WSS/JMP

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WHO/UNICEF Joint Monitoring Program: Water Supply and Sanitation

The water and sanitation series is developed using data from the WHO/UNICEF Joint Monitoring Program for water supply and sanitation (JMP). The JMP reports country, regional and global estimates of progress on drinking water, sanitation and hygiene (WASH) since 2000.

The WSS JMP dataset provides substantial information on water, sanitation and hygiene, broken into national, urban and rural subgroups. Within these subgroups, global estimates are provided that show the proportion of a country's population using improved and unimproved access to water, sanitation and hygiene. For the water dataset, IFs draws primarily on..... For the sanitation dataset, IFs uses the sanitation estimates to break the data down into the proportion of population (%) and the amount of people within a population. To construct these data series, IFs draws primarily on the population served with improved sanitation, unimproved sanitation, other unimproved sanitation, shared sanitation, and open defication sanitation.

The most recent update was in Sept. 2024. There are 8 preprocessors and 100 non-preprocessors.

Instructions on Downloading data

- 1. Go to https://washdata.org/data/downloads#WLD
- 2. Click "World file" under "Household" to download all the data.

	ए Household	Mi School	-w∳ Health Care Facilities
World	World file	World file	World file

3. Open the downloaded file. "Enable Editing". Hover the mouse to the tab and right-click.

The file will show several options:

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4. Click "Unhide", and a view will pop up.

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- 5. Press "ctrl" and select "wat" and "san". Click "OK".
- 6. In these 2 tabs, you may find the columns we will use in "Code in Source" listed below.

Instructions on Importing Water Data into IFs

This section explains the methodology to be followed when importing WSS JMP water supply data into IFs. It also describes certain problems that a user might face in interpreting and understanding the data.

Source: Water supply data is published by the WHO/UNICEF JMP. The data is available at the website https://washdata.org/data/downloads#WLD

Country List to be Used: WSS JMP

Ladder and Related code in downloaded data:

TAB Ladder	Ladder(Code)
wat AtLeastBasic	basal
wat Basic	basal - sm
wat Improved	basal + lim
wat Limited	lim
wat OtherUnimproved	d unimp
wat Piped	pip
wat SafelyManaged	sm
wat SMAsNeeded	imp_av
wat SMNotContam	imp_qual
wat SMOnPremise	imp_prem
wat Surface	ns
wat OtherImproved	imp_npip
wat Unimproved	100 - Improved - ns

Types of Data: The following categories of data need to be imported into IFs:

