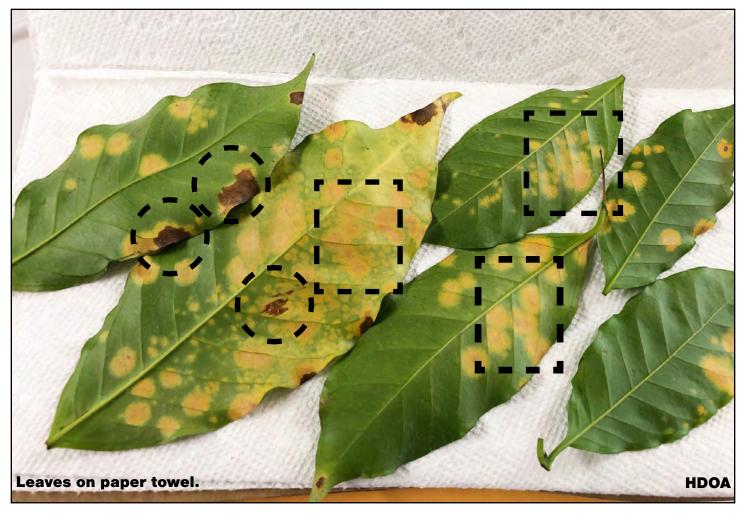


Coffee Leaf Rust (Hemileia vastatrix)

Coffee leaf rust is a fungal disease caused by *Hemileia vastatrix*. Hosts of note include but are not limited to *Coffea* spp. (worldwide) and *Gardenia* spp. (in South Africa). Symptoms appear first on the upper leaf surface and then the lower surface of leaves. Severe infections may lead to premature leaf drop, yield reduction, twig dieback, and tree death (Arneson, 2000)*.

LOOK FOR: Orangeish to yellow-orangeish circular spots or lesions on leaves.



RECTANGLES: As spots expand or form, they may join together or overlap to form large irregular shapes.

CIRCLES: As spots age their centers may turn brown.

CONTACT US: Plant Pest Control Branch ■ 973-9525 ■ HDOA.PPC@HAWAII.GOV

SYMPTOMS: Seedlings may also display yellowish spots and lesions (circled).



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LOOK FOR: Early infections typically start with yellowish spots or lesions on leaves towards the plant base.



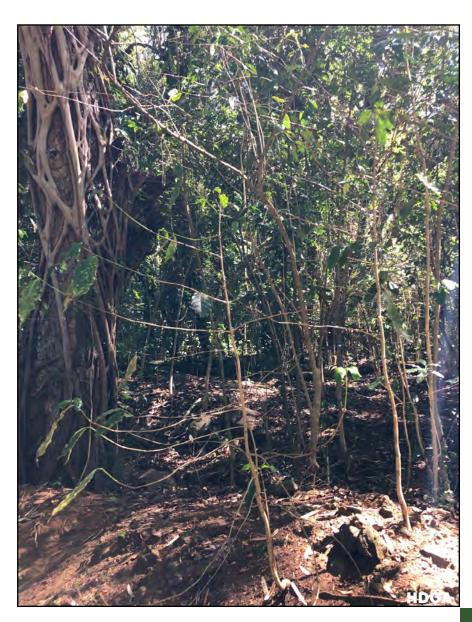


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LOOK FOR: Dropping of green leaves and bare to nearly bare branches.







Field Guide to of Agriculture Coffee Leaf Rust (Hemileia vastatrix)

PHOTOGRAPH LEAVES LIKE THESE.

LOOK FOR: Yellowish circular spots or lesions on leaves, which may or may not have brown centers.



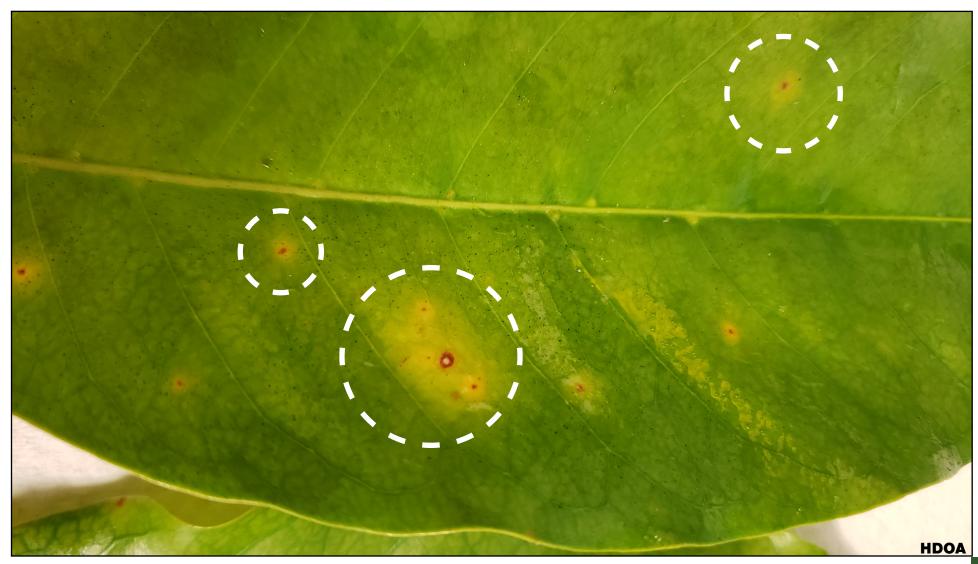




Field Guide to of Agriculture Coffee Leaf Rust (Hemileia vastatrix)

PHOTOGRAPH LEAVES LIKE THESE.

