

Suriname Survey of Living Conditions 2016/17

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Sistemas Integrales

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Suriname Survey of Living Conditions 2016/17

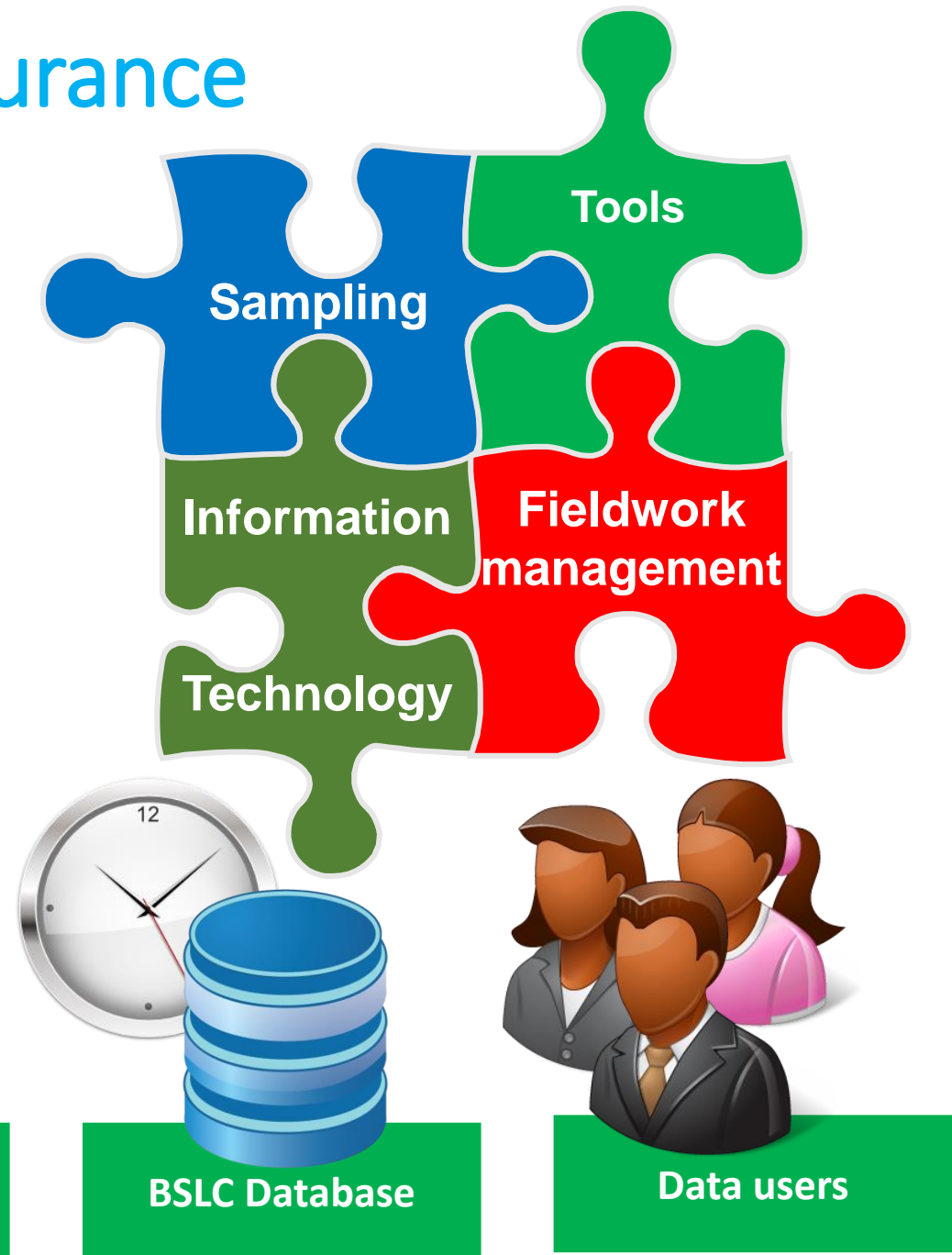
- A joint effort of
 - The Inter-American Development Bank, with the support of the EBS and the Central Bank of Suriname.
 - With technical assistance from Sistemas Integrales
 - With fieldwork implementation by DataFruit
- Main goal – Collect reliable and timely information to
 - Support Poverty analysis and Poverty alleviation
 - Support policy planning in all sectors of the economy
 - Have objective baseline indicators for the design of IDB projects

Comprehensive Quality Assurance

By integrating:

