Myanmar Information Management Unit



Household Amenities in Myanmar (2014-2019)

Methodology guide - May 2022



Contents

Introduction	2
I. Categories of household amenities	3
I.A. Annual Average Household Income	3
I.B. Housing Unit	3
I.C. External walls	3
I.D. Roof	4
I.E. Floors	4
I.F. Housing Ownership	4
I.G. Information and Communication Devices	5
I.H. Transportation Amenities	5
I.I. Source of Lighting	6
I.J. Type of Cooking Fuel	6
I.K. Location of Cooking Facilities	7
I.L. Drinking Water	7
I.M. Type of Toilet	8
II. Calculation of Estimated number of households and Estimated population	8
II.A. Calculation of Estimated number of households' use of amenities	8
II.B. Calculation of Estimated population' use of amenities	8

Introduction

This MIMU Analytical Brief provides a unique perspective on household conditions in Myanmar by comparing the household amenities data from four sources between 2014 and 2019. The four census/surveys used are:

- > 2014 Population and Housing Census (Data Source: Redatam software (offline version),
- > 2015-16 Myanmar Demographic and Health Survey (Data Source: Myanmar DHS, 2015-16 Report),
- > 2017 Myanmar Living Conditions Survey (Data Source: Key Indicators Report of 2017 MLCS Report) and
- > 2019 Intercensal Survey (Data Source: <u>https://dop.gov.mm/en/data-and-maps-category/main-report-1</u>).

All results presented are from the four national level surveys/census exercises conducted between 2014 and 2019. Because of the difference in methodologies between these sources, they were calibrated to that of the 2019 Intercensal survey to facilitate data comparison.

I. Summary of available categories

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
Annual Average Household Income				\checkmark
Housing Unit	\checkmark			\checkmark
External walls	\checkmark		\checkmark	\checkmark
Roof	\checkmark		\checkmark	\checkmark
Floors	\checkmark	\checkmark	\checkmark	\checkmark
Housing Ownership	\checkmark			\checkmark
Information and Communication Devices	\checkmark	\checkmark		\checkmark
Transportation Amenities	\checkmark	\checkmark	\checkmark	\checkmark
Source of Lighting	\checkmark	\checkmark	\checkmark	\checkmark
Type of Cooking Fuel	\checkmark	 ✓ 		\checkmark
Location of Cooking Facilities		\checkmark		\checkmark
Drinking Water	\checkmark	\checkmark	\checkmark	\checkmark
Type of Toilet	\checkmark	\checkmark	\checkmark	\checkmark

The software used for this Analytical Brief are:

- > Excel for the Data Analysis and
- > Tableau for the Data Visualisations.

Note:

- > All values presented are based on the enumerated population and may not fully reflect non-enumerated groups or certain areas, particularly Rakhine State.
- ➤ "CS 2014" means "2014 Population and Housing Census".
- "MDHS 2015-16" means "2015-16 Myanmar Demographic and Health Survey".
- "MLCS 2017" means "2017 Myanmar Living Conditions Survey" and
- "ICS 2019" means "2019 Intercensal Survey".

I. Categories of household amenities

I.A. Annual Average Household Income

Available Levels:

Data Source	Countrywide			State/Region			District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014												
MDHS 2015-16												
MLCS 2017												
ICS 2019	✓	~	~	✓								

Not Available

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Available Indicators:

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
				500,000 and below
Annual Average				Between 500,000 and 1,500,000
Annual Average	#N/A	#N/A	#N/A	Between 1,500,000 and 3,000,000
Household Income				Between 3,000,000 and 6,000,000
				More than 6,000,000

I.B. Housing Unit

Available Levels:

Data Source	Countrywide		St	State/Region			District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014	✓	~	~	✓	✓	~	✓	✓	~	~	✓	✓
MDHS 2015-16												
MLCS 2017												
ICS 2019	✓	~	~	✓			✓					

Not Available

Available Indicators:

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
	Apartment/ Condominium			Apartment/Condominium
	Bungalow/Brick house			Bungalow/ Brick house
	Semi-pacca house			Semi-pucca house
Housing Unit	Wooden house	#N/A	#N/A	Wooden house
Housing Unit	Bamboo	#IN/A	#N/A	Bamboo house
	Hut 2 - 3 years			Hut (2-3 years)
	Hut 1 year			Hut (1 year)
	Other			Other

