

Table A7: Description of wastewater management pattern parameters

Flux origin and parameter description	Flux destination	R variable name
Human excreta: Proportion of population served by different disposal methods	Septic	Prop_Septic
	Sewer	Prop_Sewer
	Latrine	Prop_Latrine
No sanitation: Proportion of wastes to different disposal pathways	No sanitation	Prop_NoWW
	Direct reuse	NoWW_toLand
	Direct discharge	NoWW_toDischarge
Septic: Proportion of N or P to solid, effluent, or gas output pathways	Septic/latrine solids	SepticN_toSeptage
	Septic/latrine effluent	SepticN_toEffluent
	N ₂	SepticN_toN ₂
	Septic/latrine solids	SepticP_toSeptage
	Septic/latrine effluent	SepticP_toEffluent
	Septic/latrine solids	LatrineN_toSeptage
Latrines: Proportion of N or P to solid or effluent output pathways	Septic/latrine effluent	LatrineN_toEffluent
	Septic/latrine solids	LatrineP_toSeptage
	Septic/latrine effluent	LatrineP_toEffluent
	Land application	Septage_toLand
Septic/latrine solids: Proportion to different disposal pathways	WWTP	Septage_toSewer
	Solids dumping/discharge	Septage_toDischarge
Septic/latrine effluent: Proportion N or leaching to groundwater (remainder is	Groundwater	SepticEffluentN_toGW
	Groundwater	SepticEffluentP_toGW
	WWTP solids	SewerN_toSolids
WWTP: Proportion of N or P to solid, effluent, or gas output pathways	N ₂	SewerN_toN ₂
	WWTP effluent	SewerN_toEffluent
	WWTP solids	SewerP_toSolids
	WWTP effluent	SewerP_toEffluent
	WWTP effluent reuse	SewerEffluent_toReuse
WWTP effluent: Proportion to different disposal pathways	WWTP effluent discharge	SewerEffluent_toDischarge
WWTP solids: Proportion to different disposal pathways	Landfill	SewerSolids_toLandfill
	Land application	SewerSolids_toLand
	Incinerator	SewerSolids_toIncinerator