

Crop, fodder/food	WRS	WWH	WWB	WBA	WBE	WYB	WYB	TRB	SBB	SWB	OAB	MCB	MCC	MCW	GRO	GCR	GCR	GHP	GRP	CGR0	CONC	
Crop #	22	11	13	10	14	16	14	16	19	29	39	59	3	5	216	263	260	261	2520	252	2610	9999
<NUE/e>	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	1.05	0.83	1.33	11.68	0.44	0.81	-2.75	1.00
N digestibility, food/fodder crops	0.84	0.67	0.68	0.66	0.62	0.65	0.62	0.65	0.67	0.67	0.64	0.84	0.64	0.62	0.63	0.78	0.80	0.80	0.66	0.78	0.80	0.87
<NUE/e> addition before cereal	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	0.11	0.04	0.11	29.21	0.00	0.00	-0.81	0.00
<NUE/e> addition from straw	0.09	0.07	0.07	0.08	0.11	0.10	0.08	0.10	0.08	0.05	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recalculated N norm, kg N/ha	144	157	198	147	117	141	117	141	118	118	93	140	93	140	160	309	199	21	132	132	-87	

Crop, PPO/biodiesel/bioethanol	WRB	WWHB	WWBB	WBB	WYB	WYB	TRB	SBB	SWB	OAB	MCB	
Crop #	229	119	139	109	149	169	149	169	19	29	39	59
<NUE/e>	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
N digestibility, other crop parts	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.83
<NUE/e> addition before cereal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<NUE/e> addition from straw	0.09	0.07	0.07	0.08	0.11	0.10	0.08	0.10	0.08	0.05	0.07	0.00
Recalculated N norm, kg N/ha	144	157	198	147	117	141	117	141	118	118	93	140

<NUE/e> amounts from crop res	0.02	0.07	0.06	0.05	0.10	0.09	0.06	0.08	0.06	0.14	0.04	0.04	0.13	1.28	0.15	0.15	-0.30
<NUE/e> amounts from N fixation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	7.97	0.00	0.00	-2.70

Manure/ferti- lizer kind, #	None	0	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	6	6	71	72	None	None
Manure handling	None	None	Liquid	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	high N	low N	None	None
Manure+straw, relative	1.000	1.016	1.016	1.159	1.000	1.000	1.024	1.127	1.000	1.000	1.000	1.013	1.000	1.162	1.000	1.162	1.000	1.162	1.000	1.000	1.000	1.000	1.000	
Vol/NH3 House	0.000	0.080	0.050	0.060	0.000	0.140	0.180	0.250	0.000	0.100	0.250	0.400	0.000	0.150	0.000	0.150	0.000	0.150	0.000	0.000	0.000	0.000	0.000	
Vol/NH3 Store	0.000	0.022	0.085	0.300	0.000	0.027	0.214	0.400	0.000	0.020	0.150	0.175	0.000	0.150	0.000	0.150	0.000	0.150	0.000	0.000	0.000	0.000	0.000	
% use of field store				20			70					85												
Vol/NH3 Field	0.000	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.070	0.250	0.250	0.250	0.250	0.250	0.070	0.250	0.070	0.250	0.070	0.250	0.250	0.250	0.250	
N efficiency	0.000	0.700	0.650	0.450	0.750	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.700	0.400	0.400	
N-Vol/NH3 efficiency	1.022	0.933	0.867	0.600	0.484	1.000	0.867	0.867	0.699	0.867	0.867	0.600	0.600	0.484	0.600	0.484	0.600	0.484	0.600	0.484	0.933	0.533	0.533	

Use Kind	Waste moved in field	Cattle Dairy	Cattle Beef	Pig Pork	Poultry Meat	Poultry Eggs	Sheep Milk/mutton	Goat Milk/meat	N crop high N	N crop low N	Food/ beverage	Fuel/ other
#	-1	0	21	32	42	43	51	61	71	72	8	
Fodder to food	N eff	0.264	0.227	0.418	0.510	0.241	0.142	0.096				
Fodder to food	N eff	0.264	0.146	0.269	0.328	0.272	0.142	0.096				
Fodder to food	ND eff	0.351	0.310									
Fodder to food	ND eff	0.351	0.199									

Ratios of N2O-N to N according to Fertilizer/manure	IPCC 1996 (current inventories)	IPCC 2006 (newest values, not yet used for inventories)
Handling/ Slurry and liquid manure	N Animal Green	N Animal Green
house/store	0 0.0010	0 0.0050
Application/field	0 0.0200	0 0.0050
Grazing, others	0.0125 0.0125 0.0125	0.0100 0.0100 0.0100
Volatilisation/NH3	0 0.0200	0 0.0200
Crop residues	0 0.0100	0 0.0100
N fixing crops	0 0.0000	0 0.0000
Leaching	0.0250 0.0250 0.0250	0.0075 0.0075 0.0075

