WINDY DAYS (ALTHOUGH TREES DO FALL UNEXPECTEDLY UNDER CALM CONDITIONS). AVOID STOPPING, AND WHEN POSSIBLE AVOID WALKING UNDER DEAD TREES (SNAGS), DYING OR DAMAGED TREES. THIS MIGHT INCLUDE LIVING TREES WHICH SHOW CRACKS OR SPLITS; TREES WHICH EXHIBIT INSECT INFESTATION; LIGHTNING-STRUCK TREES; BURNED TREES; TREES WHICH HAVE SUFFERED OBVIOUS DAMAGE TO THE ROOT SYSTEM OR TRUNK; AND TREES WHICH SHOW SIGNS OF ROT.	
10. LINE OFFICER SIGNATURE <i>Farah Falt</i>		11. TITLE District Ranger	12. DATE 4.10.19

Previous edition is obsolete

(over)

JHA Instructions (References-FSH 6709.11 and .12)

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.

Blocks 1, 2, 3, 4, 5, and 6: Self-explanatory.

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).

Block 8: Identify all known or suspect hazards associated with each respective task/procedure listed in block 7. For example:

- a. Research past accidents/incidents.
- b. Research the Health and Safety Code, FSH 6709.11 or other appropriate literature.
- c. Discuss the work project/activity with participants.
- d. Observe the work project/activity.
- e. A combination of the above.

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.
- 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 10: 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.

Emergency Evacuation Instructions (Reference FSH 6709.11)

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.

Be prepared to provide the following information:

- 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.
- e. Contact person.
- f. Local hazards to ground vehicles or aviation.
- g. Weather conditions (wind speed & direction, visibility, temperature).
- h. Topography.
- i. Number of individuals to be transported.
- j. Estimated weight of individuals for air/water evacuation.

The items listed above serve only as guidelines for the development of emergency evacuation procedures.

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