- Can be directly found
 - Units is "Percent" 30 in total

TAB Residence Type	Ladder	Variable	Definition	Extended Source Defn	Units Code in Source	UsedInPreprocessor UsedInPreprocessorFileNan
wat rural			Proportion of Rural population served with		Percent wat_basal_r	0
wat total wat urban		WSSIMPWaterI Irban%Atl eastBasic	Proportion of Total population served with Proportion of Urban population served with	at least basic drinking water (%)	Percent wat_basal_t Percent wat_basal_u	0 0
wat rural	Limited	WSSJMPWaterRural%Limited	Proportion of Rural population served with limited drinking water (%)	Drinking water from an improved source for which collection time exceeds 30 minutes for a roundtrip including queuing	Percent wat_lim_r	0
wat total	Limited		limited drinking water (%)	Drinking water from an improved source for which collection time exceeds 30 minutes for a roundtrip including queuing	Percent wat_lim_t	0
wat urban	Limited	WSSJMPWaterUrban%Limited		Drinking water from an improved source for which collection time exceeds 30 minutes for a roundtrip including queuing	Percent wat_lim_u	0
wat rural	OtherUnimproved	WSSJMPWaterRural%OtherUnimproved	Unimproved Water (%)	Unprotected dug well, unprotected spring, cart with small tank/drum, tanker truck, bottled water (Bottled water is considered 'improved' for drinking only when the household used an improved source for cooking and personal hygiene)	Percent wat_unimp_r	0
wat total	OtherUnimproved	WSSJMPWaterTotal%OtherUnimproved	Proportion of Total population with Other Unimproved Water (%)	Unprotected dug well, unprotected spring, cart with small tank/drum, tanker truck, bottled water (Bottled water is considered 'improved' for drinking only when the household used an improved source for cooking and personal hygiene)	Percent wat_unimp_t	1 ECONOMY, INFRASTRUCTU
wat urban	OtherUnimproved	WSSJMPWaterUrban%OtherUnimproved	Proportion of Urban population with Other Unimproved Water (%)	Unprotected dug well, unprotected spring, cart with small tank/drum, tanker truck, bottled water (Bottled water is considered 'improved' for drinking only when the household used an improved source for cooking and personal hygiene)	Percent wat_unimp_u	0
wat rural	Piped	WSSJMPWaterRural%Piped	Piped Water (%)	user's dwelling, plot or yard	Percent wat_pip_r	0
wat total	Piped	WSSJMPWaterTotal%Piped	Piped Water (%)	Piped household water connection located inside the user's dwelling, plot or yard	Percent wat_pip_t	1 INFRASTRUCTURE
wat urban	Piped	WSSJMPWaterUrban%Piped	Piped Water (%)	Piped household water connection located inside the user's dwelling, plot or yard	Percent wat_pip_u	0
wat rural	SafelyManaged		safely managed drinking water (%)	From an improved water source that is accessible on premises, available when needed and free from faecal and priority chemical contamination	Percent wat_sm_r	0
wat total	SafelyManaged		safely managed drinking water (%)	From an improved water source that is accessible on premises, available when needed and free from faecal and priority chemical contamination	Percent wat_sm_t	0
wat urban	SafelyManaged	WSSJMPWaterUrban%SafelyManaged	Proportion of Urban population served with safely managed drinking water (%)	From an improved water source that is accessible on premises, available when needed and free from faecal and priority chemical contamination	Percent wat_sm_u	0
wat rural	SMAsNeeded	WSSJMPWaterRural%SMAsNeeded	Proportion of Rural population served with available when needed improved drinking water (%)	From an improved water source that is vailable when needed	Percent wat_imp_av_r	0
wat total	SMAsNeeded	WSSJMPWaterTotal%SMAsNeeded	water (%)	From an improved water source that is vailable when needed	Percent wat_imp_av_t	0
wat urban	SMAsNeeded	WSSJMPWaterUrban%SMAsNeeded	Proportion of Urban population served with available when needed improved drinking water (%)	From an improved water source that is vailable when needed	Percent wat_imp_av_u	0
wat rural	SMNotContam	WSSJMPWaterRural%SMNotContam	Proportion of Rural population served with free from contamination improved drinking water (%)	From an improved water source that is free from faecal and priority chemical contamination	Percent wat_imp_qual_r	0
wat total	SMNotContam	WSSJMPWaterTotal%SMNotContam	drinking water (%)	From an improved water source that is free from faecal and priority chemical contamination	Percent wat_imp_qual_t	0
wat urban	SMNotContam		drinking water (%)	From an improved water source that is free from faecal and priority chemical contamination	Percent wat_imp_qual_u	0
wat rural	SMOnPremise		Proportion of Rural population served with accessible on premises improved drinking water (%)	From an improved water source that is accessible on premises	Percent wat_imp_prem_r	r 0
wat total	SMOnPremise	WSSJMPWaterTotal%SMOnPremise	water (%)	From an improved water source that is accessible on premises	Percent wat_imp_prem_t	t 0
wat urban	SMOnPremise	WSSJMPWaterUrban%SMOnPremise	Proportion of Urban population served with accessible on premises improved drinking water (%)	From an improved water source that is accessible on premises	Percent wat_imp_prem_u	u O
wat rural	Surface	wssjiir water kurai /65urrace	surface drinking water (%)	Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation canal	Percent wat_ns_r	0
wat total	Surface	WSSIMDWaterTetal%Surface	Proportion of Total population served with	Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation canal	Percent wat_ns_t	1 ECONOMY, INFRASTRUCTU
wat urban	Surface	WSSJMPWaterUrban%Surface	surface drinking water (%)	Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation canal	Percent wat_ns_u	0
wat rural	OtherImproved		Other Improved Water (9)	Public taps or standpipes, tube wells or boreholes, protected dug wells, protected springs, rainwater collection	Percent wat_imp_npip_r	0
wat total	OtherImproved		Proportion of Total population served with	Public taps or standpipes, tube wells or boreholes, protected dug wells, protected springs, rainwater collection	Percent wat_imp_npip_t	1 INFRASTRUCTURE
wat urban	OtherImproved	WSSJMPWaterUrban%OtherImproved		Public taps or standpipes, tube wells or boreholes, protected dug wells, protected springs, rainwater collection	Percent wat_imp_npip_u	0