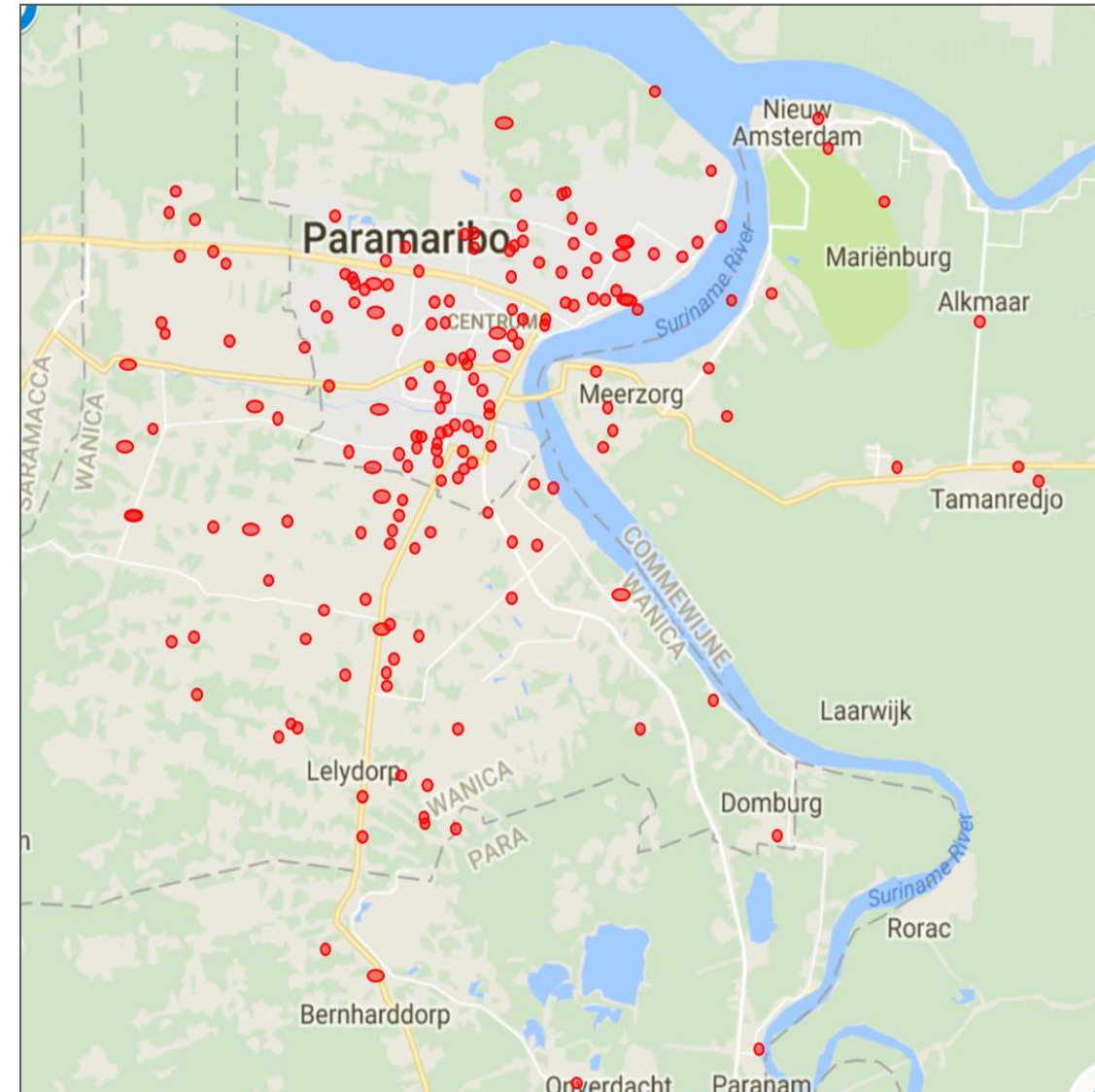
1. Sampling design
2. Questionnaires and tools
3. Fieldwork management
4. Information technology

With the goal of delivering survey analysts a reliable database on time



The SSLC main design features

- Sampling
 - Two-stage stratified probability sample design
 - 2,100 households in all 10 districts
 - Allocated over 12 months to capture seasonality (October 2016-September 2017)
 - EBS network covers 90% of the population
 - The non-electrified part of the country required a different approach: sampling of villages



