

# Good Growth Plan 2021-2022

**Syngenta**

report\_generated\_on: January 30, 2023

visit\_data\_catalog\_at: <https://microdata.worldbank.org/index.php>



## Identification

### SURVEY ID NUMBER

KEN\_2021-2022\_GGP-P\_v01\_M\_v01\_A\_OCS

### TITLE

Good Growth Plan 2021-2022

### COUNTRY/ECONOMY

Name	Country code
Kenya	KEN

### STUDY TYPE

Agricultural Survey [ag/oth]

### ABSTRACT

Syngenta is committed to increasing crop productivity and to using limited resources such as land, water and inputs more efficiently. Since 2014, Syngenta has been measuring trends in agricultural input efficiency on a global network of real farms.

The Good Growth Plan dataset shows aggregated productivity and resource efficiency indicators by harvest year. The data has been collected from more than 700 farms and covers more than 10 different crops in 7 African countries.

### KIND OF DATA

Sample survey data [ssd]

### UNIT OF ANALYSIS

Agricultural holdings

## Scope

### NOTES

Data was collected on the usage of inputs, such as crop protection products, chemical fertilizer, seeding rates, labor hours, machinery usage hours, and marketable crop yield on a per hectare basis.

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name
Syngenta

## Sampling

### SAMPLING PROCEDURE

#### A. Sample design

Farms are grouped in clusters, which represent a crop grown in an area with homogenous agro- ecological conditions and



include comparable types of farms. The sample includes reference and benchmark farms.

#### B. Sample size

Sample sizes for each cluster are determined with the aim to measure statistically significant increases in crop efficiency over time. This is done based on target productivity increases and assumptions regarding the variability of farm metrics in each cluster. The smaller the expected increase, the larger the sample size needed to measure significant differences over time. Variability within clusters is assumed based on public research and expert opinion. In addition, growers are also grouped in clusters as a means of keeping variances under control, as well as distinguishing between growers in terms of crop size, region and technological level. A minimum sample size of 20 interviews per cluster is needed. The minimum number of reference farms is 5 of 20. The optimal number of reference farms is 10 of 20 (balanced sample).

#### WEIGHTING

No weighting.

## data\_collection

#### DATES OF DATA COLLECTION

Start	End
2021	2022

#### DATA COLLECTION MODE

Computer Assisted Personal Interview [capi]

## Access policy

#### CONTACTS

Name	Affiliation	Email
The Good Growth Plan team	Syngenta	goodgrowthplan.data@syngenta.com

#### CONFIDENTIALITY

The users shall not take any action with the purpose of identifying any individual entity (i.e. person, household, enterprise, etc.) in the micro dataset(s). If such a disclosure is made inadvertently, no use will be made of the information, and it will be reported immediately to FAO

#### ACCESS CONDITIONS

Micro datasets disseminated by FAO shall only be allowed for research and statistical purposes. Any user which requests access working for a commercial company will not be granted access to any micro dataset regardless of their specified purpose. Users requesting access to any datasets must agree to the following minimal conditions:

- The micro dataset will only be used for statistical and/or research purposes;
- Any results derived from the micro dataset will be used solely for reporting aggregated information, and not for any specific individual entities or data subjects;
- The users shall not take any action with the purpose of identifying any individual entity (i.e. person, household, enterprise, etc.) in the micro dataset(s). If such a disclosure is made inadvertently, no use will be made of the information, and it will be reported immediately to FAO;
- The micro dataset cannot be re-disseminated by users or shared with anyone other than the individuals that are granted access to the micro dataset by FAO.

#### CITATION REQUIREMENTS

The Good Growth Plan Progress Data - Productivity 2021-2022

## Disclaimer and copyrights

#### DISCLAIMER

The user of the data acknowledges that the original collector of the data, the authorized distributor of the data, and the relevant funding agency bear no responsibility for use of the data or for interpretations or inferences based upon such uses



## Metadata production

---

### DDI DOCUMENT ID

DDI\_KEN\_2021-2022\_GGP-P\_v01\_M\_v01\_A\_OCS

### PRODUCERS

Name	Abbreviation	Affiliation	Role
Office of Chief Statistician	OCS	Food and Agriculture Organization	Metadata producer
Development Economics Data Group	DECDG	The World Bank	Metadata adapted for World Bank Microdata Library

### DATE OF METADATA PRODUCTION

2023-01-30

### DDI DOCUMENT VERSION

Version 01 (January 2023): This metadata was downloaded from the FAO website (<https://microdata.fao.org/index.php/catalog>) and it is identical to FAO version (KEN\_2021-2022\_GGP-P\_v01\_EN\_M\_A\_OCS). The following two metadata fields were edited - Document ID and Survey ID.