• Units is "Thousands" - 12 in total

TAB Residence Type	Ladder	Variable	Definition	Extended Source Defn	Units C	ode in Source	UsedInPreprocessor UsedInPreprocessorFileName	e Formula	a Pop
	OtherImproved	WSSJMPWaterRuralPopOtherImproved	Rural population served with Other Improved Water	Public taps or standpipes, tube wells or boreholes, protected dug wells, protected springs, rainwater collection		vat_imp_npip_r	0	/100	*(100-prop_u)/100*pop_t
wat total	OtherImproved	WSSJMPWaterTotalPopOtherImproved	Total population served with Other Improved Water	Public taps or standpipes, tube wells or boreholes, protected dug wells, protected springs, rainwater collection		vat_imp_npip_t	0	/100	*pop_t
wat urban	OtherImproved	WSSJMPWaterUrbanPopOtherImproved	Urban population served with Other Improved Water	collection		vat_imp_npip_u	0	/100	*prop_u/100*pop_t
wat rural	OtherUnimproved	WSSJMPWaterRuralPopOtherUnimproved	Rural population with Other Unimproved Water	Unprotected dug well, unprotected spring, cart with small tank/drum, tanker truck, bottled water (Bottled water is considered 'improved' for drinking only when the household used an improved source for cooking and personal hygiene)		vat_unimp_r	0	/100	*(100-prop_u)/100*pop_t
wat total	OtherUnimproved	WSSJMPWaterTotalPopOtherUnimproved	Total population with Other Unimproved Water	Unprotected dug well, unprotected spring, cart with small tank/drum, tanker truck, bottled water (Bottled water is considered 'improved' for drinking only when the household used an improved source for cooking and personal hygiene)		vat_unimp_t	0	/100	*pop_t
wat urban	OtherUnimproved	IWSSJMPWaterUrbanPopOtherUnimprovec	Urban population with Other Unimproved Water	Unprotected dug well, unprotected spring, cart with small tank/drum, tanker truck, bottled water (Bottled water is considered 'improved' for drinking only when the household used an improved source for cooking and personal hygiene)		vat_unimp_u	0	/100	*prop_u/100*pop_t
wat rural	Piped	WSSJMPWaterRuralPopPiped	Rural population served with Piped Water	Piped household water connection located inside the user's dwelling, plot or yard	Thousands w	vat_pip_r	0	/100	*(100-prop_u)/100*pop_t
wat total	Piped	WSSJMPWaterTotalPopPiped	Total population served with Piped Water	Piped household water connection located inside the user's dwelling, plot or yard	Thousands w	vat_pip_t	0	/100	*pop_t
wat urban	Piped	WSSJMPWaterUrbanPopPiped	Urban population served with Piped Water	Piped household water connection located inside the user's dwelling, plot or yard	Thousands w	vat_pip_u	0	/100	*prop_u/100*pop_t
wat rural	Surface	WSSJMPWaterRuralPopSurface	Rural population with Surface Water	River, dam, lake, pond, stream, canal, irrigation channels.	Thousands w	vat_ns_r	0	/100	*(100-prop_u)/100*pop_t
wat total	Surface	WSSJMPWaterTotalPopSurface	Total population with Surface Water	River, dam, lake, pond, stream, canal, irrigation channels.	Thousands w	vat_ns_t	0	/100	*pop_t
wat urban	Surface	WSSJMPWaterUrbanPopSurface	Urban population with Surface Water	River, dam, lake, pond, stream, canal, irrigation channels.	Thousands w	vat_ns_u	0	/100	*prop_u/100*pop_t

- Need Calculation

• Units is 'Percent" - 9 in total

TAB Residence Type	Ladder	Variable	Definition	Extended Source Defn Drinking water	Units	Code in Source	UsedInPreprocessor UsedInPreprocessorFileName
wat rural	Basic	WSSJMPWaterRural%Basic	Proportion of Rural population served with basic but not safely managed drinking water (%)	from an improved source, provided collection time is not more than 30 minutes for a roundtrip including queuing	Percent	wat_basal_r - wat_sm_r	0
wat total	Basic	WSSJMPWaterTotal%Basic	Proportion of total population served with basic but not safely managed drinking water (%)	Drinking water from an improved source, provided collection time is not more than 30 minutes for a roundtrip including queuing	Percent	wat_basal_t - wat_sm_t	0
wat urban	Basic	WSSJMPWaterUrban%Basic	Proportion of Urban population served with basic but not safely managed drinking water (%)	Drinking water from an improved source, provided collection time is not more than 30 minutes for a roundtrip including queuing	Percent	wat_basal_u - wat_sm_u	0
wat rural	Improved	WSSJMPWaterRural%Improved	Proportion of Rural population served with Improved Water (%)	Piped water on premises/other improved drinking water	Percent	wat_basal_r + wat_lim_r	0
wat total	Improved	WSSJMPWaterTotal%Improved	Improved Water (%)	Piped water on premises/other improved drinking water		wat_basal_t + wat_lim_t	0
wat urban	Improved	WSSJMPWaterUrban%Improved	Improved Water (%)	Piped water on premises/other improved drinking water	Percent	wat_basal_u + wat_lim_u	0
wat rural	Unimproved		Proportion of Rural population served with unimproved drinking water (%)	Drinking water from an unprotected dug well or unprotected spring	Percent	100 - _(wat_basal_r + wat_lim_r) - wat_ns_r	0
wat total	Unimproved		Proportion of Total population served with unimproved drinking water (%)	Drinking water from an unprotected dug well or unprotected spring	Percent	100 - _(wat_basal_t + wat_lim_t) - wat_ns_t	0
wat urban	Unimproved	WSSJMPWaterUrban%Unimproved	Proportion of Urban population served with unimproved drinking water (%)	Drinking water from an unprotected dug well or unprotected spring	Percent	100 - (wat_basal_u :+ wat_lim_u) - wat_ns_u	0

