

IMPORTANT: Sample data may be used as evidence in investigations and enforcement. Please adhere to all guidelines and specifications in this document.

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Basic collection protocols for cocoa

- 1. Do not sample without written permission.
- 2. Each sampling location has 5 sampling points in a dice-like pattern.
- 3. The outer points are approximately 5 km from the center, with 3 km radius of flexibility.
- 4. Install & register the World Forest ID App before departure.
- 5. Ensure there is more than one phone with a registered App.
- 6. Keep GPS on and have backup power.
- 7. Sample ripe, mature cocoa pods.
- 8. Collect 4 cocoa pods and 2 leaves from one tree at each sampling point.
- 9. Choose high yielding trees that are free from disease.
- 10. Sample the largest and heaviest pods on the tree.
- 11. Follow all safety procedures.

Potential hazards and safety procedures



FALLING PODS: Be aware of falling cocoa pods, wear head protection when working near trees.

HEAT EXHAUSTION: Stay hydrated and avoid working during the hottest hours of the day.

FARM MACHINERY: Be aware of hazardous machinery and ensure you are visible.

PESTICIDES: Avoid recently sprayed trees and wear protective clothing/gloves.

ALLERGIES: Be cautious of potential sensitivity to cocoa tree sap, cocoa seeds or mold & fungi. Wear protective clothing and gloves while sampling, avoid touching your face or sensitive areas, and wash your hands thoroughly after contact.

THEFT OR VIOLENCE: Avoid working alone and stay informed about civil unrest to avoid high-risk areas.

SNAKES & SPIDERS: Wear appropriate footwear and take necessary precautions.

Preparation and equipment

Before departing on an expedition:

- 1. Confirmed in which locations you're sampling
- 2. Been briefed on potential dangers and have appropriate PPE
- 3. Completed a kit check with your expedition leader
- 4. Pre-labeled all sample bags & applied barcodes
- 5. Disclosed any relevant health conditions you have.
- 6. Contact details for the nearest medical facility.



Kit checklist

Print this page to help with your kit check

PAPERWORK / LABELING / CONTAINMENT		
	Printed/signed collection approval form	
	Barcode sheets	
	Proforma labels	
	large plastic bag	
	Clipboard	
	Pens and permanent or paint markers	
	Backpack for sample storage	
	Paper Bags	
HE	ALTH & SAFETY/PPE/CLOTHING	
	First Aid kit/Snake Bite Kit	
	Hi-Viz vest	
	Gloves	
	Insect-protective clothing/repellent	
	Snakegators	
NAVIGATION		
	Smartphones with World Forest ID App	
	Powerbank for smartphones	
	GPS App or device with backup power	
	Printed map & compass	
TOOLS FOR COCOA SAMPLING		
	Pruning shears/Secateurs	

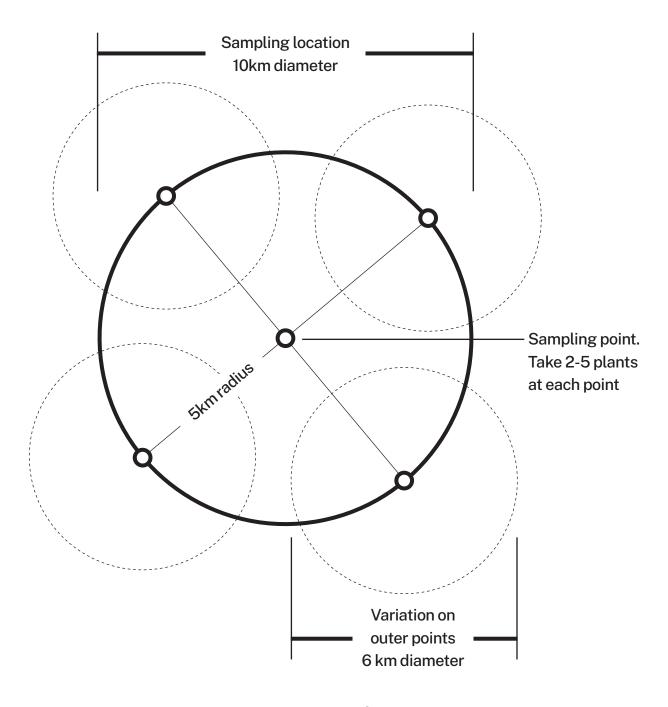
Navigation

- 1. Use a standalone GPS device or smartphone app with offline maps for accurate navigation. Recommended apps:
 - AllTrails
 - Gaia GPS
 - Locus Map
 - ViewRanger
- 2. Keep the device powered on throughout the day to increase accuracy and have a power bank or extra batteries on hand.
- 3. Bring a compass and map as backup.



