

This spreadsheet contains sheet 1 of Worksheet 4-1, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

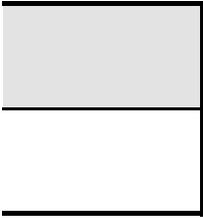
MODULE		AGRICULTURE				
SUBMODULE		METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT				
WORKSHEET		4-1				
SHEET		1 OF 2 METHANE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT				
COUNTRY		0				
YEAR		0				
Livestock Type	A Number of Animals	STEP 1		STEP 2		STEP 3
		B Emissions Factor for Enteric Fermentation (kg/head/yr)	C Emissions from Enteric Fermentation (t/yr)	D Emissions Factor for Manure Management (kg/head/yr)	E Emissions from Manure Management (t/yr)	F Total Annual Emissions from Domestic Livestock (Gg)
			$C = (A \times B)/1000$		$E = (A \times D)/1000$	$F = (C + E)/1000$
Dairy Cattle			0.00		0.00	0.00
Non-dairy Cattle			0.00		0.00	0.00
Buffalo			0.00		0.00	0.00
Sheep			0.00		0.00	0.00
Goats			0.00		0.00	0.00
Camels			0.00		0.00	0.00
Horses			0.00		0.00	0.00
Mules & Asses			0.00		0.00	0.00
Swine			0.00		0.00	0.00
Poultry			0.00		0.00	0.00
Totals			0.00		0.00	0.00

Documentation box:
Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

This spreadsheet contains Worksheet 4-1 (supplemental), in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE			
SUBMODULE	METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT			
WORKSHEET	4-1 (SUPPLEMENTAL)			
SPECIFY AWMS	ANAEROBIC LAGOONS			
SHEET	NITROGEN EXCRETION FOR ANIMAL WASTE MANAGEMENT SYSTEM			
COUNTRY	0			
YEAR	0			
Livestock Type	A Number of Animals	B Nitrogen Excretion Nex (kg/head/(yr))	C Fraction of Manure Nitrogen per AWMS (%/100) (fraction)	D Nitrogen Excretion per AWMS, Nex (kg N/yr) D = (A x B x C)
Non-dairy Cattle				0.00
Dairy Cattle				0.00
Poultry				0.00
Sheep				0.00
Swine				0.00
Others				0.00
TOTAL				0.00

Documentation box:
Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.



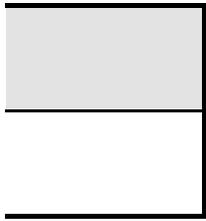
This spreadsheet contains Worksheet 4-1 (supplemental), in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE			
SUBMODULE	METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT			
WORKSHEET	4-1 (SUPPLEMENTAL)			
SPECIFY AWMS	LIQUID SYSTEMS			
SHEET	NITROGEN EXCRETION FOR ANIMAL WASTE MANAGEMENT SYSTEM			
COUNTRY	0			
YEAR	0			
Livestock Type	A Number of Animals	B Nitrogen Excretion Nex (kg/head/(yr))	C Fraction of Manure Nitrogen per AWMS (%/100) (fraction)	D Nitrogen Excretion per AWMS, Nex (kg N/yr)
				D = (A x B x C)
Non-dairy Cattle				0.00
Dairy Cattle				0.00
Poultry				0.00
Sheep				0.00
Swine				0.00
Others				0.00
			TOTAL	0.00

Documentation box:

Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

--



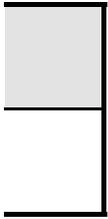
This spreadsheet contains Worksheet 4-1 (supplemental), in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE			
SUBMODULE	METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT			
WORKSHEET	4-1 (SUPPLEMENTAL)			
SPECIFY AWMS	SOLID STORAGE AND DRYLOT			
SHEET	NITROGEN EXCRETION FOR ANIMAL WASTE MANAGEMENT SYSTEM			
COUNTRY	0			
YEAR	0			
Livestock Type	A Number of Animals	B Nitrogen Excretion Nex (kg/head/(yr))	C Fraction of Manure Nitrogen per AWMS (%/100) (fraction)	D Nitrogen Excretion per AWMS, Nex (kg N/yr) D = (A x B x C)
Non-dairy Cattle				0.00
Dairy Cattle				0.00
Poultry				0.00
Sheep				0.00
Swine				0.00
Others				0.00
TOTAL				0.00

