

# Good Growth Plan 2014-2016

**Syngenta**

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

## Identification

### SURVEY ID NUMBER

CRI\_2014-2016\_GGP-P\_v01\_M\_v01\_A\_OCS

### TITLE

Good Growth Plan 2014-2016

### COUNTRY/ECONOMY

Name	Country code
Costa Rica	CRI

### 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 4,000 farms and covers more than 20 different crops in 46 countries. The data (except USA data and for Barley in UK, Germany, Poland, Czech Republic, France and Spain) was collected, consolidated and reported by Kynetec (previously Market Probe), an independent market research agency. It can be used as benchmarks for crop yield and input efficiency.

### 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.

### TOPICS

Topic	Vocabulary
Agriculture & Rural Development	FAO
Environment	FAO
Agricultural input efficiency	FAO

### KEYWORDS

Keyword
Input efficiency
Crop productivity
Agriculture
The Good Growth Plan

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name
Syngenta

### PRODUCERS

Name	Role
Kynetec	Technical assistance

## 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. The reference farms were selected by Syngenta and the benchmark farms were randomly selected by Kynetec within the same cluster.

#### 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 by Kynetec 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).

#### C. Selection procedure

The respondents were picked randomly using a “quota based random sampling” procedure. Growers were first randomly selected and then checked if they complied with the quotas for crops, region, farm size etc. To avoid clustering high number of interviews at one sampling point, interviewers were instructed to do a maximum of 5 interviews in one village.

#### Screening of Costa Rica BF:

Cariari (Pococí cantón), Guápiles cantón, Matina cantón, Siquirres cantón and Sarapiquí cantón

#### Low:

- Productivity: between 1800 and 3200 boxes/ha/year (approved by Syngenta, original cut-off: < 2350 boxes/ha/year)
- Generic CP use: use mostly generic products (use mix of generic products and branded products)

#### Background info:

- reduced access to market
- disease affection: Sigatoka: Sigatoka disease is already present in all banana farms in Costa Rica; it is an endemic disease in Latin America region

Banana growers in the province of Limon

## data\_collection

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### DATES OF DATA COLLECTION

Start	End
2014	2016

### DATA COLLECTION MODE

Face-to-face [f2f]

## questionnaires

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### QUESTIONNAIRES

Data collection tool for 2019 covered the following information:

#### (A) PRE- HARVEST INFORMATION

PART I: Screening

PART II: Contact Information

PART III: Farm Characteristics

- a. Biodiversity conservation
- b. Soil conservation
- c. Soil erosion
- d. Description of growing area
- e. Training on crop cultivation and safety measures

PART IV: Farming Practices - Before Harvest

- a. Planting and fruit development - Field crops
- b. Planting and fruit development - Tree crops
- c. Planting and fruit development - Sugarcane
- d. Planting and fruit development - Cauliflower
- e. Seed treatment

#### (B) HARVEST INFORMATION

PART V: Farming Practices - After Harvest

- a. Fertilizer usage
- b. Crop protection products
- c. Harvest timing & quality per crop - Field crops
- d. Harvest timing & quality per crop - Tree crops
- e. Harvest timing & quality per crop - Sugarcane
- f. Harvest timing & quality per crop - Banana
- g. After harvest

PART VI - Other inputs - After Harvest

- a. Input costs
- b. Abiotic stress
- c. Irrigation

See all questionnaires in external materials tab

## data\_processing

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### DATA EDITING

Data processing:

Kynetec uses SPSS (Statistical Package for the Social Sciences) for data entry, cleaning, analysis, and reporting. After collection, the farm data is entered into a local database, reviewed, and quality-checked by the local Kynetec agency. In the case of missing values or inconsistencies, farmers are re-contacted. In some cases, grower data is verified with local experts

(e.g. retailers) to ensure data accuracy and validity. After country-level cleaning, the farm-level data is submitted to the global Kynetec headquarters for processing. In the case of missing values or inconsistencies, the local Kynetec office was re-contacted to clarify and solve issues.

#### Quality assurance

Various consistency checks and internal controls are implemented throughout the entire data collection and reporting process in order to ensure unbiased, high quality data.

- Screening: Each grower is screened and selected by Kynetec based on cluster-specific criteria to ensure a comparable group of growers within each cluster. This helps keeping variability low.
- Evaluation of the questionnaire: The questionnaire aligns with the global objective of the project and is adapted to the local context (e.g. interviewers and growers should understand what is asked). Each year the questionnaire is evaluated based on several criteria, and updated where needed.
- Briefing of interviewers: Each year, local interviewers - familiar with the local context of farming -are thoroughly briefed to fully comprehend the questionnaire to obtain unbiased, accurate answers from respondents.
- Cross-validation of the answers:
  - o Kynetec captures all growers' responses through a digital data-entry tool. Various logical and consistency checks are automated in this tool (e.g. total crop size in hectares cannot be larger than farm size)
  - o Kynetec cross validates the answers of the growers in three different ways:
    1. Within the grower (check if growers respond consistently during the interview)
    2. Across years (check if growers respond consistently throughout the years)
    3. Within cluster (compare a grower's responses with those of others in the group)
  - o All the above mentioned inconsistencies are followed up by contacting the growers and asking them to verify their answers. The data is updated after verification. All updates are tracked.
- Check and discuss evolutions and patterns: Global evolutions are calculated, discussed and reviewed on a monthly basis jointly by Kynetec and Syngenta.
- Sensitivity analysis: sensitivity analysis is conducted to evaluate the global results in terms of outliers, retention rates and overall statistical robustness. The results of the sensitivity analysis are discussed jointly by Kynetec and Syngenta.
- It is recommended that users interested in using the administrative level 1 variable in the location dataset use this variable with care and crosscheck it with the postal code variable.

## data\_appraisal

#### DATA APPRAISAL

Due to the above mentioned checks, irregularities in fertilizer usage data were discovered which had to be corrected:

For data collection wave 2014, respondents were asked to give a total estimate of the fertilizer NPK-rates that were applied in the fields. From 2015 onwards, the questionnaire was redesigned to be more precise and obtain data by individual fertilizer products. The new method of measuring fertilizer inputs leads to more accurate results, but also makes a year-on-year comparison difficult. After evaluating several solutions to this problems, 2014 fertilizer usage (NPK input) was re-estimated by calculating a weighted average of fertilizer usage in the following years.

## Access policy

#### CONTACTS

Name	Affiliation	Email	URL
The Good Growth Plan team	Syngenta	goodgrowthplan.data@syngenta.com	<a href="#">Link</a>

#### 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

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- 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;
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**CITATION REQUIREMENTS**

The Good Growth Plan Progress Data - Productivity 2019

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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

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**DDI DOCUMENT ID**

DDI\_CRI\_2014-2016\_GGP-P\_v01\_M\_v01\_A\_OCS

**PRODUCERS**

<b>Name</b>	<b>Abbreviation</b>	<b>Affiliation</b>	<b>Role</b>
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**

2023-01-26

**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 (CRI\_2014-2016\_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>fertilizers</b>	0	15
<b>Farm_level_data</b>	0	29
<b>Global_farm_data</b>	0	131
<b>Crop_protection</b>	0	29
<b>Location</b>	0	16
<b>Activities and Machinery (Q382)</b>	0	9





**Data file: fertilizers**

Cases:	0
variables:	15

**variables**

ID	Name	Label	Question
V1	harvestyear	Data collection wave	
V2	GrowingArea	To which field/plot does the information relate to?	
V3	ClusterID	Unique cluster ID	
V4	country	Country	
V5	Farmtype	Farm Type	
V6	GrowerID	Unique respondent ID	
V7	product	Unique code of a product that was applied	
V8	crop	The crop of focus	
V9	q229ca	Q229C a. Timing of (fertilizer) application AREA A	
V10	q229cb	Q229C b.Type of product	
V11	q229cd	Q229C d. Dosage (in KG/HECT or LITER/HECT)	
V12	q229ce	Q229C e. Unit of quantity	
V13	q229cg	Q229C g. Percentage N (in %)	
V14	q229ch	Q229C h. Percentage P (P2O5) (in %)	
V15	q229ci	Q229C i. Percentage K (K2O) (in %)	

total: 15

**Data file: Farm\_level\_data**

Cases: 0

variables: 29

**variables**

ID	Name	Label	Question
V16	HarvestYear	Data collection wave	
V17	Region	Syngenta's definition of Region	
V18	Territory	Syngenta's definition of Territory	
V19	GrowingArea	To which field/plot does the information relate to?	
V20	ClusterID	Unique cluster ID	
V21	country	Country	
V22	Farmtype	Farm type	
V23	GrowerID	Unique respondent ID	
V24	Crop	The crop of focus	
V25	AreaSize	Q57. Size of growing area A for <TARG1> in <HECT>	
V26	CropSize	Q5.Total cultivated area of <TARG1> in this season in <HECT>	
V27	FarmSize	Q6. Total size of your farm/cultivated area for all crops in <HECT>	
V28	Landproductivity	Land efficiency in ton/ha	
V29	PesticideApplicationEfficiency	Number of field applications used per ton produced	
V30	NutrientEfficiency	Kgs of nitrogen used per ton produced	
V31	PhosphorusEfficiency	Kgs of phosphorus used per ton produced	
V32	PotassiumEfficiency	Kgs of potassium used per ton produced	
V33	PesticideEfficiency	Kgs of active ingredients from pesticides used in kilogram per ton produced	
V34	HerbicideEfficiency	Kgs of active ingredients from herbicides used per ton produced	
V35	FungicideEfficiency	Kgs of active ingredients from fungicides used per ton produced	
V36	InsecticideEfficiency	Kgs of active ingredients from insecticides used per ton produced	
V37	IrrigationWaterEfficiency	Litres of irrigation water used per ton produced	
V38	LaborEfficiency	Amount of labor hours per unit of crop output produced	
V39	MachineryEfficiency	Amount of machinery used in hours per unit of crop output produced	
V40	SyngentaShare	Percentage of syngenta products used compared to total number of products used	
V41	User_vs_non_user	Does the grower use Syngenta products?	
V42	protocol	have received a crop program and/or any recommendations this season?	
V43	harvest_begin	Date when harvest started	
V44	harvest_end	Date when harvest ended	

