



ADMINISTRATIVE REPORT

HOUSEHOLD INCOME & EXPENDITURE SURVEY 2019



Maldives Bureau of Statistics,
Ministry of National Planning, Housing & Infrastructure

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Written by:	Ms. Aishath Laila
Layout and design by:	Aminath Musfiqa Ibrahim



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1. INTRODUCTION

The Nation Bureau of Statistics conducted the Household Income and Expenditure Survey (HIES) 2019-2020 for analysing poverty and other socioeconomic indicators for the households and population in the Maldives. The survey was implemented with support from the World Bank. The sampling frame covered the households in the administrative islands of each atoll, resorts, industrial islands and collective living quarters, which would be represented at the national level.

The first nationwide HIES conducted in 2002-2003 covered a total of 834 households from the capital Male' and 40 islands randomly selected from all the Atolls. The second nationwide HIES was conducted in 2009-2010 and covered 600 households from the capital Male' and 1,460 households from the islands ran-

domly selected from all the Atolls. The third HIES was conducted in 2016 and covered 330 randomly selected enumeration blocks from all 20 administrative Atolls and Male' with a sample of 4,985 households.

The HIES 2016 was carried out with the aim of improving the national poverty figures from a relative poverty approach to an absolute poverty. However, the results showed that many of the units reported in the consumption module were in non-standard units. As a result, NBS could not move to an absolute poverty approach. However, with the funding of World Bank, the HIES 2019 was launched primarily to improve on the food consumption module to report on absolute poverty line.

HIES 2019 was planned to cover 354 enumeration



blocks from Male', Hulhumale' & 20 Atolls with a sample of 5,415 households. However, due to the health emergency declared due to COVID-19 the survey had to be discontinued. By the time data collection was completed in most Atolls, with three Atolls (Noonu, Meenu and Gnaviyani Atoll) remaining. Overall, before the survey was brought to a halt, 72% of the planned sample size in Male' was covered and 89% of the field work was completed in the Atolls. However, the COVID-19 pandemic has lasted for a longer period than previously envisaged, having a huge impact on household incomes, expenditures and employment and on people's lives and livelihood. Considering the situation, even if the survey was continued, the data

As an improvement, in HIES 2019 for the first time in Maldives, HIES was conducted using Computer Assisted Personal Interview (CAPI). With the help from World Bank consultants, NBS team designed the questionnaire, pre-tested and trained the enumerators to conduct the survey in CAPI. Survey supervision and coding also was done using CAPI.



collected during the pandemic will not be comparable to the data collected prior to COVID-19. Hence, after a detailed review of the collected data and sampling methodology, it was decided to use the data already collected and use it to generate survey results at the national level and Male' vs Atolls.

2. MAIN OBJECTIVES AND PURPOSE

The main objective of HIES is to produce reliable statistics on different components of income and expenditure of households in Male' and the Atolls to assess the economic well-being of the population. Specifically, the results would be used to bring about improvements in the national accounts, consumer price index and the poverty statistics of the country.

The main purposes for the HIES results are;

- To show the most recent composition of consumption expenditure of households which will be used to update the CPI weights
- To improve GDP estimates particularly for the components of final consumption expenditure of households.
- To measure living standard and indicate the gap between different social strata
- To analyse distribution of households in terms of income groups and proper statistical measure of income inequality such as Gini coefficient.
- To measure the poverty situation of households and update the existing poverty estimates and indicators.
- Used to develop and update relevant SDG indicators
- Furthermore, it would be used by other government agencies to revise the model used for poverty targeting for social protection, National health account compilation and to measure domestic tourism.

3. QUESTIONNAIRE DESIGNING, PRETESTING AND PILOT SURVEY

3.1 QUESTIONNAIRE DESIGNING

3.1.1 DESIGNING

The Household Income and Expenditure Survey (HIES) is being implemented by the National Bureau of Statistics (NBS). Assistance was received from World Bank and ILO consultants in designing the questionnaire. HIES 2016 questionnaire was reviewed and edited. HIES 2019 Questionnaire was first designed in English using survey solution and was later translated to Dhivehi.

Two questionnaires were used to collect data for HIES 2019, a structure listing form and Household form. Listing Form lists all the structures, households in the selected enumeration block (EB), and also lists all the persons living in the listed households. Household form is divided into 5 main sections. The sections are named as follows:

1. Person List
2. Household form
3. Expenditure Unit
4. Individual form
5. Consumption form

The Household form is designed in such a way that 2 tablets could be used to fill the forms for a single household simultaneously. Hence, we have a main and a secondary file for each household. In each pair of tablets one tablet will have a main file and other will have secondary file. With two enumerators per team, this saved time spent per household and expedited the field work.

A CorelDraw version of the questionnaire was also designed for ease of reference for users.

In addition to the above questionnaires administered households living in dwellings and regular housing units in administrative islands, separate questionnaires were developed to administer for Labour Quarters and Resorts. Field work for labour quarters and normal households' components were implemented side by side, during the HIES operation.

Given the importance of collecting data during a normal period, resort component of HIES was postponed for 2021, due to COVID-19 owing to a huge impact on the tourism industry and employment.

3.1.2 QUESTIONNAIRES

In HIES 2019 a listing form was used to cover the listing process of the selected blocks. From every selected block 15 households were surveyed, except for Vaavu Atoll with the smallest number of inhabitants. In Vaavu Atoll 20 household were selected from each block.

STRUCTURE LISTING FORM is used to enumerate all the structures and households in the selected enumeration blocks in preparation for the actual household survey. Enumerators were instructed to list all the independent structures, such as shops, schools, mosques and all the households living in the housing units. Only basic and minimal information was collected during the listing process.

The information collected in this form includes:

- Name of building/structure or number,
- Floor number,
- Type of occupancy,
- Head of the household,
- Number of Household members (total number of Maldivians and total number of foreigners)

After completion of listing forms, enumerators submitted the listing form to supervisors/survey headquarters using synchronize function. Sample was drawn from using a STATA program. Once synchronization is complete enumerators will receive assignments and rejected forms, if any.

HOUSEHOLD FORM

Main sections in this form are identification, Person list, household, expenditure unit, individuals and household consumption section.

The identification section includes a pre-filled part and a part that has to be filled by the enumerators. Prefilled information fetched automatically from the structure listing form includes:

- Name and location of the household
- Name of the Head of the household
- Type of the file: - Main file/ Secondary file
- Type of household: - Sample / Replacement and enumerators have to fill
- Identifying the household
- Getting consent from household head
- Whether or not both files (main and secondary) are used to collect information

PERSON LIST FORM contains two subsections; members and expenditure units. Members section consists of basic demographic information of individual household members. This form was filled only for the households which were selected for the survey. In this form all the regular members in the household were recorded regardless of their age. These exclude absent members who have been away for a year or more and followed the definition used for regular household members. The expenditure unit section identifies the

number of expenditure units in the household.

MEMBERS SECTION

- Names of all regular members of household, sex, age, nationality,
- Date of birth, month, year,
- Relationship to the head of household,
- Identification of the expenditure unit (as per definition used)
 - head of the household
 - Expenditure units' section
 - Expenditure Unit List
 - Who belongs to the expenditure group
 - head of the expenditure group

After listing out the regular members of the family, some screening questions were asked before finalizing the list. After that, basic information about the individuals was collected and among the members, nuclear families and expenditure units were separated.

The Household Form collects the data for the entire household. The important areas covered in the household form includes, living condition with the number of rooms available in the dwelling. Housing condition and the disaster conditions. This form also collects the availability and expenses for consumer durables, household durables, repair and maintenance of the dwelling, expenditure on furniture, kitchen utensils and household furnishing items, health expenses and travel by members of the household, and money transfer. In addition, food consumed by household members as a whole were included.

EXPENDITURE UNIT

The Expenditure Unit Form was filled for every identified expenditure unit in the person listing form. This form consists of expenditures on household maintenance items, entertainment and recreational activities, transport, postal and petrol, personal care, media and other relatives, clothing and footwear, education, personal care items and food away from home. This form was used to better capture the expenditure information as the household head often does not know the details of expenditures of nuclear families and some individuals who live within the extended family. This aspect of expenditure units was used to cater for the local situation and is not an internationally defined concept. This artificial unit was not maintained once data processing is complete.

INDIVIDUAL FORM

The Individual Form consists of basic demographic characteristics on all household members. The form needs to be filled for each individual who is identified as a regular member of the household from person listing form.

The information collected in this form includes:

- migration
- educational level
- asset ownership of selected individual goods
- marital status for those aged 15 years
- fertility for women aged 15 years and above.

Parts from this information, individuals above the age of 15 years were filtered and labour module questions were asked.

NON-INCOME GENERATING AND INCOME GENERATING ACTIVITY

Non-income generating and income generating activity questions were asked. Employed population was filtered and employment questions were asked, questions to identify unemployment and those outside the labour force as well as targeted questions for these categories were asked.

For persons aged 15 and above and for those who are employed in any productive, income generating activity. Important areas covered in the Occupational information includes:

- Details of primary and secondary occupation (industry, occupation, working hours, employment status, etc.)
- Income from family or own business (Number of employees, revenue, costs, profit, etc.)
- For Employees (type of contract, pay leaves, insurance, etc)
- Wages and salaries from primary and secondary occupation
- Secondary occupation and income
- Transfer income, etc.

In HIES 2019, a new module was included as fisheries activities, these questions were targeted at individuals

aged 15 and above and for those who work in fishing related activity or persons aged 15 and above and for those who work for any income in the past 7 days and is answering for themselves. This module was included upon request from the Ministry of Fisheries and Agriculture.

Important areas covered in the Fisheries module include:

- types of fishery
- fishing average hours per day
- Number of years in fishing related activity
- challenges or issues, considered starting up an aquaculture business, etc.

CONSUMPTION FROM

Consumption Form consists of information on food items consumed at home by members of the household during the past seven days and expenditure on food consumed based of last purchase was collected. In this form the information needs to be recorded based on the entire household.

Important areas covered in the Consumption form includes:

- Food items consumed at home during the past seven days
- Quantity and unit of consumed items
- Home produce
- Food items received as gifts
- Expenditure on food items consumed during the past seven days, if any purchased

- If purchased, Quantity, unit and price of the items, based on last purchase

LABOUR QUARTERS

Alongside with the HIES household questionnaire, a separate LQ questionnaire was designed to administer for LQs and collective living quarters occupied by ten or more persons, located in Male' and administrative islands in Atolls. In labour quarter we have two main questionnaires, LQ person listing and LQ industrial questionnaire. The same structure listing form was used for the listing of the selected blocks. As soon as supervisor approved correctly filled listing file, headquarters will generate LQ sample and send the LQ assignments to the tablets. In total 1 LQ person listing file and 12 LQ industrial (questionnaire) assignments will be sent to each pair.

LQ PERSON LISTING is completed only for the selected Labour quarters. The purpose of this questionnaire is to select a sample of 12 people from the block. Once the enumerator enters the names of all the people in the Labour quarter and click selection button LQ listing questionnaire will automatically generate 12 persons randomly with LQ name and individual name. The identification section includes the pre-filled information:

- Name and location of the labour quarter
- Name of the Head of the labour quarter and Individual ID

- Type of labour quarter: - Sample / Replacement identification section includes the following to be filled by the enumerators:
- Identifying the labour quarter
- Total number of people live in this labour quarter
- Time of visit and if a respondent available
- Whether both files are used to collect information

LQ Questionnaire

This questionnaire was designed to use in the LQ component of HIES. This questionnaire was also designed by using survey solution. Once LQ listing is completed enumerator must copy the LQ name and Individual name from LQ listing file to the LQ questionnaire. Apart from the identification questions the questionnaire consists of household form, individual form and consumption form.

Household form; this form is filled for every selected individual. The information collected includes, living condition, housing condition. Most questions are the same as in HIES questionnaire.

Individual form consists of basic demographic characteristics of the selected person, migration, educational level, migrant workers, and asset ownership for selected individual goods. Apart from this information, labour module questions were asked. Non-income

generating and income generating activity questions were asked. Along with employment and unemployment questions.

Consumption Form consists of information on consumption of food items for the past seven days. Foods they have bought and used, foods they have cooked and used and meals and foods they have consumed outside/away from home. Unlike the HIES consumption form administered for regular households, very specific and few items were asked in this LQs form.

3.2 QUESTIONNAIRE PRETESTING

For HIES 2019/20 the questionnaire was pretested in three different rounds during June and July 2019.

First pre-test was carried out in Male' on 13 June 2019. National Bureau of Statistics team (twelve staff) and World Bank team working on HIES (Mr. Andreas Kutka, consultant and Ms. Christina Wieser, Economist WB) participated in this pre-test. The main purpose of this pre-test was to check whether the required information can be collected through the questionnaire, check the arrangements/flow and skip patterns of the

questionnaire. Two different formats for the consumption form were tested to see which one was better.

From this pre-test it was identified that the question for identifying the nuclear families and the individual person screening questions had to be moved to person listing form. This movement helps to smooth the flow of questions. Apart from this, some skips and re-arrangement of the questions were made. After checking the consumption form it was decided to minimize the items in the form and to prepare a conversion table for some items.



The second pre-test was conducted in an island, K. Huraa on 19 June 2019. In this pre-test also 12 staff from NBS and the two consultants from WB participated. The main purpose for this pre-test was to check the changes made after the first pre-test and to estimate the time taken to complete the questionnaire for a household. After this pre-test decision were made to

omit some questions from household unit screening and disaster sections, in order to minimize the time spent per household. Similarly, number of items listed in the consumption form was reduced, referring to the items listed in previous HIES. It was also decided to only collect the purchases and expenditure incurred, only if food item was consumed during the last week.

The final and the third pre-test were conducted in V.Keyodhoo on 14 July 2019. The main purpose of this round was to re-check all the changes made to the questionnaire and to finalize it. In the pre-test the questionnaire was designed in such a way that the questionnaire can be filled using two tablets at the same time. The questionnaire was divided into two files, primary file and secondary file. The two files were downloaded into two different tablets and the two enumerators in each team took turns to fill-out the questionnaire at the same time. This process minimizes the time spent interviewing each household.

In HIES 2019/20, it was decided to collect data for Labour Quarters, where foreigners were living. This is the first time a survey was conducted for the LQ. New version of LQ questionnaire was designed to use for the LQ. HIES final questionnaire was minimized and only relevant few questions were included in the questionnaire and the sample size taken for LQ was very small. Pre-test for LQ questionnaire was done on 23 September 2019. In this pre-test 9 staff from NBS (temporary and permanent) participated along with the consultants from the WB.

3.3 PILOT SURVEY

This is the first time HIES was done by using tablets. Hence, a pilot survey was conducted from 28 July to 1st August 2019 in preparation for the actual survey operation. Male' field operation was extended by a few days till 8 August. The pilot was conducted in Male' and two islands from Raa Atoll (Meedhoo, Innamaadhoo). During this operation 8 staffs participated in the field work in the islands and 2 staff in Male'.

The main purpose of the pilot survey was to test the whole process and to identify issues encountered during the operation so as to address them in the actual survey. On the first day of the survey, listings of the selected blocks were taken using the tablets. And by the end of the day after completing the listing, the files were sent to the survey headquarters. The sample of the blocks were taken at the headquarters and the questionnaire for the selected households were sent

to the assigned tablets to continue the survey. Every household would have a primary file and secondary file.

At the end of the day the completed forms were sent back to the assigned supervisors to be checked and approved. If it is not completed correctly, the files were rejected with the comments and the required corrections. Upon rechecking and correcting the answers the interviewers would re-send them to the supervisors. Once the files are approved by the supervisors, they were sent to the headquarters who then further checks whether the files were completed correctly and if not, the file will be rejected and sent back to the supervisor with comments. These procedures were all tested and managed during the pilot period. During the whole procedure, the consultant from World Bank (Mr. Andreas Kutka) worked with NBS and supported the data processing team.



