Natural Resources Conservation Service, Pacific Islands Area

BRUSH MANAGEMENT - MECHANICAL - CHEMICAL

Farm/Tract		Field(s)	
Location		Acres	
Planner		CINs (if applicable)	
Purpose/Mar	nagement Objectives (check one or more)		
□* (Create the desired plant community consistent with the ecolo	gical site or a desired	state within the site description.
	Restore or release desired vegetative cover to protect soils, or quality, or enhance hydrology.	control erosion, reduce	sediment, improve
<u> </u>	Maintain, modify, or enhance fish and wildlife habitat.		
* I	Improve forage accessibility, quality, and quantity for livestoc	k and wildlife.	
<u> </u>	Manage fuel loads to achieve desired conditions.		
	Pervasive plant species are controlled to a desired level of treatment of an ecological site description "steady state" addresity.		
Goals/Object	tives:		

Date

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2. Maps included with this specification

- ✓ Plan map showing area to be treated, areas not being disturbed, and any sensitive areas
- √ Soil map

Client

3. Desired Plant Communities and Target Brush Species

Desired Plant Community Composition, Structure, and Function	Target Species	Pervasive*?	% Cover (before)	%Cover (after)
		☐ Yes ☐ No		
		☐ Yes ☐ No		
		☐ Yes ☐ No		

^{*}See PIA Pervasive Plant List in eFOTG, Section IV, 314 Folder.

4. Monitoring Plan

Monitoring is done to assess degree of brush control and to identify areas needing further treatment.

Monitoring will be performed by NRCS and/or landowner at least annually at the end of the growing season following treatment.

Percent cover or density of the target species (see item 2 above) will be measured and compared to desired percent cover or density (% cover after (item 2 above)). If the measured amount is less than or equal to the desired amount, this practice is to be considered complete.

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5.	Trea	tmen	t Sc	hedu	ما
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Include all I treatments needed to achieve effective control of the target plant species.

110	atment unit		Treatr	nent Type	Planned Treatment Year	Planned Acres
		☐ Med	hanic	al Chemical		
		☐ Med	hanic	al Chemical		
		☐ Med	hanic	al Chemical		
		☐ Med	hanic	al Chemical		
		☐ Med	hanic	al Chemical		
		☐ Med	hanic	al Chemical		
		☐ Med	hanic	al Chemical		
		☐ Med	hanic	al Chemical		
		☐ Med	hanic	al Chemical		
	Large Equipment (tractor, excavator, etc.)			Mowing		
	ected Mechanical Treatment Method (check o		ı			
	, , , , , , , , , , , , , , , , , , , ,			Mowing		
	Hand Treatment (loppers, chain saw, etc.)		Ш	Other (Describe):		
Tim Dry s fire regar	ning or Season for Mechanical Treatment season operations will be done in a manner consiste egulations. Activities performed under this practice ruless of the timing of the treatment. Timing will also apacted by this practice.	ent with fire s	safety	precautions and in a manner in cons	compliance with lo	ocal, state, and fed

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1. Sel	ected Chemical Treatm	nent Method (chec	k one treatment an	d o	one application)	
	Broadcast Treatment			lr	ndividual Plant Treatme	nt (IPT aka spot treat)
	Foliar Application			В	Basal Application	
	Soil Application				Cut-Surface (injection, no application	otching, cut-stump, frilling)
		BRUSH CO	NTROL CHEMICAL	_ AL	LTERNATIVES	
		Alt. No. 1	Alt. No. 2		Alt. No. 3	Alt. No. 4
Ta	arget Species					
CI	nemical					
-	ate					
PI	cceptable Dates or ant Growth Stage for oplication					
W	IN-PST Rating					
Re	emarks					
Ca	aution					
	ource of ecommendation					
	below.	are attached. Ratin		r hig	gher require mitigation n	neasures as described
	y special mitigation, timi considered to ensure the					natter content) that must

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12.	Kind of Equipment and any modifications necessary to enable the equipment to complete the	job.
13.	Operating Instructions for Chemical Treatment	
	Prior to arriving at the treatment site, all equipment and vehicles will be cleaned in order to reduce the introduct noxious weeds.	ion or spread of
14.	Wildlife Requirements	
	All work will be performed at times that meet the needs of resident and transient wildlife. Additional avoidance required if Threatened, Endangered, or Special Status species or their habitat is found on-site. Describe avoi (A&M) measures determined in Biology Tech Note 18 Attachment A. Examples of A&M measures include avyear or other BMPs to minimize effect on wildlife.	dance and minimizatio
15.	Cultural Resources	
	All work will be performed in accordance with the requirements of the cultural resource review.	
16.	Additional Requirements	QH
	Prior to commencement of any mechanical clearing, a utility check must be completed to make sure all underground utilities are avoided. The landowner/ operator or contractor shall call 1-866-423-7287 or 811 or appropriate local utilities to determine the existence of utilities at least 5 days prior to excavation.	Know what's below. Call before you dig.

