

STANDARD TASK ANALYSIS FORM

6/2/2011

Duty/Task:									
G-15 Apply herbicides		NOTE: Someone within 25 miles of the spraying area must have a state pesticide applicator's license to apply herbicides							
STEPS (Required to Perform the Task)	PERFORMANCE STANDARDS (Observable & Measurable Criteria)	TOOLS, EQUIPMENT, SUPPLIES & MATERIALS (Needed)	REQUIRED KNOWLEDGE AND SKILLS (Math, Science, & Language)	SAFETY (Concerns)	WORKER BEHAVIORS (Important to Worker Success)	DECISIONS (Identify Decisions that Must be Made by the Worker)	CUES (Identify the Data Needed for Making Correct Decisions)	ERRORS (Indicate What May Result if Incorrect Decisions are Made)	
1 Scout fields to determine type and density of weeds	1 Accurately determined type and density of weeds to be sprayed in the target area	1 Gator or ATV, truck, weed identification guide	1 Knowledge of weed identification, driving skills	1 Drive safely	1 Observant, conscientious, accurate, thorough	1 What weeds do I see? Is the population such that I need a herbicide? What stage of development/maturity are the weeds?	1 Observation, experience, herbicide usage guidelines	1 Won't know what weeds need treated or what herbicide to use to ensure maximum crop yield	
2 Obtain herbicide needed to control weeds that are present	2 Obtained the correct herbicide to treat the identified weed population	2 Pesticide applicator's license, purchase order	2 Knowledge of herbicides that are licensed for use on identified weeds	2 Use care in transporting or handling pesticides	2 Accurate, timely, knowledgeable	2 What herbicide do I need? How much do I need to treat my acreage? Where do I get it? Am I licensed to buy it?	2 Knowledge of available herbicides, pesticide applicator training	2 Won't have herbicide to kill weeds, crop yield will be reduced	
3 Check tank filter and calibrate the sprayer	3 Checked tank filter for cleanliness and accurately calibrated the sprayer to ensure correct usage and control	3 Bucket, stop watch, tape measure, marker flags, filter	3 Knowledge of sprayer calibration, basic math knowledge, mechanical knowledge	3 Use water only for calibrating the sprayer, be cautious around equipment	3 Accurate, conscientious, problem solver	3 How do I correctly calibrate the sprayer? How do I verify that the calibration is correct? Who can help me if I need help in calibrating my sprayer?	3 Sprayer's user manual, herbicide label, experience, Extension bulletins	3 Herbicide applied too light won't kill weeds, too heavy will waste herbicide and potentially cause environmental damage	
4 Mix herbicide with water in the sprayer tank	4 Accurately mixed herbicide and water in tank in the labeled amounts/ratios	4 MSDS, herbicide label, measuring cup, bucket, PPE (gloves, goggles, disposable coveralls)	4 Knowledge of herbicide mixing, analytical skills, basic math knowledge,	4 Wear PPE to avoid injury to self or others	4 Safety conscious, accurate, conscientious, detail oriented	4 What ratio of herbicide to water should I use? What is the proper way to mix the herbicide with water? What do I do with the empty containers? What must I do to protect myself and others around me? What do I do if I accidentally spill herbicide on myself?	4 MSDS, herbicide label, experience, pesticide applicator training, Extension bulletins	4 Herbicide applied too light won't kill weeds, too heavy will waste herbicide and potentially cause environmental damage	
5 Apply herbicide	5 Applied herbicide safely and accurately to target area	5 Tractor, sprayer, spray report	5 Tractor driving skills, herbicide application skills, knowledge of wind direction, air temperature, spray reports	5 Avoid drift to unintended areas, use tractor with cab if possible, avoid inhalation of herbicide and contact with skin	5 Safety conscious, accurate, conscientious, detail oriented	5 How fast do I drive when applying herbicide? How much do I overlap on my passes? How do I know if the sprayer is applying correctly?	5 Calibration instructions, herbicide label, sprayer user manual	5 Won't obtain the weed control we desire, crop yields may be affected, may not apply correct amount of herbicide, may cause environmental harm	
6 Clean up sprayer and mixing equipment	Thoroughly cleaned sprayer and mixing equipment (triple rinsing) and properly disposed of containers and rinsate	Water, detergent, ammonia	Knowledge of pesticide handling and disposal	Wear required PPE	Thorough, conscientious, safety conscious	How do I clean up the sprayer and mixing equipment? Did I clean all surfaces and flush all lines? What do I do with the rinsate? How do I dispose of empty containers? How do I store unused concentrate?	Sprayer user manual, pesticide applicator training, label instruction, MSDS	May contaminate future applications with herbicide, could damage crop, next pesticide may not be compatible	
Analyst: John Moser			Specific Relevant References:						
Expert Workers:			1 Sprayer user manual						
Al Welch			2 MSDS						
Milan Pajev			3 Nebraska Weed Guide						
			4 Extension publications						
			5 Herbicide label						