3.4 PUBLICITY AND AWARENESS

Publicity is important in order to inform the general public of the upcoming survey and to encourage households to cooperate and provide information. In this regard, video clips used in HIES 2016 were edited and updated for the HIES 2019. These video clips were aired by different TV channels, at different times of the day.

In addition to these video clips, leaflets were made and distributed during the survey period. On the listing day of the survey, leaflets were distributed to all the household in the selected blocks in Male' and in islands. The leaflets included information about the importance of the HIES, aims and objectives of the survey, main information that will be collected from the survey and how households can be better prepared when enumerators visit their household.

4. ENUMERATOR RECRUITMENT AND TRAINING ACTIVITIES

4.1 RECRUITMENT OF TRAINERS AND SUPERVISORS

The bureau hired ten temporary staff for the period of HIES operation. These staff were used as trainers and supervisors during the survey period. This was decided because of the limited staff in the bureau. During the survey period, the two supervisors that travelled to give training at different Atolls, were stationed in one of the islands of the atoll and the remaining supervisors stationed in Male'. To recruit these temporary staff, the rules and the process of hiring temporary staff by Civil Service Commission was followed by the

Bureau's HR section.

Recruitment process followed, advertisement in gazette and on the website of NBS. The applicants were shortlisted and selected after the interview and recruited with a formal written contract. Before the training of HIES, these temporary staff were involved in the process of questionnaire designing and preparation of training materials. This was to familiarize them with the HIES questionnaire.

4.2 RECRUITMENT OF ENUMERATORS

For the HIES 2019/20, it was decided to use enumerators used in one atoll to conduct the survey in another nearby atoll. This was decided for various reasons. It cut down the cost of trainers, travelling and training. It also saves time, as we do not have to hire enumerators from the second atoll.

To begin recruitment of enumerators in the islands, an advertisement and application was sent to the island council. The posting of advertisement and collection of application forms were done by the island council. These forms were entered and sent back to NBS. The selection of enumerators was done by the Administrative/ HR section of the NBS. They called and inter-

viewed the applicants and selected the required number of enumerators.

The advertisement specified the applicants must, at minimum, be high school graduates and that the preference will be given to those aged between 18 and 40 years. And have prior field experience in survey or census and those who can travel to islands. It also included information on the allowances and rates. The candidates were instructed to submit completed application form, along with their ID card copy and police report. Shortlisted candidates were selected and continued with the training process.

4.3 TRAINING PROCESS

The training was conducted for a period of 8 days per batch comprising of a total of 72 hours. Training sessions comprised of theoretical explanations; field practices followed by exercises. During the field-based practice sessions trainees visited households and conducted interviews while the trainers supervised, mon-

itored and evaluated the enumerators. After the daily field practice sessions, trainers reviewed the completed work team wise and provided guidance and clarified their issues. Based on the questionnaires completed during field practices, enumerators were selected and paired in such a way to make stronger teams.



As the survey was carried out using the tablet and the questionnaire was designed in CAPI, tablets were used through-out the training. This was to make the enumerators familiarize with the tablet and the questionnaire completion and management of their assignments using this new method of conducting survey. In the HIES 2019/20, rather than training enumerators from each atoll it was decided to use the same enu-

merators in the following round to survey the nearby atoll. Enumerators from one atoll will travel to next atoll along with the supervisors stationed in that atoll. Survey training was carried out in Male' as well as in the atolls. As the survey operation was divided into 6 different rounds, in each round of training were held in different atolls. Training was conducted in the capital island of the atoll and the enumerators were hired

from this capital island. They travelled to other islands selected from the atoll and are stationed there for field work duration.

All the enumerators used in HIES2019/20 was trained by the NBS. As the enumerators were supposed to work as pairs in a team, all the enumerators were given the same training. This was done because, both the

partners in the team have to fill out the questionnaires in each household using the tablets simultaneously (secondary file and primary file for the same household by interviewing more members to reduce time spent per household).

The following table shows the dates and the atoll/islands where the training was held.

Survey Round	Atoll	Trained Island	Training Period	No of enumerators trained
Male'				
	Male'	Training of Trainers	Sep 8th - Sep 12th 2019	23
	Male'	1st Batch	Sep 15th - Sept 25th 2019	27
	Male'	2nd Batch	Jan 6th - Jan 16th 2020	14
Atoll				
1	GDH	Thinadhoo	Oct 5th - Oct 14th 2019	38
1	LH	Naifaru	Oct 5th - Oct 14th 2019	32
1	L	Fonadhoo	Oct 5th - Oct 14th 2019	35
2	GA	Vilingili	Oct 16th - Oct 25th 2019	26
2	R	Ugoofaaru	Oct 27th - Nov 5th 2019	33
3	DH	Kudahuvadhoo	Jan 15th - Jan 24th 2020	25
3	HDH	Kulhudhuffushi	Jan 15th - Jan 24th 2020	62
3	TH	Thimarafushi	Jan 15th - Jan 24th 2020	30
4	S	Hithadhoo	Feb 8th - Feb 17th 2020	38
5	SH	Funadhoo	Feb 21st - Mar 1st 2020	31
6	GN	Fuvahmulah	Mar 6th - Mar 14th 2020	26

First training of HIES was conducted from 8 to 12 September 2019, as training of trainers. Training was given by staff of NBS and a consultant from World Bank, Ms. Christina Wieser. Participants were staff of NBS Survey Unit, HIES temporary staff and staff from NBS who were interested in giving the training.

The first batch of enumerators were trained in Male'. Training was carried out from 15 to 25 September 2019. This training was completed by 27 participants. From these 12 enumerators were selected to travel to Alif dhaalu atoll to carry out the field operation. Others participated in Male' field operation in the first round. And in the second round, priority was given for the

enumerators who worked in Male' field operation to travel to Vaavu atoll.

At the end of the second round a break was taken for the year-end holidays. After the holidays the survey resumed on January 2020. A second batch was trained for Male' field operation from 6 to 16 January 2020. A total of 14 enumerators was trained again. However, the trained enumerators were not enough to conduct the survey round. Therefore, additional 6 enumerators were trained and included in the survey team. Enumerators from round 1 and 2 also participated in the 2020 rounds, these enumerators did not undergo any further training as the survey process was same as previous year.

Training was organized in two sessions per day for a total of 8 days. Every day from morning 9:00am to 18:00pm. A break of 30 minutes was given as tea break in the morning and at the noon 1 hour 30 minutes were given as lunch break. From the second day of the training, enumerators were paired and sent to field practice in the evening to fill out the questionnaire for a household from a block that was not selected for the actual

survey.

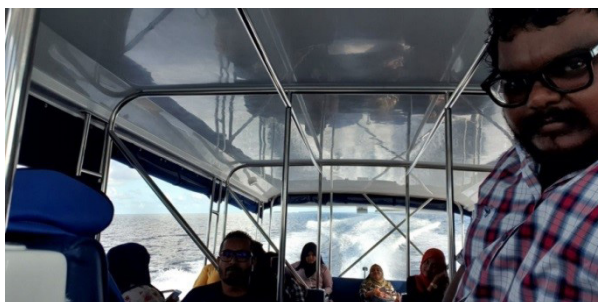
Field practice was a useful experience for the enumerators, as they gained more knowledge of the questionnaire and the survey process. By being practically involved in field work they gained experience in dealing with different scenarios and respondents, manage their work as a team and prepared them for the actual field operation. Given the practical nature of the work and the need to able to communicate with respondents effectively by asking and recording answers, probing skills, ability to follow the skip patterns correctly were all critical for the field work.

In the last day of the training, the enumerators were assigned to different islands and blocks. And the survey materials and responsibilities were handed over to them. A working schedule was given to each team as guidance to carry out their work. In the following day they were dispatched to the assigned islands. Staff of NBS returned as all the enumerators were dispatched and the rest of the responsibilities were carried out by the supervisors assigned to that atoll.

4.4 TRAINING MATERIALS

Training material package includes presentation slides and exercises prepared by NBS. Presentation slides were prepared using power-point and consisted of the main aims and objectives and uses of the survey, elaborate examples explaining the content of HIES questionnaire, question by question; concepts and definitions, interviewing techniques. Practical role play sessions and mock Interviews were also held as a part of the class room training.

The training was given using tablet and presentation slides. The enumerators were taught how to fill out the questionnaire through survey solution. The practical sessions were done by using the tablets. This was done to minimise the error during the field period and to make them familiar with the tablet versions.



The training schedule was arranged in such a way that covered the full questionnaire in 8 days. Below shows the training schedule. The same schedule was followed in each training round

TRAINING SCHEDULE HIES 2019/2020		
Time	Activity	
9:00 -9:15	Introduction and Overview to HIES	Day 1 Monday
9:15 - 10:00	Introduction and Overview to CAPI	
10:00 -10:30	Listing Form	
10:30 - 10:45	Tea break	
10:45 - 12:00	Listing Form....cont	
Break 12 00 - 13 30		
13:30 - 14:00	Listing Form Exercise using CAPI	
14:00 - 14:30	Person Listing Form_Form1	
14:30 - 15:30	Person Listing Form_Form1 using CAPI	
15:30 - 16:00	Break	
16:00 - 18:00	Field practice for Listing & Person Listing	
9:00 - 9:30	Discussion for Listing & Person Listing	Day 2 Tuesday
9:30 - 10:30	Household Form_Form 2 (Household Info)	
10:30 - 10:45	Tea break	
10:45 - 12:00	Household Form_Form 2 (durables - repair)	
Break 12 00 - 13 30		
13:30 - 16:00	Household Form_Form 2 (medicine - travel-transfer)	
16:00 - 18:00	Field practice for Household Form_Form 2	
9:00 - 9:30	Discussion for Household Form_Form 2	Day 3 Wednesday
9:30 - 10:30	Expenditure Unit Form	
10:30 - 10:45	Tea break	
10:45 - 12:00	Expenditure Unit Form...cont	
Break 12 00 - 13 30		
13:30 - 14:30	Expenditure Unit Form...cont	
14:30 - 16:00	Individual Form (Form 4)	
16:00 - 18:00	Field practice for Expenditure Unit Form	

9:00 - 9:30	Discussion for Expenditure Unit Form	Day 4 Thursday
9:30 - 10:30	Individual Form (Form 4)...cont	
10:30 - 10:45	Tea break	
10:45 - 12:00	Labour Force module	
Break 12 00 - 13 30		
13:30 - 16:00	Labour force module	
16:00 - 18:00	Employment and Income Form	
16:00 - 18:00	Employment and Income Form...cont	Day 5 Friday
9:00 - 10:30	Employment and Income Form...cont	Day 6 Saturday
10:30 - 10:45	Tea break	
10:45 - 12:00	Consumption Diary (Form 7)	
Break 12 00 - 13 30		
13:30 - 16:00	Field practice for Individual, Labour & Employment Form	
16:00 - 18:00	Discussion for Individual, Labour & Employment Form	
9:00 - 10:30	Consumption Diary (Form 7)....cont	Day 7 Sunday
10:30 - 10:45	Tea break	
10:45 - 11:30	Consumption Diary (Form 7)....cont	
11:30 - 12:00	Enumerator Role	
Break 12 00 - 13 30		
13:30 - 16:00	Field practice for Consumption Diary (Form 7)	
16:00 - 18:00	Discussion for Consumption Diary (Form 7)	
9:00 - 10:00	Labour Quarter	Day 8 Monday
10:30 - 10:45	Tea break	
10:45 - 12:00	Labour Quarter....cont	
Break 12 00 - 13 30		
13:30 - 18:00	Administrative Work - Work Transfer	

4.5 ENUMERATORS AGREEMENT

At the end of each training batch, the enumerators were asked to sign a confidentiality agreement with the NBS. The purpose of this was to have a clear understanding between the enumerators and the NBS about the survey rules and regulations, and to ensure that they abide by the statistical regulation of the Maldives. The agreement includes rules and regulations

about data collection, discipline at work, confidentiality of the information taken in the survey, payment statements and penalties for violation of these rules. A signed copy of this agreement was given to each enumerator for their reference. One copy of the enumerator agreements was kept at the NBS for official records.

4.6 ENUMERATORS RESPONSIBILITIES

Roles and responsibilities of the enumerators were clearly explained and include the following aspects. The enumerators must ensure that the forms are completed for the selected households in the Enumeration Block (EB) to which they get assigned in the given period of time. The enumerators must follow the guidelines and instructions given to them. For ensuring quality and consistency of data, it is the duty of every enumerator to clarify any doubts before reaching any conclusions.

It is important that the enumerators have a friendly attitude towards the respondent while maintaining

self-confidence. The enumerators must treat the survey household with respect and always be patient with the respondents. They should always try to maintain the same mood throughout the interview, while maintaining a standard and professional facial expression. If the respondent for any reason gets tired or busy with something else, allow a few minutes break or offer to return the following day or the next most convenient time.

If enumerators face difficulty during the field operation, they were instructed to always contact their supervisors.

5. FIELD OPERATION

5.1 DATA COLLECTION

Data collection of HIES was divided into 6 rounds throughout the country. A total of 53 enumerators were used in field operation in Male' and from Atolls a total of 376 enumerators were used in the field operation.

The first two rounds were conducted in the year 2019. During the month of December, the survey field work was discontinued as it falls during school holidays. During these days many of the household members travel and there will be difficulty in meeting the household members. The continuation of data collection started in January 2021, and the rest of the rounds were continued. However, due to the situation of COVID_19 pandemic with the health emergency and restricted movements in place, the survey had to be terminated.

In the case of Gnaviyani atoll, trainers were not able to complete the training of 8 days as NBS had to bring back the trainers home due to safety reasons, although 2 days of training remained. By that time, they had finished giving the training of all the forms and only administrative sessions and LQ forms were left.

In case of Meemu Atoll, the enumerators from Male' were ready to travel, but because of the situation on

the day of travelling NBS decided not to send them. Likewise, Noonu atoll also was on halt. As the situation of the pandemic was getting worse it was later decided not to collect data from those remaining 3 atolls (Gn, M, and N) and start the data cleaning and analysis of the Survey. The decision was also made in light of the fact that the pandemic was having a huge impact on the economy and on people's employment and livelihoods. In this respect even if the data were to be collected it will not be comparable with the data was collected prior to the pandemic. Furthermore, the duration it will take for the situation to get better and more normal was a big unknown and expected to be long.

Each survey team included two enumerators. As the survey was conducted using tablets, both the partners were given tablets. Survey questionnaire was designed in such a way that both partners could collect information from the household at the same time. This process saves the time during field operation. And both partners had to work equally depending on the availability of the household members during the field time.

After completion of listing form, enumerator will send the listing form to the supervisor and then supervisor will check the form and approve the form if the listing

form is filled correctly, if not supervisor will reject and send the form back to the enumerator. After supervisor approves, the listing will have to be approved or rejected by the headquarter. Headquarter rejects can be sent directly to enumerator or supervisor. Only enumerator can change the data.

Then approved forms will be exported and a sample of 15 households will be drawn for the completed block using Stata program (do file) except for Vaavu Atoll. In

Vaavu it was 20 Households. For each selected household, main and secondary file are sent to the enumerator's tablets with prefilled basic identification information from listing. In each pair of tablets one tablet will have a main file and other will have secondary file. Before starting with the person listing form the enumerators has to get the households consent to carry out the survey. If the household refuses to participate, the household would be replaced.



5.2 HIES FIELD OPERATION



The field operation started in Male on 28th of September 2019. First round was from 28 September to 20 October 2019. And the second round was from 21 October to 14 November 2019. The field operation in Male’ for each round took place for 20 days. In each round the target was to complete 12 blocks. As there were few enumerators for Male’ field operation, 6 teams were assigned with 2 blocks. Day 1 and 2 was allotted for the listing process of the selected blocks. During the listing days in Male’, enumerators were partnered with enumerators who will be traveling to the islands. These

enumerators went to Adh atoll field work from 4 to 22 October 2019.