The SSLC main design features

- Questionnaire in Dutch and Sranan Tongo
 - Food and non-food consumption
 - Income from Wages/ Self-employment / Farming / Remittances
 - Education
 - Access to social services and programs
 - Health
 - Fertility
 - Early childhood development
 - Employment
 - Financial inclusion
 - Housing
 - Emigration
 - Nutrition
 - Children anthropometrics
- No proxy-report and several visits per household
- **Confidentiality: fully anonymized data**

The three pillars of fieldwork Quality Assurance

1. Check-up visits

- The team supervisor re-visits some households and re-asks some questions
- Not many households, not many questions, but randomly selected

2. Integration of computers to fieldwork

paper questionnaires → fast data entry → quality controls → immediate feedback

3. Monitoring Data Quality Indicators (DQIs)

Random check-up visits

Cluster	Fortnight	Interv	Superv	Date	Comments	HH #	Extra	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	HH #	Extra	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
208	7	12	01 ▼	6/2/2017		06	1	1																				1	08	3																			0		
017	8	15	14 ▼	21/2/2017		01	1				1																	1	13	1																		1			
041	8	06	01 ▼	23/02		14	1													1								1	09	1		1		1		1				1	1	1					6				
065	8	16	02 ▼	19/2/2017		01	1				1								1		1						3																					0			
089	8	05	02 ▼	6/3/2017	HH 1: Interviewer didn't write all the renovations. The veranda was also renovated.	01	1												1									1	08	1											1							2			
113	8	07	02 ▼	4/2/2017		04	1																				0	09	2																			0			
137	8	13	14 ▼	21/02		02	1												1		1	1					3	14	1				1												1		2				
161	8	03	01 ▼	23/02		02	1			1		1								1							4	14	1															1			1				
185	8	17	14 ▼	21/2/2017		05	1					1									1						1	3	05	1				1									1				3				
209	8	12	01 ▼	26/02	hh 8= resp said her mother answered for Q 3.23 and 3.24 but interviewer wrote dk. resp 2 didn't had flu but she has an allergy for dust	08	1			1	1	1															3	15	1																			0			
018	9	15	10 ▼			03	1																				1	1																				0			
042	9	03	10 ▼			07	1																			1		1	13	1															1	1		2			

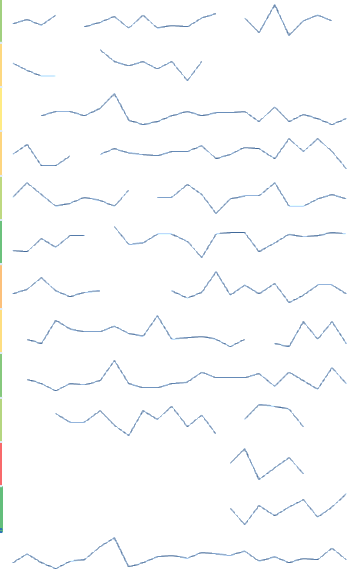
Monitoring of Data Quality Indicators (DQIs)

- Continuous process
- DASHBOARD with over 20 survey-specific DQI's, generated and analyzed in real time throughout the entire survey
- Active management – Speedy and timely intervention
- Some examples follow

Average number of non-work income sources per household, by interviewer and fortnight