• Units is "Thousands" - 6 in total

Ladder	Variable	Definition	Extended Source Defn	Units	Code in Source	UsedInPreprocessor UsedInPreprocessorFileName	Formula	Рор
Improved		Rural population served with Improved Water	Piped water on premises/other improved drinking water	Thousands	wat_basal_r + wat_lim_r	0	/100	*(100-prop_u)/100*pop_t
Improved	WSSJMPWaterTotalPopImproved	Total population served with Improved Water	Piped water on premises/other improved drinking water	Thousands	wat_basal_t + wat_lim_t	0	/100	*pop_t
Improved	WSSJMPWaterUrbanPopImproved	Urban population served with Improved Water	Piped water on premises/other improved drinking water	Thousands	wat_basal_u + wat_lim_u	0	/100	*prop_u/100*pop_t
Unimproved		served with	Unimproved drinking water sources/surface drinking water sources	Thousands	100 - _(wat_basal_r ' + wat_lim_r) - wat_ns_r	0	/100	*(100-prop_u)/100*pop_t
Unimproved	d WSSJMPWaterTotalPopUnimproved	served with	Unimproved drinking water sources/surface drinking water sources	Thousands	100 - (wat_basal_t + wat_lim_t) - wat_ns_t	0	/100	*pop_t
Unimprovec	d WSSJMPWaterUrbanPopUnimproved	served with	Unimproved drinking water sources/surface drinking water sources	Thousands	100 - (wat_basal_u + wat_lim_u) - wat_ns_u	0	/100	*prop_u/100*pop_t

Notes:

- 1. Any Pop series cannot be directly found in the excel. Thus, we need to manually calculated.
- 2. pop_t is total population in thousands.
- 3. prop_u is the percentage of urban population in total population.
- 4. 100 prop_u is the percentage of rural population in total population.
- 5. Except pop_t, the rest of data we will use is in "Percent". To do the calculation for "Pop" series, we need to /100 first to convert the percent to decimal.
- 6. wat_bas changed to wat_basal.
- 7. wat_sur changed to wat_ns.
- 8. Calculated Ladders:
 - 1. Basic = At least basic + Safely managed
 - 2. Improved = At least basic + Limited = Piped + Non-piped
 - 3. Unimproved = 100 Improved Surface

Instructions on Importing Sanitation Data into IFs

This section explains the methodology to be followed when importing WSS JMP sanitation data into IFs. It also describes certain problems that a user might face in interpreting and understanding the data.

Source: Sanitation data is published by the WHO/UNICEF JMP. The data is available at the website https://washdata.org/data/household#!/table?geo0=region&geo1=sdg.

Country List to be Used: WSS JMP

Ladder and Related code in downloaded data:

TAB Ladder	Ladder(Code)
san AtLeastBasic	basal
san Basic	basal - sm
san Improved	basal + lim
san Limited	lim
san OpenDefecation	ns
san OtherUnimproved	unimp
san SafelyManaged	sm
san Shared	lim
san SMDisposedInsitu	sdo_sm
san SMEmpTreated	fst_sm
san SMWastewaterTreated	d sew_sm
san Unimproved	100 - Improved - ns

Types of Data: The following categories of data need to be imported into IFs:

- 1. **WSSJMPSanitationTotal%Improved** Describes the proportion of the total population served with improved sanitation (%). Sum of National Latrines, Septic Tanks, Sewer Connections.
- 2. **WSSJMPSanitationTotal%Unimproved** Describes the proportion of the total population served with Unimproved Sanitation (%). Total Unimproved Sanitation is the sum of Open Defecation, Other Unimproved, and Shared sanitation access.
- 3. **WSSJMPSanitationTotal%OtherUnimproved** Describes the proportion of the total population with Other Unimproved Sanitation (%). National Unimproved
- 4. **WSSJMPSanitationTotal%Shared-** Describes the proportion of the total population served with Shared Sanitation (%). National Limited (shared)
- 5. **WSSJMPSanitationTotal%OpenDefecation** Describes the proportion of the total population served with Open Defecation Sanitation (%). National Open Defecation
- 6. **WSSJMPSanitationUrban%Improved-** Describes the proportion of the urban population served with Improved Sanitation (%). Sum of National Latrines, Septic Tanks, Sewer Connections.
- 7. **WSSJMPSanitationUrban%Unimproved-** Describes the proportion of the urban population served with Unimproved Sanitation (%). Urban Unimproved Sanitation is the sum of Open Defecation, Other Unimproved, and Shared sanitation access.
- 8. **WSSJMPSanitationUrban%OtherUnimproved-** Describes the proportion of the urban population with Other Unimproved Sanitation (%). National Unimproved
- 9. **WSSJMPSanitationUrban%Shared-** Describes the proportion of the urban population served with Shared Sanitation (%). National Limited (shared)
- 10. **WSSJMPSanitationUrban%OpenDefecation-** Describes the proportion of the urban population served with Open Defecation Sanitation (%). National Open Defecation
- 11. **WSSJMPSanitationRural%Improved-** Describes the proportion of the rural population served with Improved Sanitation (%). Sum of National Latrines, Septic Tanks, Sewer Connections.
- 12. **WSSJMPSanitationRural%Unimproved-** Describes the proportion of the rural population served with Unimproved Sanitation (%). Rural Unimproved Sanitation is the sum of Open Defecation, Other Unimproved, and Shared sanitation access.

- 13. **WSSJMPSanitationRural%OtherUnimproved-** Describes the proportion of the rural population with Other Unimproved Sanitation (%). National Unimproved
- 14. **WSSJMPSanitationRural%Shared-** Describes the proportion of the rural population served with Shared Sanitation (%). National Limited (shared)
- 15. **WSSJMPSanitationRural%OpenDefecation-** Describes the proportion of the rural population served with Open Defecation Sanitation (%). National Open Defecation
- WSSJMPSanitationTotalPopImproved-Improved Sanitation. Calculated by the population*(Sum of Latrines, Septic Tanks, Sewer Connections/100).
- 17. **WSSJMPSanitationTotalPopUnimproved-** Describes the total population served with Unimproved Sanitation. Total Unimproved Sanitation is the sum of Open Defecation, Other Unimproved, and Shared sanitation access.
- 18. **WSSJMPSanitationTotalPopOtherUnimproved-** Describes the total population with Other Unimproved Sanitation. Calculated by the population*(National Unimproved/100).
- <u>WSSJMPSanitationTotalPopShared-</u> Describes the total population served with Shared Sanitation. Calculated by the population*(National Limited (shared)/100).
- WSSJMPSanitationTotalPopOpenDefecation- Describes the total population served with Open Defecation Sanitation. Calculated by the population*(National Open Defecation/100)
- WSSJMPSanitationUrbanPopImproved- Describes the urban population served with Improved Sanitation. Calculated by the population*(Urban Pop/100)*(Sum of Latrines, Septic Tanks, Sewer Connections/100)
- 22. **WSSJMPSanitationUrbanPopUnimproved-** Describes the urban population served with Unimproved Sanitation. Urban Unimproved Sanitation is the sum of Open Defecation, Other Unimproved, and Shared sanitation access.
- WSSJMPSanitationUrbanPopOtherUnimproved- Describes the urban population with Other Unimproved Sanitation. Calculated by the population*(Urban Pop/100)*(Urban Unimproved).
- 24. **WSSJMPSanitationUrbanPopShared-** Describes the urban population served with Shared Sanitation. Calculated by the population*(Urban Pop/100)*(Urban Limited (shared)/100).
- WSSJMPSanitationUrbanPopOpenDefecation- Describes the urban population served with Open Defecation Sanitation. Calculated by the population*(Urban Pop/100)*(Urban Open Defecation/100).
- WSSJMPSanitationRuralPopImproved- Describes the rural population served with Improved Sanitation. Calculated by the population*(100-Urban Pop)*(Sum of Latrines, Septic Tanks, Sewer Connections / 100).
- 27. **WSSJMPSanitationRuralPopUnimproved-** Describes the rural population served with Unimproved Sanitation. Rural Unimproved Sanitation is the sum of Open Defecation, Other Unimproved, and Shared sanitation access.
- WSSJMPSanitationRuralPopOtherUnimproved- Describes the rural population with Other Unimproved Sanitation, Calculated by the population*(100-Urban Pop/100)*(Rural Unimproved/100).
- 29. **WSSJMPSanitationRuralPopShared-** Describes the rural population served with Shared

Sanitation. Calculated by the population*(100-Urban Pop/100)*(Rural Limited (shared)/100).

