

# Joint Monitoring Programme, WHO/UNICEF

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## Summary

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 defecation sanitation.

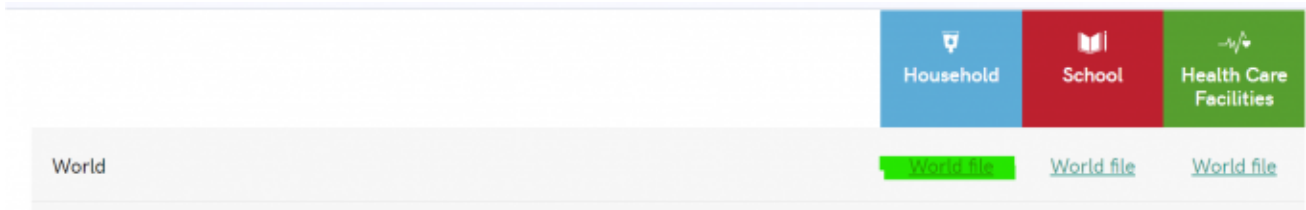
The most recent update was in Sept. 2024. There are 8 preprocessors and 100 non-preprocessors.

## Tables In IFs

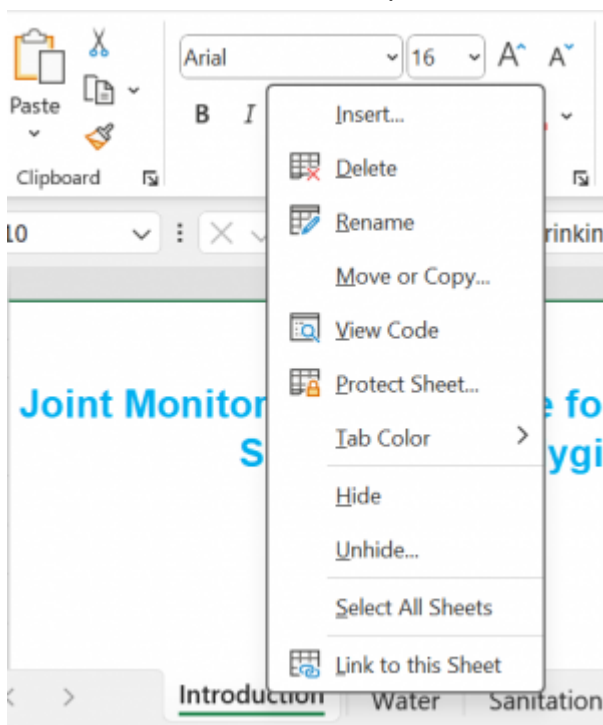
Variable	Definition	Ext Source Def	UsedInPreprocessor	UsedInPreprocessor	FileName	Code In Source
WSSMPSanitationTotalPopImproved	Total population served with Improved Sanitation	Ensure hygienic separation of human excreta from human contact. They include: 1) Flush/pour flush to (pipd sewer system septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composting toilet	0		san_bas_n_pop	
WSSMPSanitationTotalPopOpenDefecation	Total population served with Open Defecation Sanitation	Likely to ensure hygienic separation of human excreta from human contact. They include: 1) Flush/pour flush to (pipd sewer system septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composting toilet	0		san_od_n_pop	
WSSMPSanitationUrbanPopOtherUnimproved	Total population with Other Unimproved Sanitation	Likely to ensure hygienic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	0		san_unimp_n_pop	
WSSMPSanitationTotalPopShared	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	0		san_lim_n_pop	
WSSMPSanitationTotalPopUnimproved	Total population served with Unimproved Sanitation. Total Unimproved Sanitation is the sum of Open Defecation, Other Unimproved, and Shared sanitation access.	do not ensure hygienic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	0		san_Unimp_n_pop	
WSSMPWaterUrbanPopSurface	Urban population served with Surface Water	River, dam, lake, pond, stream, canal, irrigation channels.	0		wat_sur_u_pop	
WSSMPWaterUrbanPopImproved	Urban population served with Improved Water	Piped water on premises/other improved drinking water	0		wat_imp_u_pop	
WSSMPWaterUrbanPopOpenDefecation	Rural population served with Open Defecation Sanitation	Likely to ensure hygienic separation of human excreta from human contact. They include: 1) Flush/pour flush to (pipd sewer system septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composting toilet	0		san_bas_u_pop	
WSSMPSanitationRuralPopOtherUnimproved	Rural population with Other Unimproved 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	0		san_od_r_pop	
WSSMPSanitationRuralPopShared	Rural population served with Shared Sanitation	do not ensure hygienic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	0		san_unimp_r_pop	
WSSMPSanitationRuralPopUnimproved	Rural population served with Unimproved Sanitation. Total Unimproved Sanitation is the sum of Open Defecation, Other Unimproved, and Shared sanitation access.	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	0		san_lim_r_pop	
WSSMPSanitationUrbanPopImproved	Urban population served with Improved Sanitation	do not ensure hygienic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	0		san_Unimp_r_pop	
WSSMPSanitationUrbanPopOpenDefecation	Urban population served with Open Defecation Sanitation	Likely to ensure hygienic separation of human excreta from human contact. They include: 1) Flush/pour flush to (pipd sewer system septic tank or pit latrine) 2) Ventilated improved pit (VIP) latrine 3) Pit latrine with slab 4) Composting toilet	0		san_bas_u_pop	
WSSMPSanitationUrbanPopOtherUnimproved	Urban population with Other Unimproved 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	0		san_od_u_pop	
WSSMPSanitationUrbanPopImproved	Urban population served with Improved Water	do not ensure hygienic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	0		san_unimp_u_pop	
WSSMPWaterRuralPopImproved	Rural population served with Improved Water	Piped water on premises/other improved drinking water	0		wat_imp_r_pop	
WSSMPWaterRuralPopOtherImproved	Rural population served with Other Improved Water	Public taps or standpipes, tube wells or boreholes, protected dug wells, protected springs, rainwater collection	0		wat_imp_r_pop	