total: 29

**Data file: Global\_farm\_data**

Cases:	0
variables:	131

**variables**

ID	Name	Label	Question
V45	Territory	Syngenta definition of territory (sub-region)	
V46	country	Country	
V47	ClusterID	Unique cluster ID	
V48	GrowerID	Unique respondent ID	
V49	GrowingArea	To which field/plot does the information relate to?	
V50	Farmtype	Farmtype	
V51	q1c3	Q1.C3. Since you have participated before, we'd like to share with you your individual performance report	
V52	q1f	Q1. F. Would it be okay for you for Syngenta to contact you with follow-up information on The Good Growth Plan?	
V53	crop	Crop of focus	
V54	q57a	Q57A. How certain you are of the size indication for growing area A?	
V55	q4055	Q4055. TON/HEC Yield objective for area A for <CROP> at beginning of this season?	
V56	q19	Q19. Surname	
V57	q20	Q20. First name	
V58	q21	Q21. Phone number	
V59	q22	Q22. E-mail address	
V60	q27	Q27. Year of birth	
V61	q28	Q28. Gender	
V62	q31	Q31. Until what age did you go to school?	
V63	q30	Q30. Are you a full-time or part-time farmer?	
V64	q30b	Q30. B. How long have you been engaged in farming activities?	
V65	q33	Q33. Did you receive an agronomical/agricultural education?	
V66	q34	Q34. Are you a member of a producer group, association or cooperative for <CROP>?	
V67	q35c	Q35. C. Overall, how satisfied would you say you are with your life these days?	
V68	q37a	Q37.A. Do you have signs of soil erosion by water on	
V69	q37b	Q37.B. Do you have signs of soil erosion by wind on your farm?	
V70	q65	Q65. Do you practice intercropping for <TARGET CROP> ?	
V71	q60	Q60. Do you rotate crops on growing area A for <TARGET CROP>?	
V72	q67	Q67. What is the soil type of growing area A for <TARGET CROP>?	
V73	q67b	Q67B. Texture is your soil on growing area A for <TARGET CROP> this season?	
V74	q55e1	Q55E1.Partook in training/meeting on crop/agricultural practices in the past 2 years?	
V75	q4041a	Q4041.A. Do you feel the need to follow training on crop cultivation in the near future?	
V76	q54_1	Q54. Where do you deposit the rest water after spraying? Citerne (phytobac, heliosecc, sentinel, biofilter)	
V77	q54_2	Q54. Where do you deposit the rest water after spraying? In fields	
V78	q54_96	Q54. Where do you deposit the rest water after spraying? Other specify 1:	
V79	q54_oth1	Q54. Other 1:: Q54. Where do you deposit the rest water after spraying?	
V80	q55a_1	Q55a. Where do you clean your sprain equipment? On farm	

ID	Name	Label	Question
V81	q55b_1	Q55b. Where do you dispose the water used for cleaning you equipment? On field	
V82	q55b_2	Q55b. Where do you dispose the water used for cleaning you equipment? Citerne	
V83	q55b_4	Q55b. Where do you dispose the water used for cleaning you equipment? On a paved surface (drain / dike)	
V84	q55b_96	Q55b. Where do you dispose the water used for cleaning you equipment? Other specify 1:	
V85	q55b_99	Q55b. Where do you dispose the water used for cleaning you equipment? Don't know / no answer	
V86	q55c	Q55. C. Do you store the sprayer protected from rain?	
V87	q55d	Q55. D. Do you use drift-reducing nozzles on your sprayer?	
V88	q197	Q197. What is the year of planting for growing area A for <TARGET CROP>?	
V89	q183	Q183. Do you prune growing area A for <TARGET CROP>?	
V90	q4062a	Q4062. When did the pruning period of the trees start for growing area A for <TARGET CROP>?	
V91	q4062b	Q4062. When did the pruning period of the trees start for growing area A for <TARGET CROP>?	
V92	q224a	Q224 A. Did you perform a soil test for <TARGET CROP>?	
V93	q224	Q224. Do you apply organic fertilizers for <TARGET CROP>?	
V94	q226	Q226. Do you apply chemical fertilizers for <TARGET CROP>?	
V95	q229b1	Q229B1.Total number of applications you perform with chemical fertilizers on growing area for <TARGET CROP>?	
V96	q229b2	Q229B2.Total number of applications you perform with organic fertilizers on growing area for <TARGET CROP>?	
V97	q240e_1	Q240E. We would like to better understand the pest pressure on the selected growing areas. INSECT PRESSURE	
V98	q240e_2	Q240E. We would like to better understand the pest pressure on the selected growing areas. DISEASE PRESSURE	
V99	q240e_3	Q240E. We would like to better understand the pest pressure on the selected growing areas. WEED PRESSURE	
V100	q240d	Q240D. Note down the total number of treatments you perform with crop protection products	
V101	q243a	Q243. When was the harvest period for <TARGET CROP>?	
V102	q243b	Q243. When was the harvest period for <TARGET CROP>?	
V103	q4094_1	Q4094. Who measured the yield on each of the growing areas? Myself	
V104	q4094_2	Q4094. Who measured the yield on each of the growing areas? Dealer/store	
V105	q4094_96	Q4094. Who measured the yield on each of the growing areas? Other specify1	
V106	q4094_98	Q4094. Who measured the yield on each of the growing areas? Other specify3	
V107	q4095a	Q4095. A. Compared to previous year, would you say your yield has ...?	
V108	q4096a	Q4096. A. How satisfied are you with your yield this season?	
V109	q4097a	Q4097. A. How satisfied are you with the price you received on the market?	
V110	q360a	Q360. When was the harvest period for <TARGET CROP>?	
V111	q360b	Q360. When was the harvest period for <TARGET CROP>?	
V112	q319a	Q319. When was the harvest period for sugarcane?	
V113	q319b	Q319. When was the harvest period for sugarcane?	
V114	q177	Q177. When was the last replanting of the trees i.e. date when the last trees were replanted - for banana?	
V115	q178	Q178. % of trees that have been replanted during the last replanting phase for banana?	
V116	q339a	Q339. When was the harvest period for banana?	
V117	q339b	Q339. When was the harvest period for banana?	

ID	Name	Label	Question
V118	q341_1	Q341. What is the yield per <HECT> or the number of boxes per <HECT>? Banana yield in boxes per <HECT>	
V119	q341_2	Q341. What is the yield per <HECT> or the number of boxes per <HECT> Banana yield in ton per hectare	
V120	q342	Q342. What is the ratio as number of bunches per box for banana?	
V121	q344_1	Q343. % of yield of banana exported and which % used for local market?1.% exportable fruits 2.% for local market	
V122	q344_2	Q343. % of yield of banana exported and which % used for local market?1.% exportable fruits	
V123	q345	Q345. What is the percentage fruit losses for banana?	
V124	q347	Q347. What is the bunch weight in <KG> for banana?	
V125	q348	Q348. What is for banana the ratooning, i.e. the number of harvests per year?	
V126	q4002	Q4002. Did you take measures to prevent post-harvest loss for <TARGET CROP>?	
V127	q377	Q377. What is the estimated revenue in <DOLLAR>/<HECTARES> for growing area A of <TARGET CROP>?	
V128	q379	Q379.A Can you please explain your answer for <TARGET CROP>?	
V129	q380	Q380. What is your total input cost for <TARGET CROP> from first field preparation until harvest?	
V130	q4111_2	Q4111. Actual costs FERTILIZERZ for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V131	q4111_3	Q4111. Actual costs LABOR for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V132	q4111_4	Q4111. Actual costs MACHINERY <TARGET CROP>?<DOLLAR>/<HECTARES>	
V133	q4111_5	Q4111. Actual costs WATER USE for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V134	q4111_6	Q4111. Actual costs FUEL for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V135	q4111_7	Q4111. Actual costs RENT/LOAN for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V136	q4111_9	Q4111. Actual costs HERBICIDES for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V137	q4111_10	Q4111. Actual costs INSECTICIDES <TARGET CROP>?<DOLLAR>/<HECTARES>	
V138	q381_1	Q381. Percentage of TREES/SEED costs out of the total input cost for <TARGET CROP>?	
V139	q381_2	Q381. Percentage of FERTILIZERS costs out of the total input cost for <TARGET CROP>?	
V140	q381_3	Q381. Percentage of PESTICIDES costs out of the total input cost for <TARGET CROP>?	
V141	q381_4	Q381. Percentage of LABOR costs out of the total input cost for <TARGET CROP>?	
V142	q381_5	Q381. Percentage of MACHINERY costs of the total input cost for <TARGET CROP>?	
V143	q381_6	Q381. Percentage of WATER USE costs out of the total input cost for <TARGET CROP>?	
V144	q381_7	Q381. Percentage of FUEL costs out of the total input cost for <TARGET CROP>?	
V145	q381_8	Q381. Percentage of ELECTRICITY costs out of the total input cost for <TARGET CROP>?	
V146	q381_9	Q381. Percentage of GAS costs out of the total input cost for <TARGET CROP>?	
V147	q4121	Q4121. In general for the whole cultivation period, rate the weather conditions for <TARGET CROP>?	
V148	q387_1	Q387. What was the impact for target crop? Reduced yield	
V149	q388	Q388. How would you say the level of rainfall was for growing area A	
V150	q388b	Q388. B. You mentioned you had less rainfall this season than usual. Was this problematic?	
V151	q3880	Q3880. How would you say the temperature was during this season ?	
V152	q3880d	Q3880 D. You mentioned you had higher temperatures this season than usual. Was this problematic?	
V153	q389	Q389. What is the MAIN water source of <TARGET CROP> during this season?	
V154	q399c	Q399.C. How satisfied are you with the crop program and/or recommendations for <TARGET CROP>?	
V155	harvestyear	Data collection wave	
V156	q4000_4	q4000_4. To whom do you sell your yield - I sell it to a feed processing plant	