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CATTLE DAIRY Note 43
 AND CONTINUING WITH LIQUID CATTLE MANURE TO PRODUCE CATTLE DAIRY Note 43

Year Fertilizer/manure Or- Nnorm Crop Cereal Straw Crop Fuel/ Fuel/ N2O-N emission N2O-N emission
 # Store Amounts Store 1/0 Field 1/0 ganic propor # 1/0 benefit used use & #71/ bev other #9 IPCC 1996 IPCC 2006
 Name 1/0 Store 1/0 Name 1/0 Name 1/0 Name Fed Food #72 #8 #9 # Name mounts Each Total Each Total

RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED																			
Total N	100.0	0	100	59	0	0	97.8	21	40.0	11.7	0.0	0.0	0.0	21	28.3	13.8	1.78	3.74	1.60	2.28	
Year N NH3	0.0	2.2	NON	100.00	MCB	1.000	NO	0	0	0	0	0	0	0	2.3	13.2	0.13	0.13	0.13	0.13	
1-10 N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	0	0	0	0	0	0	0	13.5	73.0	1.83	1.83	0.55	0.55	
TOTAL		0.0727	0.0936	0.0439	0.0571	TOTAL N AMOUNTS IN KG AND % LEACHED										73.4	100.5	100.0			

N2O-N in food/beverage/fuel/other 0.2704 0.1649 Note 46

Year	N	1	0	100.0	100.0	0	100	59	0	0	97.8	21	40.0	11.7	0.0	0.0	0.0	0.0	21	28.3	1.42	2.91	1.28	1.76
1	Vol/NH3	N	NO	0.0	2.2	NON	100.00	MCB	1.000	NO	0	0	0.83	0	0	0	0	0	0	2.3	0.04	0.0125	0.04	0.0100
	N leach	1.022	1.000	1.000	ORG	1.00	1.000	0.591	0.0	0	0	0	2	0	0	0	0	0	0	13.5	1.45	0.0010	0.43	0.0050
Year	N	21	0	26.5	26.5	0	100	11	0	0	19.9	21	7.4	1.7	0.0	0.0	0.0	0.0	21	5.7	0.29	0.67	0.26	0.42
2	Vol/NH3	Cattle	NO	0.0	6.6	NON	100.00	WWH	1.000	NO	0	0	0.67	0	0	0	0	0	0	0.5	0.07	0.0125	0.07	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0	0	2	2	0	0	0	0	0	2.7	0.0	0.0125	0.09	0.0050	
Year	N	21	0	5.3	5.3	0	100	11	0	0	4.0	21	1.5	0.3	0.0	0.0	0.0	0.0	21	1.1	0.06	0.13	0.05	0.08
3	Vol/NH3	Cattle	NO	0.0	1.3	NON	100.00	WWH	1.000	NO	0	0	0.67	0	0	0	0	0	0	0.1	0.01	0.0125	0.01	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0	0	2	2	0	0	0	0	0	0.5	0.0	0.06	0.0010	0.02	0.0050
Year	N	21	0	1.1	1.1	0	100	1	0	0	0.8	21	0.3	0.1	0.0	0.0	0.0	0.0	21	0.2	0.01	0.03	0.01	0.02
4	Vol/NH3	Cattle	NO	0.0	0.3	NON	100.00	SBA	1.000	NO	0	0	0.65	0	0	0	0	0	0	0.0	0.00	0.0125	0.00	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0	0	2	2	0	0	0	0	0	0.1	0.0	0.01	0.0010	0.00	0.0050
Year	N	21	0	0.2	0.2	0	100	10	0	0	0.2	21	0.1	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.01	0.00	0.00
5	Vol/NH3	Cattle	NO	0.0	0.1	NON	100.00	WBA	1.000	NO	0	0	0.66	0	0	0	0	0	0	0.0	0.00	0.0125	0.00	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0	0	2	2	0	0	0	0	0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0	0.0	0.0	0	100	59	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
6	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	MCB	1.000	NO	0	0	0.83	0	0	0	0	0	0	0.0	0.00	0.0125	0.00	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0	0	2	2	0	0	0	0	0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0	0.0	0.0	0	100	11	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
7	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WWH	1.000	NO	0	0	0.67	0	0	0	0	0	0	0.0	0.00	0.0125	0.00	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0	0	2	2	0	0	0	0	0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0	0.0	0.0	0	100	11	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
8	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WWH	1.000	NO	0	0	0.67	0	0	0	0	0	0	0.0	0.00	0.0125	0.00	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0	0	2	2	0	0	0	0	0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0	0.0	0.0	0	100	1	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
9	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	SBA	1.000	NO	0	0	0.65	0	0	0	0	0	0	0.0	0.00	0.0125	0.00	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0	0	2	2	0	0	0	0	0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0	0.0	0.0	0	100	10	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
10	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WBA	1.000	NO	0	0	0.66	0	0	0	0	0	0	0.0	0.00	0.0125	0.00	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0	0	2	2	0	0	0	0	0	0.0	0.0	0.00	0.0010	0.00	0.0050