17. Operation and Maintenance

- Monitor each year to evaluate desired plant community and any regrowth or recurrence of target pest species. Apply appropriate spot treatments as needed to maintain desired plant community.
- Review and update the plan annually to incorporate new IPM technology.
- Maintain mitigation techniques selected to ensure continued effectiveness. This may include a grazing plan (see Prescribed Grazing for details), which may include deferment, to improve the health and vigor of desired perennial herbaceous species or seeding to provide desired understory vegetation.
- Develop a safety plan for individuals exposed to pesticides
- Follow labels requirements for mixing/loading setbacks from wells, streams, rivers and natural or impounded pond and reservoirs.
- Post signs according to label directions and/or Federal, state and local laws around treated sites. Follow restricted entry

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intervals.

- Dispose of pesticide containers according to label directions and Federal, state and local regulations.
- Calibrate application equipment according to University of Hawaii Cooperative Extension and/or manufacturer recommendations before each seasonal use and with each major chemical change.
- Replace worn nozzle tips, cracked hoses and faulty gages.
- Handle all pesticides with caution and wear appropriate protective clothing according to label instructions.
- Maintain appropriate Material Safety Data Sheets (MSDS).
- Maintain records of pesticide application for restricted use materials as per the Hawaii Department of Agriculture record keeping requirements.

18. References

NRCS does not develop chemical treatment recommendations; however, NRCS can provide current acceptable chemical control references. A list of these references is below:

- https://www.ctahr.hawaii.edu/invweed/weedsHi.html
- https://www.ctahr.hawaii.edu/invweed/farmers.html
- https://www.ctahr.hawaii.edu/oc/freepubs/pdf/WC-10.pdf
- http://www.epa.gov/espp/

Design Approval

Practice		Lead			Job class				
code No.	Practice	Discipline	Controlling factor	Units		П	Ш	IV	V
214	314 Brush Management	Coord and Coord	Slope	Percent	0 - 15	16 - 25	26 - 35	All	All
314		Graz Land Spec	Treatment Area	Acres	25	50	100	200	All
	This practice is classified as Job Class (check one):								

Design Approved By: /s/	_ Date:
Job title/JAA	

Client's Acknowledgement Statement

The Client acknowledges that:

- They have received a copy of the specification and understand the contents and requirements.
- b. It shall be the responsibility of the client to obtain all necessary permits and/or rights, and to comply with all ordinances and laws pertaining to the application of this practice.
- c. The completed job shall be workmanlike and present a good appearance. The contractor or participant shall conduct all work in accordance with proper safety procedures.
- d. After the practice has been completed, a site inspection will be made to determine whether the practice was properly applied and adequate control has been achieved. A practice certification form will be completed by the planner.

Accepted By: /s/	Date:	

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Certification

Treatment unit	Area Treated	Method of Measurement	Inspection Date	Inspector	Certified?
 ☐ Map(s) – including field number ☐ Photo monitoring ☐ Other: Brief Description/Notes 	ers, fields treated, and	acres treated			
I have completed a review of the information standard and the practice implementation re	equirements above.				
Certified By: /s/				Date:	
loh title					

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Field No(s)	Date Treated	Applicator Name	Wind Speed/ Direction	Weather*/ Air Temp.	Equipment Used**	Product Name: List all Herbicides, water conditioner, surfactants, or dyes used.	Rate (per acre)	Acres Treated	Total Chemical Used	Amt Water used
14	9/10/2014	Western Spray Inc.	5 mph, S-SE	Partly cloudy, 65 F	UTV sprayer	Product name (Active Ingredient)	4 oz/ac	45	180 oz	10 gal/ac
mmer	nts:				*Clear, partly	cloudy, overcast, showers, etc.	** Ba	ck pack spra	yer, ATV, Boo	om spray