ID	Name	Label	Question
V157	q4000_5	q4000_5. To whom do you sell your yield - I sell it to a cooperative I am part of	
V158	q4000_96	q4000_96. To whom do you sell your yield -Other. Specify 1:	
V159	q4000_99	q4000_99. To whom do you sell your yield -Don't know / no answer	
V160	q4000_oth1	Q4000b. Can you please tell us what are your main sources for selling the harvest? Other. Specify 1	
V161	q399	Q399. Please explain why you follow or do not follow the crop program and/or recommendations.	
V162	q397	Q397. Received a recommended growing protocol or crop program from an agricultural advisor?	
V163	q397b_oth1	Q397B. From whom did you receive the protocol/crop program? Other 1	
V164	q397c	Q397C. Did you receive a protocol/crop program from Syngenta?	
V165	q397d_oth	Q397.D. From which manufacturer have you received a protocol/crop program? OTHER	
V166	q35a_1	Q35.A. What group/association/cooperative are a member of? 1ST	
V167	q35a_2	Q35.A. What group/association/cooperative are a member of? 2ND	
V168	q35a_3	Q35.A. What group/association/cooperative are a member of? 3RD	
V169	q58	Q58. In general, what is the topography of your growing area?	
V170	q230_1	Bought seeds	
V171	q4001	Q4001. % of crop lost in-between harvest and storage or selling <TARG1>?	
V172	q179	Q179. Did you leave the field fallow in the past before re-planting?	
V173	q247_1a	Q247. BUYER 1 % of yield	
V174	q247_1b	Q247. BUYER 1 price per metric ton	
V175	q346	Q346. Number of leaves at harvest for banana	

total: 131

**Data file: Crop\_protection**

Cases: 0

variables: 29

**variables**

ID	Name	Label	Question
V176	harvestyear	Data collection wave	
V177	GrowingArea	To which field/plot does the information relate to?	
V178	ClusterID	Unique cluster ID	
V179	country	Country	
V180	Farmtype	FARMTYPE	
V181	GrowerID	Unique respondent ID	
V182	product	Unique code of a product within application	
V183	crop	The crop of focus	
V184	application	Unique code of an application per field per grower	
V185	q241a	Q241 a. Timing of product application	
V186	q241b	Q241 b.Type of product	
V187	q241c	Q241 c . Brand product name	
V188	q241c1	Q241 c1. Brand product formulation	
V189	c241c	CODED VARIABLE - stringcode	
V190	c241ca1	CODED VARIABLE - active ingredient1	
V191	c241cp1	CODED VARIABLE - amount of ai1	
V192	c241cu1	CODED VARIABLE - unit (% or Gr)	
V193	c241ca2	CODED VARIABLE - active ingredient2	
V194	c241cp2	CODED VARIABLE - amount of ai2	
V195	c241cpt	CODED VARIABLE - total amount of ai	
V196	q241d	CODED VARIABLE Q241 d. Dosage ?	
V197	q241e	CODED VARIABLE Q241 e. Unit of quantity	
V198	q241f	Q241 f. Amount of H2O solved in LITERS per <HECTARE>	
V199	q241g	Q241 g. Pest/disease/ weed targeted ?	
V200	q241h	Q241 h. Level of pest/ disease/ weed pressure	
V201	q241i	Q241 i. Percentage of the area treated against pests/ diseases/ weeds	
V202	q241j	Q241 j. Percentage of crop free of pests/ diseases/ weeds at harvest (in %)	
V203	q241k	Q241 k. Equipment type ?	
V204	syngenta	CODED VARIABLE Syngenta product? (1 = YES; 0 = NO)	

total: 29

**Data file: Location**

Cases:	0
variables:	16

**variables**

ID	Name	Label	Question
V205	harvestyear	Year in which the data was collected	
V206	country	Country	
V207	ClusterID	Unique identifier per cluster	
V208	GrowerID	Unique identifier per grower	
V209	GrowingArea	Field code (A or B)	
V210	CORNER	Multiple corners of same field can be registered (only from 2018 onwards)	
V211	q22d_lat_deg	Latitude degrees	
V212	q22d_lat_min	Latitude minutes	
V213	q22d_lat_sec	Latitude seconds	
V214	q22d_lon_deg	Longitude degrees	
V215	q22d_lon_min	Longitude minutes	
V216	q22d_lon_sec	Longitude seconds	
V217	q151	Q151. Open field or in a greenhouse?	
V218	q1f	Q1. F. Would it be okay for you for this company to contact you with information on The GGP?	
V219	q25	Q25. Farm address - postal code	
V220	admin_level_1	administrative area 1	

total: 16



**Data file: Activities and Machinery (Q382)**

Cases: 0

variables: 9

**variables**

ID	Name	Label	Question
V221	harvestyear	Year in which the data was collected	
V222	country	Country	
V223	crop	Crop	
V224	ClusterID	Unique identifier per cluster	
V225	farmtype	Reference farms versus Benchmark farms	
V226	GrowerID	Unique identifier per grower	
V227	GrowingArea	Field code (A or B)	
V228	activity	Which activities did the grower do on his field?	
V229	Machinery	Did he use power driven equipment to complete this activity?	

total: 9



**HARVESTYEAR: Data collection wave****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2015 - 2015 Format: Numeric

**Q229CB: Q229C b.Type of product****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Chemical fertilizer

**GROWINGAREA: To which field/plot does the information relate to?****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	A
2	B

**CLUSTERID: Unique cluster ID****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Costa RicaBanana1	Costa RicaBanana1

### COUNTRY: Country

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Costa Rica	Costa Rica

### FARMTYPE: Farm Type

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
BF	BF
RF	RF

### GROWERID: Unique respondent ID

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
9100100	9100100
9200100	9200100
9200200	9200200
9200300	9200300
9200400	9200400
9200500	9200500
9200600	9200600
9200700	9200700
9200800	9200800
9200900	9200900
9201000	9201000
9201100	9201100
9201200	9201200
9201500	9201500
9201600	9201600
9201700	9201700
9201800	9201800
9201900	9201900
9202000	9202000

## PRODUCT: Unique code of a product that was applied

Data file: fertilizers

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
1	1
10	10
11	11
12	12

13	13
14	14
15	15
16	16
17	17
18	18
19	19
2	2
20	20
21	21
22	22
23	23
24	24
3	3
4	4
5	5
6	6
7	7
8	8
9	9

## CROP: The crop of focus

Data file: fertilizers

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
Banana	Banana

## Q229CA: Q229C a. Timing of (fertilizer) application AREA A

Data file: fertilizers

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

---

### CATEGORIES

Value	Category
2015-01-01	2015-01-01
2015-01-16	2015-01-16
2015-01-22	2015-01-22
2015-01-25	2015-01-25
2015-01-31	2015-01-31
2015-02-12	2015-02-12
2015-02-15	2015-02-15
2015-02-18	2015-02-18
2015-03-02	2015-03-02
2015-03-06	2015-03-06
2015-03-15	2015-03-15
2015-03-18	2015-03-18
2015-03-27	2015-03-27
2015-04-02	2015-04-02
2015-04-08	2015-04-08
2015-04-17	2015-04-17
2015-04-18	2015-04-18
2015-05-02	2015-05-02
2015-05-09	2015-05-09
2015-05-17	2015-05-17
2015-05-27	2015-05-27
2015-05-31	2015-05-31
2015-06-02	2015-06-02
2015-06-17	2015-06-17
2015-06-20	2015-06-20
2015-06-21	2015-06-21
2015-07-02	2015-07-02
2015-07-13	2015-07-13
2015-07-14	2015-07-14
2015-07-17	2015-07-17
2015-08-01	2015-08-01
2015-08-03	2015-08-03
2015-08-08	2015-08-08
2015-08-17	2015-08-17
2015-08-25	2015-08-25