**data\_dictionary**

<b>Data file</b>	<b>Cases</b>	<b>variables</b>
<b>data_anon_pre_planting_kenya</b>	0	53
<b>data_anon_post_harvest_kenya</b>	0	56
<b>data_anon_fertilizer_kenya</b>	0	13
<b>data_anon_crop_protection_kenya</b>	0	10







**Data file: data\_anon\_pre\_planting\_kenya**

Cases: 0

variables: 53

**variables**

ID	Name	Label	Question
V1	id	ID	
V2	country	Country	
V3	ref_benchmark	Reference Farm or Benchmark Farm?	
V4	offer	Are we allowed to get back in touch with you for potential interesting commercial offers you might be interested in (based on your answers)?	
V5	use_data	Do you allow that we can use your data (anonymized) in external publishing as statistics?	
V6	citytown	City/town where you live	
V7	owner_gender	Gender of farm owner	
V8	fulltime	Are you a full-time or part-time farmer?	
V9	crop	Select the crop you are surveying	
V10	member	Are you a member of a producer group, association or cooperative for ?	
V11	crop_size	What is the size of the crop?	
V12	crop_size_unit	Specify units:	
V13	crop_program	Did you receive any crop program for your to implement this season?	
V14	program_from	From whom did you receive the crop program or recommendations?	
V15	follow_recommendation	Can you please indicate whether you will follow the recommended crop program or recommendations this season?	
V16	finance	Do you use any finance schemes to fund your farming activities?	
V17	sustainable_practice	How familiar are you with sustainable agricultural practices?	
V18	erosion_water	Do you have signs of soil erosion by water on your farm?	
V19	erosion_wind	Do you have signs of soil erosion by wind on your farm?	
V20	cover_crop	Have you started growing a cover crop to manage soil health in the past 20 years on the growing area(s) for ?	
V21	soil_type	What is the soil type of growing area?	
V22	soil_test	Have you ever analyzed your soil for nutrient, texture and soil composition?	
V23	soil_test_time	If you have analyzed your soil, when was the last time you did execute this?	
V24	intercropping	Do you practice intercropping (growing multiple crops on the same growing area in the same season) on each growing area for ?	
V25	intercrop_crops	Which main crops do you intercrop on each growing area with ?	
V26	main_intercrop	Which other main crops do you intercrop on each growing area with ?	
V27	rotate	Do you rotate crops on each growing area for ?	
V28	rotate_crop	What crops are you cultivating in rotation on each growing area for?	
V29	rotate_previous	In terms of rotation, what was the previous crop cultivated on each growing area for ?	
V30	advice_from	Where else do you seek advice when deciding what and when to spray?	
V31	attended_training	Have you attended a training or farmers meeting on crop growing and/or agricultural practices in the past 2 years?	
V32	safe_use	During the training/farmers meeting, did they talk at least 15 minutes about safe-use practices related to crop protection products, fertilizers etc?	
V33	to_learn	What else would you like to learn, to improve your farming?	



ID	Name	Label	Question
V34	label_info	Does the product label give you the information you need to get the best from the product?	
V35	empty_container	What do you do with empty container of pesticides you use in your farm?	
V36	where_help	If you have an incident with a crop protection product, do you know where to go for help?	
V37	if_accident	Has there ever been a crop protection usage accident on your farm that has impacted your health & safety or others?	
V38	accident_medical	Did the accident result in seeking a medical treatment?	
V39	product	Could you please note down the product name of the variety that has been used?	
V40	sowing_date	What was the sowing / transplanting date of the crop this season?	
V41	field_preparation	When did the first field preparation start for each growing area?	
V42	seeds_kg	What is the amount of seeds in kilogram that has been sown per hectare?	
V43	tomato_seedlings	What is the amount of tomato seedlings that has been sown?	
V44	seed_source	From which source did you obtain your main seed variety?	
V45	seed_coated	Are your seeds coated with crop protection products?	
V46	pollination	Can you please tell us what kind of pollination applies to your main seed variety?	
V47	seed_characteristics	According to you, what are the three most important characteristics when selecting your main seed variety?	
V48	farm_activities	Please describe if you performed the following activities	
V49	power_machinery	Did you use power-driven machinery for the activities?	
V50	ipm_familiar	Are you familiar with IPM (Integrate Pest Management) concept?	
V51	ipm_farm	Are your farm interventions taking any of the IPM principles/recommendations into consideration?	
V52	pesticide_sprays	Do you do your own pesticide sprays?	
V53	person_spray	Who does it for you?	

