

Labor Force Survey 2018

Methodology Note for World Bank

Sampling design, methodology and stratification variables

The sample will be drawn from the population of housing units as mapped in the first quarter of 2013, and sampling will be done using the stratified sampling method, where a strata is defined as a Zone. There are 8 official Zones on St. Maarten as defined by the Ministry of VROMI. The sample will reflect the composition of St. Maarten as far as population density. Once the number of housing units from each Zone is determined, a simple random sample will select the number of housing units.

The overall sample size has been determined by the normal sample size formula with 95% confidence, population of 12,395 households and an error of 3%. This puts the sample size at 983. The non-response rate of 24% in the previous survey means that we need to select 1,219 households. We will round up the sample and use a sample size of 1,300 households.

According to the 2011 Census, the population was distributed among the Zones as follows:

Zone	Population Density
Cole Bay	21.3%
Cul-de-Sac	24.4%
Little Bay	9.0%
Lower Princess Quarter	25.7%
Lowlands	1.4%
Philipsburg	4.8%
Simpson Bay	2.1%
Upper Princess Quarter	11.4%

Data-collection for the 2018 LFS started in September 2018 and lasted until November. We did not manage to visit all 1,300 households, but 1,209 households were visited, and 784 households responded (non-response rate increased to 35%). The completion target was 983, and therefore the responses were within 80% of the completion target.

With our sample of 784 households, we achieved an error margin of 3.39% with 95% confidence level. At the end of the fieldwork, 1,886 people were interviewed.

Treatment of non-responses and outliers

Non-responses are determined by a number of questions.

1. Is the address responding?
 - a. Yes
 - b. No
2. Why is this address a non-response?
 - a. There is no property on the address, it is an empty lot
 - b. The property is vacant, no one lives there at the moment
 - c. The property is severely damaged and uninhabitable
 - d. The property is currently under construction
 - e. The address is not a residence, it's a business or commercial building
 - i. What is the name of the business that is at the address?

- f. The members of the household refused to participate
- g. No one was home / No one answered after I tried 3 times
 - i. What date was your first visit?
 - ii. What date was your second visit?
 - iii. What date was your third visit?
- h. Other
 - i. Please specify why this address is a non response

Non responses are therefore categorized based on the responses to the above questions, and not counted in the final data-set used for analysis.

Some outliers are removed while the survey is being conducted. For example, households with more than 10 members are not interviewed. Also, detailed information is only collected for up to 3 jobs for those who are employed.

After the data is collected, numerical values such as income are analysed, and outliers are dealt with on an individual case basis.

Expansion Factor

Age and gender are the expansion factors used to gross the data from the sample to the population. The below table is the age and gender distribution of the population in 2018, which is what was used for the calculation.

Population Statistics 2018			
Ages	Male	Female	Totals
0 - 4	1349	1265	2614
5 - 9	1437	1336	2773
10 - 14	1387	1354	2741
15 - 19	1360	1361	2721
20 - 24	1139	1025	2165
25 - 29	1142	1324	2466
30 - 34	1432	1651	3083
35 - 39	1510	1832	3342
40 - 44	1651	1895	3546
45 - 49	1665	1806	3471
50 - 54	1727	1719	3446
55 - 59	1348	1447	2795
60 - 64	1091	1132	2223
65 - 69	759	813	1573
70 - 74	431	450	881
75 - 79	207	223	430
80 - 84	93	125	217
85 - 89	18	61	79
90 - 94	7	16	24
95 >	4	19	23
TOTALS	19759	20855	40614

Key Definitions

Employed (4+):

All persons 15 years and older with a job or their own business or who, during the week prior to the survey, worked 4 hours or more for a remuneration.

Employed (less than 4):

All persons 15 years and older with a job or their own business or who, during the week prior to the survey, worked less than 4 hours for a remuneration.

Unemployed:

All persons 15 years and older who during the survey were unemployed, were actively looking for work the month prior to the survey, and who could start working within 2 weeks, should they find a job.

Economically Inactive:

All persons 15 years and older who are neither employed nor unemployed.