2015-09-01	2015-09-01
2015-09-15	2015-09-15
2015-09-16	2015-09-16
2015-09-25	2015-09-25
2015-10-01	2015-10-01
2015-10-07	2015-10-07
2015-10-16	2015-10-16
2015-10-20	2015-10-20
2015-10-28	2015-10-28
2015-11-01	2015-11-01
2015-11-13	2015-11-13
2015-11-16	2015-11-16
2015-11-19	2015-11-19
2015-12-01	2015-12-01
2015-12-07	2015-12-07
2015-12-10	2015-12-10
2015-12-16	2015-12-16

## Q229CD: Q229C d. Dosage (in KG/HECT or LITER/HECT)

Data file: fertilizers

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1114.6 - 3058.28804347826 Format: Numeric

## Q229CE: Q229C e. Unit of quantity

Data file: fertilizers

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
KG/HECT	KG/HECT



**Q229CG: Q229C g. Percentage N (in %)****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 13.57 - 35.9082150989665 Format: Numeric

**Q229CH: Q229C h. Percentage P (P2O5) (in %)****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.844594594594595 - 3.41005967604433 Format: Numeric

**Q229CI: Q229C i. Percentage K (K2O) (in %)****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 13.63 - 50.5836575875486 Format: Numeric

**HARVESTYEAR: Data collection wave****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2014 - 2016 Format: Numeric

**REGION: Syngenta's definition of Region****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
latam	latam

**TERRITORY: Syngenta's definition of Territory****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
latin america north	latin america north

**GROWINGAREA: To which field/plot does the information relate to?****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

---

### CATEGORIES

Value	Category
A	A
B	B

---

### ■ CLUSTERID: Unique cluster ID

**Data file:** Farm\_level\_data

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

## Questions and instructions

---

### CATEGORIES

Value	Category
costa ricabanana1	costa ricabanana1

---

### ■ COUNTRY: Country

**Data file:** Farm\_level\_data

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

## Questions and instructions

---

### CATEGORIES

Value	Category
Costa Rica	Costa Rica

---

### ■ FARMTYPE: Farm type

**Data file:** Farm\_level\_data

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

## Questions and instructions

### CATEGORIES

Value	Category
bf	bf
rf	rf

### GROWERID: Unique respondent ID

Data file: Farm\_level\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
9100100	9100100
9110100	9110100
9110400	9110400
9110500	9110500
9110600	9110600
9110700	9110700
9110800	9110800
9110900	9110900
9111000	9111000
9111100	9111100
9111200	9111200
9111300	9111300
9111400	9111400
9111500	9111500
9111600	9111600
9200100	9200100
9200200	9200200
9200300	9200300
9200400	9200400
9200500	9200500
9200600	9200600

9200700	9200700
9200800	9200800
9200900	9200900
9201000	9201000
9201100	9201100
9201200	9201200
9201300	9201300
9201400	9201400
9201500	9201500
9201600	9201600
9201700	9201700
9201800	9201800
9201900	9201900
9202000	9202000
9210000	9210000
9210100	9210100
9210200	9210200

## CROP: The crop of focus

Data file: Farm\_level\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
banana	banana

## AREASIZE: Q57. Size of growing area A for in

Data file: Farm\_level\_data

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 10 - 518 Format: Numeric

**CROPSIZE: Q5.Total cultivated area of in this season in****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 155 - 403 Format: Numeric

**FARMSIZE: Q6. Total size of your farm/cultivated area for all crops in****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 155 - 1000 Format: Numeric

**LANDPRODUCTIVITY: Land efficiency in ton/ha****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 32.65 - 64 Format: Numeric

**PESTICIDEAPPLICATIONEFFICIENCY: Number of field applications used per ton produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.015625 - 3.8 Format: Numeric

**NUTRIENTEFFICIENCY: Kgs of nitrogen used per ton produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 35.0330760749724 Format: Numeric

**PHOSPHORUSEFFICIENCY: Kgs of phosphorus used per ton produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 18.3654729109275 Format: Numeric

**POTASSIUM EFFICIENCY: Kgs of potassium used per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 304.587155963303 Format: Numeric

**PESTICIDE EFFICIENCY: Kgs of active ingredients from pesticides used in kilogram per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1.19539402662828 - 2.88062444444444 Format: Numeric

**HERBICIDE EFFICIENCY: Kgs of active ingredients from herbicides used per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.114732006125574 Format: Numeric

**FUNGICIDE EFFICIENCY: Kgs of active ingredients from fungicides used per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1.13799928031666 - 2.79755777777778 Format: Numeric

**INSECTICIDE EFFICIENCY: Kgs of active ingredients from insecticides used per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**IRRIGATION WATER EFFICIENCY: Litres of irrigation water used per ton produced****Data file:** Farm\_level\_data

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**LABOREFFICIENCY: Amount of labor hours per unit of crop output produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.00334844785490059 - 27.347789824854 Format: Numeric

**MACHINERYEFFICIENCY: Amount of machinery used in hours per unit of crop output produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.0208269525267994 Format: Numeric

**SYNGENTASHARE: Percentage of syngenta products used compared to total number of products used****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 14.2857142857143 - 100 Format: Numeric

**USER\_VS\_NON\_USER: Does the grower use Syngenta products?****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	exclusive user
2	mixed user



**PROTOCOL: have received a crop program and/or any recommendations this season?****Data file: Farm\_level\_data****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Received a complete crop program
2	Received recommendations but not a complete program

**HARVEST\_BEGIN: Date when harvest started****Data file: Farm\_level\_data****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2014-01-01	2014-01-01
2015-01-01	2015-01-01

**HARVEST\_END: Date when harvest ended****Data file: Farm\_level\_data****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2014-12-31	2014-12-31
2015-12-31	2015-12-31



**TERRITORY: Syngenta definition of territory (sub-region)****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
latin america north	latin america north

**COUNTRY: Country****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Costa Rica	Costa Rica

**CLUSTERID: Unique cluster ID****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
costa ricabanana1	costa ricabanana1

**GROWERID: Unique respondent ID****Data file:** Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

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### CATEGORIES

Value	Category
9100100	9100100
9110100	9110100
9110400	9110400
9110500	9110500
9110600	9110600
9110700	9110700
9110800	9110800
9110900	9110900
9111000	9111000
9111100	9111100
9111200	9111200
9111300	9111300
9111400	9111400
9111500	9111500
9111600	9111600
9200100	9200100
9200200	9200200
9200300	9200300
9200400	9200400
9200500	9200500
9200600	9200600
9200700	9200700
9200800	9200800
9200900	9200900
9201000	9201000
9201100	9201100
9201200	9201200
9201300	9201300
9201400	9201400
9201500	9201500
9201600	9201600
9201700	9201700

9201800	9201800
9201900	9201900
9202000	9202000
9210000	9210000
9210100	9210100
9210200	9210200

## GROWINGAREA: To which field/plot does the information relate to?

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
a	a
b	b

## FARMTYPE: Farmtype

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
bf	bf
rf	rf

## Q1C3: Q1.C3. Since you have participated before, we'd like to share with you your individual performance report

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	very useful

**Q1F: Q1. F. Would it be okay for you for Syngenta to contact you with follow-up information on The Good Growth Plan?**

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes

**CROP: Crop of focus**

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
banana	banana

**Q57A: Q57A. How certain you are of the size indication for growing area A?**

Data file: Global\_farm\_data

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
The size indicated was measured by a third party	The size indicated was measured by a third party

**Q4055: Q4055. TON/HEC Yield objective for area A for at beginning of this season?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 52 - 3500 Format: Numeric

**Q19: Q19. Surname****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**Q20: Q20. First name****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
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confidential

confidential

**Q21: Q21. Phone number****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**Q22: Q22. E-mail address****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**Q27: Q27. Year of birth****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1924 - 1991 Format: Numeric

**Q28: Q28. Gender****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0



Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	male

## Q31: Q31. Until what age did you go to school?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 11 - 33    Format: Numeric

## Q30: Q30. Are you a full-time or part-time farmer?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Full-time grower

## Q30B: Q30. B. How long have you been engaged in farming activities?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 7 - 28    Format: Numeric

## Q33: Q33. Did you receive an agronomical/agricultural education?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	no
2	yes

### Q34: Q34. Are you a member of a producer group, association or cooperative for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	no
2	yes

### Q35C: Q35. C. Overall, how satisfied would you say you are with your life these days?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
09	09
10 very satisfied	10 very satisfied

### Q37A: Q37.A. Do you have signs of soil erosion by water on

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	no
2	yes

## Q37B: Q37.B. Do you have signs of soil erosion by wind on your farm?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes
2	no

## Q65: Q65. Do you practice intercropping for ?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	no

## Q60: Q60. Do you rotate crops on growing area A for ?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	no

## Q67: Q67. What is the soil type of growing area A for ?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 10    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	silty clay soil
2	clay soil
3	clay loam soil
4	loamy sand soil
5	sandy loam soil
6	silty clay loam soil
7	silt loam soil
8	sandy clay loam soil
9	loam soil
10	silt soil