The field operation in the islands took place for 8 days. Including traveling 2 days, they spent total 10 days. Day 1 was allotted for listing in each island. From the second day to the 8th day the enumerators have to complete 15 household’s information. A working schedule was made and given to each team to follow. The following shows the work schedule followed by the island enumerators.

Work Schedule for HIES Field Operation	
Working hours: Starting time: 9:00 End Time: 18:00 Lunch Break: 12:00 to 14:00	
Day 1	Traveling day: Meet with the council and the enumerators
Day 2	Listing Task: Complete the Listing and Send for sample selection
Day 3	Field Operation Task: Complete Forms Friday is a working day from Morning: 9:00 to 10:30 Afternoon: 14:00 to 18:00 Appointments are not to make after 19:00 in the night, unless necessary only after notifying the supervisors in Male’.
Day 4	
Day 5	
Day 6	
Day 7	
Day 8	
Day 9	
Day 10	Traveling day: Handover the materials to supervisors

During the 1st round in atoll, data were collected from 4 atolls. Adh, Lh, Gdh and L atoll were covered. For Adh atoll enumerators travelled from Male' and for the rest the 3 atolls enumerators from that atoll was trained and sent to field operation. In the second round also field operation was held in 4 atolls. In V, Ga, B and R atoll. For V atoll enumerators from Male travelled and to B atoll enumerators from Lh atoll travelled to conduct field operation. For Ga atoll, enumerators from

Gdh was planned to travel but due to lack of enumerators able to travel for a 10-day period, enumerators from Ga atoll had to be trained and used. As for R atoll, enumerators from the respective atoll were trained for data collection.

The following table shows the detail of field operation period and number of enumerators used during the field operation.

Survey Round	Atoll/Island	Survey Period	Enumerators hired from	No of enumerators participated
Male'				
1	Round 1	Sept 28th - Oct 20th 2019	Male'	27
2	Round 2	Oct 21st- Nov 14th 2019		
3	Round 3	Jan 18th - Feb 9th 2020		28
4	Round 4	Feb 10th- Mar 3rd 2020		
5	Round 5	Mar 4th- Mar 26th 2020		
6	Round 6	Mar 28th -Apr 19th 2020		Round 6 of survey not done COVID-19 outbreak
Atolls				
1	GDH	Oct 14th - Oct 23rd 2019	Respective atoll	38
1	LH	Oct 14th - Oct 23rd 2019	Respective atoll	32
1	L	Oct 14th - Oct 23rd 2019	Respective atoll	35
2	GA	Oct 25th - Nov 3rd 2019	Respective atoll	26
2	B	Oct 25th - Nov 3rd 2019	LH atoll	
2	R	Nov 5th - Nov 14th 2019	Respective atoll	33
3	DH	Jan 24th - Feb 2nd 2020	Respective atoll	25
3	HDH	Jan 24th - Feb 2nd 2020	Respective atoll	62
3	TH	Jan 24th - Feb 2nd 2020	Respective atoll	30
4	F	Feb 4th - Feb 13th 2020	DH atoll	
4	HA	Feb 4th - Feb 13th 2020	HDH atoll	
4	S	Feb 17th - Mar 5th 2020	Respective atoll	38
5	SH	Mar 1st - Mar 10th 2020	Respective atoll	31
6	N	Mar 12th - Mar 21st 2020	SH atoll	
6	GN	Mar 15th - Mar 22nd 2020	Respective atoll	26
1	Adh	Oct 4th - Oct 22nd 2019	Male'	
2	V	Oct 27th - Nov 5th 2019		
3	K	Jan 24th- Feb 11th 2020		
4	AA	Feb 17th - Mar 6th 2020		
5	M	Mar 13th - Mar 31st 2020		

After the break, 3rd round was carried out in the year 2020. A new batch of enumerators were trained for Male' field operation. Field operation in Male' started in on 18th January 2020. In the atoll the field operation started on 24th January 2020. Data collection took place in 4 atolls, K, Hdh, Dh and Th atoll. Enumerators from Male' travelled to K atoll to conduct field operation. And in the rest of the 3 atolls enumerators were trained from the same atoll. As the 3rd round finished, 4th round was continued. Data collection of 4th round started on 4th February 2020. The 4th round also covered 4 atolls, Aa, F, Ha and S atoll. Field operation of Alif alif atoll was conducted by enumerators sent from Male'. In F atoll enumerators of Dh atoll travelled and

for Ha enumerators from Hdh atoll travelled to carry out the field operation. And in S atoll enumerators were trained to conduct the field operation.

Field operation for 5th round was planned to conduct during the month of March 2020. HIES 5th round in Male' started on 4th March and field operation in Sh atoll started on 1st March.

Survey operation of 5th round in Male' had to be discontinued due to COVID -19 outbreak in the country. The 6th and last round of the survey which was to be carried out in Gn, N and M atoll was not carried out as planned, due to the COVID-19 pandemic.



5.3 LABOUR QUARTER FIELD OPERATION

For labour quarter survey different blocks were selected as sample blocks. The sample was taken using census 2014 listing data, based on labour quarters in the blocks. In the selected blocks, listing of the structures was done to identify the current number of LQs available in the block. Same listing form was used for HIES LQs as well as for normal households.

After the completion of the structure listing and locating the LQs in the block, LQ person listing form will be filled. This form is filled for the purpose of selection of sample. Unlike the HIES household questionnaire,

in LQ a total of 12 persons is selected from the entire block as a sample unit. For every Labour quarter selected in the block this form would be completed.

When supervisor approves the correctly filled structure listing file, headquarter will generate the sample for the selected LQ block. The number of sampled LQ listing files generated by the headquarter will depend on the number of labour quarters in the block. Four methods were used to select the sample for the LQ listing. The method depends on the number of the LQs located in the selected block.

Sample selection

1st method: If the block consists of only 1LQ, every person in the LQ is listed and a total of 12 persons are selected randomly for the survey. The survey LQ industrial form would be completed for these 12 persons only unless a replacement take place.

2nd method: If the block consists of 2 LQs, from both LQs person listing form would be filled and from each LQ 6 persons, a total of 12 persons, would be randomly selected and survey forms would be completed.

3rd method: If the block consists of 3 LQs, for all the LQs person listing would be filled for all of them and 4 persons from each LQ, total of 12 persons would be

randomly selected for the survey.

4th method: And if the selected block consists more than 3 LQs, after the structure listing a sample would be among the LQs in the block. Randomly 3 LQ listing from all would be taken first and fill the person listing for these 3 LQs. After that 4 persons from each LQ, total of 12 persons would be randomly selected for the survey.

After completing the LQ listing form the enumerators will start LQ industrial form.

6. MONITORING AND SUPERVISION

6.1 SUPERVISION

Throughout the survey field operation was monitored centrally by NBS. During Male' field enumeration, all the enumerators have to report to NBS at 8:30 am and sign their attendance before commencing their work and the field operation work finishes at 18:00 hrs. In-between enumerators can take lunch break of 2 hours. All the enumerators have to return their tablets to the respective supervisors by end of the day and give an update of the work. The completed forms

are supposed to be send to their supervisor through the survey solution. All the survey forms were checked and verified through survey solution. Most of the field supervision was done by the temporary staff.

During the field operation supervisors were stationed in the islands to monitor the field operation and to help with the issues that arise during the field work.



6.2 PROGRESS SHEETS

This sheet is generated with the help of the STATA do file. The information needed for the progress sheet is collected from the datasets with the help of the do file and is displayed in a google sheet. The progress sheet is built for the headquarters and supervisor to see the overall progress of the survey. This sheet helps headquarters and supervisors to identify the status of the interview easily. In the progress sheet there are many

sheets where each sheet is built for a different purpose.

Sheet 1: Progress sheet: there are three main parts in the progress sheet. They are listing, household and labour quarter. The listing tab displays the number of listing files used, number of households, number of labour quarters and the complete status of each listed block.

The household tab displays the number of households completed, number of households replaced, number of households with issues, number of files not returned and the number of files approved by the supervisor.

LQ tab displays the number of LQ lists to be done, LQ lists done, LQ list with issues, LQ list with no data, LQ industrial done, LQ industrial with issues, and number of LQ industrial approved by the supervisor. Also, the progress sheet shows file assigned interviewer, atoll code, atoll, island code, island, EB, HH sample, LQ sample, and wave. Wave is used to determine which round each interview file belongs to.

Sheet 2: summary sheet: this sheet has three parts namely; outcome, status, and household file. In the status chunk it displays percentage and number of files completed, rejected by supervisor, approved by supervisor and approved by headquarters.

Outcome chunk displays number of files completed, replaced, files with no data, unused replacements, missing forms, wrong result and duplicates. Outcome and status chunks are displayed for each household file, Labour quarters list and labour quarters.

Household file chunk displays completed, number of files rejected by supervisor, number of files rejected by headquarters, number of files approved by supervisor and approved by headquarters. The purpose of this

chunk is to track the progress of the supervisor.

Sheet 3: sup-ap-rj sheet: This sheet was built to check if the supervisors are monitoring the progress of the enumerators and also to check the number of files they approve and reject each day. This sheet contains the number of files rejected by supervisor, number of files rejected by headquarters, number of files approved by supervisor and approved by headquarters.

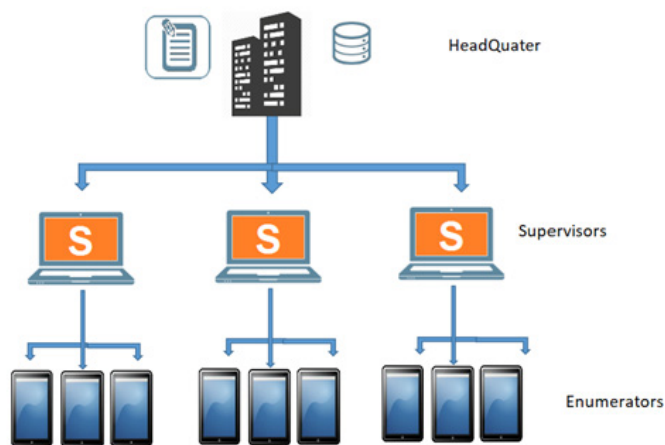
Sheet 4: team sheet: this sheet is used to assign the files for the enumerators. In each team we have two enumerators. This sheet contains team number, username, name of the enumerators, island code, island name, block, supervisor username and supervisor name.

Sheet 4 & 5: HH and hhfile sheet: HH sheet displays the outcome of the households by household file level. This sheet picks the outcome of the primary file in the hhfile sheet and displays the outcome in the hh sheet. Whereas the hhfile sheet displays the outcome at the file level. So, in the hhfile sheet, both primary and secondary file information are displayed separately. The main purpose of this sheet is used to check if the enumerator has completed all the forms in the questionnaire. By looking at the outcome the supervisors can identify the status of the interview. The outcome contains the following: Done, missing forms, Replaced, no data, Unused replacement, Empty, Wrong result, not used, and Duplicates.

Sheet 6 & 7: lqlist and lq sheet: like hh sheet lqlist sheet is also used to check the outcome of the interview at labour quarter level. In the LQ sheet it displays records at the individual file level. The main purpose of this sheet is to check if all the assigned LQ files are completed. By looking at the outcome, supervisors can identify the status of the interview. The outcome contains the following: Done, missing forms, Replaced, no data, Unused replacement, Empty, Wrong result, not used, and Duplicates.

7. DATA MANAGEMENT

HIES 2019 was done by using Survey Solution. The cloud server space was provided by World Bank. To manage the data, we have to go through 3 stages. That is Headquarter, Supervisor and Enumerators.



Headquarter:

Headquarters has mechanisms in place to track overall progress of the survey using survey solution software.

- HQ will create logins and survey assignments for supervisors and enumerators and assigns it to them.
- Review the completed work by supervisors and interviewers
- Accept or reject the completed work by supervisor and enumerators
- Export the data collected from the assignments for analysis

Supervisor:

During the field operation 2 supervisors were stationed in the islands to monitor the field operations and to help with the issues that arise during the field work and the others work from the main station in Male'. Enumerators report directly to their supervisors. In HIES2019/20 Headquarter assigns the households directly to enumerators. However, the replacement households are assigned to supervisors. If a household rejects to give information, supervisor visits the household and tries to convince them and if not, the household will be replaced by supervisor. After completion of the household the file will be send to supervisor and the supervisor will verify and assure the quality of survey, collected data, missing information and accordingly take decision to review, accept, reject or re-assign interviews.

Enumerators:

The key role in collecting good quality data lies with the enumerators. If there is a correction, they are the only ones who can change the data in Survey solution. The supervisors or headquarter have to reject the file after commenting so they can do the checks and correct the data.

Data can be remotely synchronized anytime depending of the availability of connectivity; however, they are asked to synchronize the data at the end of the day.

7.1 DATA CODING

Data coding was done using survey solution as well. The data coding started when supervisor checked all HH form and approved. Then headquarter selects those files and create ISIC and ISCO assignments. These assignments were generated using Stata software (do file). After generating the assignments, headquarter uploads these files to survey solution server and assign the files to ISIC/ ISCO coders.

Coding was done by the staff of NBS and the HIES temporary staff. The supervision and the guidance for coding was given by the NBS staff. Before starting of coding, the temporary staffs were given training on coding. Staffs were divided into two groups; two staff were assigned to give education codes and the rest were assigned with ISIC and ISCO codes.

The classification used to code industry was Inter-

national Standard Industrial Classification of all Economic Activities (ISIC) Rev. 4 and to code occupation, International Standard Classification of Occupation (ISCO) 08 was used. Classification of Individual Consumption According to Purpose (COICOP), 2018 was used to give code for food and non-food items in the forms. COICOP codes were given at 8-digit level for food items and non-food items. Most of the COICOP was already pre-coded in the questionnaire and only few needed to be coded. Revision of the International Standard Classification of Education (ISCED) 2013, was used to code the field of education. ISCED code was given at 6-digit level. The first four digits from ISCED and last two digits was produced by the NBS to detail out the field of education. Atoll Island codes were the codes used in Census 2014. ISIC, ISCO and Atoll Island codes were at four-digit level.

7.2 DATA CLEANING

The data cleaning process started soon after the field enumeration work ended in March 2020. With the conclusion of field enumeration, the combined dataset was made readily available for cleaning.7 staff from NBS took on the task of cleaning the identified variables. With an introductory training from our consultant for HIES 2019, the cleaning process started and was done by using STATA do-files.

The same approach was applied to clean the variables from each section. Initially, a total of 49 variables were cleaned from these sections. The primary targets were the questions where the questionnaire design facilitated enumerators to type in another answer which were not predefined previously.

List of questions that were cleaned are shown in the following table.