Documentation box:

Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

--



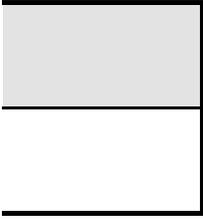
This spreadsheet contains Worksheet 4-1 (supplemental), in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE			
SUBMODULE	METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT			
WORKSHEET	4-1 (SUPPLEMENTAL)			
SPECIFY AWMS	DAILY SPREAD			
SHEET	NITROGEN EXCRETION FOR ANIMAL WASTE MANAGEMENT SYSTEM			
COUNTRY	0			
YEAR	0			
Livestock Type	A Number of Animals	B Nitrogen Excretion Nex (kg/head/(yr))	C Fraction of Manure Nitrogen per AWMS (%/100) (fraction)	D Nitrogen Excretion per AWMS, Nex (kg N/yr) D = (A x B x C)
Non-dairy Cattle				0.00
Dairy Cattle				0.00
Poultry				0.00
Sheep				0.00
Swine				0.00
Others				0.00
			TOTAL	0.00

Documentation box:

Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

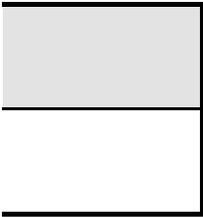
--



This spreadsheet contains Worksheet 4-1 (supplemental), in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE			
SUBMODULE	METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT			
WORKSHEET	4-1 (SUPPLEMENTAL)			
SPECIFY AWMS	PASTURE RANGE AND PADDOCK			
SHEET	NITROGEN EXCRETION FOR ANIMAL WASTE MANAGEMENT SYSTEM			
COUNTRY	0			
YEAR	0			
Livestock Type	A Number of Animals	B Nitrogen Excretion Nex (kg/head/(yr))	C Fraction of Manure Nitrogen per AWMS (%/100) (fraction)	D Nitrogen Excretion per AWMS, Nex (kg N/yr) D = (A x B x C)
Non-dairy Cattle				0.00
Dairy Cattle				0.00
Poultry				0.00
Sheep				0.00
Swine				0.00
Others				0.00
			TOTAL	0.00

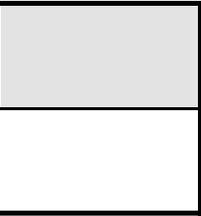
Documentation box:
Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.



This spreadsheet contains Worksheet 4-1 (supplemental), in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE			
SUBMODULE	METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT			
WORKSHEET	4-1 (SUPPLEMENTAL)			
SPECIFY AWMS	OTHER			
SHEET	NITROGEN EXCRETION FOR ANIMAL WASTE MANAGEMENT SYSTEM			
COUNTRY	0			
YEAR	0			
Livestock Type	A Number of Animals	B Nitrogen Excretion Nex (kg/head/yr)	C Fraction of Manure Nitrogen per AWMS (%/100) (fraction)	D Nitrogen Excretion per AWMS, Nex (kg N/yr) D = (A x B x C)
Non-dairy Cattle				0.00
Dairy Cattle				0.00
Poultry				0.00
Sheep				0.00
Swine				0.00
Others				0.00
TOTAL				0.00

Documentation box:
Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.



This spreadsheet contains sheet 2 of Worksheet 4-1, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE		
SUBMODULE	METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT		
WORKSHEET	4-1		
SHEET	2 OF 2 NITROUS OXIDE EMISSIONS FROM ANIMAL PRODUCTION EMISSIONS FROM ANIMAL WASTE MANAGEMENT SYSTEMS (AWMS)		
COUNTRY	0		
YEAR	0		
STEP 4			
Animal Waste Management System (AWMS)	A Nitrogen Excretion $N_{ex(AWMS)}$ (kg N/yr)	B Emission Factor For AWMS E_{F_3} (kg N_2O-N /kg N)	C Total Annual Emissions of N_2O (Gg)
			$C=(A \times B)[44/28] / 1\ 000\ 000$
Anaerobic lagoons	0.00		0.00
Liquid systems	0.00		0.00
Daily spread	0.00		
Solid storage & drylot	0.00		0.00
Pasture range and paddock	0.00		
Other	0.00		0.00
Total	0.00	Total	0.00