## Q67B: Q67B. Texture is your soil on growing area A for this season?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
-------	----------

1	medium - this includes loamy soils that are moderately
2	heavy - this includes clayey soils that are hard

### Q55E1: Q55E1.Partook in training/meeting on crop/agricultural practices in the past 2 years?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	yes

### Q4041A: Q4041.A. Do you feel the need to follow training on crop cultivation in the near future?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	no
2	yes

### Q54\_1: Q54. Where do you deposit the rest water after spraying? Citerne (phytobac, helioseco, sentinel, biofilter)

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Mentioned
2	Not mentioned

### Q54\_2: Q54. Where do you deposit the rest water after spraying? In fields

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

### Questions and instructions

### CATEGORIES

Value	Category
1	Not mentioned

### Q54\_96: Q54. Where do you deposit the rest water after spraying? Other specify 1:

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

### Questions and instructions

### CATEGORIES

Value	Category
1	Mentioned

### Q54\_OTH1: Q54. Other 1:: Q54. Where do you deposit the rest water after spraying?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Area con drenaje propio	Area con drenaje propio
No sobrantes, se aplica a las plantas	No sobrantes, se aplica a las plantas
Se aplica en la plantación	Se aplica en la plantación
Sistema bajo tierra, tipo fosa	Sistema bajo tierra, tipo fosa
Subcontrata fumigación aerea	Subcontrata fumigación aerea
Subcontrata la fumigación	Subcontrata la fumigación
compañía externa	compañía externa

### Q55A\_1: Q55a. Where do you clean your sprain equipment? On farm

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q55B\_1: Q55b. Where do you dispose the water used for cleaning you equipment? On field

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	mentioned
2	not mentioned

**Q55B\_2: Q55b. Where do you dispose the water used for cleaning you equipment? Citerne****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned

**Q55B\_4: Q55b. Where do you dispose the water used for cleaning you equipment? On a paved surface (drain / dike)****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned

**Q55B\_96: Q55b. Where do you dispose the water used for cleaning you equipment? Other specify 1:****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned



**Q55B\_99: Q55b. Where do you dispose the water used for cleaning you equipment? Don't know / no answer****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned

**Q55C: Q55. C. Do you store the sprayer protected from rain?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes

**Q55D: Q55. D. Do you use drift-reducing nozzles on your sprayer?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes
2	no

**Q197: Q197. What is the year of planting for growing area A for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
1947	1947
1982	1982
1988	1988
1989	1989
1991	1991

**Q183: Q183. Do you prune growing area A for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes
2	no

**Q4062A: Q4062. When did the pruning period of the trees start for growing area A for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2016-10-03	2016-10-03

**Q4062B: Q4062. When did the pruning period of the trees start for growing area A for ?**

**Data file:** Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2016-10-07	2016-10-07

**Q224A: Q224 A. Did you perform a soil test for ?**

**Data file:** Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes

**Q224: Q224. Do you apply organic fertilizers for ?**

**Data file:** Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	no
2	yes

### Q226: Q226. Do you apply chemical fertilizers for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes

### Q240D: Q240D. Note down the total number of treatments you perform with crop protection products

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 171 Format: Numeric

### Q243A: Q243. When was the harvest period for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2014-01-01	2014-01-01

**Q243B: Q243. When was the harvest period for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2014-12-31	2014-12-31

**Q4094\_1: Q4094. Who measured the yield on each of the growing areas? Myself****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q4094\_2: Q4094. Who measured the yield on each of the growing areas? Dealer/store****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q229B1: Q229B1.Total number of applications you perform with chemical fertilizers on growing area for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 10 - 24 Format: Numeric

**Q229B2: Q229B2.Total number of applications you perform with organic fertilizers on growing area for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 6 Format: Numeric

**Q240E\_1: Q240E. We would like to better understand the pest pressure on the selected growing areas. INSECT PRESSURE****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	medium
2	no pressure
3	low
4	high

**Q240E\_2: Q240E. We would like to better understand the pest pressure on the selected growing areas. DISEASE PRESSURE****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	low
2	no pressure
3	medium
4	high

**Q240E\_3: Q240E. We would like to better understand the pest pressure on the selected growing areas. WEED PRESSURE**

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	medium
2	low
3	high
4	no pressure
5	don't know/no answer

**Q4094\_96: Q4094. Who measured the yield on each of the growing areas? Other specify1**

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	mentioned

**Q4094\_98: Q4094. Who measured the yield on each of the growing areas? Other specify3****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q4095A: Q4095. A. Compared to previous year, would you say your yield has ...?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	increased

**Q4096A: Q4096. A. How satisfied are you with your yield this season?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	very satisfied
2	somewhat unsatisfied



**Q4097A: Q4097. A. How satisfied are you with the price you received on the market?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	somewhat satisfied

**Q360A: Q360. When was the harvest period for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2014-01-01	2014-01-01

**Q360B: Q360. When was the harvest period for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2014-12-31	2014-12-31

**Q319A: Q319. When was the harvest period for sugarcane?****Data file:** Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2014-01-01	2014-01-01

### Q319B: Q319. When was the harvest period for sugarcane?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2014-12-31	2014-12-31

### Q177: Q177. When was the last replanting of the trees i.e. date when the last trees were replanted - for banana?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 2013 - 2015 Format: Numeric

### Q178: Q178. % of trees that have been replanted during the last replanting phase for banana?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.02 - 13 Format: Numeric

**Q339A: Q339. When was the harvest period for banana?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2014-01-01	2014-01-01
2015-01-01	2015-01-01

**Q339B: Q339. When was the harvest period for banana?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2014-12-31	2014-12-31
2015-12-31	2015-12-31

**Q341\_1: Q341. What is the yield per or the number of boxes per ? Banana yield in boxes per****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1800 - 3200 Format: Numeric

**Q341\_2: Q341. What is the yield per or the number of boxes per Banana yield in ton per hectare****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 32.65 - 64 Format: Numeric

**Q342: Q342. What is the ratio as number of bunches per box for banana?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.6 - 130 Format: Numeric

**Q344\_1: Q343. % of yield of banana exported and which % used for local market?1.% exportable fruits 2.% for local market****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 80 - 100 Format: Numeric

**Q344\_2: Q343. % of yield of banana exported and which % used for local market?1.% exportable fruits****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 20 Format: Numeric

**Q345: Q345. What is the percentage fruit losses for banana?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 25 Format: Numeric

**Q347: Q347. What is the bunch weight in for banana?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 15 - 62 Format: Numeric

**Q348: Q348. What is for banana the ratooning, i.e. the number of harvests per year?****Data file:** Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 52 Format: Numeric

### Q4002: Q4002. Did you take measures to prevent post-harvest loss for ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	no
2	yes

### Q377: Q377. What is the estimated revenue in / for growing area A of ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 8 - 1893900 Format: Numeric

### Q379: Q379.A Can you please explain your answer for ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	average
2	low
3	high

**Q380: Q380. What is your total input cost for from first field preparation until harvest?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 20000 - 10600000 Format: Numeric

**Q4111\_2: Q4111. Actual costs FERTILIZERZ for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1000 - 1000 Format: Numeric

**Q4111\_3: Q4111. Actual costs LABOR for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 3000 - 3000 Format: Numeric

**Q4111\_4: Q4111. Actual costs MACHINERY ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 5000 - 5000 Format: Numeric

**Q4111\_5: Q4111. Actual costs WATER USE for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q4111\_6: Q4111. Actual costs FUEL for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q4111\_7: Q4111. Actual costs RENT/LOAN for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q4111\_9: Q4111. Actual costs HERBICIDES for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q4111\_10: Q4111. Actual costs INSECTICIDES ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q381\_1: Q381. Percentage of TREES/SEED costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 7 - 20 Format: Numeric

**Q381\_2: Q381. Percentage of FERTILIZERS costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 13.9 - 23 Format: Numeric

**Q381\_3: Q381. Percentage of PESTICIDES costs out of the total input cost for ?****Data file:** Global\_farm\_data

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 24 Format: Numeric

**Q381\_4: Q381. Percentage of LABOR costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 14 - 50 Format: Numeric

**Q381\_5: Q381. Percentage of MACHINERY costs of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 44.31 Format: Numeric

**Q381\_6: Q381. Percentage of WATER USE costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q381\_7: Q381. Percentage of FUEL costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 15 Format: Numeric

**Q381\_8: Q381. Percentage of ELECTRICITY costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 10 Format: Numeric



**Q381\_9: Q381. Percentage of GAS costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 15 Format: Numeric

**Q4121: Q4121. In general for the whole cultivation period, rate the weather conditions for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	no favorable weather conditions
2	normal weather conditions

**Q387\_1: Q387. What was the impact for target crop? Reduced yield****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned

**Q388: Q388. How would you say the level of rainfall was for growing area A****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	somewhat more than usual
2	a lot less than usual
3	somewhat less than usual
4	a lot more than usual
5	the same as usual

**Q388B: Q388. B. You mentioned you had less rainfall this season than usual. Was this problematic?**

**Data file:** Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes
2	no

**Q3880: Q3880. How would you say the temperature was during this season ?**

**Data file:** Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	somewhat higher than usual
2	the same as usual

**Q3880D: Q3880 D. You mentioned you had higher temperatures this season than usual. Was this problematic?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	no
2	yes