Section	Question #	Variable name
F2A. LIVING CONDITION	6	hh_const_oth
F2A. LIVING CONDITION	7	hh_flr_oth
F2A. LIVING CONDITION	8	hh_roof_oth
F2C. HOUSING CONDITION	6	hh_wstdisp_oth
F2C. HOUSING CONDITION	7	hh_drkwater_oth
F2C. HOUSING CONDITION	9	hh_purif_oth
F2C. HOUSING CONDITION	12	hh_ckwater_oth
F2C. HOUSING CONDITION	13	hh_ckfuel_oth
F2D. DISASTERS	1	hh_disaster_oth
F2L. TRAVEL - TRIPS ABROAD	2	trv_abroadReason_oth
F2L. TRAVEL - TRIPS NATIONAL	4	trv_nationalReason_oth
F2L. TRAVEL - TRIPS NATIONAL	14	acc_type_others1
F2M. MONEY TRANSFER	1	transf_rsn_oth
F4A. MIGRATION	6	reasonformigrating_oth
F4B. COMMUTING BETWEEN ISLANDS	4.2.1	SpecifyReasonForCommuting
F4E. FUNCTIONAL DIFFICULTY	8	chronicDisease_oth
F5B. INCOME GENERATING ACTIVITIES	8	ab_reason_oth
F5C. UNEMPLOYMENT	2	seek_channel_oth
F5C. UNEMPLOYMENT	8	noinc_reasn_oth
F5C. UNEMPLOYMENT	10	why_decline_joboffer_oth

F6A. OCCUPATION	3	type_of_work_place_oth
F6A. OCCUPATION	4	primaryEstabType_oth
F6A. OCCUPATION - BUSINESS	5.7	primaryExpenseOther
F6A. OCCUPATION - EMPLOYED	2	primaryNumYearsSpecify
F6A. OCCUPATION	15	fshtyp1_oth
F6D. FISHERIES	5	fshtyp2_oth
F6D. FISHERIES	7	fshiss_oth
F6D. FISHERIES	11	aqcnot_oth
F6C. OTHER INCOME	1	otherIncomeYn_oth
F2F. Consumer D	1	hh_durable_oth
F2G. REPAIR	1	hh_rep_oth
F2H. FURNITURE	1	hh_furnit_oth
F2I. UTENSILS	1	hh_utslyn_oth
EXPENDITURE UNIT - 12 MONTHS	2	ex_edu_oth_9
EXPENDITURE UNIT - 12 MONTHS	3	ex_persnl_oth_5
EXPENDITURE UNIT - 3 MONTHS	1	exp_clothg_oth_7
EXPENDITURE UNIT - 3 MONTHS	2	exp_footwr_oth_8
EXPENDITURE UNIT - 30 DAYS	1	ex_maint_oth_1
EXPENDITURE UNIT - 30 DAYS	2	ex_entert_oth_2
EXPENDITURE UNIT - 30 DAYS	3	ex_trans_oth_3
EXPENDITURE UNIT - 30 DAYS	4	ex_persnl_oth_4
EXPENDITURE UNIT - 30 DAYS	6	ex_edu_oth_10
F4A. MIGRATION	2.1	placebirth_atllsd
F4A. MIGRATION	2.2	placebirth_OtherCountry
F4A. MIGRATION	3.1	placeofregistration_atllsd
F4A. MIGRATION	5.1	prevresidence_othr_atoll
F4A. MIGRATION	5.2	prevresidence_othr_island
F4B. COMMUTING BETWEEN ISLANDS	4.3.1	lastcommute_othr_atoll
F4B. COMMUTING BETWEEN ISLANDS	4.3.2	lastcommute_othr_island

While cleaning these questions, the following procedure was followed.

Firstly, it was determined whether what the enumerator recorded in these fields can be put in under an already defined category or not. If it can be recorded, it was moved under the respectable category, and if not, it was assigned to a new category and the coicop was assigned (in places where coicop was required). After each individual variable was cleaned separately, it was then brought to a single do-file with the help of our consultant.

The food data cleaning took place next. 4 staff from NBS were involved in this stage. The food data cleaning involved three main areas of interest. One, to clean the items recorded under the predefined list of items as standard units and measurements. Two, to clean the items recorded under the predefined list of items as non-standard units and measurements. Three, to clean the items recorded in excess to the list of items predefined (other specify).

To clean the predefined list of items with standard units of measurements, each food item was thoroughly inspected using STATA. Cases where data entry mistakes were made, were identified based on both the consumption and purchase quantity and amounts. And if required, the household size and the island level data was taken into consideration, to make sure that we do not change an already correct information recorded. A special attention was given to not change any

purchase amount, in fear that we may alternate the expense data.

To clean the items recorded under the predefined list with non-standard measurements, it was taken into a spreadsheet template where it facilitated to convert these items into standard measurements and units. At first, if any of these items can be directly converted to a standard measurement, it was done accordingly. And if it was not possible, the non-standard units and measurements were weighed and recorded in a different spreadsheet, which then in turn facilitated converting it into new standard units and measurements.

In order to clean the list of items recorded as 'other specify', the google spreadsheet was designed to facilitate either to move it under the predefined list of items or to enter it as a new item and assign the coicop codes respectively. And were treated the same as before, to convert the non-standard units into standard units.

In order to weigh the new items and non-standard units of measurements, most of the work was done via surfing the local online stores. This was mainly due to the lockdown imposed during the covid19 pandemic.

After the necessary work was done in the spreadsheet, the imposed changes to the food dataset were incorporated via the food clean do-file. Which then also recalculated the kcal values.

OUTLIERS

Outlier detections were done using a separate do-file. Firstly, all the numeric variables which needed to be checked for outliers were identified. It mostly includes the food consumption expenditure, non-food expenditures, rental prices and the income. To check for the outliers, each variable was browsed separately and then arranged in ascending order, so that the lowest values are on top and the highest values are on the bottom. With the help of a histogram, we had a quick look at the distribution of the value to get the bigger picture.

In order to flag the outliers, firstly, the logarithmic value and the median is calculated. Subsequently, based on this logarithmic value, p25 and p75 are calculated. Then, by subtracting the p25 from the p75 we got the Interquartile range. The cut-off points were identified based on the interquartile range(iqr). The upper cut-off value is $>p75+1.5*iqr$. And the lower cut-off value is $<p25-1.5*iqr$. If the value is larger than the upper cut-off value or the value is smaller than the lower cut-off value is regarded as outliers. This method ensures that 95% of cases are within 1.5 iqr from the median. Meaning that at most, 5 % of the cases could be outliers. After the outliers are identified, those cases will then be replaced with the median value.

Above explained are the basics of the outlier detection and replacement protocols. However, there are different considerations we need to take into account when determining the outliers for different types of vari-

ables. Therefore, we needed to do some regressions. We had to build a model of what we think determines the outliers. And before we ran the regression models, we had to make sure the individual variables that we take into consideration for these models are somewhat cleaned individually, so that it does not throw the regression model off charts.

For the rental values, we built the model based on the housing sizes, area (Male' and Atolls) and by the quality of housing. By running the regressions, we got an estimated value which is compared against the actual observed value to spot the outliers.

For the non-food consumption items, we built the model based on the household member sizes. Area (Male' and Atolls) and by the consumption items.

In order to build the model for the food items, we need to look for the outliers of the food prices and quantities as well. For the food prices, we calculated the unit price and for the quantity, we needed to consider the household size to get the estimations. And then based on these estimations, the outliers are replaced by the median specific to the driving factors of the food regression model.

For the income variables the household size, the sources of livelihood, the economic activity and the area (Male' and Atolls) were considered when determining the outliers.

7.3 DATA RESTRUCTURE

When we export the datasets from survey solutions, each roster is in a separate dataset of their own. Normally the way the questionnaire was designed, it had questions in a roster, whereby we have to select yes/no based on a list question outside the roster. And for each item in the list where we said yes, we had to answer the questions inside the roster. Because the list question and the roster are in different files, we had to bring those into a single file, and therefore the dataset needed to be restructured.

Expenses recorded in the household level and expenditure units level needed to be brought into item level. To do this, we had to change the roster items format from wide to long. If a variable is in wide format, one observation has multiple columns. We wanted to change it to the long format so that there will be several observations within a single column. So that all the items are brought to one file level including the 'other specify' items.

The expenses were collected for different time periods namely; past 12 months, past 6 months, past 3 months, past 30 days and past 7 days. These expenditures were converted into yearly figures and then divided by 12 to derive a monthly figure.

Two expenditure datasets were created after restructuring the expenditure datasets. First dataset is non-

food_agg_exp and the second dataset is nonfood_expunit. And then a master expense dataset was created to identify all the expenses in a single file.

LABELLING VARIABLES

In HIES 2019 questionnaire we have allowed "specifying others" in most of the categorical variables in case the relevant item is not in the list of the items given. the different enumerators have recorded or described the same items with different spelling or in different ways. To make it consistent, spelling differences were removed in recurring names and changed those reasons which do not belong to that specified category using replace command in Stata. this was done in the following questions:

- Reason for migrating (other specify)
- Reason for commuting (Other specify)
- Chronic disease (Other specify)

DATASET RAISING

Unlike the previous Household Income and Expenditure (HIES) surveys, in 2019 HIES we raised the data using the statistical software STATA. Final dataset was also in STATA format.

In order to raise the dataset, a STATA file (HIES19_12_raise), was developed with the help of the consultant. In this file we categorized both categorical and numerical variables, under each relevant section. The out-

come file was saved in Excel format. Raised dataset was saved as “Raised_” followed by the file name and non-raised dataset was saved as “Non-Raised_” followed by the file name.

8. SURVEY BUDGET

HIES 2019/20 was the fourth HIES conducted in the country. The sample for this HIES was taken in such a way that it will represent data at the level of the different atolls and provide results representative for the 20 different Atolls. This was in line with the procedure used in HIES 2016. While previous surveys were funded by the government, this time the survey was funded

by World Bank. The initial budget at the beginning of the survey was 1,000,000 US Dollars.

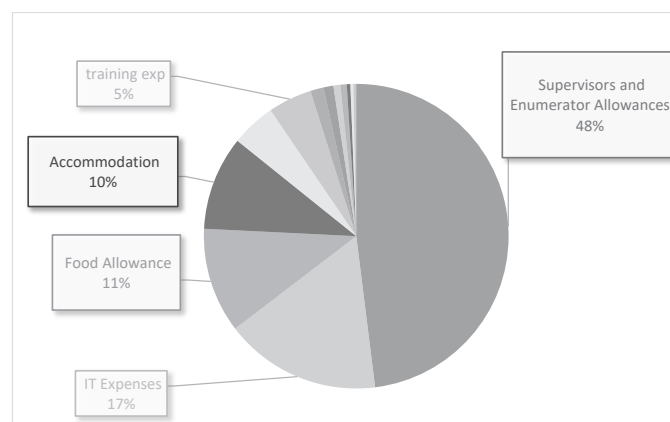
The total amount spent for the HIES 2019/20 was MVR 10,283,918.06.

The following shows the expenses spent.

	Enumerator Allowances	All the expenses	Total expenses
Atolls			
HA	499,575.00	136,951.00	636,526.00
HDH		249,152.00	249,152.00
SH	167,060.44	163,558.00	330,618.44
R	181,300.00	205,515.17	386,815.17
B	303,600.00	126,701.00	430,301.00
LH		94,550.00	94,550.00
F	228,499.00	103,654.00	332,153.00
DH		123,787.00	123,787.00
TH	160,000.00	134,659.00	294,659.00
L	201,300.00	157,892.48	359,192.48
GA	145,433.34	156,198.00	301,631.34
GDH	206,431.00	162,945.00	369,376.00
GN	15,400.00	47,580.00	62,980.00
S	317,000.00	181,649.05	498,649.05
N			
K		134,573.00	134,573.00
AA		111,174.00	111,174.00
Adh		105,317.00	105,317.00
V		61,044.00	61,044.00
M			
Total	2,425,598.78	2,456,899.70	4,882,498.48

Pilot	31,507.00
Pretest	25,020.00
Air and Sea transport	485,871.81
Training expenses	222,660.00
Stationaries	75,074.40
IT Expenses	1,706,657.03
Publicity	69,416.01
Male Field expenses	
<u>Enumerators and Supervisor</u>	
<i>Food</i>	223,880.00
<i>Phone</i>	37,720.00
<i>Transport</i>	22,451.25
Enumerators Allowances	1,167,595.99
Temporary Staffs Allowances	1,333,566.09
Total	5,401,419.58

Details	Expenses	Percentage
Supervisors and Enumerator Allowances	4,938,460.86	48.02%
IT Expenses	1,706,657.03	16.60%
Food Allowance	1,147,930.00	11.16%
Accommodation	1,027,520.00	9.99%
Air and Sea transport	485,871.81	4.72%
training exp	477,399.53	4.64%
Land transport	144,429.25	1.40%
Phone Allowance	108,780.00	1.06%
Stationaries	75,074.40	0.73%
Publicity	69,416.01	0.67%
water allowance	39,246.17	0.38%
Pilot	31,507.00	0.31%
Pretest	25,020.00	0.24%
other expenses	6,606.00	0.06%
	10,283,918.06	100%



The highest expense was spent on the allowances. Which is 48% of the total expense. This includes the allowance given to the enumerators and supervisors, training allowances and the salary of the temporary staff hired by the NBS. All the enumerators, from Male' and Atolls were given a daily allowance of MVR 500 for every field day. And in the 8 days of training, they were given MVR 100 per day, if the enumerator participated in the field operation. After training if the enumerator did not participate in the field work this training allowance was not paid, as was informed at the outset to those involved.

The temporary staff were paid a daily allowance of MVR 1000 as salary for every working day. And, if they participated in the field operation as a supervisor, they will get an additional MVR 550 and if they

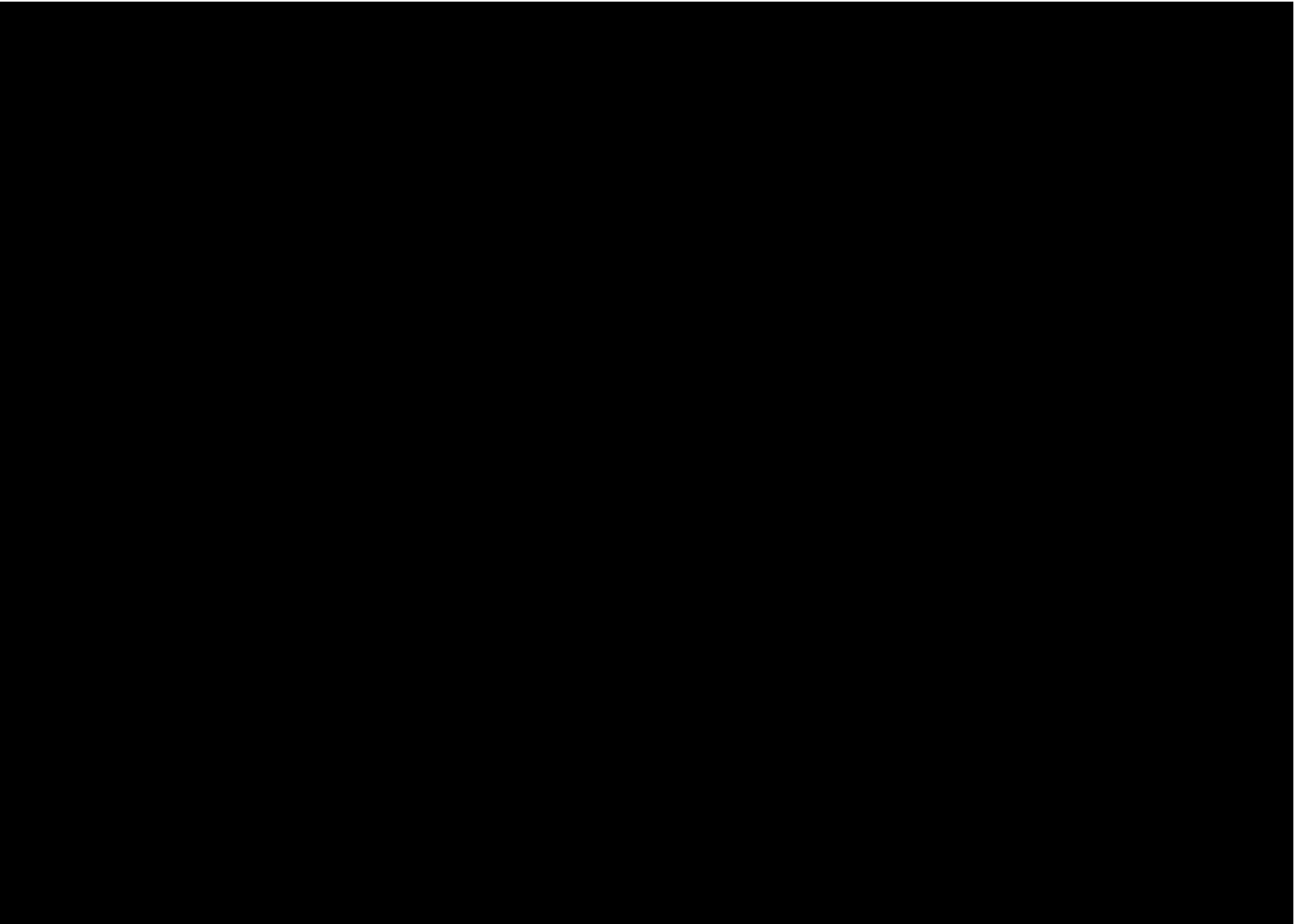
participated as an enumerator, they will get MVR 500 for those days.