total: 53



**Data file: data\_anon\_post\_harvest\_kenya**

Cases: 0

variables: 56

**variables**

ID	Name	Label	Question
V54	id_to_match_pre_planting	id to match pre planting dataset	
V55	id	ID	
V56	soil_test	Screening Farming Practise Did you perform a soil test for each growing area of ?	
V57	fertilizer	Screening Farming Practise Did you apply any type of fertilizer?	
V58	crop_protection	Screening Farming Practise Did you apply any type of Crop protection inputs?	
V59	crop_injury	Screening Farming Practise Did you experience any crop injury after you applied the product?	
V60	herbicide_target	Screening Farming Practise What was your intention to target with the herbicide?	
V61	postharvest_treatment	Screening Farming Practise Did you use any post harvest treatment?	
V62	yield_metric	Select yield metric (for this field surveyed):	
V63	weight_bag	Enter the weight of one bag in kg:	
V64	n_bags	Enter the number of bags harvested:	
V65	ttl_harvest_kg	Enter the total amount of harvest in kg for this field:	
V66	value	Enter the yield value in t/ha:	
V67	expectation	Did the yield of this field met your expectations?	
V68	yield_compare	Compared to previous year, would you say your yield per hectare has â€¦	
V69	damaged_pct	What is the percentage of harvested crop damaged at the time of harvest?	
V70	damaged_reason	Can you please indicate which main three factors contributed to this percentage of harvested crop damaged?	
V71	pest	Which pests did you encounter during storage?	
V72	own_consumption	Did you keep a part of the marketable yield for own consumption?	
V73	pct_own	What was the percentage of harvest you used for own consumption?	
V74	keep_seed	Did you keep a part of the marketable yield for having seed for the upcoming season?	
V75	seed_pct	What was the percentage of harvest you used for saving seed?	
V76	spray_guide	Do you receive guidelines from buyer/exporter advisors for spraying products on your crop, as part of buyer / export program?	
V77	input_from	Where do you usually buy your Input products from?	
V78	get_products	Did you get the products you wanted to buy?	
V79	get_products_why	Why?	
V80	ttl_land_perm	What is the total land cultivated in Ha with permanent crops (including the land rented in this season)?	
V81	ttl_land_temp	What is the total land cultivated in Ha with temporary crops (including the land rented in this season)?	
V82	ttl_fallow_land	What is the total amount Ha of fallow land (land left uncropped and not dedicated for grazing this season)?	
V83	c_tree_or_seed	What was your total amount/investment cost of your farm?Trees or seeds:	
V84	c_ferti	What was your total amount/investment cost of your farm?Fertilizers:	
V85	c_pesti	What was your total amount/investment cost of your farm?Pesticides:	