Year Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1
 Area with crop, ha 0.71 0.15 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.27

Possible additional non IPCC N2O-N emissions Value
 N residues emissions, ratio of N2O-N to N: 0.0000
 Increased soil N emissions, kg N2O-N/ha: 0.00
 Natural background emissions, kg N2O-N/ha: 1.00
 Total IPCC and non IPCC N2O 3.74
 Total anthropogenic 3.74
 Total including natural 4.65
 Note 51 2.28 Note 51
 Note 51 2.28 Note 51
 Note 51 3.19 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE TO PRODUCE
AND CONTINUING WITH SEPARATED CATTLE MANURE TO PRODUCE TO PRODUCE TO PRODUCE

Year Fertilizer/manure # Store Amounts Field Name 1/0 Or-ganic 1/0 Nnorm propor 1/0 Crop # N crop Food/ #71/ bev #72 Food #73 Fuel/ other #9 Manure handling # Name Final N a- mounts Total N2O-N emission IPCC 1996 Total Each Total N2O-N emission IPCC 2006 Total Each Total

Table with 10 columns: Year, Fertilizer/manure #, Store, Amounts, Field, Name, Or-ganic, Nnorm, Crop, Fuel/other, Manure handling, Final N a-mounts, Total N2O-N emission IPCC 1996, Total Each, Total N2O-N emission IPCC 2006, Total Each, Total. Includes sub-headers for 'RATIO OF N2O-N TO N IN FIRST CROP' and 'TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED'.

N2O-N in food/beverage/fuel/other

Main data table with 17 columns: Year, Fertilizer/manure #, Store, Amounts, Field, Name, Or-ganic, Nnorm, Crop, Fuel/other, Manure handling, Final N a-mounts, Total N2O-N emission IPCC 1996, Total Each, Total N2O-N emission IPCC 2006, Total Each, Total. Rows 1-10 show data for various crops and years.

Year Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1

Area with crop, ha 0.71 0.15 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.90 1.26

Possible additional non IPCC N2O-N emissions Value 0.0000
N residues emissions, ratio of N2O-N to N: 0.00
Increased soil N emissions, kg N2O-N/ha: 1.00
Natural background emissions, kg N2O-N/ha: 1.00

Total IPCC and non IPCC N2O 4.09
Kind of source Current crops
Total anthropogenic 4.09
Total including natural 4.98

Note 51
2.29 Note 51
2.29 Note 51
3.19 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE
 AND CONTINUING WITH CATTLE DEEP LITTER TO PRODUCE

Year Fertilizer/manure # Store Amounts Field Or-ganic 1/0 Nnorm propor tion, % Name # Crop use & leach Straw used 1/0 Cereal benefit 1/0 N crop Food/ bev #71/ #8 Fuel/ other #9 Manure handling # Name Final N a- mounts N2O-N emission IPCC 1996 N2O-N emission IPCC 2006 Total Each Total Note

Year		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED											TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3						
Total N		RATIO OF N2O-N TO N IN FIRST CROP											13.2	12.6	2.41	4.50	1.62	2.34	Note 45
Year N NH3		IPCC 1996											13.3	12.6	0.13	0.13	0.13	0.13	Note 45
1-10 N leach		IPCC 2006											78.5	74.8	1.96	1.96	0.59	0.59	Note 45
TOTAL		TOTAL N AMOUNTS IN KG AND %											105.0	100.0					Note 45