The next highest cost was for the IT and related items. This includes laptops, tablets, phones, internet, and other related items. This was 17% of the total cost.

Most of the stationery used in this survey was bought during the previous HIES. Only few stationery had to be bought this time. Unlike other times, transportation cost was cheaper for this HIES. But the cost of food and accommodation had increased in the atolls. Food and accommodation cost covered 21% of the expenses. This was the third highest expense for HIES 2019/20.

Training expenses include the tea and lunch and the training centre fees.

ANNEX



F2: HOUSEHOLD FORM

 National Bureau of Statistics Ministry of National Planning, Housing and Infrastructure Household Income and Expenditure Survey 2019		Household Form Form 2		Confidentiality: The use of the information obtained from this survey on individual's or specific household's in manner that will disclose the identity of any person or institution is prohibited. the information obtained will be published to represent the whole population.															
IDENTIFICATION		1. Atoll and island (Ward for Male): 4. HH serial number: 2. Block Number: 5. Name of Household head: 3. Name of the unit: 6. Contact Number: 																	
F2A. Living Condition																			
1. Type of dwelling unit occupied by the household 1. House 2. No Skip to Q6 2. Is this dwelling built by a private party or government? 1. Own / private party 3. Dwelling constructed by the government due to tsunami 3. Is this a multi storey building? 1. Yes 2. No Skip to Q6																			
4. Which floors are occupied by this household? (Multiple answers) <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Gr</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> </tr> </table> 5. Does this household have access to a lift? 1. Yes 2. No					Gr	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Gr	1	2	3	4	5	6	7	8	9	10	11	12	13	14					
6. What type of construction material is used for the major part of the outer walls? 1. Bricks, and plastered 5. Thatch and sticks 2. Bricks, but unplastered 6. Galvanized tin Sheets 3. Durable wood or wooden sheets 7. Other (specify) 4. Ordinary thin plywood and wood slides 7. What type of construction material is used for the major part of the floor? 1. Cement / Slake lime 5. Parquet 2. Tiles 6. Sand 3. Concrete sheet 7. Other (specify) 4. Durable wood																			

F2B. Rooms

1. How many separate rooms does your household occupy, including bedrooms, sitting or dining rooms, kitchens, studies or similar rooms, excluding bathrooms, garages and terraces?
(Count rooms with combined purposes only once (eg. combined dining room - kitchen). Include storage room if big enough so one could sleep in it.)
 rooms

2. Of those rooms how many do you use for sleeping?
(Include sitting room and alike if used for sleeping.)
 rooms

3. Do you normally use a kitchen, living room or sitting room or storage room for sleeping?

1. Yes

2. No

4. How many couples are there in this household
 couples

5. How many couples have exclusive rooms for sleeping?
(Consider it a separate room if shared with a child under 2 years or if a child with a separate bedroom comes to sleep with the parents.)
 couples

15. Within the dwelling, does your household have access to cable tv Netflix and alike? 1. Yes 2. No	F2D. Disaster 1. In the last 12 months, has your household been affected by? Yes / No (Skip to next section) ☐ ☐ Floods due to heavy rain ☐ ☐ Floods due to sea surge ☐ ☐ Prolonged Dry season ☐ ☐ Severe thunderstorms (i.e. wind) ☐ ☐ Fire incidents ☐ ☐ Any other disaster (specify).....
16. Who owns this dwelling unit? 1. Owned by a member of this HH/ own place 2. Owned by a relative not living in this household 3. Arranged by the employer 4. Other	
17. Is this dwelling unit of this household rented? 1. Yes  Skip to Q19 2. No	Disaster (Roster question)
18. If you were to live in a similar house to this one in the same island, how much do you estimate to pay for monthly rent? MVR per month  Skip to Q20	1.1. Did your household experience any loss of livelihood damage to property, or physical or mental harm to the household members due to the disaster in the past 12 months? 1. Yes 2. No
19. How much is the monthly rent, Excluding utility bills? (Do not include electricity / water bills or any other service expenditure in the rent amount. If a non- house member pays the rent, make sure to include that rent MVR per month) MVR per month	1.2. Did you receive any support from anyone outside the household during or after the disaster? (If affected more than once, ask about the last incident include only financial assistance and in-kind support.) 1. Yes 2. No  Skip to F2E
20. INTERVIEWER: Quality of housing. Before moving on to the next section, look around the house/ apartment and indicate the quality of house/apartment. Only do this if you are INSIDE the household, otherwise, select “ could not observe” 1. Basic (old, very basic furniture, repairs needed) 2. Quality of housing 2 3. Quality of housing 3 4. Quality of housing 4 5. Upscale (very new; expensive and new furniture) 6. Could not observe	1.3. From who? ☐ Friends and family ☐ Employer ☐ Insurance ☐ MRC (Maldives Red Crescent) ☐ NDMA (National Disaster management Authority) ☐ Island Council ☐ Other (specify)

F2F. Consumer durables (items that last for more than 1 year)

1. During the **past 12 months**, did you or any member of this household purchase any of the following items for use of household members OR received any items from someone out side the household??

! Do not include semi-durables such as furniture and alike

Code	Item	Past 12 months		
		1. Did any member of this household purchase/receive any of the following item? 1. Yes 2. No (Skip to next item)	1.1 no. of items purchased (If no items enter '0' and skip to Q3)	2. How much did members of your household spend on (...) (MVR) (2)
0532112	Mixer/ Blender	1 2	(1/1)	(3)
5311003	Oven/microwave (electric or gas)	1 2		
5321004	Toaster	1 2		
5311005	Stove	1 2		
5322004	Electric Kettle	1 2		
5321005	Air fryer	1 2		
5314001	Vacuum cleaner	1 2		
5321003	Cake mixer	1 2		
	Other consumer durable (Specify)	1 2		

2. During the **past 12 months**, did you or any member of this household spend for any repairs/ maintenance of air-condition, motorcycle, grinder or alike for use of household members or received any of this services from someone outside the household?

If so, how much did you spend?

1. Yes (specify total expenses)



MVR

2. No Skip to F2G

F2G. Repair and maintenance of house (past 12 months)

1. During the **past 12 months**, did you or any household member purchase, receive or take on credit any of the following for the alterations/maintenance activities carried out in the housing premises of this household?

! Do not include newly constructed buildings

! Do not include the price of individual item if the work was carried out by a contractor

Code	Item	Past 12 months		
		1. Purchased/ taken credit/ received any of the following for the alterations/ maintenance activities? 1. Yes 2. No (next item)	1.1 How many did your household purchased or taken credit (If no items enter '0' and skip to Q3)	2. How much did members of your household spend on (...) (MVR) (2)
4311001	Plywood sheets	1 2	(1/1)	(3)
4311003	Cement	1 2		
4311013	Sand	1 2		
4311014	Building blocks	1 2		
4311004	Tiles	1 2		
4311022	Wall Sealer (puti)	1 2		
4311002	Oil-based paint/Water-based paint/varnish	1 2		
4311006	Toilet bowl/Wash basin /toilet set	1 2		
4311008	Shower/Water tap	1 2		
5114001	Carpet\Linoeum(Tharfaalu)	1 2		
4311009	Parquet (flooring)	1 2		
4311005	Roofing tin sheets	1 2		
4311010	Plastic pipe & alike	1 2		
4311036	Electric wire & alike	1 2		
4311018	Labour cost	1 2		
	Others (Specify)	1 2		
				

Interviewer: Was the respondent able to give the break down of the items used for the alterations/maintenance?

1. Yes Skip to F2H

2. No

2. How much in total did you spend on alterations/maintenance to the dwelling of this household?

MVR

F2J. Health expenses (past 12 months)

1. During the past 12 months, has any member of this household been admitted to a hospital or health centre in Maldives or abroad?

1. Yes 2. No  **Skip to Q3**

In-patient services		Did any member of this household pay for the Service received? 1. Yes 2. No  Skip to Q3	how much did members of this household pay for a household member for past 12 months
Place and type of health service obtained	(1)	(2)	(4)
1.1 Public hospital / center in Maldives 1. Yes ☐ 2. No ☐  Skip to 1.2			
1. How many members were admitted			
1. Lab / diagnostic expenses (only for in-patient services)	1	2	
2. Cost of medicine during stay (only for in-patient services)	1	2	
3. Hospital stay / Other costs incurred while admitted	1	2	
Total Expenditure	If any expenses of 1 - 3 are unknown, report the total (value in MVR)		
1.2 Private hospital / center in Maldives 1. Yes ☐ 2. No ☐  Skip to 1.3			
1. How many members were admitted			
1. Lab / diagnostic expenses (only for in-patient services)	1	2	
2. Cost of medicine during stay (only for in-patient services)	1	2	
3. Hospital stay / Other costs incurred while admitted	1	2	
Total Expenditure	If any expenses of 1 - 3 are unknown, report the total (value in MVR)		
1.3 Hospital / center Abroad 1. Yes ☐ 2. No ☐			
1. How many members were admitted			
1. Lab / diagnostic expenses (only for in-patient services)	1	2	
2. Cost of medicine during stay (only for in-patient services)	1	2	
3. Hospital stay / Other costs incurred while admitted	1	2	
Total Expenditure	If any expenses of 1 - 3 are unknown, report the total (value in MVR)		

F2J. Health expenses (past month)

3. During the past 30 days, has any member of this household made an out-patient visit? (In-home medication services are included)

1. Yes 2. No  **Skip to Q4**

Out-patient services		Did any member of this household pay for the Service received? 1. Yes 2. No  Skip to Q4	how much did members of this household pay for a household member for past 12 months
Place and type of health service obtained	(1)	(2)	(4)
3.1 Public hospital / center in Maldives 1. Yes ☐ 2. No ☐  Skip to 3.2			
1. How many members received outpatient services			
1. Lab / diagnostic expenses	1	2	
2. Cost of medicine	1	2	
3. General Doctor consultation charges	1	2	
4. Dentist consultation charges	1	2	
5. Optometrist consultation charges	1	2	
6. Other specialized doctor consultation charges	1	2	
7. Other hospital charges (out-patient expenses only)	1	2	
8. Traditional Medicine (Including Consultation)	1	2	
Total Expenditure	If any expenses of 1 - 3 are unknown, report the total (value in MVR)		
3.2 Private hospital / center in Maldives 1. Yes ☐ 2. No ☐  Skip to 3.3			
1. How many members received outpatient services			
1. Lab / diagnostic expenses	1	2	
2. Cost of medicine	1	2	
3. General Doctor consultation charges	1	2	
4. Dentist consultation charges	1	2	
5. Optometrist consultation charges	1	2	
6. Other specialized doctor consultation charges	1	2	
7. Other hospital charges (out-patient expenses only)	1	2	
8. Traditional Medicine (Including Consultation)	1	2	
Total Expenditure	If any expenses of 1 - 3 are unknown, report the total (value in MVR)		

F2L. Travel Abroad (past 12 months)

1. During the past 12 months, did you or any member of this household pay for any trips abroad apart from pilgrimage trips for a household member OR receive any trips from someone outside the household?

1. Yes (provide details below)

2. No Skip to Q3

! Do not include Pilgrimage Trips

Main purpose	1. Yes 2. No (skip to next item)	1. How many trips past 12 months?
(1)	(2)	(3)
1. Medical treatment	1 2	
2. Holiday, leisure & recreation	1 2	
3. Education and training	1 2	
4. Business/ Official	1 2	
5. Visiting friends and relatives	1 2	
6. Other (Specify)	1 2	

2. Out of the trips that you have just mentioned, specify details of expenditure for the last trip made in each purpose

! If the trip is Business/ Official, include personal expenses only

Trips during past 12 months		Details of the most recent trip										
! Do not include Pilgrimage Trips		Expenses incurred for Household members by Household (If no costs enter "0")										
Main purpose	2. Number of persons from this HH	3. How many days?	4. Was any expense paid by a member of this HH? (Do not include the expenses paid by a non-HH member)	5. Air Transportation cost	6. Sea Transportation cost	7. Land Transportation cost	8. Food cost	9. Accommodation cost	10. Leisure and Entertainment	11. Education and Training	12. Shopping	13. Total
(1)	(2)	(2)	1. Yes 2. No (Skip to next item)	(MVR) (4)	(MVR) (5)	(MVR) (6)	(MVR) (7)	(MVR) (8)	(MVR) (9)	(MVR) (10)	(MVR) (11)	(MVR) (12)
1. Medical treatment			1 2									
2. Holiday, leisure & recreation			1 2									
3. Education and training			1 2									
4. Business/ Official			1 2									
5. Visiting friends and relatives			1 2									
6. Other (Specify)			1 2									

Housing Loans

2. Does any member of this household have any outstanding housing loan?

1. Yes

2. No

3. Does any member of this household have any outstanding loan of any kind other than a housing loan?

1. Yes

2. No

F2M. Money transfer abroad / another island

(Money transfer made only by Maldivians)

1. During past 12 months did anyone in your household transfer or spent any money for someone living in another household either in Maldives or abroad, or both for the following purpose?

! DO NOT include transfers made for business reasons or donations to institutions.

	1. Yes (specify)	2. No Skip to Expenditure Unit			
	Purpose (item)	Was money transferred? 1. Yes 2. No (Skip to next item)	1. Was the money paid in Maldives, abroad or both? 1. Maldives 2. Abroad 3. Both	2. In the past 12 months how much was paid in total in Maldives? (Value in MVR)	3. In the past 12 months how much was paid in total in abroad? (Value in MVR)
		(1)	(1/1)	(2)	(3)
1.	For a person studying	1 2	1 2 3		
2.	For a persons medical treatment	1 2	1 2 3		
3.	For a person living in another household	1 2	1 2 3		
4.	For a person living in a close institution	1 2	1 2 3		
5.	Other purposes other than business (specify)	1 2	1 2 3		

Remarks

F3: HOUSEHOLD UNIT

National Bureau of Statistics
Ministry of National Planning, Housing and Infrastructure

Household Income and Expenditure Survey 2019

IDENTIFICATION

No. of forms filled

of

Confidentiality:

The use of the information obtained from this survey on individual's or specific household's in manner that will disclose the identity of any person or institution is prohibited, the information obtained will be published to represent the whole population.