ID	Name	Label	Question
V86	c_labor	What was your total amount/investment cost of your farm?Labor:	
V87	c_machi	What was your total amount/investment cost of your farm?Machinery:	
V88	c_water	What was your total amount/investment cost of your farm?Water use:	
V89	c_fuel	What was your total amount/investment cost of your farm?Fuel:	
V90	c_electri	What was your total amount/investment cost of your farm?Electricity:	
V91	c_gas	What was your total amount/investment cost of your farm?Gas:	
V92	c_rent	What was your total amount/investment cost of your farm?Rent/loans for growing areas:	
V93	ttl_rev	What was your total revenue you achieved on your farm this season?	
V94	ttl_own_consumption	What is the total amount in USD of crops harvest used for own consumption?	
V95	ttl_stored_sell	What is the total amount in USD of crops stored you plan to sell at a later stage?	
V96	ttl_feed	What is the total amount in USD of crops harvested used for feeding animals?	
V97	ttl_byprod	What is the total amount in USD of crops used for by products (oil from Olive, flours from wheat, etc?)	
V98	ttl_sharecropping	What is the total amount in USD of crops exchanged in share cropping arrangements?	
V99	price_satisfied	How satisfied are you with the price you received on the market for your produce?	
V100	est_rev_field	What is the estimated revenue in USD of this field we are asking during this survey?	
V101	profitable	Do you consider yourself profitable?	
V102	adv_weather	Has the crop grown been impacted by adverse weather conditions?	
V103	water_source	What is the MAIN water source during this season?	
V104	agro_advice	Are you getting enough agronomic advice?	
V105	newly_seed	What would most convince you to purchase a newly marketed seed variety?	
V106	spraying_advice	Do you follow the label advice when preparing for spraying?	
V107	pollinators	Are you aware of recommendation/precautions you need to follow on potential impact on pollinators when spraying?	
V108	season_accident	Did you experience any accident or bad experience at all during this season? Anything on field, chemical, operation etc.?	
V109	country	Country	

total: 56



**Data file: data\_anon\_fertilizer\_kenya**

Cases:	0
variables:	13

**variables**

ID	Name	Label	Question
V110	owner	Owner	
V111	id	ID	
V112	parent_spreadsheet	Parent spreadsheet	
V113	timing_of_product_application	Timing of product application:	
V114	type_of_product	Type of product:	
V115	brand_or_product_description	Brand product name or product description:	
V116	unit_of_quantity	Unit of quantity:	
V117	dosage	Dosage:	
V118	percentage_n_nitrogen	Percentage N Nitrogen:	
V119	percentage_p_phosphorus	Percentage P Phosphorus:	
V120	percentage_k_potassium	Percentage K potassium:	
V121	equipment_type_used	Equipment type used:	
V122	country	Country	

total: 13



**Data file: data\_anon\_crop\_protection\_kenya**

Cases:	0
variables:	10

**variables**

ID	Name	Label	Question
V123	owner	Owner	
V124	id	ID	
V125	parent_spreadsheet	Parent spreadsheet	
V126	timing_of_product_application	Timing of product application:	
V127	type_of_product	Type of product:	
V128	unit_of_quantity	Unit of quantity:	
V129	dosage	Dosage:	
V130	pest_disease_weed_targeted	Pest/disease/weed targeted:	
V131	equipment_type_used	Equipment type used:	
V132	country	Country	

total: 10







**ID: ID****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 6 Range: - Format: character

**MEMBER: Are you a member of a producer group, association or cooperative for ?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**COUNTRY: Country****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 5 Range: - Format: character

**REF\_BENCHMARK: Reference Farm or Benchmark Farm?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 14 Range: - Format: character

**OFFER: Are we allowed to get back in touch with you for potential interesting commercial offers you might be interested in (based on your answers)?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**USE\_DATA: Do you allow that we can use your data (anonymized) in external publishing as statistics?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0



Type: Discrete    Width: 3    Range: -    Format: character

---

### **CITYTOWN: City/town where you live**

**Data file:** data\_anon\_pre\_planting\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 18    Range: -    Format: character

---

### **OWNER\_GENDER: Gender of farm owner**

**Data file:** data\_anon\_pre\_planting\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 6    Range: -    Format: character

---

### **FULLTIME: Are you a full-time or part-time farmer?**

**Data file:** data\_anon\_pre\_planting\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 87    Range: -    Format: character

---

### **CROP: Select the crop you are surveying**

**Data file:** data\_anon\_pre\_planting\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 6    Range: -    Format: character

---

### **CROP\_SIZE: What is the size of the crop?**

**Data file:** data\_anon\_pre\_planting\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 19    Range: -    Format: character

---

### **CROP\_SIZE\_UNIT: Specify units:**

**Data file:** data\_anon\_pre\_planting\_kenya



**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 8 Range: - Format: character

**CROP\_PROGRAM: Did you receive any crop program for your to implement this season?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0

Type: Discrete Width: 131 Range: - Format: character

**PROGRAM\_FROM: From whom did you receive the crop program or recommendations?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 37 Range: - Format: character

**FOLLOW\_RECOMMENDATION: Can you please indicate whether you will follow the recommended crop program or recommendations this season?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 10 Range: - Format: character