N2O-N in food/beverage/fuel/other

Year	N	1	0	100.0	100.0	0	100	59	0	0	97.8	21	40.0	11.7	0.0	0.0	0.0	23	28.3	1.92	3.41	1.28	0.04	0.1000	Note 47
1	Vol/NH3	N	NO	0.0	0.0	2.2	NON	100.00	MCB	1.000	NO	0.83	0.83	0.83	0.83	0.0	0.0	0.0	0.0	0.0	0.04	0.0125	0.04	0.0100	Note 48
	N leach			1.022	1.000	1.000	ORG	1.00	1.000	0.591	0.0	57.8	Dairy	2	13.5	Deep	0.0	0.0	0.0	1.45	0.0200	0.43	0.0050	Note 49	
Year	N	23	0	30.9	0	100	11	0	0	0	23.2	21	5.6	1.3	0.0	0.0	0.0	23	4.2	0.41	0.93	0.29	0.50	Note 47	
2	Vol/NH3	Cattle	NO	0.0	0.0	7.7	NON	100.00	WWH	1.000	NO	0.67	0.67	0.67	0.67	0.0	0.0	0.0	0.3	0.08	0.0125	0.08	0.0100	Note 48	
	N leach	Deep		1.159	0.600	1.159	ORG	1.00	1.000	0.760	0.0	17.6	Dairy	2	3.2	Deep	0.0	0.0	0.0	0.44	0.0200	0.13	0.0050	Note 49	
Year	N	23	0	4.6	0	100	11	0	0	0	3.5	21	0.8	0.2	0.0	0.0	0.0	23	0.6	0.06	0.14	0.04	0.08	Note 47	
3	Vol/NH3	Cattle	NO	0.0	0.0	1.2	NON	100.00	WWH	1.000	NO	0.67	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.01	0.0125	0.01	0.0100	Note 48	
	N leach	Deep		1.159	0.600	1.159	ORG	1.00	1.000	0.760	0.0	2.6	Dairy	2	0.5	Deep	0.0	0.0	0.0	0.07	0.0200	0.02	0.0050	Note 49	
Year	N	23	0	0.7	0	100	1	0	0	0	0.5	21	0.1	0.0	0.0	0.0	0.0	23	0.1	0.01	0.02	0.01	0.01	Note 47	
4	Vol/NH3	Cattle	NO	0.0	0.0	0.2	NON	100.00	SBA	1.000	NO	0.65	0.65	0.65	0.65	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Deep		1.159	0.600	1.159	ORG	1.00	1.000	0.760	0.0	0.4	Dairy	2	0.1	Deep	0.0	0.0	0.0	0.01	0.0200	0.00	0.0050	Note 49	
Year	N	23	0	0.1	0	100	10	0	0	0	0.1	21	0.0	0.0	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.00	Note 47	
5	Vol/NH3	Cattle	NO	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	0.66	0.66	0.66	0.66	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Deep		1.159	0.600	1.159	ORG	1.00	1.000	0.760	0.0	0.1	Dairy	2	0.0	Deep	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year	N	23	0	0.0	0.0	0.0	NON	100.00	MCB	1.000	NO	0.83	0.83	0.83	0.83	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
6	Vol/NH3	Cattle	NO	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	0.760	0.760	0.760	0.760	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.0050	Note 49
	N leach	Deep		1.159	0.600	1.159	ORG	1.00	1.000	0.760	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year	N	23	0	0.0	0.0	0.0	NON	100.00	MCB	1.000	NO	0.83	0.83	0.83	0.83	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.0050	Note 48
7	Vol/NH3	Cattle	NO	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Deep		1.159	0.600	1.159	ORG	1.00	1.000	0.760	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year	N	23	0	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.67	0.67	0.67	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.0050	Note 47
8	Vol/NH3	Cattle	NO	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	0.760	0.760	0.760	0.760	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.0050	Note 48
	N leach	Deep		1.159	0.600	1.159	ORG	1.00	1.000	0.760	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year	N	23	0	0.0	0.0	0.0	NON	100.00	MCB	1.000	NO	0.67	0.67	0.67	0.67	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.0050	Note 47
9	Vol/NH3	Cattle	NO	0.0	0.0	0.0	NON	100.00	SBA	1.000	NO	0.65	0.65	0.65	0.65	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.0050	Note 48
	N leach	Deep		1.159	0.600	1.159	ORG	1.00	1.000	0.760	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year	N	23	0	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	0.66	0.66	0.66	0.66	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.0050	Note 47
10	Vol/NH3	Cattle	NO	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	0.66	0.66	0.66	0.66	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.0050	Note 48
	N leach	Deep		1.159	0.600	1.159	ORG	1.00	1.000	0.760	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050	Note 49	

Year Year1 Year2 Year3 Year4 Year5 Year6 Year7 Year8 Year9 Year10 Total Total/year 1
 Area with crop, ha 0.71 0.12 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.85 1.19 Note 50

