 <p>U.S. Department of Agriculture Forest Service</p> <p>JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 (Instructions on Reverse)</p>	<p>1. WORK PROJECT/ACTIVITY General Clearing and Brush Saw Use</p>	<p>2. LOCATION Los Padres National Forest</p>	<p>3. UNIT MRD/SLRD/MPRD SBRD/ORD</p>
<p>7. TASKS/PROCEDURES</p>	<p>4. NAME OF ANALYSTS Multiple</p>	<p>5. JOB TITLE Multiple</p>	<p>6. DATE PREPARED 12/18/2018</p>
<p>Training Requirements</p>	<p>8. HAZARDS Personal Injury</p>	<p>9. ABATEMENT ACTIONS Engineering Controls • Substitution • Administrative Controls • PPE</p> <ul style="list-style-type: none"> • Brush saw operator trainees must be under the supervision of an experienced sawyer. They will not work on their own until the leader is satisfied that the trainee has demonstrated safe and proficient use of the machine. • Additional individuals besides the saw operator may be allowed to remove cut brush if under the supervision of an experienced sawyer. • When approaching an engaged sawyer, gain the sawyer's attention by tossing a stick or pebble as the sawyer cannot see or hear approaching people. Be aware that brush sawyers often respond by swinging the boom of the saw into the direction of the person calling them. The primary danger is to the swamper, not the sawyer. • Operators must wear a Forest Service approved hardhat, wrap around safety glasses, hearing protection, protective boots with a good grip and ankle support, long sleeved shirt, and protective gloves. Chaps and protective faceshield are optional to additionally protect the operator from any expected flying debris. 	
<p>Swampers</p> <p>Personal Protective Equipment (PPE)</p>	<p>Personal Injury</p> <p>Cuts, hearing loss, eye injuries, burns</p>		

<p>Equipment</p>	<p>Injury, damage to equipment or adjacent resources</p>	<ul style="list-style-type: none"> • Ensure the saw is in proper working order. Check and replace air filter if dirty. The blade should not rotate at idle. • Ensure saw blade is properly secured. • Inspect blade frequently to ensure there are no missing carbide teeth and that it is free of cracks and resin.
<p>Pre-work briefing/tailgate safety session</p>	<p>Personal injury due to lack of preparation</p>	<ul style="list-style-type: none"> • Brief crew members on work assignment and objectives • Ensure required PPE is being utilized • Review applicable JHAs, hazard indicators and mitigation measures including lookouts, communications procedures and escape routes. • Review the plan that would be executed in the event of a serious employee illness/injury that would require medical evacuation. • Ensure that a minimum of a type IV First Aid Kit is available at the worksite.
<p>Transporting saws</p>	<p>Fire, damage to equipment and personal injury</p>	<ul style="list-style-type: none"> • Blade will be removed during transportation. • Saws should be secured in compartments away from people in a manner that will minimize shifting to prevent damage to the saw and apparatus
<p>Walking with a clearing saw</p>	<p>Cuts, falls, sprains and strains</p>	<ul style="list-style-type: none"> • For longer distances, clearing saws should be carried with the blade removed, saw either attached to the harness or over the shoulder. • For short distances, the saw can be carried supported by the harness with the engine running, but the blade not rotating.
<p>Size up</p>	<p>Head injury, cuts, falling and slipping</p>	<ul style="list-style-type: none"> • Ensure that area is clear of crew members before cutting a limb

Starting procedure





Loss of control, cuts

- Clear the work area of hazards and obstructions
- Be alert for environmental conditions that could increase risk (strong/gusty winds, steep slopes, wet ground, insects, snakes, etc.)

Brushing procedure

Kickback and losing control of the saw, eye injury, cuts

- Maintain a firm grip on the saw at all times
- Start the saw with the blade away from the ground, rocks and other debris
- Sawyers and swampers should be at the head of the line. Tread workers and loppers should follow behind.
- Sawyers and swampers will wear safety glasses to protect against flying objects. Handling cut brush can also result in eye injury.
- Swampers and others will not work within 30' of a clearing saw to avoid wood chips and rock fragments.
- Swampers/lookouts will halt hikers and stock until it is safe to pass.
- While brushing, the sawyer should always keep one foot on the trail tread to avoid slipping and losing control of the saw.
- Avoid using the saw from the 12 to 3 o'clock position in order to avoid kickback from the blade. Where obstructions may cause kickback, use the 8 to 11 o'clock section.
- Swampers will endeavor to place cut brush out of sight of the trail.
- Change the blade when it becomes dull or damaged (about 2 or 3 times a day on average)
- No brushing operations will be conducted at night or in conditions of low visibility.

Working in a Group	Struck by limbs, head injury	<ul style="list-style-type: none"> Space volunteers so that the activities of one will not create a hazard for another. Beware of kickback potential from other logs, branches or rocks immediately behind the area where you are brushing or limbing.
Limbing	Cuts, injury from limbs whipping back	<ul style="list-style-type: none"> Watch for limbs under tension, and be aware of kickback and blade pinch. Know where the edge of your blade is at all times.
Traffic control	Injury to public	<ul style="list-style-type: none"> When brushing, ensure trail lookouts are in place to halt hikers and stock until it is safe to pass.
Fueling the Saw	Burns, possible fire	<ul style="list-style-type: none"> Allow the clearing saw to cool for at least 5 minutes before refueling. Refuel outdoors and at least 20 feet from an open flame or other source of ignition. Fill the tank on bare ground or other noncombustible surface. Use a funnel. Immediately clean up spilled fuel. Start the saw at least 10 feet from the fueling area.
10. LINE OFFICERS' SIGNATURES	11. TITLE	12. DATE
	District Ranger, Santa Barbara District	4/19/15
	District Ranger, Mount Pinos District	3/13/19 ↓
	District Ranger, Santa Lucia District	4-9-19
	District Ranger, Monterey District	

