

Appalachian National Scenic Trail		1. WORK PROJECT/ACTIVITY Pesticide Handling and Use	2. LOCATION TRAIL WIDE	Includes work performed on lands of National Park Service, and various states' park and lands
JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 OSHA (Instructions on Reverse)		3. NAME(S) OF ANALYST(S) Jim Von Haden, Integrated Resources Program Manager; Keith Stegall, Facility Manager	4. Work Supervisor Various	5. DATE PREPARED 12/1/2020
Required Standards and General Notes:	Pesticide applications will only be performed by or under the supervision of certified or registered applicators licensed under the procedures of a federal or state certification system. All pesticide treatment projects need approval from land managing agency before work begins. Product labels must be strictly followed. Current safety data sheets (SDS) must be kept with product and be readily available to the applicator at all times. Pesticide use must be documented and reported according to requirements of the authorizing land manager. This JHA does not cover personal insect repellents, insecticides, or bear deterrent sprays, nor products applied to pets or livestock.			
Required Personal Protective Equipment	Wear all personal protective equipment and clothing as required by the product label.			
Tools and Equipment	Applicator tanks, nozzles, containers; water supply; spill kit and shovel; eyewash bottle; plastic measuring cups and funnel; first aid kit			
Available Training				
7. TASKS/PROCEDURES	8. HAZARDS, POTENTIAL HAZARDS / INJURY SOURCE	9. ABATEMENT ACTIONS OR PROCEDURES Engineering Controls * Substitution * Administrative Controls * PPE		
Pre-Operation	Lack of training / familiarity with chemicals and PPE	<ul style="list-style-type: none"> Familiarize yourself with the Safety Data Sheet (SDS) and degrees of exposure and necessary response. Develop and share an emergency response plan with volunteers and staff. Ensure a Spill Plan is in place that contains proper phone numbers and contact persons in case of spill/contamination. 		
Transportation of Pesticides	Exposure to chemicals/ Contamination Pesticide could be spilled.	<ul style="list-style-type: none"> Ensure containers are not damaged before loading. Only transport the amount of pesticide needed for the day's use at the site. Always ensure that pesticides are stored in a secure location during transport. Transport according to state guidelines and always ensure that pesticides are stored in a secure location during transport. If bed liners are used, only use those that are non-porous. Carry herbicide containers inside catch basins or make sure they are secured to prevent tipping or jarring. Any previously opened pesticide containers should always be transported in secondary containment basins. Carry spill kit in vehicle. 		

Mixing, Handling Pesticides	Exposure to chemicals	<ul style="list-style-type: none"> ● Always read and follow the product label/labeling & SDS. ● Wear PPE as specified on product label.
	Spills or direct contact with chemicals	<ul style="list-style-type: none"> ● Mix pesticides in a well-ventilated area. ● Fill tank halfway with water, add pesticide, then finish filling tank. ● Use only recommended amounts; close container immediately after use. ● Mix chemicals in a secondary containment basin. ● Keep spill kit within easy reach.
Treatment with Pesticide	Exposure to chemicals	<ul style="list-style-type: none"> ● Always check equipment and fittings for leaks and calibrate with water before using pesticides. ● Wear appropriate PPE. Take extra time when walking with PPE; goggles can reduce the field of vision; watch footing; backpack sprayer can impede balance. ● Do not apply pesticides in the rain. Do not spray if temperature is over 98 degrees F, if winds are above 15 miles per hour, or if humidity is less than 20%. ● Pay attention to wind conditions and stay upwind of applicator nozzle. Do not spray under high wind conditions. ● Avoid walking through treated areas. ● Do not touch your face, or any other body part, food, or tobacco products, while wearing your chemical resistant gloves; If your skin comes in contact with the chemical solution, immediately wash the area with soap and clean water; If your eyes come in contact with the chemical solution, immediately use the eyewash bottles to rinse your eyes. ● Treat chemicals with respect – don't get complacent; be aware of the effects of mixing chemicals. Read labels. ● When work is completed, remove and bag PPE used when mixing or applying pesticides. Wash or dispose of as instructed by manufacturer.
	Spills or direct contact with chemicals	<ul style="list-style-type: none"> ● Ensure spill kit is available at work site. ● If a spill occurs, treat the area with an appropriate absorbent (sand, cat litter, synthetic spill kit, etc.) material. ● After containing the spilled pesticide, bag and remove the material. ● Keep a spare set of clothes at the work site in case clothing becomes contaminated. ● Spills, personal exposure, or unapproved uses of pesticides must be reported to the designated agency contact no later than 24 hours after the occurrence.

Public Safety	Contamination of private landowners or neighbors	<ul style="list-style-type: none"> • Notice signs must be clearly posted, with special care taken in areas of anticipated visitor use. • Check to determine any state reporting requirements for sensitive persons, if any. • Create buffers between treatment area and private land/residences; clearly mark buffers.
Storage of Pesticide	Storage Limitations	<ul style="list-style-type: none"> • Follow product label regarding shelf life.
	Equipment becomes contaminated	<ul style="list-style-type: none"> • Thoroughly clean and rinse equipment after each use prior to storage; be sure to remove coveralls before getting back into vehicle. • Wear PPE while cleaning equipment.
	Exposure to heat/sunlight	<ul style="list-style-type: none"> • While at the work site, keep pesticide containers in the shade to avoid pressure build-up.
	Security of stored pesticides	<ul style="list-style-type: none"> • Store pesticides in a designated, well-ventilated, cool, dry, locked location with non-porous floor; Chemical containers should be stored in secondary containment basins. Sign the storage area as having pesticides. • Ensure all containers are clearly labeled, especially those pesticides which have been transferred to a new container. • All leftover chemicals for the day must be returned to storage.
10. OFFICIAL SIGNATURE <i>Kurt W Speers</i>	11. TITLE Kurt Speers Acting APPA Chief Ranger	12. DATE 12/01/2020

Previous edition is obsolete

(over)