**FINANCE: Do you use any finance schemes to fund your farming activities?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**SUSTAINABLE\_PRACTICE: How familiar are you with sustainable agricultural practices?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 24 Range: - Format: character



**EROSION\_WATER: Do you have signs of soil erosion by water on your farm?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**EROSION\_WIND: Do you have signs of soil erosion by wind on your farm?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**COVER\_CROP: Have you started growing a cover crop to manage soil health in the past 20 years on the growing area(s) for ?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**SOIL\_TYPE: What is the soil type of growing area?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 20 Range: - Format: character

**SOIL\_TEST: Have you ever analyzed your soil for nutrient, texture and soil composition?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**SOIL\_TEST\_TIME: If you have analyzed your soil, when was the last time you did execute this?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 19 Range: - Format: character



**INTERCROPPING: Do you practice intercropping (growing multiple crops on the same growing area in the same season) on each growing area for ?**

Data file: data\_anon\_pre\_planting\_\_kenya

#### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 3 Range: - Format: character

**INTERCROP\_CROPS: Which main crops do you intercrop on each growing area with ?**

Data file: data\_anon\_pre\_planting\_\_kenya

#### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 12 Range: - Format: character

**MAIN\_INTERCROP: Which other main crops do you intercrop on each growing area with ?**

Data file: data\_anon\_pre\_planting\_\_kenya

#### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 27 Range: - Format: character

**ROTATE: Do you rotate crops on each growing area for ?**

Data file: data\_anon\_pre\_planting\_\_kenya

#### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 3 Range: - Format: character

**ROTATE\_CROP: What crops are you cultivating in rotation on each growing area for?**

Data file: data\_anon\_pre\_planting\_\_kenya

#### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 17 Range: - Format: character

**ROTATE\_PREVIOUS: In terms of rotation, what was the previous crop cultivated on each growing area for ?**

Data file: data\_anon\_pre\_planting\_\_kenya



**Overview**

Valid: 0    Invalid: 0  
 Type: Discrete    Width: 11    Range: -    Format: character

---

**ADVICE\_FROM: Where else do you seek advice when deciding what and when to spray?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0    Invalid: 0  
 Type: Discrete    Width: 70    Range: -    Format: character

---

**ATTENDED\_TRAINING: Have you attended a training or farmers meeting on crop growing and/or agricultural practices in the past 2 years?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0    Invalid: 0  
 Type: Discrete    Width: 3    Range: -    Format: character

---

**SAFE\_USE: During the training/farmers meeting, did they talk at least 15 minutes about safe-use practices related to crop protection products, fertilizers etc?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0    Invalid: 0  
 Type: Discrete    Width: 3    Range: -    Format: character

---

**TO\_LEARN: What else would you like to learn, to improve your farming?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0  
 Type: Discrete    Width: 255    Range: -    Format: character

---

**LABEL\_INFO: Does the product label give you the information you need to get the best from the product?**

Data file: data\_anon\_pre\_planting\_\_kenya

**Overview**

Valid: 0    Invalid: 0  
 Type: Discrete    Width: 3    Range: -    Format: character



**EMPTY\_CONTAINER: What do you do with empty container of pesticides you use in your farm?**

Data file: data\_anon\_pre\_planting\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 53 Range: - Format: character

**WHERE\_HELP: If you have an incident with a crop protection product, do you know where to go for help?**

Data file: data\_anon\_pre\_planting\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**IF\_ACCIDENT: Has there ever been a crop protection usage accident on your farm that has impacted your health & safety or others?**

Data file: data\_anon\_pre\_planting\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**ACCIDENT\_MEDICAL: Did the accident result in seeking a medical treatment?**

Data file: data\_anon\_pre\_planting\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**PRODUCT: Could you please note down the product name of the variety that has been used?**

Data file: data\_anon\_pre\_planting\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 73 Range: - Format: character



**SOWING\_DATE: What was the sowing / transplanting date of the crop this season?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 10 Range: - Format: character

**FIELD\_PREPARATION: When did the first field preparation start for each growing area?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 10 Range: - Format: character

**SEEDS\_KG: What is the amount of seeds in kilogram that has been sown per hectare?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 5 Range: - Format: character

**TOMATO\_SEEDLINGS: What is the amount of tomato seedlings that has been sown?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 5 Range: - Format: character