- WSSJMPSanitationRuralPopOpenDefecation- Describes the rural population served with Open Defecation Sanitation. Calculated by the population*(100-Urban Pop/100)*(Rural Open Defecation/100)
- Can be directly found
 - Units is "Percent" 27 in total

TAB Residence Type	Ladder	Variable	Definition	Extended Source Defn	Units Code in Source	e UsedInPreprocessor UsedInPreprocessorFileName
san rural			Proportion of Rural population served with		Percent san basal r	0
san total			Proportion of Total population served with		Percent san basal t	0
san urban			Proportion of Urban population served wit		Percent san basal u	0
san rural	Limited			Use of improved facilities shared between two or more households	Percent san_lim_r	0
san total	Limited			Use of improved facilities shared between two or more households	Percent san_lim_t	0
san urban	Limited	WSSIMPS anitation I rhan% Limited	Proportion of Urban population served	Use of improved facilities shared between two or more households	Percent san_lim_u	0
san rural	OpenDefecation	WSSIMPSanitationPural@OpenDefection	Proportion of Rural population served	Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches and other open spaces or with solid waste	Percent san_ns_r	0
san total	OpenDefecation		Proportion of Total population served	Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches and other open spaces or with solid waste	Percent san_ns_t	1 ECONOMY, INFRASTRUCTURE
san urban	OpenDefecation		with open defecation facilities (%)	Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches and other open spaces or with solid waste	Percent san_ns_u	0
san rural	OtherUnimproved	WSSJMPSanitationRural%OtherUnimproved	Proportion of Rural population with Other Unimproved Sanitation (%)	do not ensure hygenic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	Percent san_unimp_r	0
san total	OtherUnimproved	WSSJMPSanitationTotal%OtherUnimproved		do not ensure hygenic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	Percent san_unimp_t	1 ECONOMY, INFRASTRUCTURE
san urban	OtherUnimproved		Proportion of Urban population with Other Unimproved Sanitation (%)	do not ensure hygenic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	Percent san_unimp_u	0
san rural	SafelyManaged		with safely managed facilities (%)	Use of improved facilities that are not shared with other households and where excreta are safely disposed of in situ or removed and treated offsite	Percent san_sm_r	0
san total	SafelyManaged		with safely managed facilities (%)	disposed of in situ or removed and treated offsite	Percent san_sm_t	0
san urban	SafelyManaged		with safely managed facilities (%)	disposed of in situ or removed and treated offsite	Percent san_sm_u	0
san rural	Shared			Sanitation facilities of an otherwise acceptable type shared between two or more households. Only facilities that are not shared or not public are considered improved	Percent san_lim_r	0
san total	Shared		Proportion of Total population served with Shared Sanitation (%)	considered improved	Percent san_lim_t	1 INFRASTRUCTURE
san urban	Shared	wssjmesanitationorban%snared	Proportion of Urban population served with Shared Sanitation (%)	Sanitation facilities of an otherwise acceptable type shared between two or more households. Only facilities that are not shared or not public are considered improved	Percent san_lim_u	0
san rural	SMDisposedInsitu	WSSJMPSanitationRural%SMDisposedInsitu	are disposed in situ	Safely managed = disposed in situ + emptied and treated + wastewater and treated	Percent san_sdo_sm_r	0
san total	SMDisposedInsitu	WSSJMPSanitationTotal%SMDisposedInsitu	Proportion of Total population served with safely managed facilities (%) that are disposed in situ	Safely managed = disposed in situ + emptied and treated + wastewater and treated	Percent san_sdo_sm_t	0
san urban	SMDisposedInsitu	WSSJMPSanitationUrban%SMDisposedInsitu	are disposed in situ	Safely managed = disposed in situ + emptied and treated + wastewater and treated	Percent san_sdo_sm_u	1 0
san rural	SMEmpTreated	WSSJMPSanitationRural%SMEmpTreated	are emptied and treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	Percent san_fst_sm_r	0
san total	SMEmpTreated	WSSJMPSanitationTotal%SMEmpTreated	are emptied and treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	Percent san_fst_sm_t	0
san urban	SMEmpTreated	WSSJMPSanitationUrban%SMEmpTreated	are emptied and treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	Percent san_fst_sm_u	0
san rural	SMWastewaterTreated	WSSJMPSanitationRural%SMWastewaterTreated	are wastewater treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	Percent san_sew_sm_	r 0
san total	SMWastewaterTreated	WSSJMPSanitationTotal%SMWastewaterTreated	are wastewater treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	Percent san_sew_sm_	t 0
san urban	SMWastewaterTreated	WSSJMPSanitationUrban%SMWastewaterTreated	Proportion of Urban population served with safely managed facilities (%) that are wastewater treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	Percent san_sew_sm_	0 u