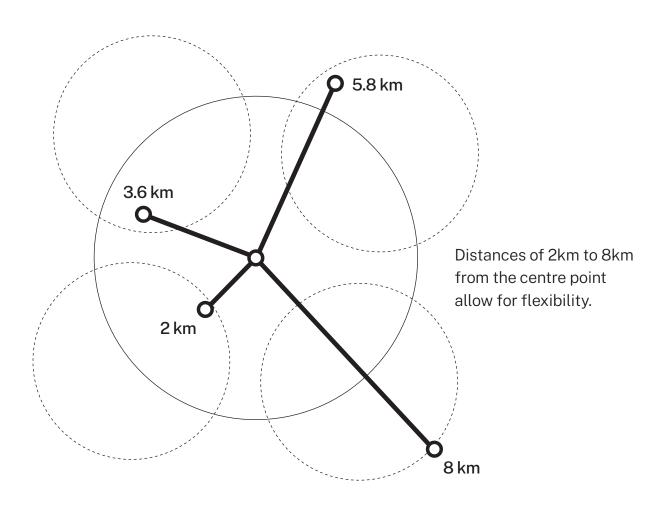
Sample Mapping

- 1. Each sampling location is composed of 5 sampling points.
- 2. The outer points should be approximately 5 km from the center point, resembling the 5 dots you see on a dice.
- 3. The position of the outer points can vary within a 3 km radius to allow for any problems with access.
- 4. At each sampling point, collect 4 pods from one tree.





A real world example of a planned sampling location.



Cocoa pod selection

SEED QUANTITY: Sample the largest and heaviest pods as these are likely to have more seeds. Ripe pods should have a very slight rattle but feel firm and full.



RIPENESS: Even within the same species, local factors like climate and soil can cause variations in the appearance of ripe cocoa pods. Farmers or workers in the plantation are often best able to identify ripe pods based on color and experience.

SOUND/FIRMNESS: Avoid pods that 'rattle' significantly when shaken, as they are likely contain fewer seeds. Also, avoid overly soft or mushy pods.

Which cocoa pods to avoid

Avoid sampling from pods that show signs of:



Black Pod Disease



Witches' Broom Disease



Frosty Pod Rot



Vascular-streak Dieback



Cacao Swollen Shoot Virus (CSSV)



Physical damage or abnormal development



Cocoa pod borer



Helopeltis/mirids

Cocoa Sampling process



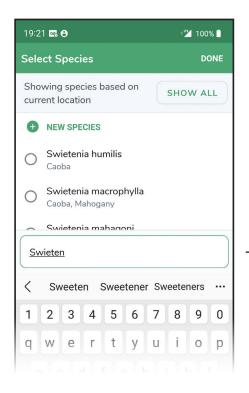
World Forest ID App usage



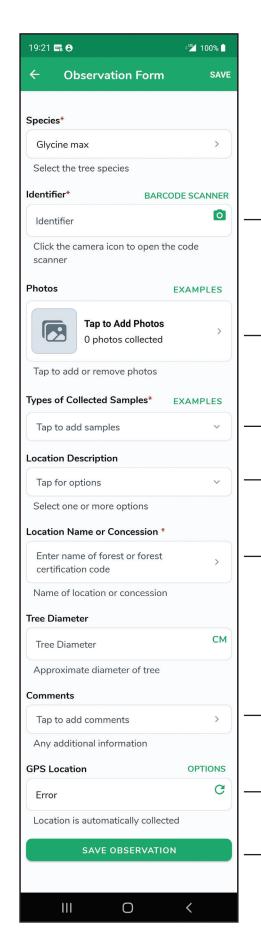
IMPORTANT: Ensure you register for, update, and open the World Forest ID App prior to the expedition. Have the App installed on at least two smartphones.



Tap "New Observation".



Search for the species name you are collecting, select it, then tap 'DONE'.



Scan the barcode on the Proforma and verify that the number on the Proforma and App match.

Take photographs of: Tree / Pod / Surroundings / Leaf / barcode



—— Check 'Agricultural'.

—— Check 'Plantation'.

Check 'New forest', then enter name of the farm.

Enter plant variety (e.g. forastero, criollo, trinitario, nacional), soil type, climate, irrigation (yes/no), pesticide, herbicide, fertilizer treatments, including brand names if known.

If location is not automatically shown enter coordinates from GPS device.

When complete 'SAVE OBSERVATION'.

Completing the Proforma

ALL SAMPLES IN THIS BAG MUST COME FROM THE SAME TREE



Use App or GPS device for accurate location.

Barcode number on the proforma and all samples inside the bag must be identical.

Our PDF guides

WOOD

Collection guide for wood

Drying guide for wood

Dispatch guide for wood

SOY

Collection guide for soy

Drying guide for soy

Dispatch guide for soy

COCOA

Collection guide for cocoa

Drying guide for cocoa

Dispatch guide for cocoa

OIL PALM

Collection guide for oil palm

Drying guide for oil palm

Dispatch guide for oil palm

COFFEE

Collection guide for coffee

Drying guide for coffee

Dispatch guide for coffee

GENERAL

World Forest ID overview

Tool maintenance

Expedition planning