SSLC. AVERAGE NUMBER OF NON-WORK INCOME SOURCES PER HOUSEHOLD, BY INTERVIEWER AND FORTNIGHT

Average of s	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
Jonathan	1.13	1.40	1.06	1.75		0.92	1.25	1.67	0.83	1.78	0.83	1.00	0.88	1.50	1.83		1.50	0.50	2.50	0.29	1.33	1.73	1.30		1.29
Zuleica	1.30	0.91	0.64	0.64			2.00	1.40	1.13	1.38	1.00	1.40	0.40	1.40											1.04
Rogier	1.56		1.00	1.41	1.43	1.00	1.67	2.86	0.67	0.33	0.50	1.00	1.33	1.00	1.25	1.25	1.33	0.57	1.75	0.53	1.18	0.83	0.27	0.75	1.09
Eunice	0.92	1.58	0.25	0.25	0.89		1.00	1.29	1.09	1.00	0.88	1.17	1.18	1.46	0.67	1.00	1.40	1.33	0.67	2.00	1.13	2.00	1.14	0.00	1.03
Reggy	1.22	2.17	1.45	0.63	0.87	1.27	1.00	0.69	1.75		1.25	1.20	2.06	1.42	0.14	1.11	1.33	1.29	2.25	0.64	0.70	1.10	1.42	1.09	1.23
Cheranie	0.64	0.50	1.40	0.83	1.67	1.70		2.36	1.00	1.08	1.75	1.80	1.27	0.00	1.82	1.92	1.83	0.50	1.17	1.75	1.56	1.67	1.90	1.73	1.41
Mitchell	0.83	1.09	1.89	1.00	0.57	0.91	1.00		0.53			1.00	0.46	0.91	2.38	0.75	1.44	0.83	1.50	0.17	0.73	1.40	1.38	0.85	0.97
Sharda		0.80	0.60	1.83	1.38	1.17	1.20	1.50	1.14	1.00	2.08	0.80	0.88	1.00	0.83	0.43	0.83		0.63	0.42	1.73	0.83	1.75	0.58	1.05
Siska		1.50	1.00	0.00	1.00	0.86	1.33	4.00	1.00	0.50	0.50	1.00	1.18	2.44	1.67	1.78	1.77	2.33	0.57	2.45	1.36	0.33	3.00	0.92	1.35
Migil				1.44	1.00	1.00	1.56	0.83	0.33	1.55	1.11	1.80	0.80	1.33	0.43		1.11	1.88	1.75	1.63	0.75				1.25
Ajai																0.75	1.17	0.33	0.67	0.92	0.50				0.72
Romana																1.40	0.50	1.50	1.00	1.42	1.82	0.92	1.42	2.18	1.43
Total	1.06	1.27	1.05	0.92	1.09	1.11	1.42	1.64	0.96	1.07	1.18	1.21	1.16	1.31	1.26	1.21	1.32	1.10	1.20	1.04	1.17	1.13	1.37	1.12	1.17
















Average number of food items consumed per household, by interviewer and fortnight

SSLC. AVERAGE NUMBER OF FOOD ITEMS CONSUMED PER HOUSEHOLD, BY INTERVIEWER AND FORTNIGHT

Average of it																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
Jonathan	38.50	33.70	25.69	19.00		37.67	35.50	20.50	32.00	34.00	27.67	29.00	21.25	40.83	28.50		36.00	37.50	42.00	24.29	21.33	34.00	32.00		30.54
Zuleica	35.00	32.00	28.64	19.27			46.00	29.60	37.63	40.25	36.00	40.00	40.20	27.40											32.04
Rogier	32.78		34.25	15.76	23.57	35.36	38.42	36.29	26.67	27.83	30.00	37.57	38.75	36.33	31.75	33.67	25.67	31.14	41.00	33.73	21.09	32.75	29.91	30.33	30.75
Eunice	19.67	30.58	13.50	28.33	27.78		35.78	31.14	27.82	31.38	25.75	26.33	32.45	30.62	21.42	37.67	35.00	29.25	28.25	28.00	32.50	20.00	24.71	31.00	28.15
Reggy	27.30	28.83	27.27	22.38	30.67	33.91	49.50	31.23	35.67		33.25	35.60	31.76	42.08	31.43	33.83	18.89	35.43	31.00	17.43	24.80	32.40	31.17	34.73	30.72
Cheranie	31.36	50.90	43.80	31.67	33.67	33.70		35.82	35.00	33.33	47.08	39.40	37.45	50.40	39.45	41.77	42.67	42.00	32.25	47.25	41.67	43.56	44.50	45.55	40.10
Mitchell	22.00	21.82	22.00	13.86	23.71	22.55	34.80		24.27			39.57	25.23	32.36	35.13	33.06	23.78	28.67	26.50	17.50	15.08	30.30	27.62	30.08	25.87
Sharda		26.00	37.00	41.83	30.23	36.83	38.10	48.25	32.14	33.78	35.17	23.80	39.88	37.56	38.67	21.86	40.33		36.88	39.25	32.82	36.42	37.75	41.75	35.52
Siska		32.10	33.00	23.00	27.45	30.43	27.67	34.00	29.00	34.14	25.30	21.25	32.18	27.67	29.22	33.33	33.38	37.83	33.43	33.55	32.27	30.83	41.25	24.17	30.70
Migil				24.00	29.67	33.13	30.22	21.67	27.67	29.82	31.11	27.40	27.40	29.92	32.43		21.33	22.38	33.63	24.63	24.13				27.80
Ajai																15.00	31.92	33.33	37.92	37.25	34.08				31.58
Romana																25.09	37.33	28.75	32.67	32.75	43.09	31.58	27.92	30.55	31.78
Total	28.76	31.77	27.95	21.29	27.95	33.16	36.05	31.70	28.47	33.26	32.82	34.22	32.50	34.74	31.85	31.15	30.41	32.26	34.23	30.95	29.08	33.82	31.94	33.69	31.16