Possible additional non IPCC N2O-N emissions Value
 N residues emissions, ratio of N2O-N to N: 0.0000
 Increased soil N emissions, kg N2O-N/ha: 0.00
 Natural background emissions, kg N2O-N/ha: 1.00

Total IPCC and non IPCC N2O
 4.50
 4.50
 5.35

Kind of source
 0.00 Current crops
 0.00 Total anthropogenic
 0.85 Total including natural

Note 51
 Note 51
 Note 51
 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE MAIZE COBS FOR BIOETHANOL AND CATTLE DAIRY
 AND CONTINUING WITH MANURE FROM GRAZING CATTLE TO PRODUCE WINTER WHEAT FOR CATTLE DAIRY

Year	Fertilizer/manure #	Store 1/0	Field 1/0	Or-ganic 1/0	Nhorm propor 1/0	Crop #	Cereal benefit 1/0	Straw used 1/0	Use Name	Fodder: Uses #21-61 Fed	N crop #71/ #72	Food #8	Fuel/ other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total
Total N	1	0	100.0	100.0	0	100	59	0	97.8	21	40.0	11.7	0.0	24	13.1	2.48	4.59	2.16
Year N NH3	NO	0.0	2.2	NON	100.00	MCB	1.000	NO	57.8	Cattle	0.83	0.0	0.0	24	28.3	1.96	3.43	1.71
1-10 N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	0.0	57.8	Dairy	2	13.5	Graz	0.0	0.02	0.0125	0.02	
Year 2	24	0	28.3	2.0	NON	100.00	WWH	1.000	26.4	21	5.1	1.2	0.0	24	3.9	1.45	0.200	0.43
N leach	Cattle	NO	0.0	0.3	NON	100.00	WWH	1.000	21.3	Cattle	0.67	0.0	0.0	24	0.0	0.02	0.0125	0.02
Year 3	24	0	3.9	0.3	NON	100.00	WWH	1.000	2.9	Cattle	0.67	0.0	0.0	24	0.0	0.02	0.0125	0.02
N leach	Graz	0.484	1.000	0.5	0.5	1.000	1	0.0	0.5	Dairy	2	0.0	0.0	24	0.0	0.02	0.0125	0.02
Year 4	24	0	0.5	0.0	NON	100.00	SBA	1.000	0.4	Cattle	0.65	0.0	0.0	24	0.0	0.01	0.02	0.01
N leach	Cattle	NO	0.0	0.0	NON	100.00	SBA	1.000	0.4	Dairy	2	0.0	0.0	24	0.0	0.01	0.02	0.01
Year 5	24	0	0.1	0.0	NON	100.00	WBA	1.000	0.1	Cattle	0.66	0.0	0.0	24	0.0	0.01	0.02	0.01
N leach	Graz	0.484	1.000	0.0	NON	100.00	WBA	1.000	0.1	Dairy	2	0.0	0.0	24	0.0	0.01	0.02	0.01
Year 6	24	0	0.0	0.0	NON	100.00	MCB	1.000	0.0	Cattle	0.83	0.0	0.0	24	0.0	0.00	0.0125	0.00
N leach	Cattle	NO	0.0	0.0	NON	100.00	MCB	1.000	0.0	Dairy	2	0.0	0.0	24	0.0	0.00	0.0125	0.00
Year 7	24	0	0.0	0.0	NON	100.00	WWH	1.000	0.0	Cattle	0.67	0.0	0.0	24	0.0	0.00	0.0125	0.00
N leach	Graz	0.484	1.000	0.0	NON	100.00	WWH	1.000	0.0	Dairy	2	0.0	0.0	24	0.0	0.00	0.0125	0.00
Year 8	24	0	0.0	0.0	NON	100.00	WWH	1.000	0.0	Cattle	0.67	0.0	0.0	24	0.0	0.00	0.0125	0.00
N leach	Cattle	NO	0.0	0.0	NON	100.00	WWH	1.000	0.0	Dairy	2	0.0	0.0	24	0.0	0.00	0.0125	0.00
Year 9	24	0	0.0	0.0	NON	100.00	SBA	1.000	0.0	Cattle	0.65	0.0	0.0	24	0.0	0.00	0.0125	0.00
N leach	Graz	0.484	1.000	0.0	NON	100.00	SBA	1.000	0.0	Dairy	2	0.0	0.0	24	0.0	0.00	0.0125	0.00
Year 10	24	0	0.0	0.0	NON	100.00	WBA	1.000	0.0	Cattle	0.66	0.0	0.0	24	0.0	0.00	0.0125	0.00
N leach	Cattle	NO	0.0	0.0	NON	100.00	WBA	1.000	0.0	Dairy	2	0.0	0.0	24	0.0	0.00	0.0125	0.00