Documentation box: Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

This spreadsheet contains Worksheet 4-2, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE		AGRICULTURE				
SUBMODULE		METHANE EMISSIONS FROM FLOODED RICE FIELDS				
WORKSHEET		4-2				
SHEET		1 OF 1				
COUNTRY		0				
YEAR		0				
Water Management Regime		A	B	C	D	E
		Harvested Area	Scaling Factor for Methane Emissions	Correction Factor for Organic Amendment	Seasonally Integrated Emission Factor for Continuously Flooded Rice without Organic Amendment	CH ₄ Emissions
		(1000 ha)			(g/m ²)	(Gg)
						E = (A x B x C x D)/100
Irrigated	Continuously Flooded					0.00
	Intermittently Flooded	Single Aeration				0.00
		Multiple Aeration				0.00
Rainfed	Flood Prone					0.00
	Drought Prone					0.00
Deep Water	Water Depth 50-100 cm					0.00
	Water Depth > 100 cm					0.00
Totals		0.00				0.00

Documentation box:
 Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

This spreadsheet contains sheet 1 of Worksheet 4-3, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE		AGRICULTURE					
SUBMODULE		PRESCRIBED BURNING OF SAVANNAS					
WORKSHEET		4-3					
SHEET		1 OF 3					
COUNTRY		0					
YEAR		0					
STEP 1					STEP 2		
A	B	C	D	E	F	G	H
Area Burned by Category (specify)	Biomass Density of Savanna	Total Biomass Exposed to Burning	Fraction Actually Burned	Quantity Actually Burned	Fraction of Living Biomass Burned	Quantity of Living Biomass Burned	Quantity of Dead Biomass Burned
(k ha)	(t dm/ha)	(Gg dm)		(Gg dm)		(Gg dm)	(Gg dm)
		$C = (A \times B)$		$E = (C \times D)$		$G = (E \times F)$	$H = (E - G)$
		0.00		0.00		0.00	
							0.00
		0.00		0.00		0.00	
							0.00
		0.00		0.00		0.00	
							0.00
		0.00		0.00		0.00	
							0.00
		0.00		0.00		0.00	
							0.00
		0.00		0.00		0.00	
							0.00
		0.00		0.00		0.00	
							0.00
		0.00		0.00		0.00	
							0.00

Documentation box:
Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

This spreadsheet contains sheet 2 of Worksheet 4-3, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE		AGRICULTURE		
SUBMODULE		PRESCRIBED BURNING OF SAVANNAS		
WORKSHEET		4-3		
SHEET		2 OF 3		
COUNTRY		0		
YEAR		0		
STEP 3				
I Fraction Oxidised of living and dead biomass		J Total Biomass Oxidised (Gg dm)	K Carbon Fraction of Living & Dead Biomass	L Total Carbon Released (Gg C)
		<i>Living: J = (G x I)</i> <i>Dead: J = (H x I)</i>		<i>L = (J x K)</i>
Living		0.00		0.00
Dead		0.00		0.00
Living		0.00		0.00
Dead		0.00		0.00
Living		0.00		0.00
Dead		0.00		0.00
Living		0.00		0.00
Dead		0.00		0.00
Living		0.00		0.00
Dead		0.00		0.00
Living		0.00		0.00
Dead		0.00		0.00
Living		0.00		0.00
Dead		0.00		0.00
Total				0.00

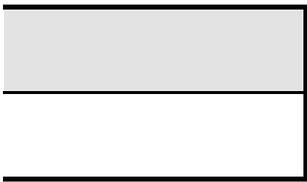
Documentation box:	
Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box	

XX.

This spreadsheet contains sheet 3 of Worksheet 4-3, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE		AGRICULTURE				
SUBMODULE		PRESCRIBED BURNING OF SAVANNAS				
WORKSHEET		4-3				
SHEET		3 OF 3				
COUNTRY		0				
YEAR		0				
STEP 4				STEP 5		
L Total Carbon Released (Gg C)	M Nitrogen-Carbon Ratio	N Total Nitrogen Content (Gg N)	O Emissions Ratio	P Emissions (Gg C or Gg N)	Q Conversion Ratio	R Emissions from Savanna Burning (Gg)
		$N = (L \times M)$		$P = (L \times O)$		$R = (P \times Q)$
				0.00	16/12	CH_4 0.00
				0.00	28/12	CO 0.00
0.00		0.00		$P = (N \times O)$		$R = (P \times Q)$
				0.00	44/28	N_2O 0.00
				0.00	46/14	NO_x 0.00

Documentation box:
 Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.