Education levels:

Level	Description
No formal education completed	This category includes persons who never attended any level of schooling, or who completed a few years of schooling but did not complete the required years to achieve the qualification.
Primary	This category includes persons who completed elementary school, and/or attended some years of high school, but did not complete the required years to achieve the qualification.
Secondary	This category includes persons who completed any level of high school and/or attended some years of post-secondary education, but did not complete the required years to achieve the qualification. For the purpose of this publication, no distinction is made between vocational secondary education and academic secondary education. Data disaggregated by a lower level of distinction is available on request.
Post-Secondary, Non-Tertiary	This category includes persons who completed a qualification of study after high school that is not considered tertiary level. Most common examples include A-Level and International Baccalaureate programs.
Tertiary	This category includes persons who completed any tertiary level education. For the purpose of this publication, no distinction is made between the levels of qualifications (e.g. Bachelor's, Master's, Doctorate, etc.). Data disaggregated by a lower level of distinction is available on request.

Headings and Questions

Heading	Question
ifs_gen_nr_hh_size	How many people live in this household?
ifs_gen_nr_pers_num	Enter the personal number
ifs_gen_cn_hh_position	What is the relation to the head of the household?
ifs_gen_cn_gender	What is your gender?
ifs_gen_nr_age	How old are you?
ifs_gen_ct_birth_country	Where were you born?

ifs_gen_ct_nationality	What is your country of nationality?
ifs_gen_cn_marital_status	What is your marital status?
ifs_edu_yn_current	Are you currently following an education program?
ifs_edu_cn_cur_sch_level	What level of education is it?
ifs_edu_tx_cur_sch_level_ot	Specify the level of education
Highest_level_edu_completed (Computed variable based on the following questions)	Did you finish primary school?
	Did you finish secondary school?
	What level of secondary education was it?
	Specify the level of education
	What year did you complete secondary education?
	Up to what grade did you complete?
	Did you complete any level of study after completing secondary education?
	Did you receive study financing from St. Maarten?
	What is the highest level of education that you completed after secondary school?
	Specify the level of education
Up to what year or grade did you complete?	
Economic_Status (computed variable based on the following questions)	Do you have a job where you worked 4 hours or more in the past week?
	Have you worked between 1 - 4 hours in the past week?
	Over the last 4 weeks, have you actively been looking for work?
	Are you planning to start your own business?
	If you find a job or are able to start your own business would you be able to start in two weeks?
Employed_Industry (Computed based on the International Standard Industrial Classification of All Economic Activities (ISIC) Rev. 4, and the following questions)	What is the name of the company you work for?
	Please specify the name of the company
	What government ministry do you work in?
	What government department do you work in?
	Please specify the name of the department
	What industry is the company you work for registered in?
	Please specify the industry
	What country is the company you work for in?
Employed_Occupation	What is your profession?

(Computed based on the International Standard Classification of Occupations (ISCO), and the following questions)	Please specify your profession
ifs_emp_nr_work_hours	How many hours per week do you usually work?
ifs_emp_cn_hours_satisfied	Would you like to change the number of hours you work per week?
ifs_emp_nr_duration_years	How many years have you been working at this job?
ifs_emp_nr_duration_months	How many months have you been working at this job?
ifs_emp_cn_econ_pos	What is your economic position in your job?
ifs_emp_tx_econ_pos_ot	Please specify your economic position
ifs_emp_nr_contract_duration	How long is your contract?
ifs_emp_nr_num_contracts	How many contracts have you had for this job (including your current contract)?
ifs_emp_nr_own_comp_start	What year was your company started?
ifs_emp_nr_own_comp_employees	How many persons (including yourself) work in your company?
ifs_emp_yn_own_comp_registered	Is your company registered at the Chamber of Commerce?
ifs_emp_yn_own_comp_license	Does your company have a business license?
ifs_emp_yn_own_comp_state	Does your company have a profit and loss account or an income statement?
ifs_emp_cn_own_comp_form	What is the legal form of your business?
ifs_emp_tx_own_comp_form_ot	Please specify the legal form of your business.
ifs_emp_yn_written_agreement	Do you have a written employment agreement with your employer?
ifs_emp_yn_payslip	Do you receive a payslip?
ifs_emp_yn_irma_affect	Was your employment situation affected by the passing of hurricane Irma?
ifs_emp_cn_irma	How was your employment situation affected by the passing of hurricane Irma?
ifs_emp_tx_irma_ot	Please specify how your employment situation was affected by the passing of hurricane Irma
ifs_emp_yn_labour_union	Are you a member of a labour union?
ifs_emp_cn_lab_union_name	What is the name of the labour union?
ifs_emp_tx_lab_union_name_ot	Please specify the name of the labour union
ifs_emp_cn_cla	Do you have a valid Collective Labour Agreement (CLA)?
ifs_emp_yn_looking_job	Have you been looking for another job?
ifs_emp_nr_looking_job_yrs	How many years have you been looking for another job?
ifs_emp_nr_looking_job_mnt	How many months have you been looking for another job?
ifs_emp_cn_looking_job_reas1	Why have you been looking for a change from your main job?
ifs_emp_tx_looking_job_reas1_ot	Please specify why you have been looking for another job to replace your main job