WSSMPWaterRuralPopOtherUnimproved	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)	0		wat_unimp_r_pop	
WSSMPWaterRuralPopSurface	Rural population served with Surface Water	River, dam, lake, pond, stream, canal, irrigation channels.	0		wat_sur_r_pop	
WSSMPWaterTotalPopUnimproved	Total population served with Unimproved Water	Unimproved drinking water sources/surface drinking water sources	0		wat_unimp_n_pop	
WSSMPWaterTotalPopPiped	Total population served with Piped Water	Piped household water connection located inside the user's dwelling, plot or yard	0		wat_pip_n_pop	
WSSMPWaterTotalPopSurface	Total population with Surface Water	River, dam, lake, pond, stream, canal, irrigation channels.	0		wat_sur_n_pop	
WSSMPWaterTotalPopUnimproved	Proportion of Total population served with Unimproved Water (%). Total Unimproved Water is the sum of Surface and Other Unimproved water access.	Unimproved drinking water sources/surface drinking water sources	0		wat_unimp_n_pop	
WSSMPWaterUrban%Improved	Proportion of Urban population served with Improved Water (%)	Piped water on premises/other improved drinking water	0		wat_imp_u	
WSSMPWaterUrbanPopOtherImproved	Urban population served with Other Improved Water	Public taps or standpipes, tube wells or boreholes, protected dug wells, protected springs, rainwater collection	0		wat_pip_u_pop	
WSSMPWaterUrbanPopOtherUnimproved	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)	0		wat_unimp_u_pop	
WSSMPWaterUrbanPopPiped	Urban population served with Piped Water	Piped household water connection located inside the user's dwelling, plot or yard	0		wat_pip_u_pop	
WSSMPWaterUrbanPopUnimproved	Urban population served with Unimproved Water. Total Unimproved Water is the sum of Surface and Other Unimproved water access.	Unimproved drinking water sources/surface drinking water sources	0		wat_Unimp_u_pop	
WSSMPSanitationUrbanPopShared	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	0		san_lim_u_pop	
WSSMPSanitationUrbanPopUnimproved	Urban population served with Unimproved Sanitation. Total Unimproved Sanitation is the sum of Open Defecation, Other Unimproved, and Shared sanitation access.	do not ensure hygienic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines or bucket latrines	0		san_Unimp_r_pop	
WSSMPWaterRural%Improved	Proportion of Rural population served with Improved Water (%)	Piped water on premises/other improved drinking water	0		wat_imp_r	
WSSMPWaterRuralPopPiped	Rural population served with Piped Water	Piped household water connection located inside the user's dwelling, plot or yard	0		wat_pip_r_pop	
WSSMPWaterTotal%Improved	Proportion of Total population served with Improved Water (%)	Piped water on premises/other improved drinking water	0		wat_imp_n	
WSSMPWaterTotalPopImproved	Total population served with Improved Water	Piped water on premises/other improved drinking water	0		wat_imp_n_pop	
WSSMPWaterTotalPopOtherImproved	Total population served with Other Improved Water	Public taps or standpipes, tube wells or boreholes, protected dug wells, protected springs, rainwater collection	0		wat_imp_n_pop - wat_pip_n_pop	
WSSMPSanitationRural%AtLeastBasic	Proportion of Rural population served with at least basic facilities (%)	WSSMPSanitationRural%AtLeastBasic + WSSMPSanitationRural%Basic	0			
WSSMPSanitationRural%Basic	Proportion of Rural population served with basic but not safely managed facilities (%)	Use of improved facilities which are not shared with other households	0			
WSSMPSanitationRural%Improved	Proportion of Rural population served with improved facilities (%). 3-ladder system	Improved facilities in the old 3-ladder system equals to At Least Basic in the new 5-ladder system	0			
WSSMPSanitationRural%Limited	Proportion of Rural population served with limited facilities (%)	Use of improved facilities shared between two or more households	0			