**Q389: Q389. What is the MAIN water source of during this season?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	rain-fed (no equipment, only natural rainfall)
2	other. specify 1:

**Q399C: Q399.C. How satisfied are you with the crop program and/or recommendations for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	rather satisfied
2	very satisfied

**HARVESTYEAR: Data collection wave****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 2014 - 2016    Format: Numeric

**Q4000\_4: q4000\_4. To whom do you sell your yield - I sell it to a feed processing plant****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q4000\_5: q4000\_5. To whom do you sell your yield - I sell it to a cooperative I am part of****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned
2	not mentioned

**Q4000\_96: q4000\_96. To whom do you sell your yield -Other. Specify 1:****Data file:** Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q4000\_99: q4000\_99. To whom do you sell your yield -Don't know / no answer

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q4000\_OTH1: Q4000b. Can you please tell us what are your main sources for selling the harvest? Other. Specify 1

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Exportaci!n comercial	Exportaci!n comercial
No hay	No hay

### Q399: Q399. Please explain why you follow or do not follow the crop program and/or recommendations.

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

##### CATEGORIES

Value	Category
ES OBLIGATORIO SEGUIR EL PROTOCOL DE LA EMPRESA.	ES OBLIGATORIO SEGUIR EL PROTOCOL DE LA EMPRESA.
ES OBLIGATORIO SEGUIR EL PROTOCOLO DE LA EMPRESA	ES OBLIGATORIO SEGUIR EL PROTOCOLO DE LA EMPRESA
ES UNA OBLIGACION DE LA EMPRESA	ES UNA OBLIGACION DE LA EMPRESA
ES UNA OBLIGACION DE LA EMPRESA SEGUIRLO	ES UNA OBLIGACION DE LA EMPRESA SEGUIRLO
ES UNA OBLIGACION EN LA EMPRESA	ES UNA OBLIGACION EN LA EMPRESA
ES UNA OBLIGACION SEGUIR EL PROTOCOLO	ES UNA OBLIGACION SEGUIR EL PROTOCOLO
En todos los lotes llevamos el mismo programa Estamos para el cierre, y no hay presi!n.	En todos los lotes llevamos el mismo programa Estamos para el cierre, y no hay presi!n.
Es necesidad y es necesario.	Es necesidad y es necesario.
La fertilización ayuda a mantener el terreno en óptimas condiciones	La fertilización ayuda a mantener el terreno en óptimas condiciones
NO RESPONDE	NO RESPONDE
NO SABE / NO RESPONDE	NO SABE / NO RESPONDE
NO SABE NO RESPONDE	NO SABE NO RESPONDE
Optimizacion de Mejores Practicas	Optimizacion de Mejores Practicas
PARA ASEGURAR LA PRODUCTIVIDAD DE LA FINCA	PARA ASEGURAR LA PRODUCTIVIDAD DE LA FINCA
Personal con mayor preparación académica y experiencia	Personal con mayor preparación académica y experiencia
Porque hace el plan de sigatoga, el plan de nutrición y corbana hace recomendaciones	Porque hace el plan de sigatoga, el plan de nutrición y corbana hace recomendaciones
Se cumpli!	Se cumpli!

### Q397: Q397. Received a recommended growing protocol or crop program from an agricultural advisor?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes
2	no

### Q397B\_OTH1: Q397B. From whom did you receive the protocol/crop program? Other 1

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
El ingeniero agr!nomo	El ingeniero agr!nomo
Propia Asociaci!n de Bananeros	Propia Asociaci!n de Bananeros

### Q397C: Q397C. Did you receive a protocol/crop program from Syngenta?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes
2	no

### Q397D\_OTH: Q397.D. From which manufacturer have you received a protocol/crop program? OTHER

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

### Q35A\_1: Q35.A. What group/association/cooperative are a member of? 1ST

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
ASOCIACION CAMARA DE PRODUCTORES INDEPENDIENTES DE BANANO	ASOCIACION CAMARA DE PRODUCTORES INDEPENDIENTES DE BANANO
CORBANA	CORBANA
Corbana	Corbana
Empresa de Servicio San Alberto	Empresa de Servicio San Alberto
Empresas de Servicio de San Alberto	Empresas de Servicio de San Alberto

### Q35A\_2: Q35.A. What group/association/cooperative are a member of? 2ND

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
ANAPROBANA	ANAPROBANA
ASOCIACION NACIONAL DE MUSACEAS	ASOCIACION NACIONAL DE MUSACEAS



CADAL	CADAL
COMISION NACIONAL DE MUSACEAS	COMISION NACIONAL DE MUSACEAS
COMISION NACIONAL DE MUSASEAS	COMISION NACIONAL DE MUSASEAS
CORBANA	CORBANA

### Q35A\_3: Q35.A. What group/association/cooperative are a member of? 3RD

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

##### CATEGORIES

Value	Category
ANAPROBANA	ANAPROBANA
ASBANA	ASBANA
CADAL	CADAL
COLEGIO DE AGRONOMOS	COLEGIO DE AGRONOMOS
COLEGIO DE INGENIEROS AGRONOMOS	COLEGIO DE INGENIEROS AGRONOMOS
COLEGIO INGENIEROS AGRONOMOS	COLEGIO INGENIEROS AGRONOMOS

### Q58: Q58. In general, what is the topography of your growing area?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	flat
2	valley

### Q230\_1: Bought seeds

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	mentioned
2	other

## Q4001: Q4001. % of crop lost in-between harvest and storage or selling ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 16 Format: Numeric

## Q179: Q179. Did you leave the field fallow in the past before re-planting?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes
2	no

## Q247\_1A: Q247. BUYER 1 % of yield

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 92 - 100 Format: Numeric

**Q247\_1B: Q247. BUYER 1 price per metric ton****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 3780 - 5055    Format: Numeric

---

**Q346: Q346. Number of leaves at harvest for banana****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 5 - 10    Format: Numeric

---

**HARVESTYEAR: Data collection wave****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 2015 - 2016    Format: Numeric

**GROWINGAREA: To which field/plot does the information relate to?****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
A	A
B	B

**CLUSTERID: Unique cluster ID****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Costa RicaBanana1	Costa RicaBanana1

**COUNTRY: Country****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Costa Rica	Costa Rica

### FARMTYPE: FARMTYPE

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
BF	BF
RF	RF

### GROWERID: Unique respondent ID

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
9100100	9100100
9110400	9110400
9110500	9110500
9110600	9110600
9110700	9110700
9110900	9110900
9111100	9111100
9111200	9111200
9111400	9111400

9111500	9111500
9111600	9111600
9200100	9200100
9200200	9200200
9200300	9200300
9200400	9200400
9200500	9200500
9200600	9200600
9200700	9200700
9200800	9200800
9200900	9200900
9201000	9201000
9201100	9201100
9201200	9201200
9201500	9201500
9201600	9201600
9201700	9201700
9201800	9201800
9201900	9201900
9202000	9202000

## PRODUCT: Unique code of a product within application

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
1	1

## CROP: The crop of focus

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Banana	Banana

### APPLICATION: Unique code of an application per field per grower

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
1	1
10	10
100	100
101	101
102	102
103	103
104	104
105	105
106	106
107	107
108	108
109	109
11	11
110	110
111	111
112	112
113	113
114	114
115	115
116	116
117	117
118	118

119	119
12	12
120	120
121	121
122	122
123	123
124	124
125	125
126	126
127	127
128	128
129	129
13	13
130	130
131	131
132	132
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136	136
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152	152
153	153



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16	16
160	160
161	161
162	162
163	163
164	164
165	165
166	166
167	167
168	168
169	169
17	17
170	170
171	171
18	18
19	19
2	2
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
3	3
30	30
31	31
32	32
33	33
34	34

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37	37
38	38
39	39
4	4
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41	41
42	42
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46	46
47	47
48	48
49	49
5	5
50	50
51	51
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54	54
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56	56
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58	58
59	59
6	6
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62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
7	7

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74	74
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77	77
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79	79
8	8
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
9	9
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99

## Q241A: Q241 a. Timing of product application

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2015-01-01	2015-01-01
2015-01-03	2015-01-03
2015-01-04	2015-01-04
2015-01-05	2015-01-05
2015-01-07	2015-01-07
2015-01-08	2015-01-08
2015-01-10	2015-01-10
2015-01-11	2015-01-11
2015-01-12	2015-01-12
2015-01-14	2015-01-14
2015-01-15	2015-01-15
2015-01-16	2015-01-16
2015-01-19	2015-01-19
2015-01-20	2015-01-20
2015-01-21	2015-01-21
2015-01-22	2015-01-22
2015-01-23	2015-01-23
2015-01-24	2015-01-24
2015-01-25	2015-01-25
2015-01-26	2015-01-26
2015-01-27	2015-01-27
2015-01-28	2015-01-28
2015-01-29	2015-01-29
2015-01-30	2015-01-30
2015-02-01	2015-02-01
2015-02-02	2015-02-02
2015-02-03	2015-02-03
2015-02-06	2015-02-06
2015-02-08	2015-02-08
2015-02-09	2015-02-09
2015-02-10	2015-02-10
2015-02-11	2015-02-11
2015-02-12	2015-02-12
2015-02-13	2015-02-13
2015-02-15	2015-02-15