**SEED\_SOURCE: From which source did you obtain your main seed variety?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 52 Range: - Format: character

**SEED\_COATED: Are your seeds coated with crop protection products?****Data file:** data\_anon\_pre\_planting\_\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character



**POLLINATION: Can you please tell us what kind of pollination applies to your main seed variety?**

Data file: data\_anon\_pre\_planting\_\_kenya

### Overview

Valid: 0

Type: Discrete    Width: 138    Range: -    Format: character

**SEED\_CHARACTERISTICS: According to you, what are the three most important characteristics when selecting your main seed variety?**

Data file: data\_anon\_pre\_planting\_\_kenya

### Overview

Valid: 0

Type: Discrete    Width: 148    Range: -    Format: character

**FARM\_ACTIVITIES: Please describe if you performed the following activities**

Data file: data\_anon\_pre\_planting\_\_kenya

### Overview

Valid: 0

Type: Discrete    Width: 255    Range: -    Format: character

**POWER\_MACHINERY: Did you use power-driven machinery for the activities?**

Data file: data\_anon\_pre\_planting\_\_kenya

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 3    Range: -    Format: character

**IPM\_FAMILIAR: Are you familiar with IPM (Integrate Pest Management) concept?**

Data file: data\_anon\_pre\_planting\_\_kenya

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 3    Range: -    Format: character

**IPM\_FARM: Are your farm interventions taking any of the IPM principles/recommendations**



## into consideration?

**Data file:** data\_anon\_pre\_planting\_kenya

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 3    Range: -    Format: character

---

## PESTICIDE\_SPRAYS: Do you do your own pesticide sprays?

**Data file:** data\_anon\_pre\_planting\_kenya

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 3    Range: -    Format: character

---

## PERSON\_SPRAY: Who does it for you?

**Data file:** data\_anon\_pre\_planting\_kenya

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 35    Range: -    Format: character

---



**ID\_TO\_MATCH\_PRE\_PLANTING: id to match pre planting dataset****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 6 Range: - Format: character

**ID: ID****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 6 Range: - Format: character

**SOIL\_TEST: Screening Farming Practise Did you perform a soil test for each growing area of ?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**FERTILIZER: Screening Farming Practise Did you apply any type of fertilizer?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 8 Range: - Format: character

**CROP\_PROTECTION: Screening Farming Practise Did you apply any type of Crop protection inputs?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 11 Range: - Format: character

**CROP\_INJURY: Screening Farming Practise Did you experience any crop injury after you applied the product?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0



Type: Discrete    Width: 3    Range: -    Format: character

---

### **HERBICIDE\_TARGET: Screening Farming Practise What was your intention to target with the herbicide?**

**Data file:** data\_anon\_post\_harvest\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 4    Range: -    Format: character

---

### **POSTHARVEST\_TREATMENT: Screening Farming Practise Did you use any post harvest treatment?**

**Data file:** data\_anon\_post\_harvest\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 2    Range: -    Format: character

---

### **YIELD\_METRIC: Select yield metric (for this field surveyed):**

**Data file:** data\_anon\_post\_harvest\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 24    Range: -    Format: character

---

### **WEIGHT\_BAG: Enter the weight of one bag in kg:**

**Data file:** data\_anon\_post\_harvest\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 3    Range: -    Format: character

---

### **N\_BAGS: Enter the number of bags harvested:**

**Data file:** data\_anon\_post\_harvest\_kenya

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 3    Range: -    Format: character

---



**TTL\_HARVEST\_KG: Enter the total amount of harvest in kg for this field:****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 4 Range: - Format: character

**VALUE: Enter the yield value in t/ha:****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**EXPECTATION: Did the yield of this field met your expectations?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**YIELD\_COMPARE: Compared to previous year, would you say your yield per hectare has****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 15 Range: - Format: character

**DAMAGED\_PCT: What is the percentage of harvested crop damaged at the time of harvest?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

**DAMAGED\_REASON: Can you please indicate which main three factors contributed to this percentage of harvested crop damaged?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 61 Range: - Format: character



**PEST: Which pests did you encounter during storage?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 7 Range: - Format: character

**OWN\_CONSUMPTION: Did you keep a part of the marketable yield for own consumption?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**PCT\_OWN: What was the percentage of harvest you used for own consumption?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

