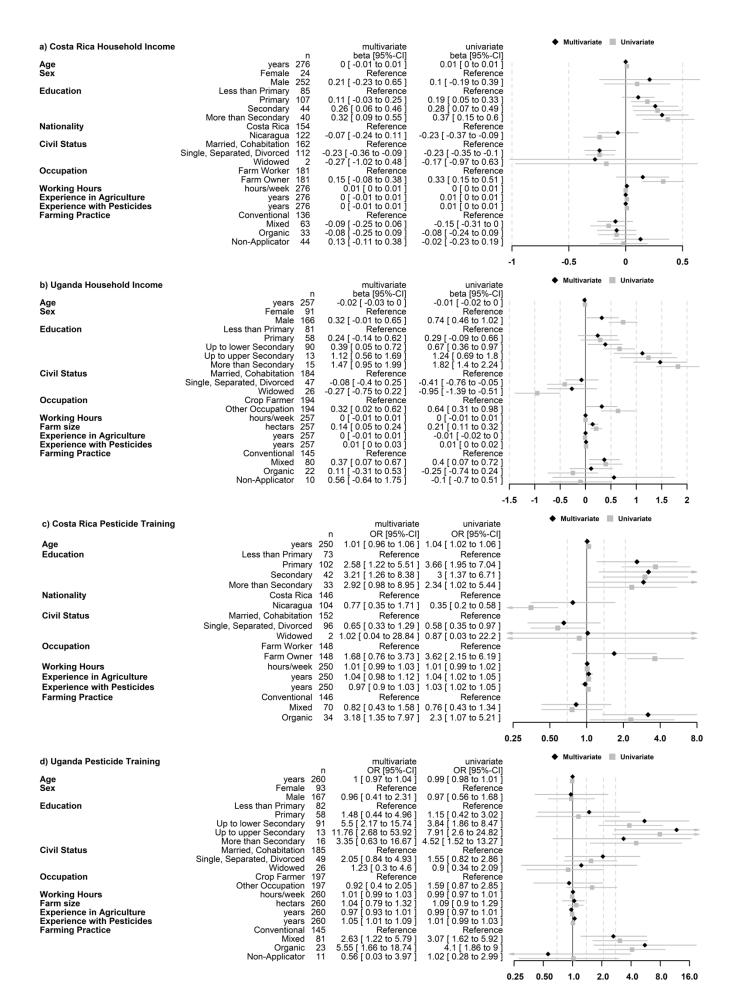


Supplementary Figure SF1: Major crops grown by country and farming practice. Major indicates the crops cultivated by the most farmers, not applying any threshold.



Supplementary Figure SF2: a) and b): Forest plot with coefficients for robust regression of logarithmic household income and its predictors. c) and d) Forest plot with Odds Ratio for logistic regression of received pesticide training and its predictors.

Supplementary Table ST1: Variables and questions used in the survey. Stars (*) denote that the question or the answer is referring to the list of options in Supplementary Table ST2, indicating either repetition of the question for each item on the list, or the option to select any item from the list.

Variable name and question	Type	Unit / Categories
Socio-demographic characteristics		
Sex	Single choice	Female Male
Age: "How old are you?"	Integer	Years
Education, derived from: "What is the highest level of school you completed? Which specific year?"	Integer	Years
Marital status: "What is your current marital status?"	Single choice	Single Married Cohabitation Separated Divorced Widowed
Nationality: "What country were you born in?"	Single choice	Costa Rica Nicaragua Uganda Tanzania Rwanda
Socio-economic and occupational characteristics		1111000
(Farming) practice	Derived from pesticide use and occupational variables	Non-Applicator Organic Mixed Conventional
Years of experience in agriculture, derived from age and "How old were you when you started working on agricultural farms?" and age	Integer	Years
Years of experience spraying/handling pesticides, derived from age and "At what age did you start mixing or applying synthetic pesticides?"	Integer	Years
Monthly household income: "On average how much money do you make in a month? Please include everyone who contributes to the income of the household: Household head, partner, children, relatives etc."	Integer	Costa Rican Colon (CRC) / Ugandan Shilling (UGX)