WSSMPSanitationRural%OpenDefecation	Proportion of Rural population served 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	0			
WSSMPSanitationRural%OtherUnimproved	Proportion of Rural population served with other unimproved facilities (%). 3-ladder system	Other/unimproved facilities in the old 3-ladder system equals to Unimproved in the new 5-ladder system	0			
WSSMPSanitationRural%SafeManaged	Proportion of Rural population served 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	0			
WSSMPSanitationRural%Shared	Proportion of Rural population served with shared facilities (%). 3-ladder system	Shared facilities in the old 3-ladder system equals to Limited in the new 5-ladder system	0			
WSSMPSanitationRural%SMDisposedInSitu	Proportion of Rural population served with safely managed facilities (%) that are disposed in situ	Safely managed = disposed in situ + emptied and treated + wastewater and treated	0			
WSSMPSanitationRural%SMEmpTreated	Proportion of Rural population served with safely managed facilities (%) that are emptied and treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	0			
WSSMPSanitationRural%SMWastewaterTreated	Proportion of Rural population served with safely managed facilities (%) that are wastewater treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	0			
WSSMPSanitationUrban%Unimproved	Proportion of Urban population served with unimproved facilities (%)	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines	0			
WSSMPSanitationTotal%AtLeastBasic	Proportion of Total population served with at least basic facilities (%)	WSSMPSanitationTotal%SafeManaged + WSSMPSanitationTotal%Basic	0			
WSSMPSanitationTotal%Basic	Proportion of Total population served with basic but not safely managed facilities (%)	Use of improved facilities which are not shared with other households	0			
WSSMPSanitationTotal%Improved	Proportion of Total population served with improved facilities (%). 3-ladder system	Improved facilities in the old 3-ladder system equals to At Least Basic in the new 5-ladder system	1		INFRASTRUCTURE	
WSSMPSanitationTotal%Limited	Proportion of Total population served with limited facilities (%)	Use of improved facilities shared between two or more households	0			
WSSMPSanitationTotal%OpenDefecation	Proportion of Total population served 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	1		ECONOMY, INFRASTRUCTURE	
WSSMPSanitationTotal%OtherUnimproved	Proportion of Total population served with other unimproved facilities (%). 3-ladder system	Other/unimproved facilities in the old 3-ladder system equals to Unimproved in the new 5-ladder system	1		ECONOMY, INFRASTRUCTURE	
WSSMPSanitationTotal%SafeManaged	Proportion of Total population served 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	0			
WSSMPSanitationTotal%Shared	Proportion of Total population served with shared facilities (%). 3-ladder system	Shared facilities in the old 3-ladder system equals to Limited in the new 5-ladder system	1		INFRASTRUCTURE	
WSSMPSanitationTotal%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	0			
WSSMPSanitationTotal%SMEmpTreated	Proportion of Total population served with safely managed facilities (%) that are emptied and treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	0			
WSSMPSanitationTotal%SMWastewaterTreated	Proportion of Total population served with safely managed facilities (%) that are wastewater treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	0			
WSSMPSanitationUrban%Unimproved	Proportion of Urban population served with unimproved facilities (%)	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines	0			
WSSMPSanitationUrban%AtLeastBasic	Proportion of Urban population served with at least basic facilities (%)	WSSMPSanitationUrban%SafeManaged + WSSMPSanitationUrban%Basic	0			
WSSMPSanitationUrban%Basic	Proportion of Urban population served with basic but not safely managed facilities (%)	Use of improved facilities which are not shared with other households	0			