ifs_emp_cn_looking_job_reas2	Why have you been looking for an additional job?
ifs_emp_tx_looking_job_reas2_ot	Please specify why you have been looking for another job in addition to your main job
ifs_emp_ct_months	Please select which months during the past year you worked
ifs_emp_cn_benefits	Which of the following benefits are included in your main job?
ifs_emp_tx_benefits_ot	Please specify any benefits available
ifs_emp_nr_vacation_days	How many paid vacation days do you get?
ifs_emp_nr_sickleave	What percentage of sick leave compensation is paid by your employer?
ifs_emp_nr_lunch	How many minutes of paid lunch hour do you get?
ifs_emp_yn_2nd_job	Besides your main job, do you have a second job?
Employed_industry_2 (same as employed_industry)	What is the name of the company you work for?
	Please specify the name of the company
	What country is the company you work for in?
	What industry is the company you work for registered in?
Employed_occupation_2 (same as Employed_occupation)	Please specify the industry
	What is your profession?
Employed_occupation_2 (same as Employed_occupation)	Please specify your profession
ifs_emp_nr_2nd_work_hours	How many hours per week do you usually work at your job?
ifs_emp_cn_2nd_hours_satisfied	Would you like to change the number of hours you work per week?
ifs_emp_nr_2nd_duration_years	How many years have you been working at this job?
ifs_emp_nr_2nd_duration_months	How many months have you been working at this job?
ifs_emp_cn_2nd_econ_pos	What is your economic position in your job?
ifs_emp_tx_2nd_econ_pos_ot	Please specify your economic position
ifs_emp_nr_2nd_contract_length	How long is your contract?
ifs_emp_nr_2nd_num_contracts	How many contracts have you had for this job (including your current contract)?
ifs_emp_nr_2nd_own_comp_start	What year was your company started?
ifs_emp_nr_2nd_own_comp_size	How many persons (including yourself) work in your company?
ifs_emp_yn_2nd_own_comp_reg	Is your company registered at the Chamber of Commerce?
ifs_emp_yn_2nd_own_comp_license	Does your company have a business license?
ifs_emp_yn_2nd_own_comp_state	Does your company have a profit and loss account or an income statement?
ifs_emp_cn_2nd_own_comp_form	What is the legal form of your business?

ifs_emp_tx_2nd_own_comp_form_ot	Please specify the legal form of your business.
ifs_emp_yn_2nd_written_agree	Do you have a written employment agreement with your employer?
ifs_emp_yn_2nd_payslip	Do you receive a payslip?
ifs_emp_yn_3rd_job	Do you have a third job?
Employed_industry_3 (same as employed_industry)	What is the name of the company you work for?
	Please specify the name of the company
	What country is the company you work for in?
	What industry is the company you work for registered in?
	Please specify the industry
Employed_occupation_3 (same as Employed_occupation)	What is your profession?
	Please specify your profession
ifs_emp_nr_3rd_work_hours	How many hours per week do you usually work at your job?
ifs_emp_cn_3rd_hours_satisfied	Would you like to change the number of hours you work per week?
ifs_emp_nr_3rd_duration_years	How many years have you been working at this job?
ifs_emp_nr_3rd_duration_months	How many months have you been working at this job?
ifs_emp_cn_3rd_econ_pos	What is your economic position in your job?
ifs_emp_tx_3rd_econ_pos_ot	Please specify your economic position
ifs_emp_nr_3rd_contract_length	How long is your contract?
ifs_emp_nr_3rd_num_contracts	How many contracts have you had for this job (including your current contract)?
ifs_emp_nr_3rd_own_comp_start	What year was your company started?
ifs_emp_nr_3rd_own_comp_size	How many persons (including yourself) work in your company?
ifs_emp_yn_3rd_own_comp_reg	Is your company registered at the Chamber of Commerce?
ifs_emp_yn_3rd_own_comp_license	Does your company have a business license?
ifs_emp_yn_3rd_own_comp_state	Does your company have a profit and loss account or an income statement?
ifs_emp_cn_3rd_own_comp_form	What is the legal form of your business?
ifs_emp_tx_3rd_own_comp_form_ot	Please specify the legal form of your business.
ifs_emp_yn_3rd_written_agree	Do you have a written employment agreement with your employer?
ifs_emp_yn_3rd_payslip	Do you receive a payslip?
ifs_yn_emp_more_jobs	Do you have another job?
ifs_emp_nr_number_jobs	How many jobs do you have?