Variable name and question	Type	Unit / Categories
Job position / main profession: "How do you consider your position in relation to that farm?" / "What is your main occupation?"	Single Choice	Costa Rica: Producer (Farm owner) Farm worker Uganda: Crop Farmer Other (aggregated from other options)
Worktime, derived from "On average, how many hours do you spend per working day in the field?" and "On average, on all the farms together, how many days do you work per week?"	Integer	Hours per week
Pesticide active ingredients used at the farm over the last twelve months, derived from "During the last twelve months, have you prepared or applied this pesticide* in your farms for crops, for your livestock, or against pests around your house or inside your house?"	Single choice	No Yes Don't know
Pesticide active ingredients used at the farm over the last seven days, derived from "Have you prepared or applied this pesticide* in the last seven days?"	Single choice	No Yes Don't know
For each active ingredient*: "How many hours have you applied this pesticide in the last seven days?"	Integer	Hours per week
For each active ingredient*: "On how many acres have you used this pesticide in the last twelve months?"	Integer	Hectares (derived from acres)
Farm size: "In acres, how big is the total area you are cultivating crops on these farms?"	Integer	Hectares
Crops cultivated: "What are the three major crop you are currently growing?"	Multiple choice	List of country specific crops*
Distance between farm and water source: "How many meters is your farm away from a river or spring?"	Integer	Meters
Knowledge, attitude and practices	T	
Training in pesticide use "Have you ever been trained on how to apply pesticides?"	Single choice	No Yes Don't know
Training provider: "Who trained you?"	Text	-
Health risk awareness: "Do you believe that pesticides can affect your own health?"	Single choice	No Yes Don't know
Entry sites to the body: "Through which body parts do you think pesticides can enter us?"	Multiple choice	Skin Nose Mouth Eyes

Variable name and question	Type	Unit / Categories
•	• •	None
		Other (specify)
Bathing after handling/application of pesticides:	Single choice	Immediately after
"How long after you applied pesticides do you take	C	Few hours later
a bath?"		Many hours later
		The next day or later
Changing of clothes: "How long after you applied	Single choice	Immediately after
pesticides do you change your clothes?"	C	Few hours later
		Many hours later
		The next day or later
Clothes washing: "Who washes the clothes used in	Single choice	Me
pesticide application?"	C	Family Member
		Washerwoman
		They aren't washed
Disposal of residual water: "Where do you discharge	Multiple choice	On the farm
the water after washing the pesticide application	1	Garden of the house
equipment?"		In the drain
		In the river
		In the biobed
		In the pit latrine / in
		the garbage
		Where pesticides
		are mixed
Container disposal: "What do you do with empty	Multiple choice	Burry them
pesticide containers or bags?"	•	Recycling
		Leave in the
		field/garden
		Throw in pit latrine
		Dispose in
		garbage/landfill
		Burn them
		Kept for unknown
		reasons
		Kept for reuse
PPE* access: "Do you have access to this	Single choice	No
equipment?"		Yes
		Don't know
PPE* wearing "Do you wear this protective	Single choice	No
equipment when preparing or applying pesticides?"		Yes
		Don't know
PPE* frequency: "How often do you use this	Single choice	Always (100%)
protective equipment when preparing or applying		Often (75%)
pesticides?"		Sometimes (50%)
		Rarely (25%)
1		Never (0%)

Variable name and question	Type	Unit / Categories
		Don't know

Supplementary Table ST2: Listed options and variables for starred (*) items in Supplementary Table ST1.

The Control of the Control	D 11.1
List of pesticide active ingredients Costa Rica	Boscalid
	Carbendazim
	Chlorothalonil
	Mancozeb
	Propamocarb
	Propineb
	Glyphosate
	Paraquat
	Acephate
	Benfuracarb
	Carbofuran
	Chlorpyrifos
	Cypermethrin
	Fenamiphos
	Phorate
List of pesticide active ingredients Uganda	Mancozeb
	2,4-D
	Glyphosate
	Paraquat
	Carbaryl
	Carbofuran
	Chlorpyrifos
	Cypermethrin
	Deltamethrin
	Diazinon
	Dichlorvos
	Dimethoate
	Lambda-Cyhalothrin
	Permethrin
	Profenofos
List of crops Costa Rica	Cabbage
	Carrot
	Cauliflower
	Chilly
	Coriander
	Egg plant
	Flowers
	Garlic
	Lettuce
	Onions

	Parsley	
	Potato	
	Tomato	
	Other (specify)	
List of Crops Uganda	Banana	
	Beans	
	Cassava	
	Ground nuts	
	Maize	
	Okra	
	Onion	
	Passion Fruit	
	Pepper	
	Sugar cane	
	Sweet (potato)	
	Water melon	
	Yam	
	Other (specify)	
List of PPE	Hat	
	Glasses	
	Mask with carbon filter	
	Mask without carbon filter	
	Long-sleeved shirt	
	Poncho	
	Overall or kimono	
	Rubber apron	
	Gloves	
	Long pants	
	Waterproof pants	
	Gaiters	
	Rubber boots	