Weed Data: Detailed HNIS Info

Monday, December 29, 1997 Page 1

This questionnaire is designed to gather specific information regarding weeds which are currently or potentially present in the state of Hawaii. Your name: _____ Organization: ___ Address: Other: Phone (voice): ______ fax: ______ e-mail:_____ Date you completed this questionnaire: ____ Your comments (use back of page if necessary; please indicate if back of page is used): Return questionnaire to: Refer questions to: **Bob Teytaud** Philip Thomas c/o Hawaiian Ecosystems at Risk project c/o NBS/HALE St. John Bldg., Room 409 P.O Box 369 CPSU/Dept. of Botany Makawao, Maui, HI 96768 University of Hawaii 3190 Maile Way e-mail: thomasp@maui.com (best contact method) Honolulu, HI 96822 voice (808) 572-9306 ext. 5938 fax (808) 572-1304 (be sure to send to "Attn. Philip tevtaud@hawaii.edu Thomas / Research") Instructions: For each species, please answer all questions about which you have particular knowledge. Your answers will be entered into a database. Therefore, unless the list of are preceded by "e.g.", please choose ONLY from the options in parentheses (or) following the question. Include additional information in a corresponding (or general/misc) "notes" area. (If you feel that a category should be ADDED to the database, please indicate this by entering "see notes RE: [...]" as the answer to the specific question, then indicate in the corresponding note the new option you think should be added, and why.) For any questions that require more space than is provided for a thorough answer, please answer on the back of the sheet and/or a separate piece of paper. In this case, PLEASE BE SURE TO INDICATE THE QUESTION NUMBER TO WHICH THE ANSWER APPLIES. **IMPORTANT** Please write all answers in NARRATIVE FORM, RESTATING the question in the answer, e.g. for "What color giraffes are in your preserve?" the answer shouldn't be "red, green, blue"; rather, the appropriate response would be "The Nature Conservancy's Sulawesi Giraffe Preserve is home to red, green, and blue giraffes." (Think in terms of the responses to the questionnaire being presented as a publication in order WITHOUT the questions being interspersed.) #1. Can population expand with MODERATE frequency of canopy-level site disturbance? YES NO Ref: WEEDMODL.DB:Pop expan w MOD cdstb frq #2. Can population expand with LOW frequency of canopy-level site disturbance? YES NO Ref: WEEDMODL.DB:Pop expan w LO cdstb frq

#3. Can population expand with NO canopy-level site disturbance? YES NO

Ref: WEEDMODL.DB:Pop expan w NO cdstb

Ref: WEEDMODL.DB:List other impt impacts

Monday, December 29, 1997 Page 3 #18. Are there OTHER important modes of reproduction of this species in Hawaii? (Itemize in next question.) Ref: WEEDMODL.DB:Impt repro in HI: other #19. Is the effect of this species on NUTRIENT/MATERIALS CYCLING an important impact? (Itemize nutrient cycling impacts in next question.) YES NO Ref: WEEDMODL.DB:Impt impact: nutrient cyc #20. List NUTRIENT/MATERIALS CYCLE impacts of this species in Hawaii (e.g. nitrogen fixation, changes in water budget). Ref: WEEDMODL.DB:List nutrient cyc impacts #21. Is the effect of this species on ENERGY FLOW an important impact? (Itemize energy flow impacts in next question.) YES NO Ref: WEEDMODL.DB:Impt impact: E+ flow #22. List ENERGY FLOW impacts of this species in Hawaii (e.g. changes in food/biomass available to sustain other ecosystem components). Ref: WEEDMODL.DB:List E+ flow impacts #23. Is VEGETATIVE REPRODUCTION an important mode of reproduction of this species in Hawaii? YES NO Ref: WEEDMODL.DB:Impt repro in HI: veg #24. Is VEGETATIVE REPRODUCTION an important mode of reproduction of this species elsewhere (outside Hawaii)? YES NO Ref: WEEDMODL.DB:Impt repro nonHI: veg #25. Are SEEDS an important mode of reproduction of this species in Hawaii? YES NO Ref: WEEDMODL.DB:Impt repro in HI: seed #26. Are SEEDS an important mode of reproduction of this species elsewhere (outside Hawaii)? YES NO Ref: WEEDMODL.DB:Impt repro nonHI: seed #27. Are SPORES an important mode of reproduction of this species in Hawaii? YES NO Ref: WEEDMODL.DB:Impt repro in HI: spore #28. Are SPORES an important mode of reproduction of this species elsewhere (outside Hawaii)? YES NO Ref: WEEDMODL.DB:Impt repro nonHI: spore #29. Is this species dispersed by water (i.e. floating propagules or transported in streams) in Hawaii? YES NO Ref: WEEDMODL.DB:Dispers in HI by water #30. Are there OTHER important modes of reproduction of this species elsewhere (outside Hawaii)? (Itemize in next question.)

#31. List OTHER important modes of reproduction of this species (also, WHERE are they important [e.g. what countries]).