**KEEP\_SEED: Did you keep a part of the marketable yield for having seed for the upcoming season?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**SEED\_PCT: What was the percentage of harvest you used for saving seed?****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

**SPRAY\_GUIDE: Do you receive guidelines from buyer/exporter advisors for spraying products on your crop, as part of buyer / export program?****Data file:** data\_anon\_post\_harvest\_kenya



## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

---

## INPUT\_FROM: Where do you usually buy your Input products from?

Data file: data\_anon\_post\_harvest\_kenya

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 74 Range: - Format: character

---

## GET\_PRODUCTS: Did you get the products you wanted to buy?

Data file: data\_anon\_post\_harvest\_kenya

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

---

## GET\_PRODUCTS\_WHY: Why?

Data file: data\_anon\_post\_harvest\_kenya

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 44 Range: - Format: character

---

## TTL\_LAND\_PERM: What is the total land cultivated in Ha with permanent crops (including the land rented in this season)?

Data file: data\_anon\_post\_harvest\_kenya

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 21 Range: - Format: character

---

## TTL\_LAND\_TEMP: What is the total land cultivated in Ha with temporary crops (including the land rented in this season)?

Data file: data\_anon\_post\_harvest\_kenya

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 18 Range: - Format: character

---



**TTL\_FALLOW\_LAND: What is the total amount Ha of fallow land (land left uncropped and not dedicated for grazing this season)?**

**Data file:** data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 19 Range: - Format: character

---

**C\_TREE\_OR\_SEED: What was your total amount/investment cost of your farm?Trees or seeds:**

**Data file:** data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 2 Range: - Format: character

---

**C\_FERTI: What was your total amount/investment cost of your farm?Fertilizers:**

**Data file:** data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 3 Range: - Format: character

---

**C\_PESTI: What was your total amount/investment cost of your farm?Pesticides:**

**Data file:** data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 3 Range: - Format: character

---

**C\_LABOR: What was your total amount/investment cost of your farm?Labor:**

**Data file:** data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 3 Range: - Format: character

---

**C\_MACHI: What was your total amount/investment cost of your farm?Machinery:**

**Data file:** data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0  
Type: Discrete Width: 3 Range: - Format: character



**C\_WATER: What was your total amount/investment cost of your farm?Water use:****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

**C\_FUEL: What was your total amount/investment cost of your farm?Fuel:****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

**C\_ELECTRI: What was your total amount/investment cost of your farm?Electricity:****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

**C\_GAS: What was your total amount/investment cost of your farm?Gas:****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

**C\_RENT: What was your total amount/investment cost of your farm?Rent/loans for growing areas:****Data file:** data\_anon\_post\_harvest\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

**TTL\_REV: What was your total revenue you achieved on your farm this season?****Data file:** data\_anon\_post\_harvest\_kenya



**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 8 Range: - Format: character

**EST\_REV\_FIELD: What is the estimated revenue in USD of this field we are asking during this survey?****Data file: data\_anon\_post\_harvest\_kenya****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 4 Range: - Format: character

**PROFITABLE: Do you consider yourself profitable?****Data file: data\_anon\_post\_harvest\_kenya****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**ADV\_WEATHER: Has the crop grown been impacted by adverse weather conditions?****Data file: data\_anon\_post\_harvest\_kenya****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 14 Range: - Format: character

**WATER\_SOURCE: What is the MAIN water source during this season?****Data file: data\_anon\_post\_harvest\_kenya****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 77 Range: - Format: character

**TTL\_OWN\_CONSUMPTION: What is the total amount in USD of crops harvest used for own consumption?****Data file: data\_anon\_post\_harvest\_kenya****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 7 Range: - Format: character



**TTL\_STORED\_SELL: What is the total amount in USD of crops stored you plan to sell at a later stage?**

Data file: data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 6 Range: - Format: character

---

**TTL\_FEED: What is the total amount in USD of crops harvested used for feeding animals?**

Data file: data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 6 Range: - Format: character

---

**TTL\_BYPROD: What is the total amount in USD of crops used for by products (oil from Olive, flours from wheat, etc?)**

Data file: data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

---

**TTL\_SHARECROPPING: What is the total amount in USD of crops exchanged in share cropping arrangements?**

Data file: data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

---

**PRICE\_SATISFIED: How satisfied are you with the price you received on the market for your produce?**

Data file: data\_anon\_post\_harvest\_kenya

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 20 Range: - Format: character