N2O-N in food/beverage/fuel/other

Year	N	Vol/NH3	N	100.0	0	100	59	0	97.8	21	40.0	11.7	0.0	24	28.3	1.96	3.43	1.71
Year 1	N	leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	57.8	Cattle	0.83	0.0	24	28.3	1.96	3.43	1.71
Year 2	N	leach	28.3	2.0	NON	100.00	WWH	1.000	26.4	21	5.1	1.2	0.0	24	3.9	1.45	0.200	0.43
Year 3	N	leach	3.9	0.3	NON	100.00	WWH	1.000	21.3	Cattle	0.67	0.0	0.0	24	0.0	0.02	0.0125	0.02
Year 4	N	leach	0.5	0.0	NON	100.00	SBA	1.000	0.4	Cattle	0.65	0.0	0.0	24	0.0	0.01	0.02	0.01
Year 5	N	leach	0.1	0.0	NON	100.00	WBA	1.000	0.1	Cattle	0.66	0.0	0.0	24	0.0	0.01	0.02	0.01
Year 6	N	leach	0.0	0.0	NON	100.00	MCB	1.000	0.0	Cattle	0.83	0.0	0.0	24	0.0	0.00	0.0125	0.00
Year 7	N	leach	0.0	0.0	NON	100.00	WWH	1.000	0.0	Cattle	0.67	0.0	0.0	24	0.0	0.00	0.0125	0.00
Year 8	N	leach	0.0	0.0	NON	100.00	WWH	1.000	0.0	Cattle	0.67	0.0	0.0	24	0.0	0.00	0.0125	0.00
Year 9	N	leach	0.0	0.0	NON	100.00	SBA	1.000	0.0	Cattle	0.65	0.0	0.0	24	0.0	0.00	0.0125	0.00
Year 10	N	leach	0.0	0.0	NON	100.00	WBA	1.000	0.0	Cattle	0.66	0.0	0.0	24	0.0	0.00	0.0125	0.00

Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1

Area with crop, ha 0.71 0.09 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.81 1.14

Possible additional non IPCC N2O-N emissions Value 0.0000
 N residues emissions, ratio of N2O-N to N: 0.00
 Increased soil N emissions, kg N2O-N/ha: 1.00
 Natural background emissions, kg N2O-N/ha: 0.71
 Total IPCC and non IPCC N2O 4.59
 Total anthropogenic 4.59
 Total including natural 5.40
 Note 51 2.83 Note 51 2.83 Note 51 3.64 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL Straw Crop N crop Food/ Fuel/ Manure Final N2O-N emission
AND CONTINUING WITH LIQUID CATTLE MANURE TO PRODUCE TO PRODUCE use & leach use # #71/ bev other #9 # Name mounts handling N a- IPCC 1996
Name 1/0 Store Field 1/0 Or- Nnorm Crop Cereal benefit used 1/0 leach use # Uses #21-61 #72 #8 #9 # Name mounts # Name mounts Each Total Each Total

Year Fertilizer/manure # Store Amounts 1/0 Name 1/0 Store Field 1/0 Or- Nnorm Crop Cereal benefit used 1/0 leach use # Uses #21-61 #72 #8 #9 # Name mounts handling N a- IPCC 1996 N2O-N emission IPCC 2006
Name 1/0 Store Field 1/0 Or- Nnorm Crop Cereal benefit used 1/0 leach use # Uses #21-61 #72 #8 #9 # Name mounts handling N a- IPCC 1996 N2O-N emission IPCC 2006
Name 1/0 Store Field 1/0 Or- Nnorm Crop Cereal benefit used 1/0 leach use # Uses #21-61 #72 #8 #9 # Name mounts handling N a- IPCC 1996 N2O-N emission IPCC 2006

Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		12.3	12.3	
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3			14.0	13.9
1-10 N leach	0.0727	0.0441	TOTAL N AMOUNTS IN KG AND % LEACHED			74.3	73.9
TOTAL	0.0949	0.0581	TOTAL N AMOUNTS IN KG AND %			100.6	100.0