I.C. External walls

Available Levels:

Data Source	Countrywide		St	State/Region			District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014	✓	~	~	✓	✓	~	✓	~	~	✓	✓	✓
MDHS 2015-16												
MLCS 2017	✓	~	~	✓								
ICS 2019	✓	~	~	✓			✓					

Not Available

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
	Dhani/Theke/ In leaf		Dhani/Theke/ Palm/In leaf	Dhani/Theke/ Palm/In leaf
	Earth		Earth	Earth
	Bamboo		Bamboo	Bamboo
External Walls	Corrugated sheet	#N/A	Corrugated sheet	Corrugated sheet
	Tile/Brick/ Concrete		Tile/Brick/ Concrete	Tile/Brick/ Concrete
	Wood		Wood	Wood
	Other		Other	Other

I.D. Roof

Available Levels:

Data Source	C	Countrywide			State/Region			District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	
CS 2014	✓	✓	✓	✓	✓	✓	✓	~	~	✓	~	✓	
MDHS 2015-16													
MLCS 2017	✓	✓	✓	✓									
ICS 2019	✓	✓	✓	✓			✓						

Not Available

Available Indicators:

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
	Dhani/Theke/ In leaf		Dhani/theke /in leaf	Dhani/Theke/ Palm/In leaf
	Bamboo		Bamboo	Bamboo
	#N/A		Earth	Earth
Roof	Wood	#N/A	Wood	Wood
	Corrugated sheet		Corrugated sheet	Corrugated sheet
	Tile/Brick/ Concrete		Tile/brick/ Concrete	Tile/brick/ Concrete
	Other		Other	Other

I.E. Floors

Available Levels:

Data Source	C	Countrywide		State/Region			District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MDHS 2015-16	✓	~	~									
MLCS 2017	✓	~	~	✓								
ICS 2019	✓	✓	✓	√			 ✓ 					

Not Available

Available Indicators:

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019		
	Bamboo	Palm/bamboo	Bamboo	Bamboo		
	Earth	Earth/sand	Earth	Earth		
	Wood	Wood planks	Wood	Wood		
	wood	Parquet or polished wood	wood	wood		
Floors	Tile/Brick/ Concrete	Ceramic tiles	Tile/ Brick/ Concrete	Tile/ Brick/ Concrete		
FIDUIS		Cement				
		Other				
	Other	Dung	Other	Other		
	Other	Vinyl or asphalt strips	Other	Other		
		Carpet				

I.F. Housing Ownership

Available Levels:

Data Source	Cour		untrywide		State/Region		District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014	✓	~	✓	✓	~	~	✓	✓	✓	~	~	~
MDHS 2015-16												
MLCS 2017												
ICS 2019	✓	✓	~	~			✓					

Not Available

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019		
	Owner			Owned		
	Denter			Rented (Government)		
	Renter Provided free (individually)			Rented (Private)		
Housing Ownership		#N/A	#N/A	Provided free (Individual)		
	Government Quarters			Provided (Government quarter)		
	Private Company Quarters			Provided (Private company quarter)		
	Other			Other		

I.G. Information and Communication Devices

Available Levels:

Data Source	Countrywide		St	State/Region			District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014	✓	~	~	✓	✓	✓	✓	✓	✓	✓	✓	✓
MDHS 2015-16	✓	✓	✓									
MLCS 2017	✓	~	~	~								
ICS 2019	✓	✓	✓	✓			✓					

Not Available

Available Indicators:

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
	Radio	Radio	#N/A	Radio
	Television	Television	TV	Television set
Information and	Land line phone	Non-mobile telephone	#N/A	Landline/ Fixed-line telephone
	Mobile phone	Mobile telephone	Smart phone	Mobile phone
	Nobile phone		Keypad phone	Mobile phone
Devices	Computer	Computer		Computer
	Internet at home	#N/A	#N/A	Internet access at home (through
	Internet at nome	#N/A		landline or mobile connection)

I.H. Transportation Amenities

Available Levels:

Data Source	Co	Countrywide		St	State/Region			District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	
CS 2014	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~	✓	
MDHS 2015-16	✓	✓	✓										
MLCS 2017	✓	✓	✓	✓									
ICS 2019	✓	✓	~	✓			✓						