Average number of alcohol items consumed at home per household, by interviewer and fortnight

SSLC. AVERAGE NUMBER OF ALCOHOL ITEMS CONSUMED AT HOME PER HOUSEHOLD, BY INTERVIEWER AND FORTNIGHT

Average of ite	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	
Jonathan	0.75	0.60	0.50	0.25		0.92	0.00	0.00	0.33	0.67	0.17	0.00	0.13	0.17	0.33		0.67	0.25	0.50	0.57	0.58	0.27	0.50		0.44	
Zuleica	0.80	0.36	0.27	0.32			0.80	0.00	0.63	0.50	0.17	0.70	0.00	0.00											0.41	
Rogier	0.11		0.25	0.24	0.64	0.36	0.42	1.00	0.40	0.33	0.00	0.00	0.17	0.00	0.00	0.33	0.22	0.00	0.75	0.40	0.18	0.50	0.00	0.25	0.29	
Eunice	0.08	0.00	0.00	0.17	0.00		0.44	0.14	0.00	0.25	0.25	0.17	0.00	0.08	0.00	0.17	0.20	0.25	0.08	0.00	0.25	0.00	0.14	0.00	0.12	
Reggy	0.50	0.50	0.09	0.13	0.07	0.36	0.00	0.15	0.17		0.00	0.00	0.29	0.17	0.14	0.06	0.33	0.43	0.00	0.00	0.30	0.30	0.08	0.27	0.20	
Cheranie	0.09	0.10	0.60	0.00	0.00	0.00		0.09	0.00	0.08	0.08	0.40	0.27	0.20	0.73	0.00	1.17	0.10	0.08	0.42	1.00	0.67	0.60	0.55	0.30	
Mitchell	0.42	0.18	0.22	0.14	0.71	0.55	0.40		0.27			0.29	0.23	0.36	0.38	0.13	0.11	0.17	0.00	0.17	0.08	0.40	0.00	0.00	0.24	
Sharda		0.20	0.60	0.67	0.38	0.42	0.00	0.50	0.29	0.11	0.08	0.00	0.00	0.11	0.00	0.43	0.67		0.13	0.08	0.00	0.00	0.25	0.33	0.20	
Siska		0.40	0.33	0.17	0.09	0.86	0.33	1.00	0.20	0.21	0.00	0.00	0.36	0.33	0.22	0.22	0.38	0.33	0.29	0.27	0.18	0.00	0.25	0.08	0.26	
Migil				0.11	0.00	1.13	0.22	0.17	1.00	0.09	0.00	0.40	0.20	0.25	0.00		0.00	0.25	0.13	0.13	0.00				0.21	
Ajai																0.17	0.83	0.75	0.67	0.33	0.25				0.50	
Romana																0.18	0.17	0.50	0.00	0.42	0.82	0.17	0.25	0.18	0.33	
Total	0.38	0.29	0.30	0.20	0.27	0.55	0.29	0.26	0.31	0.24	0.09	0.22	0.19	0.18	0.21	0.17	0.42	0.33	0.26	0.26	0.33	0.29	0.22	0.23	0.27	


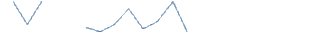











Amount spent on each food item. Average number of missing values per household, by interviewer and fortnight