N2O-N in food/beverage/fuel/other

Year N	1	0	100.0	100.0	0	100	59	0	0	97.8	22	40.0	10.3	0.0	0.0	0.0	21	29.7	1.80	3.80	1.63	2.32
1	Vol/NH3	N	NO	0.0	2.2	NON	100.00	MCB	1.000	NO	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.05	0.14	0.14	0.14
N leach	1.022	1.000	1.000	1.000	0.591	0.0	1.000	0.0	0.591	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.14	0.14	0.14
Year N	21	0	27.8	27.8	0	100	11	0	0	20.8	22	7.8	1.6	0.0	0.0	0.0	21	6.2	0.30	0.70	0.27	0.44
2	Vol/NH3	Cattle	NO	0.0	6.9	NON	100.00	WWH	1.000	NO	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.07	0.125	0.07	0.100
N leach	0.933	1.016	1.016	1.016	0.627	0.0	1.000	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.125	0.07	0.100
Year N	21	0	5.8	5.8	0	100	11	0	0	4.3	22	1.6	0.3	0.0	0.0	0.0	21	1.3	0.06	0.15	0.06	0.09
3	Vol/NH3	Cattle	NO	0.0	1.4	NON	100.00	WWH	1.000	NO	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.02	0.125	0.02	0.100
N leach	0.933	1.016	1.016	1.016	0.627	0.0	1.000	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.125	0.02	0.100
Year N	21	0	1.2	1.2	0	100	1	0	0	0.9	22	0.3	0.1	0.0	0.0	0.0	21	0.3	0.01	0.03	0.01	0.02
4	Vol/NH3	Cattle	NO	0.0	0.3	NON	100.00	SBA	1.000	NO	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.00	0.125	0.00	0.050
N leach	0.933	1.016	1.016	1.016	0.627	0.0	1.000	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.050
Year N	21	0	0.2	0.2	0	100	10	0	0	0.2	22	0.1	0.0	0.0	0.0	0.0	21	0.1	0.00	0.01	0.00	0.00
5	Vol/NH3	Cattle	NO	0.0	0.1	NON	100.00	WBA	1.000	NO	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.00	0.125	0.00	0.050
N leach	0.933	1.016	1.016	1.016	0.627	0.0	1.000	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.050
Year N	21	0	0.1	0.1	0	100	59	0	0	0.1	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
6	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	MCB	1.000	NO	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.00	0.125	0.00	0.050
N leach	0.933	1.016	1.016	1.016	0.627	0.0	1.000	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.050
Year N	21	0	0.0	0.0	0.0	100	11	0	0	0.0	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
7	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.00	0.125	0.00	0.050
N leach	0.933	1.016	1.016	1.016	0.627	0.0	1.000	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.050
Year N	21	0	0.0	0.0	0.0	100	11	0	0	0.0	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
8	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.00	0.125	0.00	0.050
N leach	0.933	1.016	1.016	1.016	0.627	0.0	1.000	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.050
Year N	21	0	0.0	0.0	0.0	100	1	0	0	0.0	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
9	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	SBA	1.000	NO	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.00	0.125	0.00	0.050
N leach	0.933	1.016	1.016	1.016	0.627	0.0	1.000	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.050
Year N	21	0	0.0	0.0	0.0	100	10	0	0	0.0	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
10	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WBA	1.000	NO	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.00	0.125	0.00	0.050
N leach	0.933	1.016	1.016	1.016	0.627	0.0	1.000	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.050

Year Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1

Area with crop, ha 0.71 0.16 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.92 1.29

Possible additional non IPCC N2O-N emissions Value
N residues emissions, ratio of N2O-N to N: 0.0000
Increased soil N emissions, kg N2O-N/ha: 0.00
Natural background emissions, kg N2O-N/ha: 1.00

Total IPCC and non IPCC N2O 3.80
Kind of source
Total anthropogenic 3.80
Total including natural 4.72
Note 51
Note 51
Note 51
Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CATTLE BEEF
 AND CONTINUING WITH SEPARATED CATTLE MANURE TO PRODUCE CATTLE BEEF