WSSMPSanitationUrban%Improved	Proportion of Urban population served with improved facilities (%). 3-ladder system	Improved facilities in the old 3-ladder system equals to At Least Basic in the new 5-ladder system	0			
WSSMPSanitationUrban%Limited	Proportion of Urban population served with limited facilities (%)	Use of improved facilities shared between two or more households	0			
WSSMPSanitationUrban%OpenDefecation	Proportion of Urban population served 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	0			
WSSMPSanitationUrban%OtherUnimproved	Proportion of Urban population served with other unimproved facilities (%). 3-ladder system	Other/unimproved facilities in the old 3-ladder system equals to Unimproved in the new 5-ladder system	0			
WSSMPSanitationUrban%SafeManaged	Proportion of Urban population served 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	0			
WSSMPSanitationUrban%Shared	Proportion of Urban population served with shared facilities (%). 3-ladder system	Shared facilities in the old 3-ladder system equals to Limited in the new 5-ladder system	0			
WSSMPSanitationUrban%SMDisposedInSitu	Proportion of Urban population served with safely managed facilities (%) that are disposed in situ	Safely managed = disposed in situ + emptied and treated + wastewater and treated	0			
WSSMPSanitationUrban%SMEmpTreated	Proportion of Urban population served with safely managed facilities (%) that are emptied and treated	Safely managed = disposed in situ + emptied and treated + wastewater and treated	0			
WSSMPSanitationUrban%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	0			
WSSMPSanitationUrban%Unimproved	Proportion of Urban population served with unimproved facilities (%)	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines	0			
WSSMPWaterRural%AtLeastBasic	Proportion of Rural population served with at least basic drinking water (%)	WSSMPWaterRural%SafeManaged + WSSMPWaterRural%Basic	0			
WSSMPWaterRural%Basic	Proportion of Rural 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	0			
WSSMPWaterRural%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	0			
WSSMPWaterRural%OtherImproved	Proportion of Rural population served with other improved drinking water (%), old 3-ladder system	In the old 3-ladder system, other improved means improved drinking water that is not piped	0			
WSSMPWaterRural%OtherUnimproved	Proportion of Rural population served with other unimproved drinking water (%), old 3-ladder system	In the old 3-ladder system, other unimproved means unimproved drinking water in the new 5-ladder system	0			
WSSMPWaterRural%Piped	Proportion of Rural population served with piped drinking water (%), old 3-ladder system	In the old 3-ladder system, this means improved drinking water that is piped	0			
WSSMPWaterRural%SafeManaged	Proportion of Rural 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	0			
WSSMPWaterRural%SMAsNeeded	Proportion of Rural population served with available when needed improved drinking water (%)	From an improved water source that is available when needed	0			
WSSMPWaterRural%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	0			
WSSMPWaterRural%SMOnPremise	Proportion of Rural population served with accessible on premises improved drinking water (%)	From an improved water source that is accessible on premises	0			
WSSMPWaterRural%Surface	Proportion of Rural population served with surface drinking water (%)	Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation canal	0			
WSSMPWaterRural%Unimproved	Proportion of Rural population served with unimproved drinking water (%)	Drinking water from an unprotected dug well or unprotected spring	0			
WSSMPWaterTotal%AtLeastBasic	Proportion of Total population served with at least basic drinking water (%)	WSSMPWaterTotal%SafeManaged + WSSMPWaterTotal%Basic	0			
WSSMPWaterTotal%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	0			
WSSMPWaterTotal%Limited	Proportion of Total population served with limited drinking water (%)	Drinking water from an improved source for which collection time exceeds 30 minutes for a roundtrip including queuing	0			
