Appendix 17 - GMTL Sa.	iety and Occupan	onai Heann Fian		JIIA #19	TG (500 5 (44)00)	
Forest Service #19		pen and to whom? Engineering Co		2. LOCATION Green Mountain and Finger Lakes National Forests 5. JOB TITLE Forester	FS-6700-7 (11/99) 3. UNIT All 6. DATE PREPARED 04/12/2021	
				9. ABATEMENT ACTIONS Controls * Substitution * Administrative Controls (state if you considered these) Training * PPE		
			Engineering Controls * Substitution * Administrative Controls (state if you considered these)		ire Power Saws S-212 g Course. Training wyers must maintain ficiency levels at the A, once every three (3) s doing this activity are at actions outlined s be alert to and below. volunteer begins this orocesses change. on the GMFL assesses ctivities to which all	
Pre-Work Meeting with crew	Sawyers can be injured if they are improperly prepared or briefed on the jobsite prior to beginning work.		All participants have PPE required. Forest Service approved hard			

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ippelidix 17 – GMFL Sa	icty and Occupan	onai Heann Fian		Jna #19	FG (#00 # (11/00	
#19 blowdown		ΓΙVΙΤΥ	2. LOCATION	FS-6700-7 (11/99 3. UNIT		
		Limbing and bucking blowdowns with axe and crosscut saw		Green Mountain and Finger Lakes National Forests	All	
JOB HAZARD ANAI	LYSIS (JHA)	4. NAME OF ANALYST David J. Haberl		5. JOB TITLE	6. DATE PREPARED	
References-FSH 670 (Instructions on I				Forester	04/12/2021	
them in the order they will occur) What will happe		ZARDS en and to whom? utcome of exposure?	Engineering Co	9. ABATEMENT ACTIONS ontrols * Substitution * Administrative Controls (state Training * PPE Be specific – who needs to do what?	if you considered these)	
			adequaType INo one worksEveryone has	reviewed and understands material is sessions are conducted at start of each	n JHA.	
Maintaining Crosscut Saws and Axes Improperly maintained crosscut saws and axes can cause injury such as cuts from sharp edges, splinters from cracked handles and eye injuries from flying objects.		 Saws and axes should be clean and free of rust and pitch. Citrus based cleaners, such as Citrosqueeze, can be used in place of petroleum bas cleaners like kerosene. Rubbing (isopropyl) alcohol is another good pitch removing cleaner. Saws should be tuned and sharp. (See unit crosscut instructor) For storage when not in use saws should be cleaned, oiled (preferably with unused 30 weight motor oil) and hung unsheathed in a location where people cannot come into contact with the teeth. Axes should be sharp, heads tight and handles free of cracks. When filing an axe wear heavy leather gloves and use a hand guard on the f Viewing the MTDC video, An Axe To Grind, is highly recommended Refer to Health and Safety Code Handbook, section 41.21 for more information on chopping tool maintenance. Sheathes for saws and axes should be in good condition. 				
Transporting crosscut saws and axes on foot.	Transporting improperly can result in injury to user or bystanders due		-	cut saw and axe sheathed as much as possible when not in to for long term storage of saw)		

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Appendix 17 – GMFL Sa	icty and Occupan	oliai Health Flair		JHA #19	FG (800 8 (11/00)
U.S. Department of Agriculture Forest Service #19		1. WORK PROJECT/ACTIVITY Limbing and bucking blowdowns with axe and crosscut saw		2. LOCATION	FS-6700-7 (11/99) 3. UNIT
				Green Mountain and Finger Lakes National Forests	All
JOB HAZARD ANAI		4. NAME OF ANALYST David J. Haberl		5. JOB TITLE	6. DATE PREPARED
References-FSH 670 (Instructions on I				Forester	04/12/2021
7. TASKS/PROCEDURES (List them in the order they will occur) 8. HAZARDS What will happen and to What will be the outcome of to being struck by tool ditrips and falls.		en and to whom? Engineering Co		9. ABATEMENT ACTIONS g Controls * Substitution * Administrative Controls (state if you considered these) Training * PPE Be specific – who needs to do what?	
		tool during slip,	• When hiking,	when removing or replacing sheath. the last person/people in line will cathed saw on the downhill shoulder,	• • • • • • • • • • • • • • • • • • • •
			cutting head, be should be on v	grasping around the shoulder of the blade edge facing down on the down when not in use.	hill side. Sheath
Transporting crosscut	Vehicle passengers could be		• When transporting in a vehicle, lay the saw flat, preferably between two		
saws and axes in		or killed by loose		rood for protection.	
vehicles.			passengers by all corners. To tools are carried. Install cab guaranteed.	ools inside the same compartment well strapped down and tool carrying a heavy duty screen permanently at ools must still be lashed down even in pickups: and behind pickup cab. down tools in bed	g area is separated from tached by hardware on
Inspecting work site for	· ·			ader shall insure that work site has b	peen evaluated for
hazards (situational awareness)			• Slope of work	are determined for bucking situation site is taken into consideration.	ns when needed.
				ks or objects on log to be bucked.	
			• Look for over		
				sideration the limits of personal abil	
			• Plan for safety	of people and property in the cutting	ng zone.