ifs_emp_nr_hours_jobs	What is the total number of hours you work per week on all your jobs?
ifs_less_cn_reason	What is the main reason you work less than 4 hours a week?
ifs_less_tx_reason_other	Please specify the main reason you work less than 4 hours a week?
ifs_less_cn_hours_satisfied	Would you like to change the number of hours you work per week?
ifs_less_nr_duration	How long have you been working less than 4 hours per week?
Employed_less_Industry (same as employed_industry)	What is the name of the company you work for?
	Please specify the name of the company
	What country is the company you work for in?
	What industry is the company you work for registered in?
	Please specify the industry
Employed_less_occupation (same as Employed_occupation)	What is your profession?
	Please specify your profession
ifs_less_nr_work_hours	How many hours per week do you usually work at your job?
ifs_less_cn_econ_pos	What is your economic position in your job?
ifs_less_tx_econ_pos_ot	Please specify your economic position
ifs_less_nr_contract_duration	How long is your contract?
ifs_less_nr_amt_contracts	How many contracts have you had for this job (including your current contract)?
ifs_less_nr_own_comp_start	What year was your company started?
ifs_less_nr_own_comp_employees	How many persons (including yourself) work in your company?
ifs_less_yn_own_comp_registered	Is your company registered at the Chamber of Commerce?
ifs_less_yn_own_comp_license	Does your company have a business license?
ifs_less_cn_own_comp_form	What is the legal form of your business?
ifs_less_tx_own_comp_form_ot	Please specify the legal form of your business.
ifs_less_yn_written_agreement	Do you have a written employment agreement with your employer?
ifs_less_yn_payslip	Do you receive a payslip?
ifs_less_yn_irma_affect	Was your employment situation affected by the passing of hurricane Irma?
ifs_less_cn_irma	How was your employment situation affected by the passing of hurricane Irma?
ifs_less_tx_irma_ot	Please specify how your employment situation was affected by the passing of hurricane Irma
ifs_less_yn_labour_union	Are you a member of a labour union?
ifs_less_cn_lab_union_name	What is the name of the labour union?

ifs_less_tx_lab_union_name_ot	Please specify the name of the labour union
ifs_less_cn_cla	Do you have a valid Collective Labour Agreement (CLA)?
ifs_less_yn_looking	Over the last 4 weeks, have you actively been looking for work to increase your hours?
ifs_less_cn_looking	How have you been looking for work in the last month?
ifs_less_tx_looking_ot	Please specify how you looked for work in the last month
ifs_less_cn_lab_office	Are you registered with the Labour Affairs Agency (labour office)?
ifs_less_dt_lab_office	When last did you visit the Labour Affairs Agency or make use of their services?
ifs_less_cn_reg_lab_office	Why haven't you registered with the Labour Affairs Agency (labour office)?
ifs_less_cn_lab_office_ot	Please specify why you haven't registered with the Labour Affairs Agency (labour office).
ifs_less_yn_start_bus	Are you planning to start your own business?
ifs_less_yn_start_2_weeks	If you find a job or are able to start your own business would you be able to start in two weeks?
ifs_less_nr_looking_duration	How many months have you been looking for work?
ifs_less_cn_rsn_cant_start	Why are you unable to start working within 2 weeks if you found a job or successfully started your business?
ifs_less_tx_rsn_cant_start_ot	Please specify the reason
ifs_less_cn_reason_not_looking	What is the main reason that you are not looking for more work?
ifs_less_tx_reason_not_look_ot	Please specify the reason
ifs_less_cn_reason_cant_find	What would you say is the main reason you haven't been able to find more work yet?
ifs_less_tx_reason_cant_find_ot	Please specify the reason
ifs_less_ct_months	Please select which months during the past year you worked
ifs_unemp_nr_duration_years	How long have you been unemployed (years)?
ifs_unemp_nr_duration_months	How long have you been unemployed (months)?
ifs_unemp_cn_reason	Why are you unemployed at the moment?
ifs_unemp_tx_reason_ot	Please specify the reason
ifs_unemp_yn_reason_irma	Is the reason you are unemployed directly related to the passing of hurricane Irma?
ifs_unemp_cn_looking	How have you been looking for work in the last month?
ifs_unemp_tx_looking_ot	Please specify how you looked for work in the last month
ifs_unemp_cn_lab_office	Are you registered with the Labour Affairs Agency (labour office)?
ifs_unemp_dt_lab_office	When last did you visit the Labour Affairs Agency or make use of their services?
ifs_unemp_cn_reg_lab_office	Why haven't you registered with the Labour Affairs Agency (labour office)?
ifs_unemp_cn_lab_office_ot	Please specify why you haven't registered with the Labour Affairs Agency (labour office).