• Units is "Thousands" - 9 in total

TAB Residence Type	Ladder	Variable	Definition	Extended Source Defn	Units Code in Source	UsedInPreprocessor UsedInPreprocessorFileNam	e Formul	a Pop
san rural	Limited	WSSJMPSanitationRuralPopShared	Rural population	Sanitation facilities of an otherwise acceptable type shared between two or more households. Only facilities that are not shared or not public are considered improved	Thousands san_lim_r	0	/100	*(100-prop_u)/100*pop_t
san total	Limited	WSSJMPSanitationTotalPopShared		Sanitation facilities of an otherwise acceptable type shared between two or more households. Only facilities that are not shared or not public are considered improved	Thousands san_lim_t	0	/100	*pop_t
san urban	Limited	WSSJMPSanitationUrbanPopShared	Urban population served with Shared Sanitation	Sanitation facilities of an otherwise acceptable type shared between two or more households. Only facilities that are not shared or not public are considered improved	Thousands san_lim_u	0	/100	*prop_u/100*pop_t
san rural	OpenDefecation	WSSJMPSanitationRuralPopOpenDefecation	Rural population served with Open Defecation Sanitation	when human feces are disposed of in fields, forests, bushes, open bodies of water, beaches or other open spaces or disposed of with solid waste	Thousands san_ns_r	0	/100	*(100-prop_u)/100*pop_t
san total	OpenDefecation	WSSJMPSanitationTotalPopOpenDefecation	Total population served with Open Defecation Sanitation	when human feces are disposed of in fields, forests, bushes, open bodies of water, beaches or other open spaces or disposed of with solid waste	Thousands san_ns_t	0	/100	*pop_t
san urban	OpenDefecation	WSSJMPSanitationUrbanPopOpenDefecation	Urban population served with Open Defecation Sanitation	when human feces are disposed of in fields, forests, bushes, open bodies of water, beaches or other open spaces or disposed of with solid waste	Thousands san_ns_u	0	/100	*prop_u/100*pop_t
san rural	OtherUnimproved	WSSJMPSanitationRuralPopOtherUnimproved	with Other Unimproved	do not ensure hygenic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platfor, hanging latrines or bucket latrines	Thousands san_unimp	<u>r</u> 0	/100	*(100-prop_u)/100*pop_t
san total	OtherUnimproved	WSSJMPSanitationTotalPopOtherUnimproved	Total population with Other Unimproved Sanitation	do not ensure hygenic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platfor, hanging latrines or bucket latrines	Thousands san_unimp	<u>t</u> 0	/100	*pop_t
san urban	OtherUnimproved	WSSJMPSanitationUrbanPopOtherUnimproved	Urban population with Other Unimproved Sanitation	do not ensure hygenic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platfor, hanging latrines or bucket latrines	Thousands san_unimp	<u>u</u> 0	/100	*prop_u/100*pop_t

- Calculation

• Units is "Percent" - 9 in total

TAB Residence Type	Ladder	Variable	Definition	Extended Source Defn	Units	Code in Source	UsedInPreprocessor	UsedInPreprocessorFileName
san rural	Basic	WSSJMPSanitationRural%Basic	Proportion of Rural population served with basic but not safely managed facilities (%)	Use of improved facilities which are not shared with other households	Percent	_san_basal_r - san_sm_r	0	
san total	Basic	WSSJMPSanitationTotal%Basic	Proportion of total population served with basic but not safely managed facilities (%)	Use of improved facilities which are not shared with other households	Percent	_san_basal_t - san_sm_t	0	
san urban	Basic	WSSJMPSanitationUrban%Basic	Proportion of Urban population served with basic but not safely managed facilities (%)	Use of improved facilities which are not shared with other households	Percent	_san_basal_u - san_sm_u	0	
san rural	Improved	WSSJMPSanitationRural%Improved	Proportion of Rural population served with Improved Sanitation (%)	Likely to ensure hygenic separation of human excreta from human contact. They include: 1) Flush/pour flush to (piped sewer system septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composing toilet	Percent	_san_basal_r + _san_lim_r	0	
san total	Improved	WSSJMPSanitationTotal%Improved	Proportion of Total population served with Improved Sanitation (%)	Likely to ensure hygenic separation of human excreta from human contact. They include: 1) Flushypour flush to (piped sewer system septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composing toilet	Percent	san_basal_t + san_lim_t	1	INFRASTRUCTURE
san urban	Improved	WSSJMPSanitationUrban%Improved	Proportion of Urban population served with Improved Sanitation (%)	Likely to ensure hygenic separation of human excreta from human contact. They include: 1) Flush/pour flush to (bjped sewer system septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composing toilet	Percent	san_basal_u + san_lim_u	0	
san rural	Unimproved	d WSSJMPSanitationRural%Unimproved	Proportion of Rural population served with unimproved facilities (%)	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines		100 - (san_basal_r : + san_lim_r) - san_ns_r	0	
san total	Unimproved	d WSSJMPSanitationTotal%Unimproved	Proportion of Total population served with unimproved facilities (%)	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines		100 - (san_basal_t t + san_lim_t) - san_ns_t	0	
san urban	Unimproved	d WSSJMPSanitationUrban%Unimproved	Proportion of Urban population served with unimproved facilities (%)	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines	Percent	100 - (san_basal_u + san_lim_u) - san_ns_u	0	