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opendix 17 – GMTL Said	ety and Occupan	onai Heann Fian		JIIA #19	ES (700 7 (11/00)
Forest Service Lin		1. WORK PROJECT/AC	ΓΙVΙΤΥ	2. LOCATION	FS-6700-7 (11/99) 3. UNIT
		Limbing and bucking blowdowns with axe and crosscut saw		Green Mountain and Finger Lakes National Forests	All
JOB HAZARD ANAL		4. NAME OF ANALYST David J. Haberl		5. JOB TITLE	6. DATE PREPARED
References-FSH 6709. (Instructions on Re				Forester	04/12/2021
7. TASKS/PROCEDURES (List them in the order they will occur) 8. HA What will hap		AZARDS pen and to whom? Engineering Co outcome of exposure?		9. ABATEMENT ACTIONS Controls * Substitution * Administrative Controls (state if you considered these) Training * PPE Be specific – who needs to do what?	
			under the logEvaluate bindAnticipate log	ring poles, falling or rolling root wa that could hook the sawyer if log ro s, tension and compression in log w g's tendency to roll, slide or bind. ing for possible slips, trips and falls	lls. here cuts are planned.
Using axes for limbing and bucking. Using axes improperly can result in serious injury such as cuts to the lower leg.		Paths- Cutting Remove obstachopping. Protect co-wowear eye prote Axe should be Maintain a co Never chop cr Be alert on hii Cut only what possible as yo Do not use ax One person ch	orkers from flying chips by having the ection. e sharpened properly, handle free of mfortable body position when chop ross handed. Ilsides, uneven ground or any time to tis needed. Try to use the saw for bou are more likely to be injured by company to the east a wedge. Inopping per tree. e stand on the opposite side of limbing toward top of tree. The angle of	interfere with nem stay clear and cracks and head tight. ping. cooting is poor. ucking whenever hopping with the axe. being cut.	

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Appendix 17 – GMFL Sa	icty and Occupat	ionai i icaim i ian		JIIA #19	EG (800 8 (11/00)	
Forest Service		1. WORK PROJECT/AC	TIVITY	2. LOCATION	FS-6700-7 (11/99) 3. UNIT	
		Limbing and bucking blowdowns with axe and crosscut saw		Green Mountain and Finger Lakes National Forests	All	
JOB HAZARD ANA		4. NAME OF ANALYST		5. JOB TITLE	6. DATE PREPARED	
References-FSH 670		David J. Haberl		Forester	04/12/2021	
7. TASKS/PROCEDURES (List them in the order they will occur) What will happen and to whom? What will be the outcome of exposure?		9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls (state if you considered these) Training * PPE Be specific – who needs to do what? • When swinging downward, DO NOT allow the axe handle to drop below a plane that is parallel with the ground unless chopping on the opposite side of a tree from where your body is positioned. (This is very important, have someone demonstrate the principle if not understood). • Be aware that a striking angle closer to parallel from 45 degrees of the surface being cut can result in the axe glancing off.				
Using wedges when bucking.	Improper use of wedges can result in eye injury.		Strike wedge sDo not use cra	ear eye protection meeting current ANSI standards. lge squarely. c cracked or flawed wedges. replace driving tools when head is chipped or mushroomed.		
Dealing with spring poles.	Tension released incorrectly can result in injury when saw or ax is "flung" at high speeds striking cutter and causing serious cuts.		 Cut only wher pinning the sp Position yours When making the crosscut. C 	g poles before limbing and bucking an necessary. Is there a limb, log or of ring pole that can be removed to relevel to work from a safe location. Cuts to relieve tension use a pruning so slow! Allow fiber to respond to compression side at ow!	ther obstruction ease the tension? g saw or axe and not uts.	
Planning bucking cuts.	Not planning bucking cuts and techniques to be used can result in injury due to struck by type accidents.		When bucking plates.Remove small If root plate ro	pe routes and escape beyond eight feet when log is released cking uprooted trees do not stand behind or downhill from small trees growing on root plates before limbing and buck atte rolls you could be struck by or pinned beneath. abs that may be preventing log from rolling.		

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appendix 17 – GMTL Sai	iety and Occupan	onai Heann Fian		JIIA #19	
#19 blowdown		TIVITY	2. LOCATION	FS-6700-7 (11/99)	
		Limbing and bucking blowdowns with axe and crosscut saw		Green Mountain and Finger Lakes National Forests	All
JOB HAZARD ANAL		4. NAME OF ANALYST David J. Haberl		5. JOB TITLE	6. DATE PREPARED 04/12/2021
References-FSH 6709 (Instructions on F				Forester	
them in the order they will occur) What will happ		AZARDS pen and to whom? Engineering Co outcome of exposure?		9. ABATEMENT ACTIONS ontrols * Substitution * Administrative Controls (state	if you considered these)
			Warn co-work	xers when release cut is about to be r	nade.
				ach bucking operations from down hill.	
Emergency response	Lack of emergency response plan causes delays in obtaining emergency medical treatment		At each job site, provide the following information and document on your tailgate safety meeting form and share with all project participants: 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 work location to emergency medical responders. Contact them prior to starting work in case directions are difficult to give to an E-911 operator.		
10. LINE OFFICER SIGNATURE			medical facility as	d have access to a map and direction of the location of the vehicle keys. It with serious injuries. Call emerger	Oo not attempt to
			Forest Superviso		
			John A. Sinclair	Ţ	

Previous edition is obsolete

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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:
 - 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).
- 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.

OF CALL PRINTS

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:

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SIGNATURE DATE	SIGNATURE DATE

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SIGNATURE DATE	SIGNATURE DATE	SIGNATURE DATE	SIGNATURE DATE
SIGNATURE DATE	SIGNATURE DATE	SIGNATURE DATE	SIGNATURE DATE

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