2015-02-16	2015-02-16
2015-02-17	2015-02-17
2015-02-19	2015-02-19
2015-02-20	2015-02-20
2015-02-21	2015-02-21
2015-02-22	2015-02-22
2015-02-24	2015-02-24
2015-02-25	2015-02-25
2015-02-26	2015-02-26
2015-02-27	2015-02-27
2015-02-28	2015-02-28
2015-03-01	2015-03-01
2015-03-02	2015-03-02
2015-03-03	2015-03-03
2015-03-05	2015-03-05
2015-03-06	2015-03-06
2015-03-07	2015-03-07
2015-03-09	2015-03-09
2015-03-10	2015-03-10
2015-03-11	2015-03-11
2015-03-13	2015-03-13
2015-03-14	2015-03-14
2015-03-15	2015-03-15
2015-03-16	2015-03-16
2015-03-17	2015-03-17
2015-03-18	2015-03-18
2015-03-19	2015-03-19
2015-03-20	2015-03-20
2015-03-21	2015-03-21
2015-03-22	2015-03-22
2015-03-23	2015-03-23
2015-03-24	2015-03-24
2015-03-25	2015-03-25
2015-03-26	2015-03-26
2015-03-27	2015-03-27
2015-03-28	2015-03-28
2015-03-29	2015-03-29
2015-04-01	2015-04-01
2015-04-02	2015-04-02

2015-04-03	2015-04-03
2015-04-04	2015-04-04
2015-04-05	2015-04-05
2015-04-06	2015-04-06
2015-04-07	2015-04-07
2015-04-08	2015-04-08
2015-04-10	2015-04-10
2015-04-11	2015-04-11
2015-04-12	2015-04-12
2015-04-13	2015-04-13
2015-04-14	2015-04-14
2015-04-15	2015-04-15
2015-04-16	2015-04-16
2015-04-17	2015-04-17
2015-04-19	2015-04-19
2015-04-20	2015-04-20
2015-04-21	2015-04-21
2015-04-22	2015-04-22
2015-04-23	2015-04-23
2015-04-25	2015-04-25
2015-04-26	2015-04-26
2015-04-27	2015-04-27
2015-04-28	2015-04-28
2015-04-29	2015-04-29
2015-04-30	2015-04-30
2015-05-01	2015-05-01
2015-05-02	2015-05-02
2015-05-03	2015-05-03
2015-05-04	2015-05-04
2015-05-05	2015-05-05
2015-05-07	2015-05-07
2015-05-08	2015-05-08
2015-05-09	2015-05-09
2015-05-10	2015-05-10
2015-05-11	2015-05-11
2015-05-12	2015-05-12
2015-05-13	2015-05-13
2015-05-14	2015-05-14
2015-05-16	2015-05-16

2015-05-17	2015-05-17
2015-05-18	2015-05-18
2015-05-19	2015-05-19
2015-05-20	2015-05-20
2015-05-21	2015-05-21
2015-05-22	2015-05-22
2015-05-24	2015-05-24
2015-05-25	2015-05-25
2015-05-26	2015-05-26
2015-05-27	2015-05-27
2015-05-28	2015-05-28
2015-05-29	2015-05-29
2015-05-30	2015-05-30
2015-05-31	2015-05-31
2015-06-01	2015-06-01
2015-06-02	2015-06-02
2015-06-03	2015-06-03
2015-06-05	2015-06-05
2015-06-06	2015-06-06
2015-06-07	2015-06-07
2015-06-08	2015-06-08
2015-06-09	2015-06-09
2015-06-10	2015-06-10
2015-06-11	2015-06-11
2015-06-12	2015-06-12
2015-06-14	2015-06-14
2015-06-16	2015-06-16
2015-06-17	2015-06-17
2015-06-18	2015-06-18
2015-06-19	2015-06-19
2015-06-20	2015-06-20
2015-06-21	2015-06-21
2015-06-23	2015-06-23
2015-06-25	2015-06-25
2015-06-26	2015-06-26
2015-06-27	2015-06-27
2015-06-30	2015-06-30
2015-07-02	2015-07-02
2015-07-04	2015-07-04

2015-07-06	2015-07-06
2015-07-07	2015-07-07
2015-07-08	2015-07-08
2015-07-09	2015-07-09
2015-07-11	2015-07-11
2015-07-13	2015-07-13
2015-07-14	2015-07-14
2015-07-15	2015-07-15
2015-07-16	2015-07-16
2015-07-17	2015-07-17
2015-07-18	2015-07-18
2015-07-20	2015-07-20
2015-07-21	2015-07-21
2015-07-22	2015-07-22
2015-07-23	2015-07-23
2015-07-24	2015-07-24
2015-07-25	2015-07-25
2015-07-27	2015-07-27
2015-07-28	2015-07-28
2015-07-29	2015-07-29
2015-07-31	2015-07-31
2015-08-01	2015-08-01
2015-08-02	2015-08-02
2015-08-03	2015-08-03
2015-08-05	2015-08-05
2015-08-06	2015-08-06
2015-08-07	2015-08-07
2015-08-08	2015-08-08
2015-08-09	2015-08-09
2015-08-10	2015-08-10
2015-08-11	2015-08-11
2015-08-12	2015-08-12
2015-08-14	2015-08-14
2015-08-15	2015-08-15
2015-08-16	2015-08-16
2015-08-17	2015-08-17
2015-08-18	2015-08-18
2015-08-20	2015-08-20
2015-08-21	2015-08-21



2015-08-22	2015-08-22
2015-08-23	2015-08-23
2015-08-24	2015-08-24
2015-08-25	2015-08-25
2015-08-26	2015-08-26
2015-08-27	2015-08-27
2015-08-29	2015-08-29
2015-08-30	2015-08-30
2015-09-01	2015-09-01
2015-09-02	2015-09-02
2015-09-03	2015-09-03
2015-09-04	2015-09-04
2015-09-05	2015-09-05
2015-09-06	2015-09-06
2015-09-07	2015-09-07
2015-09-08	2015-09-08
2015-09-10	2015-09-10
2015-09-11	2015-09-11
2015-09-12	2015-09-12
2015-09-13	2015-09-13
2015-09-14	2015-09-14
2015-09-16	2015-09-16
2015-09-17	2015-09-17
2015-09-18	2015-09-18
2015-09-19	2015-09-19
2015-09-20	2015-09-20
2015-09-21	2015-09-21
2015-09-22	2015-09-22
2015-09-23	2015-09-23
2015-09-24	2015-09-24
2015-09-25	2015-09-25
2015-09-27	2015-09-27
2015-09-28	2015-09-28
2015-09-30	2015-09-30
2015-10-01	2015-10-01
2015-10-02	2015-10-02
2015-10-04	2015-10-04
2015-10-05	2015-10-05
2015-10-06	2015-10-06

2015-10-07	2015-10-07
2015-10-08	2015-10-08
2015-10-09	2015-10-09
2015-10-10	2015-10-10
2015-10-11	2015-10-11
2015-10-12	2015-10-12
2015-10-13	2015-10-13
2015-10-14	2015-10-14
2015-10-15	2015-10-15
2015-10-16	2015-10-16
2015-10-18	2015-10-18
2015-10-19	2015-10-19
2015-10-20	2015-10-20
2015-10-22	2015-10-22
2015-10-23	2015-10-23
2015-10-24	2015-10-24
2015-10-25	2015-10-25
2015-10-27	2015-10-27
2015-10-28	2015-10-28
2015-10-29	2015-10-29
2015-10-31	2015-10-31
2015-11-01	2015-11-01
2015-11-02	2015-11-02
2015-11-03	2015-11-03
2015-11-05	2015-11-05
2015-11-06	2015-11-06
2015-11-07	2015-11-07
2015-11-09	2015-11-09
2015-11-10	2015-11-10
2015-11-11	2015-11-11
2015-11-12	2015-11-12
2015-11-14	2015-11-14
2015-11-15	2015-11-15
2015-11-16	2015-11-16
2015-11-17	2015-11-17
2015-11-18	2015-11-18
2015-11-20	2015-11-20
2015-11-21	2015-11-21
2015-11-22	2015-11-22

2015-11-23	2015-11-23
2015-11-25	2015-11-25
2015-11-27	2015-11-27
2015-11-28	2015-11-28
2015-11-29	2015-11-29
2015-11-30	2015-11-30
2015-12-01	2015-12-01
2015-12-02	2015-12-02
2015-12-04	2015-12-04
2015-12-05	2015-12-05
2015-12-06	2015-12-06
2015-12-08	2015-12-08
2015-12-09	2015-12-09
2015-12-10	2015-12-10
2015-12-11	2015-12-11
2015-12-13	2015-12-13
2015-12-15	2015-12-15
2015-12-17	2015-12-17
2015-12-18	2015-12-18
2015-12-20	2015-12-20
2015-12-22	2015-12-22
2015-12-24	2015-12-24
2015-12-27	2015-12-27
2015-12-28	2015-12-28
2015-12-29	2015-12-29