WSSMPWaterTotal%OtherImproved	Proportion of Total population served with other improved drinking water (%), old 3-ladder system	In the old 3-ladder system, other improved means improved drinking water that is not piped	1		INFRASTRUCTURE	
WSSMPWaterTotal%OtherUnimproved	Proportion of Total population served with other unimproved drinking water (%), old 3-ladder system	In the old 3-ladder system, other unimproved means unimproved drinking water in the new 5-ladder system	1		ECONOMY, INFRASTRUCTURE	
WSSMPWaterTotal%Piped	Proportion of Total population served with piped drinking water (%), old 3-ladder system	In the old 3-ladder system, this means improved drinking water that is piped	1		INFRASTRUCTURE	
WSSMPWaterTotal%SafeManaged	Proportion of Total 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	0			
WSSMPWaterTotal%SMAsNeeded	Proportion of Total population served with available when needed improved drinking water (%)	From an improved water source that is available when needed	0			
WSSMPWaterTotal%SMNotContam	Proportion of Total population served with free from contamination improved drinking water (%)	From an improved water source that is free from faecal and priority chemical contamination	0			
WSSMPWaterTotal%SMOnPremise	Proportion of Total population served with accessible on premises improved drinking water (%)	From an improved water source that is accessible on premises	0			
WSSMPWaterTotal%Surface	Proportion of Total population served with surface drinking water (%)	Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation canal	1		ECONOMY, INFRASTRUCTURE	
WSSMPWaterTotal%Unimproved	Proportion of Total population served with unimproved drinking water (%)	Drinking water from an unprotected dug well or unprotected spring	0			
WSSMPWaterUrban%AtLeastBasic	Proportion of Urban population served with at least basic drinking water (%)	WSSMPWaterUrban%SafeManaged + WSSMPWaterUrban%Basic	0			
WSSMPWaterUrban%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	0			
WSSMPWaterUrban%Limited	Proportion of Urban population served with limited drinking water (%)	Drinking water from an improved source for which collection time exceeds 30 minutes for a roundtrip including queuing	0			
WSSMPWaterUrban%OtherImproved	Proportion of Urban population served with other improved drinking water (%), old 3-ladder system	In the old 3-ladder system, other improved means improved drinking water that is not piped	0			
WSSMPWaterUrban%OtherUnimproved	Proportion of Urban population served with other unimproved drinking water (%), old 3-ladder system	In the old 3-ladder system, other unimproved means unimproved drinking water in the new 5-ladder system	0			
WSSMPWaterUrban%Piped	Proportion of Urban population served with piped drinking water (%), old 3-ladder system	In the old 3-ladder system, this means improved drinking water that is piped	0			
WSSMPWaterUrban%SafeManaged	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	0			
WSSMPWaterUrban%SMAsNeeded	Proportion of Urban population served with available when needed improved drinking water (%)	From an improved water source that is available when needed	0			
WSSMPWaterUrban%SMNotContam	Proportion of Urban population served with free from contamination improved drinking water (%)	From an improved water source that is free from faecal and priority chemical contamination	0			
WSSMPWaterUrban%SMOnPremise	Proportion of Urban population served with accessible on premises improved drinking water (%)	From an improved water source that is accessible on premises	0			
WSSMPWaterUrban%Surface	Proportion of Urban population served with surface drinking water (%)	Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation canal	0			
WSSMPWaterUrban%Unimproved	Proportion of Urban population served with unimproved drinking water (%)	Drinking water from an unprotected dug well or unprotected spring	0			