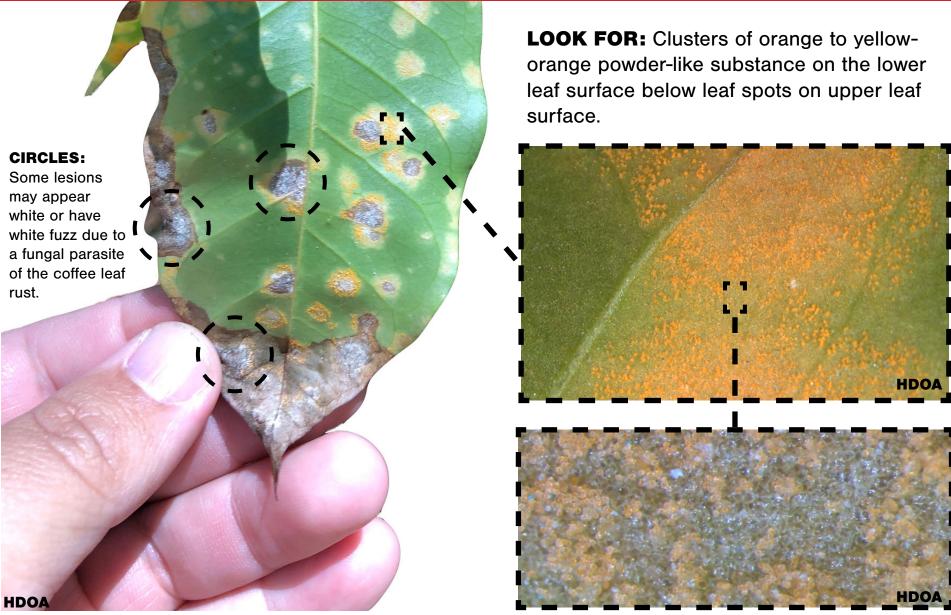
SYMPTOM: Yellowish spots with brown centers on leaves.



J. Ocenar

No. 02-PP-2020 Revised 11-05-2020 Field Guide to Coffee Leaf Rust (*Hemileia vastatrix*)

PHOTOGRAPH LEAVES LIKE THESE.



If you suspect coffee leaf rust

- 1. First, do not touch or collect diseased plants.
- 2. Do take clear photos.

Date identified:

How to photograph coffee leaf rust:

- Take photographs of whole plant (refer to Field Guide to Coffee leaf rust pages 3 and 4).
- Take photographs of upper and lower surface of suspect leaves (refer to Field Guide to Coffee leaf rust pages 5-7).
- Do not touch or collect diseased plants and flag or visibly mark the area where CLR was found. Let everyone (land owner, manager, workers, visitors, etc.) know to stay away. Do not move soil, plant materials, or supplies from the location.
- - We will be in contact on how to proceed.
 - Your information is confidential and will not be shared outside of Hawai'i Department of Agriculture.
- 5. Decontaminate at site if possible! If you have touched or contaminated your clothing, footwear, hat, etc. with the fungal pathogen or think you may have, shower immediately with soap and water and wash your clothing, footwear, hat, etc. in laundry detergent and hot water and dry with high heat. Once decontaminated, then it is safe to travel from your farm or location.

DO NOT COLLECT SAMPLES OF INFECTED PLANTS TO PREVENT POTENTIAL SPREAD.

Coffee leaf rust Sampling Form

Please complete this form as it applies and to the best of your ability. Include it with corresponding image(s). Submit only 1 form per farm/location/residence. Your information is confidential and will not be shared outside of the Hawai'i Department of Agriculture.

Contact Name:	Disease symptoms or signs (check all that apply):				
Contact E-mail:	D	Dropping of green leaves			
Contact Phone:	Bare to nearly bare branches				
Date collected:	Ye	Yellowish circular spots or lesions on leaves, which may or may not have brown centers			
Farm name:	no				
Address:	Clusters of orange to yellow-orange powder-like substance on the lower leaf surface below leaf spots on upper leaf surface				
GPS Coordinates:	Number of plants affected:				
Location Type (Indicate or describe in Other):	Farm	Nursery	Residence	Wild growing	
	Other:				
	is will be filled ou	ut by lab.			
Received by:		Action taken:			
Date received:	N	Votes:			