BCHW Noxious Weeds and Invasive Plants Treatment with Herbicide

R6-FS-6700-7 (08/12)

U.S. Department of Agriculture Forest Service	1. WORK PROJECT/ACTIVITY BCHW Noxious Weeds and Inv Plants Treatment with Herbicid		2. LOCATION USFS – Forest Wide	3. UNIT Region 6		
JOB HAZARD ANALYSIS (JHA)	4. NAME OF ANALYST Back Country Horsemen of Washington		5. JOB TITLE BCHW Safety Committee	6. DATE PI April 2020	REPARED	
7. TASKS/PROCEDURES	8. HAZARDS	Engir	ATEMENT ACTIONS neering Controls * Substitution * Administrative rols * PPE	ACTION RI	robability Mati	
Purpose	manual and herbicide treatments abatement actions. The plan cover	, includi ers all B ety issu	I practices while conducting invasive plant ng preparation, communication, and other CHW volunteers, and cooperators. This es associated with surveys, manual and er is responsible for the overall	Severity N/A	Probability	Risk Code
Conditions of Treatment	Serious potential illness or violation of law due to lack of training or certification.	and c unde haza Awar applic Train if the comr	ect leader will ensure personnel receive training certification in the use of herbicides and rstand the following safety practices per rds listed in this JHA. eness of appropriate restricted use herbicide cations and licensing requirements. ed volunteers can work without a license only licensed public applicator is on site and in nunications with them. (WSDA, Chapter 17.21 V, Washington Pesticide Application Act)	II - Critical	C - Occasional	4 - Low

Communications and Safety	Serious potential illness due to workers due to lack of communication and hazard awareness.	Emergency Response: Project leader will review emergency response procedures with volunteers and ensure understanding of procedures for personal contamination specified by the product label and Safety Data Sheets (SDS). Project leader will ensure that at least one person in each group will have communications (i.e. radio with extra batteries, cell phone or satellite phone) and must be trained in the proper use, including established check-in/check-out procedures. Check- in / check-out procedures for field work include notifying the Noxious Weed Board Coordinator of the area in which the crew is working on a daily basis. This information should also be displayed on the BCHW web site and updated as needed. At the end of each work day, the Noxious Weed Board Coordinator must also be notified of crew return. Project leader will ensure that applicators have a list of the names and phone numbers for spill emergencies available in a current field binder, found in work vehicles. Project leader shall ensure that safety data sheets (SDS's) and the manufacturer's product labels are available for all herbicides in a field binder, stored in work vehicles and communicated to work crew. Project leader must discuss the SDS's and ensure specific hazards associated with mixing, loading, and applicator(s) use are clearly communicated and understood.		
Personal Protective Equipment (PPE)	Serious potential illness or death due to workers due to lack of protective gear.	Volunteers will use the PPE specified by the product label, SDS, as well as any additional PPE I needed for a specific project outlined in this JHA. Always read SDS label for required PPE.	D Seldom	4 Low

	Commonly required PPE include long pants, long sleeved shirts, safety goggles (rated for chemical use), nitrile gloves for herbicide use, leather gloves for manual treatments, and close toed shoes and socks. Crew members must supply any required, non-agency provided PPE when needed.			
	Wear PPE required on the SDS sheet and product label. Carry spill kit with water, eye wash and absorbent material. Project leaders will ensure volunteers are trained on how to appropriately respond to spills. Diluting spilled chemicals with water is the most efficient way to clean up spills when enough water is available. Otherwise, spills should be cleaned-up using a shovel and heavy duty garbage bags. An absorbent (such as kitty litter) can also be used. Dispose of any absorbent or contaminated soils in an empty garbage bag, and keep contents away from food or drink.	Catast- rophic	D Seldom	4 Low
Transporting Herbicide	•			4 Low 4 – Low
	passengers may be seated. Carry herbicides inside a catch basin or wrapped in heavy duty plastic bags once the containers have been opened. Keep fire extinguishers in any work vehicle transporting herbicide.	Marginal		

to filling and using. Always keep your head above the fill hole. Do not allow herbicide to splash or spill. Fill the tank with water then add herbicides and close backpacks and concentrated herbicide containers immediately. Be aware of the effects of mixing chemicals (synergism). Wear proper PPE. Compatibility tests should be performed if new herbicide combinations or concentrations are being considered. <i>Always</i> read the SDS before mixing any herbicides in which compatibility is unknown. Mixing should occur in the following order: liquid herbicides, surfactants, and dyes.

Spraying Operations	Herbicide skin contact and inhalation resulting in illness	Volunteers must ensure PPE fits properly to avoid hampered field of vision, particularly goggles. Also, inspect gloves and boots for cracking or punctures. Project leader review heat associated safety concerns. Wearing PPE makes applicators vulnerable to heat exhaustion, heat stroke, or dehydration. Ensure applicators take frequent breaks to drink water and rest in the shade. Try to schedule spray work to avoid hottest times of the day. Read and discuss label and carefully follow any restrictions on weather conditions such as temperature. When spraying in a light breeze, conduct the application so the wind carries the herbicide away from the applicator and any non-target plants or animals. Drift can be mitigated by reducing spray pressure or adding a drift retardant. If there is any doubt about the wind velocity being unsuitable for spraying, use an anemometer to measure wind speed. Applications must be halted if wind gusts are consistently over 10 miles per hour. Also, little to no wind can mean an inversion is occurring.	
		doubt about the wind velocity being unsuitable for spraying, use an anemometer to measure wind speed. Applications must be halted if wind gusts	
		long distances. Do not touch your face with gloves. Do not eat, drink, or smoke while spraying. Wash hands and face thoroughly before eating, drinking, smoking, or chewing gum.	
		Do not wear herbicide soiled footwear into the office or home, and keep work footwear stored away from others.	

Backpack	Loss of balance, accidental spray	Be aware of the shift in your center of gravity due to the load of the backpack sprayer. Watch your footing, move slowly, and take your time. Move at a pace that will give you time to adjust if you encounter a hazard, or if you lose your balance. Keep wand pointed down when not spraying. Wedge hand between handle and trigger (Field King backpacks) or use the trigger locking mechanism (Solo backpacks) when traversing rough terrain to prevent accidental spraying. Avoid walking through treated areas.		D – Seldom	4 Low
Clean Up	Equipment and skin contamination with herbicide		III Marginal	D – Seldom	4 Low

Storage of Herbicides	Herbicide contamination of food, feed, livestock.	Never store pesticides near food, feed, se animals. Each type of herbicide should be grouped separately, with labels that can be clearly Have absorbent materials (e.g. kitty litter) available at the storage site to help clean spills	l seen readily			
Disposal of Herbicides	Environmental contamination	Prevention of herbicide surplus is the bes minimize disposal problems. Dispose of rinsed, empty containers acco the SDS.		III Marginal	D – Seldom	4 Low
10. LINE OFFICER SIGNATURE BCHW Safety Committee		11. Title BCHW Safety Committee	12. Date May 202		1	1