

Duty/Task:									
H-12 Release beneficial insects									
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 Identify the need for releasing beneficial insects	1 Need identified for release, e.g. crop pollination, pest insect predation	1 Computer; field records	1 Analytical skills; knowledge of entomology and plant pathology; problem solving skills; risk management skills	1 N/A	1 Accurate; detail oriented; analytical	1 Are there harmful pests that can be controlled with a release? Is pollination of the crop required?	1 Insect record data; low fruit set; insect predation damage; plant knowledge	1 Pest infestations may result if not controlled; poor fruit set and loss of revenue could result; decreased crop quality and quantity.	
2 Determine type of beneficial insects and quantities to release	2 Specific insects needed were accurately identified; amounts were calculated accurately	2 Internet access; insect manuals; production manuals; pen, paper, calculator	2 Analytical skills; knowledge of entomology and plant pathology; basic math skills	2 N/A	2 Observant; accurate; detail oriented	2 Which insects are best suited for the need? What are their positive and negative characteristics? How many are required for the area to be treated?	2 Insect record data; low fruit set; insect predation damage; plant knowledge	2 May use a predator insect that won't control the target pest	
3 Purchase the beneficial insects	3 Insects ordered in the needed quantity	3 Catalogs and order forms; pen; paper; computer; budget	3 Analytical skills; knowledge of entomology and plant pathology; problem solving skills; purchasing skills; basic math skills	3 N/A	3 Detail oriented; dedicated; analytical	3 Where can I get the insects? How much do they cost? Are they worth the cost? What times can I arrange for their arrival? How far in advance do I need to order them? How many should I order?	3 Catalog information; budget; Extension bulletins	3 Won't have the beneficial insects to release; crop won't get pollinated or pest won't be controlled	
4 Release the insects	4 Insects released according to instructions received with shipment	4 Instructions received with purchase; supplies as stated in instructions	4 Analytical skills; knowledge of entomology and plant pathology	4 Wear PPE as recommended	4 Observant; accurate; detail oriented; dedicated; analytical; safety minded	4 Do I understand the instructions? Is the environment conducive to release within the treatment area? How far in advance do I need to release the insects? Is the weather appropriate for release? How will pesticide applications impact the	4 Instructions received with purchase, Extension bulletins	4 Pest infestations won't be controlled; may have poor fruit set; yields may be reduced	
5 Evaluate and document the impact of release	5 Impact evaluated and documented in a methodical and timely manner; documentation records all useful information, e.g., pest population changes, fruit set	5 Journals, logs, pen, computer	5 Analytical skills; knowledge of entomology and plant pathology; problem solving skills; sampling skills	5 N/A	5 Observant; accurate; detail oriented; dedicated; analytical; safety minded	5 What data should be collected and recorded? How can I do it methodically and in a timely manner? Do I need assistance with data collection?	5 Crop and field observations	5 Won't have useful records for future reference is beneficial insects are used	
Analyst: Mike Loyd			Specific Relevant References:						
Expert Workers:									
Brad Bergefurd									
Meagan Zeune									