This spreadsheet contains sheet 3 of Worksheet 4-4, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE		AGRICULTURE		
SUBMODULE		FIELD BURNING OF AGRICULTURAL RESIDUES		
WORKSHEET		4-4		
SHEET		3 OF 3		
COUNTRY		0		
YEAR		0		
STEP 6				
	M Emission Ratio	N Emissions (Gg C or Gg N)	O Conversion Ratio	P Emissions from Field Burning of Agricultural Residues (Gg)
		$N = (J \times M)$		$P = (N \times O)$
CH ₄		0.00	16/12	0.00
CO		0.00	28/12	0.00
		$N = (L \times M)$		$P = (N \times O)$
N ₂ O		0.00	44/28	0.00
NO _x		0.00	46/14	0.00

Documentation box:

Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

--

This spreadsheet contains sheet 1 of Worksheet 4-5, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE		
SUBMODULE	AGRICULTURAL SOILS		
WORKSHEET	4-5		
SHEET	1 OF 5 DIRECT NITROUS OXIDE EMISSIONS FROM AGRICULTURAL FIELDS, EXCLUDING CULTIVATION OF HISTOSOLS		
COUNTRY	0		
YEAR	0		
	STEP 1		STEP 2
Type of N input to soil	A Amount of N Input (kg N/yr)	B Factor for Direct Emissions EF_1 (kg N ₂ O-N/kg N)	C Direct Soil Emissions (Gg N ₂ O-N/yr)
			$C = (A \times B) / 1\,000\,000$
Synthetic fertiliser (F_{SN})	0.00		0.00
Animal waste (F_{AW})	0.00		0.00
N-fixing crops (F_{BN})			0.00
Crop residue (F_{CR})	0.00		0.00
		Total	0.00

Documentation box:

Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

--

This spreadsheet contains Worksheet 4-5A (supplemental), in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE
SUBMODULE	AGRICULTURAL SOILS
WORKSHEET	4-5A (SUPPLEMENTAL)
SHEET	1 OF 1 MANURE NITROGEN USED
COUNTRY	0
YEAR	0

A	B	C	D	E	F
Total Nitrogen Excretion (kg N/yr)	Fraction of Nitrogen Burned for Fuel (fraction)	Fraction of Nitrogen Excreted During Grazing (fraction)	Fraction of Nitrogen Excreted Emitted as NO _x and NH ₃ (fraction)	Sum (fraction)	Manure Nitrogen Used (corrected for NO _x and NH ₃ emissions), F _{AW} (kg N/yr)
				$F = 1 - (B + C + D)$	$F = (A \times E)$
0.00				1.00	0.00

Documentation box: Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

This spreadsheet contains Worksheet 4-5B (supplemental), in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE		AGRICULTURE				
SUBMODULE		AGRICULTURAL SOILS				
WORKSHEET		4-5B (SUPPLEMENTAL)				
SHEET		1 OF 1 NITROGEN INPUT FROM CROP RESIDUES				
COUNTRY		0				
YEAR		0				
A	B	C	D	E	F	G
Production of non - N - Fixing Crops	Fraction of Nitrogen of non - N - Fixing Crops,	Production of Pulses and Soybeans	Fraction of Nitrogen in N-Fixing Crops,	One minus the Fraction of Crop Residue Removed From Field,	One minus the Fraction of Crop Residue Burned	Nitrogen Input from Crop Residues, \uparrow CR
(kg dry biomass/yr)	(kg N/kg dry biomass)	(kg dry biomass/yr)	(kg N/kg dry biomass)	(fraction)	(fraction)	(kg N/yr)
						$G = 2 \times (A \times B + C \times D) \times E \times F$
						0.00

Documentation box:

Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

--

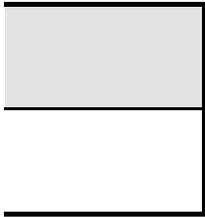
This spreadsheet contains sheet 2 of Worksheet 4-5, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE			
SUBMODULE	AGRICULTURAL SOILS			
WORKSHEET	4-5			
SHEET	2 OF 5 DIRECT NITROUS OXIDE EMISSIONS FROM CULTIVATION OF HISTOSOLS			
COUNTRY	0			
YEAR	0			
		STEP 3		STEP 4
	D Area of Cultivated Organic Soils F_{OS} (ha)	E Emission Factor for Direct Soil Emissions EF_2 (kg N ₂ O-N/ha/yr)	F Direct Emissions from Histosols (Gg N ₂ O-N/yr)	G Total Direct Emissions of N ₂ O (Gg)
			$F = (D \times E) / 1\,000\,000$	$G = (C + F) [44/28]$
Subtotal			0.00	0.00

Documentation box:

Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

--



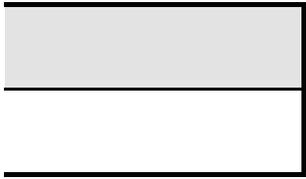
This spreadsheet contains sheet 3 of Worksheet 4-5, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE		
SUBMODULE	AGRICULTURAL SOILS		
WORKSHEET	4-5		
SHEET	3 OF 5 NITROUS OXIDE SOIL EMISSIONS FROM GRAZING ANIMALS - PASTURE RANGE AND PADDOCK		
COUNTRY	0		
YEAR	0		
STEP 5			
Animal Waste Management System (AWMS)	A Nitrogen Excretion $N_{ex(AWMS)}$ (kg N/yr)	B Emission Factor for AWMS EF_3 (kg N ₂ O-N/kg N)	C Emissions Of N ₂ O from Grazing Animals (Gg)
			$C = (A \times B) [44/28] / 1\ 000\ 000$
Pasture range & paddock	0.00		0.00

Documentation box:

Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

--



This spreadsheet contains sheet 4 of Worksheet 4-5, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE	AGRICULTURE							
SUBMODULE	AGRICULTURAL SOILS							
WORKSHEET	4-5							
SHEET	4 OF 5 INDIRECT NITROUS OXIDE EMISSIONS FROM ATMOSPHERIC DEPOSITION OF NH₃ AND NO_x							
COUNTRY	0							
YEAR	0							
STEP 6								
Type of Deposition	A Synthetic Fertiliser N Applied to Soil, N _{FERT} (kg N/yr)	B Fraction of Synthetic Fertiliser N Applied that Volatilizes Frac ^{GASFS} (kg N/kg N)	C Amount of Synthetic N Applied to Soil that Volatilizes (kg N/kg N)	D Total N Excretion by Livestock N _{EX} (kg N/yr)	E Fraction of Total Manure N Excreted that Volatilizes Frac ^{GASM} (kg N/kg N)	F Total N Excretion by Livestock that Volatilizes (kg N/kg N)	G Emission Factor EF ₄ (kg N ₂ O–N/kg N)	H Nitrous Oxide Emissions (Gg N ₂ O–N/yr)
			C = (A x B)			F = (D x E)		H = (C + F) x G / 1 000 000
Total			0.00	0.00		0.00		0.00

Documentation box:
Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

This spreadsheet contains sheet 5 of Worksheet 4-5, in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

MODULE		AGRICULTURE					
SUBMODULE		AGRICULTURAL SOILS					
WORKSHEET		4-5					
SHEET		5 OF 5 INDIRECT NITROUS OXIDE EMISSIONS FROM LEACHING					
COUNTRY		0					
YEAR		0					
		STEP 7			STEP 8	STEP 9	
	I Synthetic Fertiliser Use N_{FERT} (kg N/yr)	J Livestock N Excretion N_{EX} (kg N/yr)	K Fraction of N That Leaches $Frac_{LEACH}$ (kg N/kg N)	L Emission Factor EF_5	M Nitrous Oxide Emissions From Leaching (Gg N_2O-N/yr)	N Total Indirect Nitrous Oxide Emissions (Gg N_2O/yr)	O Total Nitrous Oxide Emissions (Gg)
					$M = (I + J) \times K \times L / 1\,000\,000$	$N = (H + M)[44/28]$	$O = (G + C + N)$ (G from Worksheet 4-5, sheet 2, Step 4; C from Worksheet 4-5, sheet 3, Step 5; N from Worksheet 4-5, sheet 5, Step 8).
Total	0.00	0.00			0.00	0.00	0.00

Documentation box:

Parties are encouraged to provide relevant information used in the calculation and on data sources in this documentation box.

--