## Q241B: Q241 b.Type of product

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	Herbicide
2	Insecticide

3	Fungicide
4	Nematicides, molluscicides

### Q241C: Q241 c . Brand product name

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

##### CATEGORIES

Value	Category
confidential	confidential

### Q241C1: Q241 c1. Brand product formulation

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

##### CATEGORIES

Value	Category
confidential	confidential

### C241C: CODED VARIABLE - stringcode

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

##### CATEGORIES

Value	Category
confidential	confidential

**C241CA1: CODED VARIABLE - active ingredient1****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
ACIBENZOLAR-S-M	ACIBENZOLAR-S-M
BOSKALIDE	BOSKALIDE
CHLOROTHALONIL	CHLOROTHALONIL
DIFENOCONAZOLE	DIFENOCONAZOLE
DIQUAT	DIQUAT
Do not know	Do not know
EPOXYCONAZOLE	EPOXYCONAZOLE
ETHOPROPHOS (ETHOPROP)	ETHOPROPHOS (ETHOPROP)
FENPROPIMORF	FENPROPIMORF
GLUFOSINATE-AMMONIUM	GLUFOSINATE-AMMONIUM
GLYPHOSATE	GLYPHOSATE
LAMBDA CYHALOTHRIN	LAMBDA CYHALOTHRIN
MANCOZEB (VONDOZEB)	MANCOZEB (VONDOZEB)
OXAMYL	OXAMYL
PYRACLOSTROBINE	PYRACLOSTROBINE
PYRIMETHANIL	PYRIMETHANIL
SPIROXAMINE	SPIROXAMINE
TEBUCONAZOLE	TEBUCONAZOLE
TERBUFOS	TERBUFOS
TRIDEMORPH	TRIDEMORPH

**C241CP1: CODED VARIABLE - amount of ai1****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 10 - 880 Format: Numeric

**C241CU1: CODED VARIABLE - unit (% or Gr)****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	g/l
2	percent

**C241CA2: CODED VARIABLE - active ingredient2****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
THIAMETHOXAM	THIAMETHOXAM
TRIADIMENOL	TRIADIMENOL

**C241CP2: CODED VARIABLE - amount of ai2****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 75 - 141    Format: Numeric

**C241CPT: CODED VARIABLE - total amount of ai****Data file:** Crop\_protection

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 247 - 247 Format: Numeric

**Q241D: CODED VARIABLE Q241 d. Dosage ?****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 20 - 50000 Format: Numeric

**Q241E: CODED VARIABLE Q241 e. Unit of quantity****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	MILLILITER/HECT
2	GRAM/HECT

**Q241F: Q241 f. Amount of H2O solved in LITERS per****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 200 Format: Numeric

**Q241G: Q241 g. Pest/disease/ weed targeted ?****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
entre otras: paspalum conjugatum; panicum zinanoides; ciperus rotundus; cynodon dactylon; pennisetum polystachyon; anoxopus compressus; digitaria abyssinica; paspalum scrobiculatum; chromolaena odorata; ipomoea spp; paspalum conjugatum	entre otras: paspalum conjugatum; panicum zinanoides; ciperus rotundus; cynodon dactylon; pennisetum polystachyon; anoxopus compressus; digitaria abyssinica; paspalum scrobiculatum; chromolaena odorata; ipomoea spp; paspalum conjugatum
nematodos: radopholus similis; meloidogyne spp ; helicotylenchus spp; pratylenchus sp;; helicotylenchus sp; insectos: picudo negro cosmopolites sordidus	nematodos: radopholus similis; meloidogyne spp ; helicotylenchus spp; pratylenchus sp;; helicotylenchus sp; insectos: picudo negro cosmopolites sordidus
sygatoxa negra mycosphaerella fijiensis morelet	sygatoxa negra mycosphaerella fijiensis morelet
tuta absoluta	tuta absoluta

**Q241H: Q241 h. Level of pest/ disease/ weed pressure****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Medium pressure

**Q241I: Q241 i. Percentage of the area treated against pests/ diseases/ weeds****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 7 - 100 Format: Numeric

**Q241J: Q241 j. Percentage of crop free of pests/ diseases/ weeds at harvest (in %)****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 100 Format: Numeric

**Q241K: Q241 k. Equipment type ?****Data file:** Crop\_protection



**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 4    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Motorized boom sprayer
2	Hand operated sprayers (e.g. knapsack),
3	Other
4	Granular applicator

**SYNGENTA: CODED VARIABLE Syngenta product? (1 = YES; 0 = NO)****Data file: Crop\_protection****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	No
2	Yes

**HARVESTYEAR: Year in which the data was collected****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2014 - 2016 Format: Numeric

**COUNTRY: Country****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Costa Rica	Costa Rica

**CLUSTERID: Unique identifier per cluster****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Costa RicaBanana1	Costa RicaBanana1

**GROWERID: Unique identifier per grower****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 9100100 - 9210200 Format: Numeric

**GROWINGAREA: Field code (A or B)****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
A	A
B	B

**CORNER: Multiple corners of same field can be registered (only from 2018 onwards)****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
One gps location of each farm	One gps location of each farm

**Q22D\_LAT\_DEG: Latitude degrees****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**Q22D\_LAT\_MIN: Latitude minutes****Data file: Location****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**Q22D\_LAT\_SEC: Latitude seconds****Data file: Location****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**Q22D\_LON\_DEG: Longitude degrees****Data file: Location****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**Q22D\_LON\_MIN: Longitude minutes****Data file: Location**

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

## Q22D\_LON\_SEC: Longitude seconds

Data file: Location

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

## Q151: Q151. Open field or in a greenhouse?

Data file: Location

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Open field

## Q1F: Q1. F. Would it be okay for you for this company to contact you with information on The GGP?

Data file: Location

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Yes	Yes

## Q25: Q25. Farm address - postal code

Data file: Location

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
-1	-1
41001	41001
4595-1000 SJ	4595-1000 SJ
70101	70101
70202	70202
70205	70205
70301	70301
70302	70302
70501	70501
70502	70502

## ADMIN\_LEVEL\_1: administrative area 1

Data file: Location

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

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### CATEGORIES

Value	Category
Heredia Province	Heredia Province
Limón Province	Limón Province
San José	San José

**HARVESTYEAR: Year in which the data was collected****Data file: Activities and Machinery (Q382)****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2014 - 2016 Format: Numeric

**COUNTRY: Country****Data file: Activities and Machinery (Q382)****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Costa Rica	Costa Rica

**CROP: Crop****Data file: Activities and Machinery (Q382)****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Banana	Banana

**CLUSTERID: Unique identifier per cluster****Data file: Activities and Machinery (Q382)****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character



## Questions and instructions

### CATEGORIES

Value	Category
Costa RicaBanana1	Costa RicaBanana1

## FARMTYPE: Reference farms versus Benchmark farms

**Data file: Activities and Machinery (Q382)**

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Reference farm
2	Benchmark farm

## GROWERID: Unique identifier per grower

**Data file: Activities and Machinery (Q382)**

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
9100100	9100100
9110100	9110100
9110400	9110400
9110500	9110500
9110600	9110600
9110700	9110700
9110800	9110800
9110900	9110900
9111000	9111000

9111100	9111100
9111200	9111200
9111300	9111300
9111400	9111400
9111500	9111500
9111600	9111600
9200100	9200100
9200200	9200200
9200300	9200300
9200400	9200400
9200500	9200500
9200600	9200600
9200700	9200700
9200800	9200800
9200900	9200900
9201000	9201000
9201100	9201100
9201200	9201200
9201300	9201300
9201400	9201400
9201500	9201500
9201600	9201600
9201700	9201700
9201800	9201800
9201900	9201900
9202000	9202000
9210000	9210000
9210100	9210100
9210200	9210200

## **GROWINGAREA: Field code (A or B)**

**Data file: Activities and Machinery (Q382)**

### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

### **Questions and instructions**

CATEGORIES

Value	Category
1	A
2	B

### ACTIVITY: Which activities did the grower do on his field?

Data file: Activities and Machinery (Q382)

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 17 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category
1	Clearing
2	Ploughing
3	Digging
4	Ripping
5	Land levelling
6	Applying fertilizers
7	Mulching
8	Sowing or planting
9	Scouting for pests and diseases
10	Applying pesticides
11	Irrigating
12	Pruning
13	Weeding
14	Harvesting
15	Post handling
16	Processing
17	Transport

### MACHINERY: Did he use power driven equipment to complete this activity?

Data file: Activities and Machinery (Q382)

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

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### CATEGORIES

Value	Category
1	Yes
2	No

# study\_resources

## questionnaires

### 2014 GGP Questionnaire Master

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title 2014 GGP Questionnaire Master  
 language English  
 filename 2014 GGP Questionnaire Master.pdf

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### 2015 GGP Questionnaire Master

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title 2015 GGP Questionnaire Master  
 language English  
 filename 2015 GGP Questionnaire Master.pdf

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### 2016 GGP Questionnaire Master

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title 2016 GGP Questionnaire Master  
 language English  
 filename 2016 GGP Questionnaire Master.pdf

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## reports

### Enabling a set change in farm efficiency (productivity brochure)

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title Enabling a set change in farm efficiency (productivity brochure)  
 language English  
 filename SYT-GGP-c1productivity-brochure.pdf

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### The Good Growth Plan Progress Data - Productivity 2019

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title The Good Growth Plan Progress Data - Productivity 2019  
 language English  
 filename SYT-GGP-c1productivity-description-2019\_0.pdf

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