NO

YES

Ref: WEEDMODL.DB:List other repro/where

Ref: WEEDMODL.DB:Impt repro nonHI: other

Weed Data: Detailed HNIS Info

Monday, December 29, 1997 Page 5 #46. Is this species usually WOODY (i.e. non-herbaceous) in Hawaii? Ref: WEEDMODL.DB:Us form in HI: woody #47. Is the typical mature height of this plant in Hawaii 0.5-5m? Ref: WEEDMODL.DB:Us ht HI: 0.5-5m #48. Is the typical mature height of this plant in Hawaii <0.5m? YES NO Ref: WEEDMODL.DB:Us ht HI: <0.5m #49. Can/does this species become a dominant species (i.e. high proportion of cover) in the canopy of (any) plant communities in Hawaii? YES NO Ref: WEEDMODL.DB:Poten canopy dom in HI #50. Is the typical mature height of this plant in Hawaii >5m? YES NO Ref: WEEDMODL.DB:Us ht HI: >5m #51. Is this plant typically a VINE in Hawaii? YES NO Ref: WEEDMODL.DB:Vine? #52. Does this species form vines which reach and/or obscure the canopy (or other top/highest layer of vegetation) in areas where it grows? YES NO Ref: WEEDMODL.DB:Canopy vine? #53. Does this species exhibit coppicing (vegetative regrowth from stumps)? YES NO Ref: WEEDMODL.DB:Coppicing? #54. Can/does this species become a dominant species (i.e. high proportion of cover) in the subcanopy of (any) plant communities in Hawaii? YES NO Ref: WEEDMODL.DB:Poten subcanopy dom in HI #55. Can/does this species germinate epiphytically in Hawaii? YES NO Ref: WEEDMODL.DB:Epiphytic germination HI #56. Can/do this species' seeds/spores germinate in xeric (dry) conditions? YES NO Ref: WEEDMODL.DB:Germinates in dry conds #57. Is the typical average number of propagules produced per mature plant per year HIGH (vs. "low")? YES NO Ref: WEEDMODL.DB:Repro potential HI: HI #58. Can/do this species' seeds/spores germinate in low light conditions? YES NO Ref: WEEDMODL.DB:Germinates in low light #59. Can this species TOLERATE high light intensities (during some or all of its life cycle)? YES NO

Ref: WEEDMODL.DB:Tolerates high light int

YES NO

Ref: WEEDMODL.DB:Pop expan w LO gdstb frq

Mon	day, December 29, 1997	Page 6
#60.	Does this species REQUIRE low light intensities (during some or all of its life cycle) YES NO	?
		Ref: WEEDMODL.DB:Requires low light int
#61.	Can this species TOLERATE low light intensities (during some or all of its life cycle YES NO)?
		Ref: WEEDMODL.DB:Tolerates low light int
#62.	Does this species REQUIRE high light intensities (during some or all of its life cycle YES NO)?
		Ref: WEEDMODL.DB:Requires high light int
#63.	Can this species survive in mesic (moist) conditions? YES NO	
		Ref: WEEDMODL.DB:Survives mesic
#64.	Can this species survive in xeric (dry) conditions? YES NO	
		Ref: WEEDMODL.DB:Survives xerio
#65.	Can this species survive in hydric (wet) conditions? YES NO	
		Ref: WEEDMODL.DB:Survives hydric
#66.	Can/does this species reproduce in xeric (dry) conditions? YES NO	
		Ref: WEEDMODL.DB:Repro xerio
#67.	Can/does this species reproduce in mesic (moist) conditions? YES NO	
		Ref: WEEDMODL.DB:Repro mesic
#68.	Can/does this species reproduce in hydric (wet) conditions? YES NO	
		Ref: WEEDMODL.DB:Repro hydric
	Can propagules of this species become established with NO ground-level site distu oducing populations)? YES NO	irbance (not necessarily resulting in
		Ref: WEEDMODL.DB:Estd w NO gdstb
	Can propagules of this species become established with NO canopy-level site distu oducing populations)? YES NO	urbance (not necessarily resulting in
	120 140	Ref: WEEDMODL.DB:Estd w NO cdstb
# 71.	Can population expand with HI frequency of ground-level site disturbance? YES NO	
		f: WEEDMODL.DB:Pop expan w HI gdstb frq
#72.	Can population expand with MODERATE frequency of ground-level site disturbance YES NO	
		VEEDMODL.DB:Pop expan w MOD gdstb frq
#73.	Can population expand with LOW frequency of ground-level site disturbance?	

Weed Data: Detailed HNIS Info

Monday, December 29, 1997	Page 7
#74. Is this species dispersed by humans in Hawaii? YES NO	
	Ref: WEEDMODL.DB:Dispers in HI by human
#75. Can population expand with NO ground-level site disturbance? YES NO	
	Ref: WEEDMODL.DB:Pop expan w NO gdstb
#76. Can population expand with HI frequency of canopy-level site disturbance? YES NO	
	Ref: WEEDMODL.DB:Pop expan w HI cdstb frq