5. Serial No of expenditure unit (form 1, col.7):

6. Name of Persons in this expenditure unit:

7. Name of the head of this unit:

8. Name of the respondent:

9. Contact number of the respondent:

F3A. Education expenses (past 12 months)

1. During the past 12 months, has any money been spent on education for a member of this household or received any from a non-household member? (if the expenses are covered by the government select "yes", if no skip to F3B)

Code	Item	Purchased / received? 1. Yes 2. No	Main Expenses were borne by: 1. Government 2. Not a member of this household 3. Member of this household	Was any of this paid by a member of this expenditure unit?	Total Amount spent by your expenditure unit during the past 12 month	Value in MVR
/I/	(2)	(3)	Skip to Col. 6	(4)	(5)	(6)
10101001	Pre-school fees	1	2	1	2	
10501001	Pre-school tuition fees	1	2	1	2	
10102001	Primary school fees (1-7)	1	2	1	2	
10501002	Primary school tuition fees (1-7)	1	2	1	2	
10201001	Secondary school fees (8-10)	1	2	1	2	
10501003	Secondary school tuition fees (8-10)	1	2	1	2	
10201002	Higher secondary school fees (11-12)	1	2	1	2	
10501004	Higher secondary school tuition fees(11-12)	1	2	1	2	
10400002	Tertiary educational course fees	1	2	1	2	
10201005	O level subject fees	1	2	1	2	
10201006	A level subject fees	1	2	1	2	
10509003	Quran class fees	1	2	1	2	
10509002	Other classes fee (E.L.C and alike)	1	2	1	2	
10509001	Other training fees (cake course and alike)	1	2	1	2	

Expenditure Unit Form 3

No. of forms filled of

Confidentiality:
The use of the information obtained from this survey on individual's or specific household's in manner that will disclose the identity of any person or institution is prohibited, the information obtained will be published to represent the whole population.

5. Serial No of expenditure unit (form 1, col.7):

6. Name of Persons in this expenditure unit:

7. Name of the head of this unit:

8. Name of the respondent:

9. Contact number of the respondent:

F3A. Education expenses (past 12 months)

1. During the past 12 months, has any money been spent on education for a member of this household or received any from a non-household member? (if the expenses are covered by the government select "yes", if no skip to F3B)

Code	Item	Purchased / received? 1. Yes 2. No	Main Expenses were borne by: 1. Government 2. Not a member of this household 3. Member of this household	Was any of this paid by a member of this expenditure unit?	Total Amount spent by your expenditure unit during the past 12 month	Value in MVR
/I/	(2)	(3)	Skip to Col. 6	(4)	(5)	(6)
11203001	Boarding School fees	1	2	1	2	
9740010	Booklist	1	2	1	2	
3110002	School uniform / cloth, materials	1	2	1	2	
3142002	School uniform tailoring cost	1	2	1	2	
3124002	Sports Uniform	1	2	1	2	
3213001	School shoes	1	2	1	2	
3124004	School scarf	1	2	1	2	
3124006	School Undergarments	1	2	1	2	
13291001	School bags/ interval bags	1	2	1	2	
5403011	Interval bottle	1	2	1	2	
5403012	Lunch box	1	2	1	2	
9740012	Cellophone	1	2	1	2	
-996	Other education expenses (specify)	1	2	1	2	

F3E. Footwear (past 3 months)

2. During the past 3 months, did any member of your expenditure unit purchase any of these items for use of the members of this household or receive any from a non-household member?
! Do not report footwear items for school children here.

Code	Item	Purchased or received? 1. Yes 2. No  (Skip to next item)	During the past 3 months: no. of items purchased/ received (if no items enter "0", skip to next item)	Total Amount spent during the past 3 month Value in MVR
(/)	(2)	(3)	(4) (5)	(6)
3210001	Flip flops	1 2		
3211001	Men's shoes	1 2		
3212002	Women's shoes	1 2		
3210002	Sport Shoes	1 2		
3211002	Men's slippers	1 2		
3212001	Women's slippers	1 2		
3213004	Baby/ childrens' Shoes	1 2		
3213003	Baby's/ childrens' slippers	1 2		
3210003	All type of shoes and slippers	1 2		
-896	Other footwear expenses (specify)	1 2		

F3F. Household Maintenance (past month)

1. During the past 30 days, did any member of this expenditure unit purchase any of these items for use of the members of this household or receive any from a non-household member?

Code	Item	Purchased or received? 1. Yes 2. No  (Skip to next item)	During the past months: no. of items purchased/ received (if no items enter "0", skip to next item)	Total Amount spent during the past month Value in MVR
(/)	(2)	(3)	(4) (5)	(6)
5611001	Detergent/Fabric Softner	1 2		
5611005	Toilet cleaner	1 2		
13120099	Floor cleaner	1 2		
5611012	Broom/Mop and alike	1 2		
13120027	Handwash	1 2		
5611004	Dish wash	1 2		

Code	Item	Purchased or received? 1. Yes 2. No  (Skip to next item)	During the past months: no. of items purchased/ received (if no items enter "0", skip to next item)	Total Amount spent during the past month Value in MVR
(/)	(2)	(3)	(4) (5)	(6)
5611006	Sponge	1 2		
5403009	Bucket	1 2		
5619001	Insecticide (Such as Mostly, Hitspray)	1 2		
5611007	Air fresher	1 2		
5522003	Battery	1 2		
5522002	Light/ Bulb	1 2		
-196	Other maintenance expenses (specify)	1 2		

F3G. Entertainment, Sports and Recreational Activities (past month)

1. During the past 30 days, did any member of this expenditure unit purchase any of these items for use of the members of this household or receive any from a non-household member?

Code	Item	Purchased or received? 1. Yes 2. No  (Skip to next item)	During the past months: no. of items purchased/ received (if no items enter "0", skip to next item)	Total Amount spent during the past month Value in MVR
(/)	(2)	(3)	(4) (5)	(6)
9212002	Toys	1 2		
9312001	Plants (Cactus and alike) for decorations	1 2		
9630002	Photography / Photo developing	1 2		
9610001	Cinema Ticket	1 2		
8150002	Video/ audio CD's	1 2		
9462001	Aerobics/Gym and alike/Swimming class/ training fee/Other sports activity fee	1 2		
9211002	Game software	1 2		
9321001	Pets	1 2		
8150003	Pen drive / Hard Disk	1 2		
-296	Others recreational expenses (specify)	1 2		

F3J. Media and other relatives (past month)

1. During the past 30 days, did any member of this expenditure unit purchase any of these items for use of the members of this household or receive any from a non-household member?
If connection fee was paid during the past month, include it.

Code	Item / Service	Total Amount spent during the past month Value in MVR	Purchased or received? 1. Yes 2. No (Skip to next item)
(1)	(2)	(3)	(4)
8330001	Internet bill (fixed broadband /Data sim / Dongle)		1 2
4311040	Cable TV and like		1 2

F3K. Education expenses (past months)

1. During the past 30 days, did any member of this expenditure unit purchase any of these items for use of the members of this household or receive any from a non-household member?

Code	Item	Purchased or received? 1. Yes 2. No (Skip to next item)	During the past month: no. of items purchased/ received (If no items enter "0", if "0" is purchased skip to next item)	Total Amount spent during the past month Value in MVR
(1)	(2)	(3)	(4)	(5)
9740006	Note books	1 2		(6)
9719001	Story books (including e-books)	1 2		
9740002	Pens	1 2		
9740001	Pencils	1 2		
9740003	Erasers	1 2		
9740004	Gum bottles	1 2		
9740005	Color box / Color Pencils	1 2		
9740007	Sharpner	1 2		
9740011	Scissor	1 2		
9740008	Color papers	1 2		
9740009	Glaze paper/Crepe paper	1 2		
13399003	Photo copying	1 2		
13399004	Printing	1 2		
9711002	Past paper books	1 2		
-1096	Other education expenses (specify)	1 2		

F3L. Food prepared outside Home (Past 7 days)

1. During the past 7 days, did any member of this expenditure unit buy any take away food to eat at home or in the office or pay for food at restaurant or café for the household members or receive any take away food item from someone outside the household? (if "no" skip to Q2)

Item Code	Item	During the past 7 days, did you purchased?		What was the quantity of (ITEM) purchased in the past 7 days? specify unit codes accordingly, as given in the table	Total Amount spent during the past 7 days		
		1. Yes	2. No				
(1)	(2)	(3)		Unit Code (4)	Quantity Purchased (5)	Received (6)	Value in MVR (7)
11112001	Short eats	1	2				
11112002	Cake and alike	1	2				
11112003	Sandwich/buns	1	2				
11112004	Pizza	1	2				
11112005	Burger	1	2				
11112006	Continental breakfast	1	2				
11112007	Roshi meals	1	2				
11112008	Rice meals	1	2				
11112009	Noodles/Pasta meals	1	2				
11112010	Soups	1	2				
11112011	Salads and alike	1	2				
11112012	buffet meals	1	2				
11112013	Drinks (Coke ,juice, ice-cream and alike)	1	2				
11112014	Aracanuts	1	2				
11112015	Cigarettes	1	2				
-96	Other meals	1	2				
	Total cost			If don't know to give the price separately			

Unit Codes: 1. Full plate 2. Half plate 3. Full bowl 4. Half bowl 5. Packs 6. Piece 7. Slice

2. At the end of the month, after you(plural) have paid for all your expenses, do the members of this expense unit have money left over to save for future?

1. Always
2. Often
3. Sometimes
4. Rarely
5. Never

57 | ADMINISTRATIVE REPORT

 National Bureau of Statistics Ministry of National Planning, Housing and Infrastructure Household Income and Expenditure Survey 2019		Individual Form Form 4 Confidentiality: The use of the information obtained from this survey on individual's or specific household's in manner that will disclose the identity of any person or institution is prohibited. the information obtained will be published to represent the whole population.	
► IDENTIFICATION		No. of forms filled of	
1. Atoll and island (Ward for Male'):		4. HH serial number:	
2. Block Number:		5. Name of Person:	
3. Name of the unit:		6. Person Number:	
General			
1. Sex ☐ Female ☐ Male		6. What was your main reason for moving from previous island to this island?	
2. Age		1. For education 2. Take up a new job / Job Transfer/seeking work 3. Return migrant to live in this island 4. Due to family migration / to live with family 5. Due to marriage 6. As a parent / guardian 7. For medical purpose 8. Population consolidation 9. Flat / Land 10. Low Rent 11. Other reason (specify)	
3. What is your year of birth?year		7. In which year did you move from previous island to this island?	
4. What is your month of birth?month		1. Year: 2. Don't Know	
F4A Migration		8. How many years ago has moved here from previous island?	
1. What is your nationality 1. Maldivian ☐ 2. Foreigner ☐		1. Year: 2. Don't Know	
2. What is your place of birth? 1. This island ☐ 3. Another island (specify) 2. Another country (specify)		9. What is your main reason to live in previous island? (Ask only if Q1=1 or Q6=3) 1. For education 2. For employment / business /seeking work 3. As it was my residence 4. Due to family migration/ to live with family 5. Due to marriage 6. As a parent / guardian 7. For medical purpose 8. Due to construction of home 9. Other reason (specify)	
3. What is your place of registration? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		10. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
4. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		11. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
5. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		12. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
6. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		13. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
7. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		14. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
8. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		15. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
9. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		16. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
10. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		17. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
11. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		18. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
12. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		19. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
13. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		20. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
14. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		21. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
15. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		22. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
16. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		23. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
17. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		24. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
18. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		25. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
19. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		26. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
20. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		27. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
21. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		28. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
22. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		29. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
23. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3. Another island (specify)		30. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
24. Have you ever resided in another island or country other than this island for 1 year or more? 1. Yes ☐ 2. No ☐ Skip to F4B		31. How many years ago has moved here from previous island? 1. Year: 2. Don't Know	
25. On which island or country was you previous place of residence? 1. This island ☐ 2. Same as birth island ☐ 2. Not registered in Maldives ☐ 3.			

F4C Education

For people 5 years & above

8. At what level are you studying now?

Grade (00 to 12)

Grade

!

If attending Pre-School, write "00"

13. O' level

14. A' level

15. Diploma

16. First Degree

17. Master's Degree

18. PHD

19. Certificate / Sanadhu

20. Special needs classes

F4C Education

For people 15 years & above

9. What is the highest academic/vocational certificate that you have achieved?

1. O' level

2. A' level

3. Academic/ vocational certificate or Diploma (less than 6 months)

4. Academic/ vocational certificate or Diploma (more than 6 months)

5. First Degree / MBBS

6. Master's Degree

7. PHD

8. No certificate

Skip to F4D

10. In which field or subject is your highest general education qualification? (Specify) If you received several diploma or degrees at the same level name the main one. "Give detail information about qualification".

Administrative use

11. Where did you attain your highest academic/vocational certificate?

1. Maldives

2. Abroad

3. Partially abroad

F4D Assets

For people 15 years & above

1. Do you own any of the following?

(1)

1.Yes

2.No

(2)

If yes, expenditure on phone bill during the past month

(3)

1. Mobile Phone

2. Motor Cycle

3. Tablet / iPad

4. Laptop / Computer

1

1

1

1

go to col. 3

2

2

2

2

MVR

F4E Functional Difficulty

For people 5 years & above

1. Do you have any of the following difficulties?

(1)

1. No - no difficulty

2. Yes - some difficulty

3. Yes - a lot of difficulty

4. Cannot at all

1. Do you have difficulty seeing, even if wearing glasses/ contact lenses?

2. Do you have difficulty hearing, even if using a hearing aid?

3. Do you have difficulty walking or climbing steps?

4. Do you have difficulty remembering or concentrating?

5. Do you have difficulty with self-care such as (washing all over or dressing)?

6. Using your usual (customary) language, do you have difficulty communicating, (for example, understanding or being understood by others?

1

1

1

1

1

1

2

2

2

2

2

3

3

3

3

4

4

4

4

4

7. Do you suffer from any chronic disease, such as diabetes, high blood pressure, cancer or others?

1. Yes

2. No

Skip to F4F

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F5: LABOURFORCE MODULE

 National Bureau of Statistics Ministry of National Planning, Housing and Infrastructure Household Income and Expenditure Survey 2019 IDENTIFICATION Labour force Module Form 5 No. of forms filled of		Confidentiality: The use of the information obtained from this survey on individual's or specific household's in manner that will disclose the identity of any person or institution is prohibited. The information obtained will be published to represent the whole population.	
1. Atoll and island (Ward for Male'): 2. Block Number: 3. Name of the unit:		5. HH serial number: 5. Name of Person: 6. Person Number:	
15 Years & Above			
F5A. NON-INCOME ACTIVITIES 1. During the past 4 weeks, did you grow crops, vegetables or fruits for household consumption? 1. Yes ☐ 2. No ☐ Skip to Q3		10. How many hours in total did you spend on these activities during the past 7 days? ☐ ☐ ☐ ☐ IN HOURS. Only include time spent on activities for household consumption.	
2. How many hours in total did you spend on these activities during the past 7 days? ☐ ☐ ☐ ☐ IN HOURS. Only include time spent on activities for household consumption.		11. During the past 4 weeks, did you spend anytime voluntarily providing services to an association, charity organisation, school, hospital, etc., without any pay? 1. Yes ☐ 2. No ☐ Skip to Q13	
3. During the past 4 weeks, did you raise poultry or graze animals for meat, egg or milk for household consumption? 1. Yes ☐ 2. No ☐ Skip to Q5		12. How many hours in total did you spend on these activities during the past 7 days? ☐ ☐ ☐ ☐ IN HOURS. Only include unpaid activities.	
4. How many hours in total did you spend on these activities during the past 7 days? ☐ ☐ ☐ ☐ IN HOURS. Only include time spent on activities for household consumption.		13. During the past 4 weeks, did you spend anytime on any other unpaid non-compulsory activities performed directly for others outside your own household? 1. Yes ☐ 2. No ☐ Skip to Q15	
5. During the past 4 weeks, did you catch or trap fish, shellfish or other sea products for food or as raw material for household consumption? 1. Yes ☐ 2. No ☐ Skip to Q7		14. How many hours in total did you spend on these activities during the past 7 days? ☐ ☐ ☐ ☐ IN HOURS. Only include unpaid activities.	
6. How many hours in total did you spend on these activities during the past 7 days? ☐ ☐ ☐ ☐ IN HOURS. Only include time spent on activities for household consumption.		15. During the past 4 weeks, did you spend any time working without pay (salary, commission or stipend), as an apprentice, intern or trainee, for the purpose of acquiring knowledge or gaining practical experience? 1. Yes ☐ 2. No ☐ Skip to Q17	
7. During the past 4 weeks, did you prepare non-perishable or long lasting food items such as fish paste, dried fish, pickles, coconut oil for food or other food products for household consumption? 1. Yes ☐ 2. No ☐ Skip to Q9		16. How many hours in total did you spend on these activities during the past 7 days? ☐ ☐ ☐ ☐ IN HOURS. Only include unpaid activities.	
8. How many hours in total did you spend on these activities during the past 7 days? ☐ ☐ ☐ ☐ IN HOURS. Only include time spent on activities for household consumption.		17. During the past 4 weeks, did you spend any time doing unpaid household, such as preparing meals, cleaning, shopping, washing cloths, taking care of the elderly family member, children, or people with special needs, etc.? 1. Yes ☐ 2. No ☐ Skip to Form 5, Section B	
9. During the past 4 weeks, did you make garments or furniture items for the household members or produce coconut oil for uses other than food or carry out construction or repair works, etc., in the household? 1. Yes ☐ 2. No ☐ Skip to Q11		18. How many hours in total did you spend on these activities during the past 7 days? ☐ ☐ ☐ ☐ IN HOURS. Only include unpaid activities.	