• Units is "Thousands" - 6 in total

TAB Residence Type	Ladder	Variable	Definition	Extended Source Defn	Units	Code in Source	UsedInPreprocessor UsedInPreprocessorFileNam	e Formula	Рор
san rural	Improved	WSSJMPSanitationRuralPopImproved	Rural population served with Improved Sanitation	Likely to ensure hygenic separation of human excreta from human contact. They include: 1) Flush/pour flush to (piped sewer system septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composing toilet	Thousands	san_basal_r + san_lim_r	0	/100	*(100-prop_u)/100*pop_t
san total	Improved	WSSJMPSanitationTotalPopImproved	Total population served with Improved Sanitation	septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composing toilet	Thousands	san_basal_t + san_lim_t	0	/100	*pop_t
san urban	Improved	WSSJMPSanitationUrbanPopImproved	Urban population served with Improved Sanitation	septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composing toilet	Thousands	san_basal_u + san_lim_u	0	/100	*prop_u/100*pop_t
san rural	Unimproved	WSSJMPSanitationRuralPopUnimproved	Rural population served with Unimproved Sanitation.	do not ensure hygenic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	Thousands	100 - (san_basal_r + san_lim_r) - san_ns_r	0	/100	*(100-prop_u)/100*pop_t
san total	Unimproved	WSSJMPSanitationTotalPopUnimproved	Total population served with Unimproved Sanitation.	do not ensure hygenic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	Thousands	100 - (san_basal_t + san_lim_t) - san_ns_t	0	/100	*pop_t
san urban	Unimproved	WSSJMPSanitationUrbanPopUnimproved	Urban population served with Unimproved Sanitation.	do not ensure hygenic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	Thousands	100 - (san_basal_u + san_lim_u) - san_ns_u	0	/100	*prop_u/100*pop_t

Notes:

- 1. Any Pop series cannot be directly found in the excel. Thus, we need to manually calculated.
- 2. pop_t is total population in thousands.
- 3. prop_u is the percentage of urban population in total population.
- 4. 100 prop_u is the percentage of rural population in total population.
- 5. Except pop_t, the rest of data we will use is in "Percent". To do the calculation for "Pop" series, we need to /100 first to convert the percent to decimal.
- 6. san_bas changed to san_basal.
- 7. san_od changed to san_ns.
- 8. Calculated Ladders:
 - 1. Basic = At least basic + Safely managed
 - Improved = At least basic + Limited = Sum of Latrines (san_othimp), Septic Tanks (san_sep), Sewer Connections (san_sew)
 - 3. Unimproved = 100 Improved Open Defecation

Issues in the data and their resolution:

The 3 groups of series below are duplicated: "Shared" is "Limited service".

ТАВ	Residence Type	Ladder	Variable	Definition	Extended Source Defn	Units	Code in Source	UsedInPreproces sor	UsedInPreproces sorFileName
san	rural	Limited	nRural%Limited		Use of improved facilities shared between two or more households	Percent	san_lim_r	0	
san	rural	Shared	WSSJMPSanitatio nRural%Shared	Proportion of Rural population served with Shared Sanitation (%)	Sanitation facilities of an otherwise acceptable type shared between two or more households. Only facilities that are not shared or not public are considered improved	Percent	san_lim_r	0	
san	total	Limited	nTotal%Limited	Proportion of Total population served with limited facilities (%)	Use of improved facilities shared between two or more households	Percent	san_lim_t	0	
san	total	Shared		Proportion of Total population served with Shared Sanitation (%)	Sanitation facilities of an otherwise acceptable type shared between two or more households. Only facilities that are not shared or not public are considered improved	Percent	san_lim_t	1	INFRASTRUCTUR E
san	urban	Limited	WSSJMPSanitatio nUrban%Limited		Use of improved facilities shared between two or more households	Percent	san_lim_u	0	
san	urban	Shared	WSSJMPSanitatio nUrban%Shared		Sanitation facilities of an otherwise acceptable type shared between two or more households. Only facilities that are not shared or not public are considered improved	Percent	san_lim_u	0	

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