SSLC. AMOUNT SPENT ON EACH FOOD ITEM. AVERAGE NUMBER OF MISSING VALUES PER HOUSEHOLD BY INTERVIEWER AND FORTNIGHT

Average of q1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	
Jonathan	2.63	1.30	0.50	0.80		0.25	0.00	0.25	0.00	0.11	0.33	0.00	0.00	0.17	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.36	
Zuleica	0.70	1.91	0.09	1.35			0.20	0.00	0.50	0.13	0.00	0.10	0.00	0.00											0.62	
Rogier	0.11		0.00	0.00	0.36	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	0.04	
Eunice	3.64	6.33	1.50	0.83	2.67		0.11	1.50	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	1.00	0.00	0.00	0.00	0.97	
Reggy	0.22	0.50	1.30	0.29	0.53	0.18	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	
Cheranie	2.50	12.40	2.20	0.64	0.33	1.50		0.09	1.50	0.08	0.00	0.00	0.00	0.80	0.00	0.08	0.00	0.00	0.09	0.00	0.00	0.00	0.11	0.18	0.95	
Mitchell	1.09	0.27	0.38	0.00	0.00	0.45	0.00		0.40			0.57	0.38	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.20	
Sharda		1.57	0.40	0.50	0.23	0.64	0.20	0.50	3.00	0.24	0.00	1.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.30	
Siska		0.00	0.00	0.00	0.73	0.17	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	
Migil				3.00	2.50	2.13	0.56	0.00	0.67	0.09	0.33	0.00	0.00	0.00	0.14		0.13	0.00	0.00	0.00	0.00				0.59	
Ajai																0.08	0.00	0.00	0.00	0.08	0.08				0.04	
Romana																0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.01	
Total	1.59	3.06	0.65	0.73	0.84	0.60	0.15	0.24	0.38	0.09	0.11	0.16	0.05	0.06	0.04	0.03	0.01	0.00	0.03	0.01	0.07	0.07	0.01	0.03	0.36	

Total annual production of each crop. Average number of missing values per household, by interviewer and fortnight

SSLC. TOTAL ANNUAL PRODUCTION OF EACH CROP. AVERAGE NUMBER OF MISSING VALUES PER HOUSEHOLD BY INTERVIEWER AND FORTNIGHT

Average of q1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	
Jonathan	3.00	9.00	2.57	2.75		5.00	3.50	2.00	1.33	2.50	0.00	1.00	1.33	2.50	0.00		1.80	1.50	0.43	1.50	2.80	0.50	0.25		2.07	
Zuleica		4.00	1.78	3.90			1.50	1.00	1.71	3.25	1.33	2.00	4.00	1.00											2.38	
Rogier	0.00			0.00	0.44	2.00	1.82	2.00	2.36	1.00	0.50	1.00	2.67	1.67	1.00	0.50	4.38	1.67	1.75	2.67	2.43	2.33	0.71	1.00	1.69	
Eunice	3.80	10.86	1.00	2.00	2.50		3.67	2.17	3.83	2.00	3.75	0.00	1.88	1.00	2.13	5.00	0.00	2.33	0.20	0.00	1.25	1.00	0.67	1.00	2.86	
Reggy	1.50	2.00	2.00	0.50	2.43	1.00	2.00	1.50	1.89		0.00	1.50	2.00	2.00	1.50	2.23	2.86	2.25	4.00	4.00	1.67	1.00	1.00	1.25	1.95	
Cheranie	9.00	6.50	5.00	2.00	0.00	1.67		3.00	5.00	1.88	2.50	1.75	0.57	3.67	3.13	1.14	2.00	1.00	1.80	1.90	0.75	5.50	1.22	1.50	2.28	
Mitchell	1.00	2.57	0.33	0.00	0.00	3.60	0.80		2.27			1.86	0.50	0.43	0.71	0.92	0.57	3.25	1.50	0.50	0.50	0.20	0.33	0.10	1.08	
Sharda		2.00	2.00	4.33	5.00	5.29	3.60	3.50	1.00	2.14	1.29	2.50	3.67	5.13	1.63	2.00	3.60		7.00	2.45	3.44	3.33	5.75	2.10	3.21	
Siska			0.00	0.00		7.00		6.00	6.75	2.70	3.50	2.50	1.43	3.50	2.54	0.88	1.00	0.80	1.20	0.78	1.80	1.00	0.33	0.50	1.83	
Migil				8.00	5.00	6.00	4.25	2.33	2.50	1.00	2.00	2.25	0.00	0.00	1.33		0.50	1.60	1.00	0.86	1.25				1.75	
Ajai																0.17	5.25	3.00	2.50	4.29	1.00				2.58	
Romana																1.00	0.80	0.56	1.00	2.13	2.00	1.75	0.63	0.80	1.22	
Total	2.59	6.17	2.00	1.87	1.70	3.50	2.41	2.31	2.47	2.21	2.00	1.55	1.85	2.18	1.88	1.23	2.27	1.56	2.06	2.13	1.86	2.28	1.12	1.02	2.03	

Data publicly available

- Anonymized datasets publicly available
 - Data ready and accessible for analysis few weeks after the end of fieldwork
 - 11 datasets for different statistical units
- Methodological Report including
 - Sample design
 - Sampling error computation scripts in accordance with the complex sample design
 - Quality assurance details
 - Full questionnaire in Dutch, Sranan Tongo and English
 - Codebook

Thank you!