Not Available

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
	Car/Truck/ Van	Car/truck	Car	Car/Pickup/ Truck/Van
	Motorcycle/ Moped	Motorcycle/scooter	Motor cycle/ Moped	Motor cycle/ Moped/ Tuk tuk
Transportation	Bicycle	Bicycle	Bicycle	Bicycle
•	4-Wheel tractor	Tuk Tuk/htawlargyi (trailer)		Four-wheel tractor
Amenities	Canoe/ Boat	Boat without a motor	451/5	Canoe/ Boat
	Motor boat	Boat with a motor	#N/A	Motor boat
	Cart (bullock)	Animal drawn cart		Cart(bullock)

I.I. Source of Lighting

Available Levels:

Data Source	Countrywide		St	State/Region			District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014	✓	✓	~	✓	✓	✓	✓	✓	✓	✓	✓	✓
MDHS 2015-16	✓	✓	~									
MLCS 2017	✓	✓	~	✓								
ICS 2019	✓	✓	~	✓			✓					

Not Available

Available Indicators:

Γ

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
			Public grid	Grid elecgtricity (Government grid/
	Electricity	Electricity	Border grid	border country grid/community
			Community grid	based grid)
	Generator (private)		Generator	Generator (Private)
	Solar system/energy		Solar Latern	Solar system energy
Source of lighting	Solar system/energy		Solar System	Solar system energy
	Kerosene	#N/A	Kerosene	Kerosene
	Candle	#N/A	Candle	Candle
	Battery		Battery	Rechargeable bettery
-	Other		Other	Other
	Water mill (private)		other	Wind and water mill

I.J. Type of Cooking Fuel

Available Levels:

Data Source	C	Countrywide		St	State/Region		District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014	✓	~	✓	✓	✓	✓	~	✓	✓	✓	~	✓
MDHS 2015-16	✓	~	~									
MLCS 2017												
ICS 2019	✓	✓	✓	✓			✓					

Not Available

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
	Electricity	Electricity		Grid electricity (Government grid/ border country grid/ community based grid)
	Kerosene	#N/A		Kerosene
	LPG	LPG/natural gas/biogas		LPG
	BioGas	LPG/Hatural gas/blogas		Bio gas
	Firewood	Wood		Firewood
Type of Cooking Fuel	Charcoal	Charcoal	#N/A	Charcoal
	Coal	Coal/lignite		Charcoar
	Straw/Grass	Straw/shrubs/grass		#N/A
				Generator (Prigvate)
	#N/A	#N/A		Solar system energry
				Wind and water mill
	Other	Agricultural crop		Other
	other	Animal dung		Other

I.K. Location of Cooking Facilities

Available Levels:

Data Source	Co	Countrywide		St	State/Region			District			Township		
Data Source	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural	
CS 2014													
MDHS 2015-16	✓	✓	✓										
MLCS 2017													
ICS 2019	✓	~	~	✓			✓						

Not Available

Available Indicators:

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
		In the house		In the house
Location of Cooking	#N/A	In a separate building	#N/A	Separate building
Facilities	#IN/A	Outdoors	#N/A	Outdoors
		No food cooked in household		Other

I.L. Drinking Water

Available Levels:

Data Causa	C	Countrywide			State/Region		District			Township		
Data Source	Union	Union Urban Rural		Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014	✓	✓	✓	✓	✓	✓	~	✓	✓	~	~	~
MDHS 2015-16	✓	✓	✓	✓	✓	✓						
MLCS 2017	✓	✓	✓	✓								
ICS 2019	✓	✓	√	✓	✓	✓	✓	✓	√			

Not Available

Available Indicators:

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019
		Piped into dwelling/yard plot	Water piped into dwelling	Piped into dwelling
	Tap water/ Piped	Piped into dwelling/yard plot	Water pipe inside compound	Piped into compound, yard or plot
	Tap water/ Pipeu	#N/A	Water pipe outside compound	Piped to neighbour
		Public tap/standpipe	#N/A	Public tap / standpipe
Immerculad	Protected dug well Prot		Borehole or tubewell	
Improved	Drotostad wall / Spring	Protected dug well	Protected well/ Spring	Protected well
	Protected well/ Spring	Protected spring	Protected weny spring	Protected spring
	Waterfall/ Rain water	Rain water	Rainwater collection/ tank	Rainwater collection
	Bottled water/ Water purifier	Bottled water	Bottled water	Home water purifier/ filter/Package
	Bottled water/ water purifier	Bottled water	Bottled water	water
	Upprotected well (Spring	Unprotected dug well	Upprotected well/Caring	Unprotected well
	Unprotected well/Spring	Unprotected spring	Unprotected well/Spring	Unprotected spring
Unimproved	Tanker/ Truck	Tanker truck	Tanker/truck	Tanker truck
	#N/A	Cart with small tank/ drum	#N/A	Cart with small tank/ drum
	Other	Other	Other	Other
	De al (De a d (Laka	Surface water	Pool/pound/lake/dam/stagnant	
Surface	Pool/Pond/ Lake		water	Surface water (river, stream, dam,
Surface	River/stream/ canal		River/stream/canal	lake, pond, canal, irrigation channel)

Note: Unimproved indicator is different from drinking water from unimproved sources. This latter contains both:

- > Drinking water from unimproved sources (well/spring) and
- > Surface.

I.M. Type of Toilet

Available Levels:

Data Source	Countrywide			State/Region			District			Township		
Data Source	Union Ur		Rural	Union	Urban	Rural	Union	Urban	Rural	Union	Urban	Rural
CS 2014	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MDHS 2015-16	✓	✓	✓									
MLCS 2017	✓	~	~	~								
ICS 2019	✓	✓	✓	✓	✓	✓						

Not Available

Available Indicators:

Household Amenities	CS 2014	MDHS 2015-16	MLCS 2017	ICS 2019	
Open Defecation	No Toilet	No facility/bush/field	No facilities (open defecation in	Open defecation (no facility, bush,	
Open Delecation	No Tollet	No facility/bush/field	bush field)	field)	
		Flush/pour flush to piped sewer	Flush to piped sewer system	Flush to piped sewer system	
	Flush	Flush/pour flush to septic tank	Flush to septic tank	Flush to septic tank	
		Flush/pour flush to pit latrine	Flush to pit latrine	Flush to pit latrine	
Improved	#N/A	Composting toilet	Composting toilet		
	Water seal (Improved pit latrine)	#N/A	#N/A		
	#N/A	Ventilated improved pit (VIP) latrine	Ventilated improved pit latrine	Ventilated improved pit latrine	
	Pit (Traditional pit latrine)	Pit latrine with slab	Pit latrine with slab	Pit latrine with slab	
	Bucket (Surface latrine)	#N/A	#N/A	Flush to open drain	
		Flush/pour flush not to sewer/septic	#N/A	#N/A	
		Pit latrine without slab/open pit	Open Pit latrine	Pit latrine without slab/ Open pit	
Unimproved	#N/A	Bucket	#N/A	Container based sanitation	
		Hanging toilet/hanging latrine	Hanging Toilet	Hanging toilet/ hanging latrine	
		#N/A	Flush to else where	Flush to dont know where	
	Other	Other	Other	Other	

Note: Basic and limitation sanitation services were only available in the 2019 Intercensal Survey

II. Calculation of Estimated number of Households and Estimated population

II.A. Calculation of Estimated number of households' use of amenities

The 2019 Intercensal provided the *Percentage of households' use of amenities*. The *Estimated number of households* was calculated by multiplying the *Number of households in the geographical area* with *Percentage of households' use of amenities*.

Estimated number of households' use of amenities	=	Number of households in the geographical	х	Percentage of households' use of amenities
		area		

II.B. Calculation of Estimated population' use of amenities

First, it is important to calculate the *Number of people per Households*. To obtain it, for each geographical area (state/region, district and township levels), the *Population* was divided to the *Number of Households*.

Number of people per Households =	Population	
Number of people per nousenous -	Number of Households	

MIMU used:

- > 2014 Population and Housing Census for the years 2014, 2015-16 and 2017,
- > 2019 Intercensal Survey for the year 2019.

Finally, the *Estimated population's use of amenities* was calculated by multiplying the *Estimated number of households' use of amenities* with *Number of people per Households*.

Estimated population's use of amenities	=	Estimated number of households' use of	x	Number of people per Households
		amenities		