5. How long has it been since you left your last job or economic activity? 1. Less than 3 months 2. Between 3 months to 6 months 3. Between 6 months to 11 months 4. Between 1 year to 2 years 5. Between 2 year to 3 years 6. More than 3 years	11. In what type of organization do you prefer to work? 1. Starting a business 2. Government organization 3. State Owned Enterprise 4. Private company 5. Non-profit organization 6. Family business 7. Home-based work
6. At present, do you want to work? (If HH member is selected for a job and awaiting employers notification, pick yes) 1. Yes 2. No Skip to Q8	12. Ideally, what kind of a job would you prefer to have? 1. Manual job (without special skills) 2. Clerical/Administrative job 3. Technical/Professional job 4. Managerial job 5. Don't know
7. If it depended on you, could you have started working last week? 1. Yes Skip to Q8 2. No 7.1. Or, could you start working within the next 2 weeks? 1. Yes 2. No	13. What is the minimum monthly income for which you would be willing to work as a full time worker or start a business? (Ask only if this individual is the respondent for this form) MVR
8. What is the main reason you did not do any income generating activity in the last 4 weeks? 1. Selected for a Job/Project and awaiting for Employer's/Client's notification. 2. Waiting for the Season 3. Attending Educational / Training Program Skip to Q11 4. Household Chores / Babysitting 5. Due to Pregnancy or childbirth 6. Due to health condition at the moment 7. Due to long-term health condition Skip to Q11 8. Due to disability 9. Old age weakness 10. Due to objection from Family Members 11. Will start training/course within 3 month 12. Lack of job opportunities in the Residential island/region 13. Looked for job(s) before but couldn't find one 14. Not interested in Working / Don't want to do any work Skip to Q11 15. Do not know how and where to look for work 16. Setting-up own business 17. Pension/ social benefits/ income from rent 18. Not necessary to earn income 19. Other reason (specify).....	14. How does you mainly manage your personal expenses? 1. Parent's support 2. Spouse's support 3. Son's/ Daughter's support 4. Help from other family members 5. Help from friends 6. Pension / income from rent / social benefits 7. Through other means
9. Did you ever decline a job offer? 1. Yes 2. No Skip to Q11	Remarks
10. Why did you decline the job offer? 1. Low pay 2. Do not like the job 3. Transportation difficulties 4. Not ideal compared to the educational level 5. Short working hours 6. Long working hours 7. Do not want to work 8. Other (specify)	

F6: EMPLOYMENT AND INCOME

National Bureau of Statistics Ministry of Finance and Treasury Household Income and Expenditure Survey 2019		Employment & Income Form 6		Confidentiality: The use of the information obtained from this survey on individual's or specific household's in manner that will disclose the identity of any person or institution is prohibited. the information obtained will be published to represent the whole population.	
IDENTIFICATION		No. of forms filled of			
1. Atoll and island (Ward for Male):		4. HH Serial number:			
2. Block Number:		5. Name of Person:			
3. Name of the unit:		6. Person Number:			
F6A.1. PRIMARY OCCUPATION (for all 15 years & above)					
1. What was the main economic activity carried out at the place where you worked during the past 7 days? For example: Primary / Secondary education, Weaving thatch, Garment shops, Sea transport, Planting chillies, Reef fishing, Hotels/Café, Pharmacy, Construction or such activity which generates income to you or your family ! If you are temporarily absent from work, state that economic activity you did before your absence. Industry/Main activity of your place of work		4. What type of establishment is that? 1. Government office 2. Independent government institution 3. Non profit Organisations 4. M.N.D.F / Police 5. Embassy/International bodies 6. Private company (not operating under companies)/own enterprise 7. Company/establishment operating under a company 8. State owned enterprises 9. Agricultural plots 10. House / living quarter 11. No fixed premises 12. Other (specify here)			
2. Are the products or services of this activity for tourists, resorts or guest houses? 1. Yes, all 2. Yes, partially 3. No 4. Don't know		5. What is the name of work in that economic activity? 			
3. What type of place do you normally carry out this economic activity? 1. Own dwelling / workshop attached to own dwelling / Outside own dwelling 2. At the client or employer's dwelling 3. At the farm, agricultural land, forest 4. At the fishing site 5. At a business, office, factory, fixed premise 6. At construction site 7. On the street or another public place 8. Market 9. On a vehicle (without daily work base) 10. Other (specify here) 11. Don't know		6. What is your job title in that economic activity? 			
		7. What was your occupation or type of work carried out in that job during the past 7 days? For example: Car / Pickup driver, Construction worker, Boat captain, Weaving thatch, Civil engineer, Architect, Teacher (grade 4), Journalist, Restaurant manager, Musician, Singer...etc			

2. EMPLOYED (only employees)

1. With reference to the work you did in the past 7 days, were you employed on the basis of a written or oral contract?

1. A Written contract

2. An Oral contract

3. No Agreement Skip to Q3

2. Does your contract have a defined period of employment, and if so for how long?

1. Less than 3 months Skip to Q4

2. 3 months to 1 year

3. More than 1 year (Specify)...

4. No specific period Skip to Q4

2.1. Specify number of years (only if Q2=3_ years

3. Does your employer contribute to Pension Scheme?

1. Yes

2. No

3. Don't know

4 Does your employer contribute to Health Insurance Scheme?

1. Yes

2. No

3. Don't know

Asandha not included.

INCOME

1. During the past month, did you receive the following from this employment?

(Item)	Did you receive 1. Yes 2. No skip to next item	How much did you receive? 1. Don't know skip to next item	Select currency 1. MVR 2. USD
(1)		(2)	(3)
1. Wages & Salaries (basic salary, excluding allowances etc)	1 2		1 2
2. Overtime, bonus, commission (estimate if not paid monthly)	1 2		1 2
3. Tips	1 2		1 2
4. Living allowances	1 2		1 2
5. Food allowances	1 2		1 2
6. Medical allowances	1 2		1 2
7. Laundry or uniform allowances	1 2		1 2
8. Travel expenses (employment related trips)	1 2		1 2
9. Services in kind (medical care, accommodation and alike)	1 2		1 2
10. Goods in kind (clothing, food and other things)	1 2		1 2

2. During the past month, how much in total did you received from this economic activity, including all forms of income or allowances? In which currency?

This question is asked Only if "Don't know breakdown" is selected from any of the items in Q1.

 MVR / USD

15. INTERVIEWER: Is this a fishing-related activity, i.e. catching trapping, collecting or processing fish or other sea products?

Consider any type of catching, trapping, collecting or processing of fish or other sea animals.

1. Yes

2. No Skip to Q17

15.1 In the past 12 months, what types of fishery did you do?

Probe and RANK all that applies in order of priority starting with the type done most.

1. Pole and line fishery

2. Hand-line (yellow fin tuna) fishery

3. Long-line fishery

LEAVE

Type of leave	Are you entitled to this leave? 1. Yes 2. No 3. Don't Know	How many days are you entitled to? -99.. Don't Know	Is this leave paid? 1. Yes 2. No 3. Don't Know
Annual leave	1 2 3	Days per year	1 2 3
Maternity / Paternity leave	1 2 3	Day Per birth in Month	1 2 3
Sick Leave	1 2 3	Whenever sick / No specific number of days Days per year	1 2 3

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1. BUSINESS			
1. During the past month of operation how many persons were engaged in that activity? 1. 4 or fewer 2. Between 5 and 9 3. 10 or more			
2. Of the persons who were engaged in the activity during the past month of operation, how many were...?			
	Total	Male	Female
1. Local	□ □ □ □	□ □ □ □	□ □ □ □
2. Foreign	□ □ □ □	□ □ □ □	□ □ □ □
3. Out of the total number of people who were engaged in the activity during the last month of operation, how many are paid workers? ☐ worker(s)			
4. During the past month of operation, how much revenue was generated from that activity? If they were not paid yet for last month of operation, record the agreed amount they will receive per month. If a lump sum amount is received, estimate the amount you will receive per month on average.			
□ □ □ □ □ □ □ □ in MVR			
5. During the past month of operation, how much of the following expenses were incurred for that economic activity, excluding personal expenses?			
Expenses (Item)	(1)	(2)	Amount (MVR)
		(2)	(3)
1. Wages & Salaries (include in kind)	1	2	
2. Rent of the establishment	1	2	
3. Fuel (petrol and alike)	1	2	
4. Raw materials	1	2	
5. Electricity	1	2	
6. Goods purchased to sell (only for trade)	1	2	
7. Other expenses (please specify)	1	2	
7.1.	1	2	
7.2.	1	2	

6. During the past month of operation, how much income or profit did you personally make from that activity / business? In MVR record the amount they personally received from the activity after paying all expenses. Estimate the amount for in-kind.									
□ □ □ □ □ □ □ □ in MVR									
2. EMPLOYED									
1. With reference to the work you did in the past 7 days, were you employed on the basis of a written or oral contract? 1. A Written contract 2. An Oral contract 3. No Agreement Skip to Q4 } Skip to Q4									
2. Does your contract have a defined period of employment, and if so for how long? 1. Less than 3 months 2. 3 months to 1 year 3. More than 1 year 4. No specific period Skip to Q4 } Skip to Q4									
Specify number of years □ □ years									
3. Does your employer contribute to Pension Scheme? 1. Yes 2. No 3. Don't know } Skip to Q4									
4. Does your employer contribute to Health Insurance Scheme? Asandha not included. 1. Yes 2. No 3. Don't know } Skip to Q4									

F6B. OTHER INCOME GENERATING ACTIVITIES

1. Apart from the primary and secondary occupations, did you carry out any other income generating activity during the past 7 days?

1. Yes
2. No ☒ Skip to Q7

2. How many hours in total did you spend on all other income generating activities during the past 7 days? (Excluding primary and secondary activities)

 hours

3. Apart from the primary and secondary occupations, how much income did you receive from any other job during the past month?

Income (Item)	Income received 1. Yes 2. No ☒ skip to next item	Amount received during past 4 weeks (MVR)
(1)	(2)	(3)
1. Wages and salaries/ including service/food allowances and alike as well as goods and services in kind)	1 2	
2. Profit earned by you from operating the business	1 2	

7. In the past 7 days, would you like to work more hours than he/she actually worked, provided the extra hours had been paid?

1. Yes
2. No ☒ Skip to F6C

8. Did you have time to work extra hours during the past 7 days?

1. Yes
2. No ☒ Skip to F6C

9. How many additional hours could you have worked in the past 7 days?

 hours

F6C OTHER INCOME

1. During the past month have you received any income from the following sources?

(Item)	Did you receive 1. Yes 2. No ☒ skip to next item	How much did you receive? (MVR)
(1)	(2)	(3)
1. Income from rent of goods	1 2	
2. Income from rent of buildings	1 2	
3. Income from rent of land	1 2	
4. Single parent allowance - parent	1 2	
5. Single parent allowance - children	1 2	
6. Foster parent allowance - parent	1 2	
7. Foster parent allowance - children	1 2	
8. Pension	1 2	
9. Assistance from family or friends in Maldives, non-household members	1 2	
10. Assistance from family or friends Abroad	1 2	
11. Any other sources, excluding money from household members (specify)	1 2	

2. During the past 12 months, have you received any income from interest, dividends, and share sales?

Income	Income received 1. Yes 2. No ☒ Skip to Q3	Amount received during past 12 months (MVR)
(1)	(2)	(3)
1. Income from interest, dividends, and share sales	1 2	

3. Do you normally pool your income with other members of this household activities such as paying bills, purchasing food, etc?

1. Yes
2. No

4. During the past 12 months, have you caught, trapped, collected or processed any fish or seafood for sale or to earn an income?

(Asked only if Primary and Secondary occupation is not fishing related)

1. Yes - Fish catch ☒ Skip to F6D
2. Yes - Fish processing (dried, smoked, salted fish or product or sea cucumber or fish paste) ☒ Skip to Q6
3. No ☒ Skip to next form

F7: CONSUMPTION

 National Bureau of Statistics Ministry of National Planning, Housing and Infrastructure Household Income and Expenditure Survey 2019 IDENTIFICATION Consumption Form 7 Confidentiality: The use of the information obtained from this survey on individual's or specific household's in manner that will disclose the identity of any person or institution is prohibited. the information obtained will be published to represent the whole population.	
1. Atoll and island (Ward for Male'): 2. Block Number: 3. Name of the unit: 4. Serial number of household: 5. Name of the respondent and person number:..... 6. Contact number of the respondent:	
Survey Date: / /	
Q1. In the past 7 days, has any member of this household consumed or purchased any food or drinks at home? 1. Yes 2. No (End)	

Q2. During the past 7 days, did any member of this household consume or purchase any of the following food items?