# Data Pulling Instructions: Downloading Data

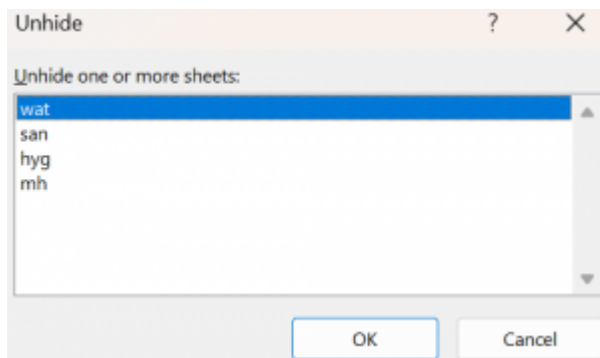
1. Go to <https://washdata.org/data/downloads#WLD>
  1. Detailed instructions on how to find the "Household" here
2. Click "World file" under "Household" to download all the data.



3. Open the downloaded file. "Enable Editing". Hover the mouse to the tab and right-click. The file will show several options:



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



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.

# Data Pulling Instructions: 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:

IFs include both old and new water systems from WSS JMP. The new system is developed based on the old system, thus, you can find some overlapping variable labels between two systems. Below we listed a mapping between the ladders used in IFs and those being used in WSS JMP.

### **New system-**

TAB Ladder in IFs	WSS JMP Variable
wat SafelyManaged	sm
wat AtLeastBasic	basal
wat Basic	basal - sm
wat Limited	lim
wat Unimproved	unimp
wat Surface	ns

In which, SafelyManaged is the intersection of following 3 categories (most of time the result is just the minimal among three)

- SMOnPremise = imp\_prem; used to be premises
- SMAsNeeded = imp\_av; used to be available
- SMNotContam = imp\_qual; used to be quality

You can also observe that  $unimp + imp + ns = 100\%$ , where  $imp = basal + lim = pip + imp\_npip$

### **Old system-**

TAB Ladder in IFs	WSS JMP Variable
wat OtherImproved	imp_npip
wat Piped	pip
wat OtherUnimproved	unimp
wat Surface	ns

## **Notes:**

- All indicators use suffices to indicate regional levels, with

- `_t` means national indicators (Total%); used to be `_n` being national
- `_r` means Rural%
- `_u` means Urban%
- Prefix `pop_` means Population in Thousands
- `prop_u` is the percentage of urban population in total population.
- `100 - prop_u` is the percentage of rural population in total population.
- The rest of data are in percentages

Thus, under the raw data (the Excel file downloaded following the instruction above), the TAB column in the mapping above represents the name of the spreadsheet, while the other two columns represent the one-to-one mapping between IFs data table name and WSS JMP variable name. For example, table `SeriesWSSJMPWaterTotal%SafelyManaged` from `IFsHistSeries` equals to the variable `wat_sm_t`. Same rules apply to the sanitation data introduced below.

## Data Pulling Instructions: 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:

IFs include both old and new sanitation systems from WSS JMP. The new system is developed based on the old system, thus, you can find some overlapping variable labels between two systems. Below we listed a mapping between the ladders used in IFs and those being used in WSS JMP.

#### **New system-**

TAB Ladder in IFs	WSS JMP Variable
san AtLeastBasic	basal
san Basic	basal - sm
san Limited	lim
san OpenDefecation	ns
san OtherUnimproved	unimp

In which, `SafelyManaged` is the union of following 3 categories (normally adding three together)

- `SMDisposedInsitu` = `sdo_sm`; Disposed in situ
- `SMEmpTreated` = `fst_sm`; Emptied and treated

- $SM_{WastewaterTreated} = sew\_sm$ ; Wastewater treated

You can also find that  $imp + unimp + ns = 100$ , where  $imp = basal + lim$ ; Additionally, Improved (imp) is the union of following 3 categories (normally adding three together, if all 3 exist)

- Latrines and other = othimp; used to be lat
- Septic tanks = sep
- Sewer connections = sew

### Old system-

TAB Ladder in IFs	WSS JMP Variable
san Improved	basal
san Shared	lim
san OtherUnimproved	unimp
san OpenDefecation	ns

Hence, the table `SeriesWSSJMPSanitationTotal% SafelyManaged` from `IFsHistSeries` is the equivalent to the variable `san_sm_t` from WSS JMP.

## Data Notes

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