---

**AGRO\_ADVICE: Are you getting enough agronomic advice?**

Data file: data\_anon\_post\_harvest\_kenya



**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**NEWLY\_SEED: What would most convince you to purchase a newly marketed seed variety?**

Data file: data\_anon\_post\_harvest\_kenya

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 32 Range: - Format: character

**SPRAYING\_ADVICE: Do you follow the label advice when preparing for spraying?**

Data file: data\_anon\_post\_harvest\_kenya

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**POLLINATORS: Are you aware of recommendation/precautions you need to follow on potential impact on pollinators when spraying?**

Data file: data\_anon\_post\_harvest\_kenya

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**SEASON\_ACCIDENT: Did you experience any accident or bad experience at all during this season? Anything on field, chemical, operation etc.?**

Data file: data\_anon\_post\_harvest\_kenya

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 3 Range: - Format: character

**COUNTRY: Country**

Data file: data\_anon\_post\_harvest\_kenya

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 5 Range: - Format: character



**OWNER: Owner****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 2 Width: 8 Range: 159155 - 159968 Format: Numeric

**ID: ID****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 8 Range: - Format: character

**PARENT\_SPREADSHEET: Parent spreadsheet****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 7 Range: - Format: character

**TIMING\_OF\_PRODUCT\_APPLICATION: Timing of product application:****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 10 Range: - Format: character

**TYPE\_OF\_PRODUCT: Type of product:****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 19 Range: - Format: character

**BRAND\_OR\_PRODUCT\_DESCRIPTION: Brand product name or product description:****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 17 Range: - Format: character



**UNIT\_OF\_QUANTITY: Unit of quantity:****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0    Invalid: 0  
Type: Discrete    Width: 13    Range: -    Format: character

---

**DOSAGE: Dosage:****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0    Invalid: 0  
Type: Continuous    Decimal: 2    Width: 8    Range: 1 - 1200    Format: Numeric

---

**PERCENTAGE\_N\_NITROGEN: Percentage N Nitrogen:****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0    Invalid: 0  
Type: Continuous    Decimal: 2    Width: 8    Range: 0 - 27    Format: Numeric

---

**PERCENTAGE\_P\_PHOSPHORUS: Percentage P Phosphorus:****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0    Invalid: 0  
Type: Discrete    Width: 4    Range: -    Format: character

---

**PERCENTAGE\_K\_POTASSIUM: Percentage K potassium:****Data file:** data\_anon\_fertilizer\_kenya**Overview**

Valid: 0    Invalid: 0  
Type: Continuous    Decimal: 2    Width: 8    Range: 0 - 40    Format: Numeric

---

**EQUIPMENT\_TYPE\_USED: Equipment type used:****Data file:** data\_anon\_fertilizer\_kenya



**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 44 Range: - Format: character

---

**COUNTRY: Country****Data file: data\_anon\_fertilizer\_kenya****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 5 Range: - Format: character

---



**OWNER: Owner****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 2 Width: 8 Range: 159155 - 159968 Format: Numeric

**ID: ID****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 8 Range: - Format: character

**PARENT\_SPREADSHEET: Parent spreadsheet****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 7 Range: - Format: character

**TIMING\_OF\_PRODUCT\_APPLICATION: Timing of product application:****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 10 Range: - Format: character

**TYPE\_OF\_PRODUCT: Type of product:****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 11 Range: - Format: character

**UNIT\_OF\_QUANTITY: Unit of quantity:****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 13 Range: - Format: character



**DOSAGE: Dosage:****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 2 Width: 8 Range: 1 - 2500 Format: Numeric

**PEST\_DISEASE\_WEED\_TARGETED: Pest/disease/weed targeted:****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 32 Range: - Format: character

**EQUIPMENT\_TYPE\_USED: Equipment type used:****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 44 Range: - Format: character

**COUNTRY: Country****Data file:** data\_anon\_crop\_protection\_kenya**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 5 Range: - Format: character



# study\_resources

## questionnaires

### 2021 GGP Questionnaire Master

---

title 2021 GGP Questionnaire Master

language English

filename GGP Survey Master 2021 6grain End season V06.xlsx

---