Item Code	Item Name	Consumption in the past 7 days				Purchased in the past 7 days				Item Name
		During the past 7 days, did any HH member consume (ITEM)?		What was the quantity of (ITEM) consumed in the last 7 days?		During the past 7 days did any members of this household purchase (Item)?		What was the quantity of (ITEM) purchased during the last 7 days?		
		1. Yes 2. No  skip to Col. 7	QTY	Select code from the list below		1. Yes 2. No  skip to next item	QTY	Select code from the list below		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Pastry & Cereals	1. Yes 2. No  skip to Col. 7								
201	Ready-made Cakes (packet/box)	1 2				1 2				Ready-made Cakes (packet/box)
202	Cake mix packet	1 2				1 2				Cake mix packet
203	Any other pastry (specify)	1 2				1 2				Any other pastry (specify)
204	Wheat flour	1 2				1 2				Wheat flour
205	Whole wheat flour /Rice flour	1 2				1 2				Whole wheat flour /Rice flour
207	Frozen Paratta/Roshti	1 2				1 2				Frozen Paratta/Roshti
206	Corn flakes, Chocos, Oats (eg: oatmeal) Other Cereals	1 2				1 2				Corn flakes, Chocos, Oats (eg: oatmeal) Other Cereals
208	Any other cereal (specify)	1 2				1 2				Any other cereal (specify)
	Meat	1. Yes 2. No  skip to Col. 7				1 2				
301	Sausage	1 2				1 2				Sausage
302	Fresh/Frozen chicken	1 2				1 2				Fresh/Frozen chicken
303	Frozen beef	1 2				1 2				Frozen beef

Unit Codes:		Size Codes:	
1. Gram	9. Gandu	17. Cup	25. Cubes / Cut Piece
2. Kilogram	10. Single Packet	18. Bowl	26. Tin / Dabbiya
3. Millilitre	11. Multi Packet	19. Slice / Fothi	27. Tin
4. Litre	12. Packet/Box	20. Cube / Triange	28. Dhalhu / Can
5. Packet	13. Whole Chicken	21. Bondi / Bulb	29. Tea bag
6. Tea spoon	14. Bag	22. Lonumedh / Clove	30. Box / Foshi
7. Table spoon	15. Laahi	23. Single Piece / Ethhi	31. Tray of cubes / cut pieces
8. Big spoon	16. Yoghurt cup	24. Whole Fish / Ethhi	32. Tray
		33. Kiba / Half Fish	41. Bundle / Bondi
		34. Bottle	42. Heap
		35. Han	43. Tub
		36. Bottle (500 ml)	44. Pinch / Dash
		37. Naalhi	45. Pill
		38. Bunch / Ari	46. Capsule
		39. Bunch	47. Carton
		40. Leaf / Fatheh	48. Cube / portion
		49. Cup noodles	96. Other (specify)

Q2. During the past 7 days, did any member of this household consume or purchase any of the following food items?										
Item Code	Which type of fresh, frozen tuna or reef fish did your household consume or purchase in the last 7 days?	Consumption in the past 7 days				Purchased in the past 7 days				Item Name
		During the past 7 days, did any HH member consume (ITEM)?	What was the quantity of (ITEM) consumed in the last 7 days?		During the past 7 days did any members of this household purchase (item)?	What was the quantity of (ITEM) purchased during the last 7 days?		How much did you spend for the item during the past 7 days?		
			QTY	Select code from the list below		QTY	Select code from the list below			
		1. Yes 2. No  Col. 7	Unit	Size	1. Yes 2. No  Skip to next item	Unit	Size			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
001	Tuna (fresh/frozen)	1. Yes 2. No  Col. 7								
401	Tuna (fresh/frozen). small fish	1 2				1 2				Tuna (fresh/frozen). small fish
402	Tuna (fresh/frozen). medium fish	1 2				1 2				Tuna (fresh/frozen). medium fish
403	Tuna (fresh/frozen). large fish	1 2				1 2				Tuna (fresh/frozen). large fish
404	Tuna (fresh/frozen). cubes/cut pieces	1 2				1 2				Tuna (fresh/frozen). cubes/cut pieces
002	Reef fish	1. Yes 2. No  Col. 9								
406	Reef fish, small variety - can fit in your cupped hands (i.e. mackerel)	1 2				1 2				Reef fish, small variety - can fit in your cupped hands (i.e. mackerel)
407	Reef fish, medium variety - ranging from the size of your whole hand to your elbow (forearm) (i.e. trigger, parrot fish, grouper, snapper)	1 2				1 2				Reef fish, medium variety - ranging from the size of your whole hand to your elbow (forearm) (i.e. trigger, parrot fish, grouper, snapper)
408	Reef fish, large variety - the size of a full arm (hand to shoulder) or larger (i.e. trevally, sweet lips, parrotfish)	1 2				1 2				Reef fish, large variety - the size of a full arm (hand to shoulder) or larger (i.e. trevally, sweet lips, parrotfish)
409	Reef fish, any variety - chopped / cut pieces	1 2				1 2				Reef fish, any variety - chopped / cut pieces

Unit Codes:									
1. Gram	9. Gando	17. Cup	25. Cubes / Cut Piece	33. Kiba / Half Fish	41. Bundle / Bondi	49. Cup noodles	0. One Size	8. 2kg (medium)	16. Regular (orange)
2. Kilogram	10. Single Packet	18. Bowl	26. Tin / Dabiya	34. Bottle	42. Heap	96. Other (specify)	1. Small	9. 5kg (large)	24. 500ml (small)
3. Millilitre	11. Multi Packet	19. Slice / Fothi	27. Tin	35. Pan	43. Tub		2. Regular	10. Small (less than 1kg)	25. 1.5L (medium)
4. Litre	12. Packet/Box	20. Cube / Triange	28. Dhalhu / Can	36. Bottle (500 ml)	44. Pinch / Dash		3. Medium	11. Medium (1kg - 1.5kg)	26. 5L (large)
5. Packet	13. Whole Chicken	21. Bondi / Bulb	29. Tea bag	37. Naalhi	45. Pill		4. Large	12. 5kg (small)	27. Medium (regular)
6. Tea spoon	14. Bag	22. Lounmedh / Clove	30. Box / Foshi	38. Bunch / Ari	46. Capsule		5. Very Large	13. 10kg (medium)	28. Small (regular)
7. Table spoon	15. Laahi	23. Single Piece / Ethl	31. Tray of cubes / cut pieces	39. Bunch	47. Carton		6. 500g (smaller)	14. 50kg (large)	29. Jumbo
8. Big spoon	16. Yoghurt cup	24. Whole Fish / Ethl	32. Tray	40. Leaf / Fatheh	48. Cube / potion		7. 1kg (small)	15. Small (mandarin)	23. 300ml (smaller)

Q2. During the past 7 days, did any member of this household consume or purchase any of the following food items?

Item Code	Item Name	Consumption in the past 7 days				Purchased in the past 7 days				Item Name	
		During the past 7 days, did any HH member consume (ITEM)?		What was the quantity of (ITEM) consumed in the last 7 days?		During the past 7 days did any members of this household purchase (item)?		What was the quantity of (ITEM) purchased during the last 7 days?			
		1. Yes	2. No  Skip to Col. 7	QTY	Select code from the list below	QTY	Select code from the list below	Unit	Size		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	Fruit	1. Yes 2. No  Skip to Col. 7									
601	Lemons/lime	1 2				1 2					Lemons/lime
602	Oranges/Mandarine	1 2				1 2					Oranges/Mandarine
603	Bananas/Green Bananas /Maahoskeyo	1 2				1 2					Bananas/Green Bananas /Maahoskeyo
604	Apples	1 2				1 2					Apples
605	Mango	1 2				1 2					Mango
606	Grapes	1 2				1 2					Grapes
607	Watermelon/Karaa	1 2				1 2					Watermelon/Karaa
608	Papaya / Falho	1 2				1 2					Papaya / Falho
609	Passionfruit	1 2				1 2					Passionfruit
610	Dates Dried / Unspiced	1 2				1 2					Dates Dried / Unspiced
611	Young coconut, kurumba	1 2				1 2					Young coconut, kurumba
612	Coconut (dry nut), Kaashi	1 2				1 2					Coconut (dry nut), Kaashi
613	Coconut cream	1 2				1 2					Coconut cream

Unit Codes:												Size Codes:											
1. Gram	9. Gandu	17. Cup	25. Cubes / Cut Piece	33. Kiba / Half Fish	41. Bundle / Bondi	49. Cup noodles	0. One Size	8. 2kg (medium)	16. Regular (orange)	24. 500ml (small)													
2. Kilogram	10. Single Packet	18. Bowl	26. Tin / Dabiya	34. Bottle	42. Heap	96. Other (specify)	1. Small	9. 5kg (large)	17. Large (orange)	25. 1.5L (medium)													
3. Millilitre	11. Multi Packet	19. Slice / Fothi	27. Tin	35. Han	43. Tub		2. Regular	10. Small (less than 1kg)	18. Large (575g)	26. 5L (large)													
4. Litre	12. Packet/Box	20. Cube / Triange	28. Dhalhu / Can	36. Bottle (500 ml)	44. Pinch / Dash		3. Medium	11. Medium (1kg - 1.5kg)	19. Very Large (850g)	27. Medium (regular)													
5. Packet	13. Whole Chicken	21. Bulb	29. Tea bag	37. Naalhi	45. Pill		4. Large	12. 5kg (small)	20. Small (6 eggs)	28. Small (regular)													
6. Tea spoon	14. Bag	22. Lonumeth / Clove	30. Box / Foshi	38. Bunch / Ari	46. Capsule		5. Very Large	13. 10kg (medium)	21. Medium (12 eggs)	29. Jumbo													
7. Table spoon	15. Laahi	23. Single Piece / Ethi	31. Tray of cubes / cut pieces	39. Bunch	47. Carton		6. 500g (smaller)	14. 50kg (large)	22. Large (30 eggs)														
8. Big spoon	16. Yoghurt cup	24. Whole Fish / Ethi	32. Tray	40. Leaf / Fatheh	48. Cube / potion		7. 1kg (small)	15. Small (mandarin)	23. 300ml (smaller)														

Q3. During the past 7 days, did any member of this household consume or purchase any of the following food items?

Item Code	Item Name	Consumption in the past 7 days				Purchased in the past 7 days				Item Name	
		During the past 7 days, did any HH member consume (ITEM)? 1. Yes 2. No  Skip to Col. 7	What was the quantity of (ITEM) consumed in the last 7 days?		During the past 7 days did any members of this household purchase (item)? 1. Yes 2. No  Skip to next item	What was the quantity of (ITEM) purchased during the last 7 days?		How much did you spend for the item during the past 7 days?			
			QTY	Select code from the list below		QTY	Select code from the list below				
									Unit		Size
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	Vegetables	1. Yes 2. No  Skip to Col. 7									
710	Egg plant, Bashi	1 2				1 2					Egg plant, Bashi
711	Capsicum/Bell Pepper	1 2				1 2					Capsicum/Bell Pepper
712	Carrot	1 2				1 2					Carrot
713	Garlic	1 2				1 2					Garlic
714	Onion	1 2				1 2					Onion
715	Ginger/Ginger Paste	1 2				1 2					Ginger/Ginger Paste
716	Mugu, Dhal Red, Yellow, Sanaa Mugu	1 2				1 2					Mugu, Dhal Red, Yellow, Sanaa Mugu
717	Baked beans (canned)	1 2				1 2					Baked beans (canned)
718	Tomato paste	1 2				1 2					Tomato paste
719	Canned vegetables	1 2				1 2					Canned vegetables
720	Potatoes	1 2				1 2					Potatoes
721	Sweet Potatoes	1 2				1 2					Sweet Potatoes
722	Taro / Cassava	1 2				1 2					Taro / Cassava

Unit Codes:
1. Gram 9. Gandu 17. Cup 25. Cubes / Cut Piece
2. Kilogram 10. Single Packet 18. Bowl 26. Tin / Dabiya
3. Millilitre 11. Multi Packet 19. Slice / Fothi 27. Tin
4. Litre 12. Packet/Box 20. Cube / Triange 28. Dhalhu / Can
5. Packet 13. Whole Chicken 21. Bond / Bulb 29. Tea bag
6. Tea spoon 14. Bag 22. Lonumedh / clove 30. Box / Foshi
7. Table spoon 15. Laahi 23. Single Piece / Ethi 31. Tray of cubes / cut pieces
8. Big spoon 16. Yoghurt cup 24. Whole Fish / Ethi 32. Tray 33. Kiba / Half Fish
34. Bottle 41. Bundle / Bondi 49. Cup noodles
35. Han 42. Heap 96. Other (specify)
36. Bottle (500 ml) 43. Tub
37. Naahi 44. Pinch / Dash
38. Bunch / Ari 45. Pill
39. Bunch 46. Capsule
40. Leaf / Fatteh 47. Carton
48. Cube / potion

Size Codes:
0. One Size 8. 2kg (medium) 16. Regular (orange) 24. 500ml (small)
1. Small 9. 5kg (large) 17. Large (orange) 25. 1.5L (medium)
2. Regular 10. Small (less than 1kg) 18. Large (575g) 26. 5L (large)
3. Medium 11. Medium (1kg - 1.5kg) 19. Very Large (850g) 27. Medium (regular)
4. Large 12. 5kg (small) 20. Small (6 eggs) 28. Small (regular)
5. Very Large 13. 10kg (medium) 21. Medium (12 eggs) 29. Jumbo
6. 500g (smaller) 14. 50kg (large) 22. Large (30 eggs)
7. 1kg (small) 15. Small (mandarin) 23. 300ml (smaller)

Q3. During the past 7 days, did any member of this household consume or purchase any of the following food items?

Item Code

Item Name

During the past 7 days, did any HH member consume (ITEM)?

1. Yes

2. No

Skip to Col. 7

What was the quantity of (ITEM) consumed in the last 7 days?

QTY

Unit

Size

During the past 7 days did any members of this household purchase (item)?

1. Yes

2. No

Skip to next item

What was the quantity of (ITEM) purchased during the last 7 days?

QTY

Unit

Size

How much did you spend for the item during the past 7 days?

Item Name

Consumption in the past 7 days

Purchased in the past 7 days

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

(9)

(10)

(11)

(12)

Sauces & Condiments

Soya sauce/ Oyster Sauce

1

2

1

2

Soya sauce/ Oyster Sauce

901

Tomato sauce/chili sauce
chili & garlic sauce

1

2

1

2

Tomato sauce/chili sauce
chili & garlic sauce

902

Any other sauces (specify)

1

2

1

2

Any other sauces (specify)

903

Salt

1

2

1

2

Salt

904

Curry powder/packed - ready made

1

2

1

2

Curry powder/packed
- ready made

905

Dried Chili / packed - ready made

1

2

1

2

Dried Chili / packed
- ready made

906

Spices of different varieties
(eg. Turmeric / coriander/
cumin / fennel / pepper
/cloves etc..)

1

2

1

2

Spices of different varieties
(eg. Turmeric / coriander/
cumin / fennel / pepper
/cloves etc..)

907

Ajinamota/
Mono sodium glutamate

1

2

1

2

Ajinamota/
Mono sodium glutamate

908

Any other condiments (specify)

1

2

1

2

Any other condiments
(specify)

909

1

2

1

2

1

2

1

2

1

2

1

2

Unit Codes:

1. Gram

2. Kilogram

3. Millilitre

4. Litre

5. Packet

6. Tea spoon

7. Table spoon

8. Big spoon

9. Gandu

10. Single Packet

11. Multi Packet

12. Packet/Box

13. Whole Chicken

14. Bag

15. Laahi

16. Yoghurt cup

17. Cup

18. Bowl

19. Slice / Fothi

20. Cube / Triange

21. Bondi / Bulb

22. Lonumeth / Clove

23. Single Piece / Ethi

24. Whole Fish / Ethi

25. Cubes / Cut Piece

26. Tin / Dabiya

27. Tin

28. Dhalhu / Can

29. Tea bag

30. Box / Foshi

31. Tray of cubes / cut pieces

32. Tray

33. Kiba / Half Fish

34. Bottle

35. Han

36. Bottle (500 ml)

37. Naalhi

38. Bunch / Ari

39. Bunch

40. Leaf / Fatheh

41. Bundle / Bondi

42. Heap

43. Tub

44. Pinch / Dash

45. Pill

46. Capsule

47. Carton

48. Cube / potion

49. Cup noodles

96. Other (specify)

Size Codes:

0. One Size

1. Small

2. Regular

3. Medium

4. Large

5. Very Large

6. 500g (smaller)

7. 1kg (small)

8. 2kg (medium)

9. 5kg (large)

10. Small (less than 1kg)

11. Medium (1kg - 1.5kg)

12. 5kg (small)

13. 10kg (medium)

14. 50kg (large)

15. Small (mandarin)

16. Regular (orange)

17. Large (orange)

18. Large (575g)

19. Very Large (850g)

20. Small (6 eggs)

21. Medium (12 eggs)

22. Large (30 eggs)

23. 300ml (smaller)

24. 500ml (small)

25. 1.5L (medium)

26. 5L (large)

27. Medium (regular)

28. Small (regular)

29. Jumbo

Q3. During the past 7 days, did any member of this household consume or purchase any of the following food items?

[illegible]



Maldives Bureau of Statistics

Ministry of National Planning, Housing & Infrastructure,
Dharul Eman Building (7, 8, 9th Floor),
Majeedhee Magu,
Male 20345,
Republic of Maldives

info@stats.gov.mv

<http://statisticsmaldives.gov.mv>



@statsmaldives



@statsmaldives