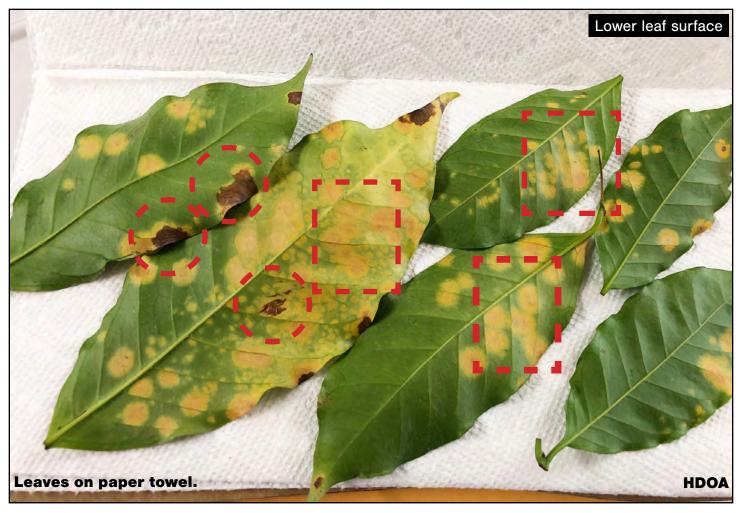


Coffee leaf rust is a fungal disease caused by *Hemileia vastatrix*. Hosts of note include but are not limited to *Coffea* spp. (worldwide) and *Gardenia* spp. (in South Africa). Symptoms appear first on the upper leaf surface and then the lower surface of leaves. Severe infections may lead to premature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

LOOK FOR: Irregular-shaped, orangeish to yellowish-orange spots or lesions on leaf surface.



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

CIRCLES: As spots age, infected areas may turn brown.

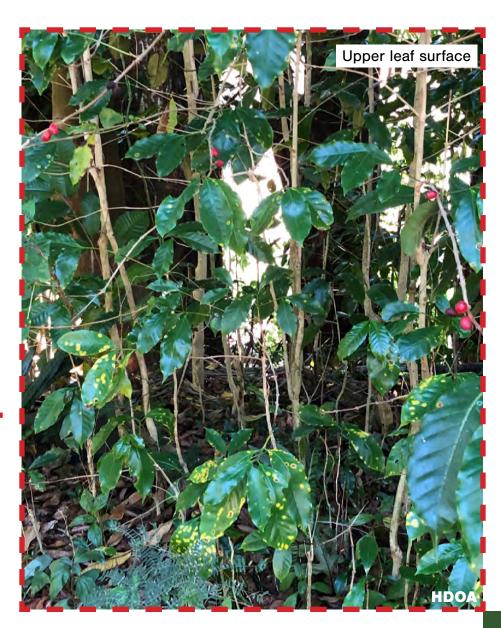
J. Ocenar

SYMPTOMS: Seedlings may also display irregular-shaped, yellowish spots and lesions (rectangles).



LOOK FOR: Early infections typically start with irregular-shaped, yellowish spots on leaves towards the plant base.







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: Irregular-shaped, yellowish spots or lesions on leaves, which may or may not have brown centers.



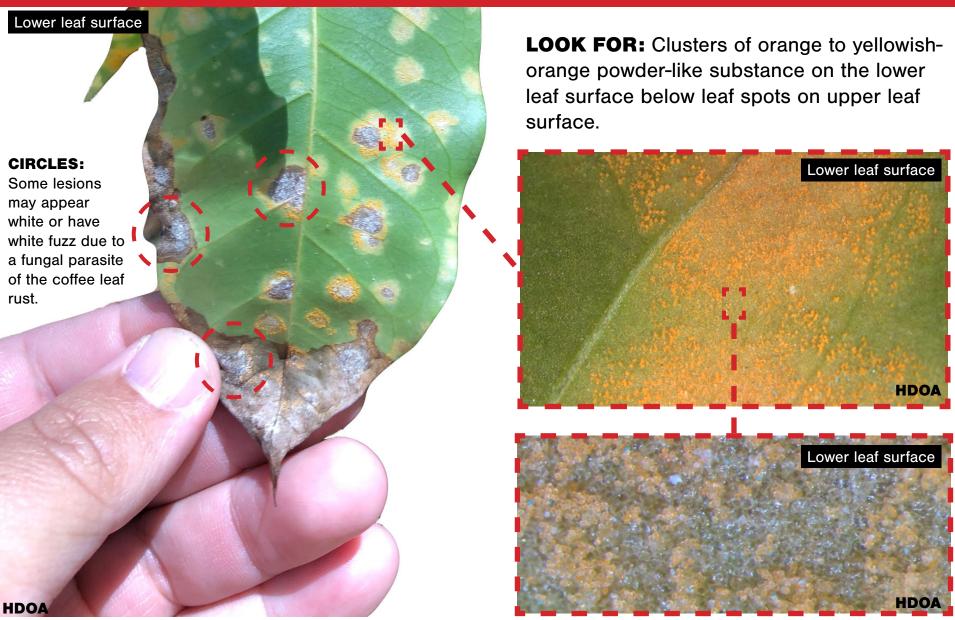




J. Ocenar

No. 02-PP-2020 Revised 11-24-2020 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.

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 and 6).
- 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:			Dropping of green leaves			
Contact Phone:			Bare to nearly bare branches			
Date collected:			Irregular-shaped, yel	Irregular-shaped, yellowish spots or lesions on leaves, which		
Farm name:			may or may not have brown centers			
Address:			Clusters of orange to yellow-orange powder-like substance on the lower leaf surface below leaf spots on upper leaf surface			
Location Type (Indicate or describe in Other):			Number of plants affected:			
Farm	Nursery	Residence	Wild growing	Other:		
This will be filled out by lab.						
Received by:			Action taken:			
Date received:						
Final ID:			Notes:			
Identifier:						
Date identified:						