ifs_unemp_cn_looking_status	Are you looking for a permanent or a temporary job?
ifs_unemp_cn_looking_time	Are you looking for a full-time or a part-time job?
ifs_unemp_ct_industry	What industry would you like to work in?
ifs_unemp_tx_industry_ot	Please specify the industry
ifs_unemp_nr_duration_looking	How many months have you been actively looking for a job?
ifs_unemp_cn_rsn_cant_find	What would you say is the main reason you haven't been able to find a job yet?
ifs_unemp_tx_rsn_cant_find_ot	Please specify the reason
ifs_ei_cn_rsn_cant_start	Why are you unable to start working within 2 weeks if you found a job or successfully started your business?
ifs_ei_tx_rsn_cant_start_ot	Please specify the reason
ifs_ei_cn_rsn_not_looking	What is the main reason that you are not looking for work?
ifs_ei_tx_rsn_not_looking_ot	Please specify the reason
ifs_ei_yn_irma_status	Did the passing of hurricane Irma affect your Employment Status?
ifs_ei_irma_cn_status	How did the passing of hurricane Irma affect your Employment Status?
ifs_ei_tx_irma_status_ot	Please specify how your employment situation was affected by the passing of hurricane Irma
ifs_inc_cn_main_source	What is your main source of income?
ifs_inc_tx_main_source_ot	Please specify the source of income
ifs_inc_no_income	How do you cover your monthly expenses?
ifs_inc_ct_main_amt	Please specify your main income amount in guilders
ifs_inc_cn_main_currency	What currency is this income usually paid in?
ifs_inc_cn_main_time	How frequently is this income usually paid?
ifs_inc_tx_main_time_ot	Please specify how frequently this income is usually paid
ifs_inc_yn_irma	Was your main source of income affected by the passing of hurricane Irma?
ifs_inc_yn_irma_lose	Did you lose one or more sources of income due to the passing of hurricane Irma?
ifs_inc_cn_irma_lost	What sources of income did you lose due to the passing of hurricane Irma?
ifs_inc_tx_main_irma_lost_ot	Please specify what sources of income you lost due to the passing of hurricane Irma.
ifs_yn_inc_2nd	Do you have another source of income?
ifs_inc_cn_2nd_source	What is your second source of income?
ifs_inc_tx_2nd_source_ot	Please specify the source of income
ifs_inc_ct_2nd_amt	Please specify the income amount in guilders
ifs_inc_cn_2nd_currency	What currency is this income usually paid in?

ifs_inc_cn_2nd_time	How frequently is this income usually paid?
ifs_inc_tx_2nd_time_ot	Please specify how frequently this income is usually paid
ifs_inc_yn_2nd_irma	Was your 2nd source of income affected by the passing of hurricane Irma?
ifs_inc_yn_3rd	Do you have another source of income?
ifs_inc_cn_3rd_source	What is your third source of income?
ifs_inc_tx_3rd_source_ot	Please specify the source of income
ifs_inc_ct_3rd_amt	Please specify the income amount in guilders
ifs_inc_cn_3rd_currency	What currency is this income usually paid in?
ifs_inc_cn_3rd_time	How frequently is this income usually paid?
ifs_inc_tx_3rd_time_ot	Please specify how frequently this income is usually paid
ifs_inc_yn_3rd_irma	Was your 3rd source of income affected by the passing of hurricane Irma?
ifs_inc_yn_4th	Do you have another source of income?
ifs_inc_cn_4th_source	What is your fourth source of income?
ifs_inc_tx_4th_source_ot	Please specify the source of income
ifs_inc_ct_4th_amt	Please specify the income amount in guilders
ifs_inc_cn_4th_currency	What currency is this income usually paid in?
ifs_inc_cn_4th_time	How frequently is this income usually paid?
ifs_inc_tx_4th_time_ot	Please specify how frequently this income is usually paid
ifs_inc_yn_4th_irma	Was your 4th source of income affected by the passing of hurricane Irma?
ifs_inc_yn_more	Do you have another source of income?
ifs_inc_nr_sources_amt	How many sources of income do you have?
ifs_inc_ct_total	What is your total combined monthly income in guilders?