Year	Fertilizer/manure #	Store 1/0	Amounts	Field	Or-ganic 1/0	Nnorm propor 1/0	Crop #	Straw used 1/0	Cereal benefit 1/0	Fuel/other #9	N crop #71	Food #72	Manure handling #	Final N a-	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
Total N	1	0	100.0	100.0	2.2 NON	100.0	59	0	1.000 NO	0.0	0.0	10.3	22	12.2	2.14	1.64
Year N NH3	NO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.13
1-10 N leach	1.022	1.000	1.000	1.000	0.591	1.000	11	0	0.591	0.0	0.0	0.0	0.0	0.0	1.88	0.57
Year 1	22	0	28.7	28.7	7.2 NON	100.0	11	0	1.000 NO	0.0	0.0	1.5	22	5.9	0.36	0.28
Year 2	0	0.867	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.3	22	0.0	0.07	0.07
Year 3	22	0	5.7	5.7	1.4 NON	100.0	11	0	1.000 NO	0.0	0.0	0.3	22	1.2	0.06	0.11
Year 4	0	0.867	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.1	22	0.0	0.01	0.01
Year 5	22	0	0.2	0.2	0.3 NON	100.0	10	0	1.000 NO	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 6	0	0.867	1.016	0.0	0.653	1.000	10	0	0.653	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 7	22	0	0.0	0.0	0.1 NON	100.0	11	0	1.000 NO	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 8	0	0.867	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 9	22	0	0.0	0.0	0.0 NON	100.0	11	0	1.000 NO	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 10	0	0.867	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.0	22	0.0	0.00	0.00
N leach	0.867	1.016	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.0	22	0.0	0.00	0.00

N2O-N/N in food/beverage/fuel/other

Year	N	Vol/NH3	1	0	100.0	100.0	59	0	0	97.8	40.0	10.3	22	29.7	1.69	1.29
Year 1	NO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	1.5	0.04	0.04
Year 2	0	0.867	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 3	22	0	5.7	5.7	1.4 NON	100.0	11	0	1.000 NO	0.0	0.0	0.3	22	0.0	0.00	0.00
Year 4	0	0.867	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.1	22	0.0	0.00	0.00
Year 5	22	0	0.2	0.2	0.3 NON	100.0	10	0	1.000 NO	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 6	0	0.867	1.016	0.0	0.653	1.000	10	0	0.653	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 7	22	0	0.0	0.0	0.1 NON	100.0	11	0	1.000 NO	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 8	0	0.867	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 9	22	0	0.0	0.0	0.0 NON	100.0	11	0	1.000 NO	0.0	0.0	0.0	22	0.0	0.00	0.00
Year 10	0	0.867	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.0	22	0.0	0.00	0.00
N leach	0.867	1.016	1.016	0.0	0.653	1.000	11	0	0.653	0.0	0.0	0.0	22	0.0	0.00	0.00

Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1

Area with crop, ha 0.71 0.15 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.91 1.27

Possible additional non IPCC N2O-N emissions Value
 N residues emissions, ratio of N2O-N to N: 0.0000
 Increased soil N emissions, kg N2O-N/ha: 0.00
 Natural background emissions, kg N2O-N/ha: 1.00

Total IPCC and non IPCC N2O 4.16
 Total anthropogenic 4.16
 Total including natural 5.07

Note 43
 Note 43
 Note 44
 Note 44
 Note 44
 Note 45
 Note 45
 Note 46
 Note 47
 Note 48
 Note 49
 Note 48
 Note 47
 Note 48
 Note 49
 Note 47
 Note 48
 Note 49
 Note 47
 Note 48
 Note 49
 Note 50
 Note 51
 Note 51
 Note 51
 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL TO PRODUCE MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR PIG PORK

AND CONTINUING WITH LIQUID PIG MANURE TO PRODUCE TO PRODUCE TO PRODUCE

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Use Name	Fodder: Uses #21-61 Fed	N crop #71/ #72	Fuel/ bev #8	Fuel/ other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	
Total N	1	0	100.0	100.0	0	100	59	97.8 Pig	40.0	16.7	0.0	0.0	31	23.3	1.67	3.50	1.47	2.10
Year N NH3	NO	0.0	2.2 NON	100.00	0	1000	NO	57.8 Pig	0.83	0.0	0.0	0.0	0.0 Pig	3.3	0.05	0.125	0.12	0.12
1-10 N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	57.8 Pork	3	13.5 Liquid	0.0	0.0	0.0	0.0	1.45	0.0010	0.43	0.0050
Year 2	31	0	20.0	0	100	11	0	15.0 Pig	6.0	2.5	0.0	0.0	31	3.5	0.22	0.50	0.19	0.31
N leach	NO	0.0	5.0 NON	100.00	0	1000	WWH	9.0 Pig	0.67	0.0	0.0	0.0	0.0 Pig	0.5	0.05	0.125	0.05	0.1000
Year 3	31	0	3.0	0	100	11	0	9.0 Pork	3	0.4	0.0	0.0	31	0.0	0.23	0.0010	0.07	0.0050
N leach	Liquid	1.000	ORG	1.00	1.000	0.600	0.0	2.3 Pig	0.9	0.0	0.0	0.0	0.0 Pig	0.5	0.03	0.07	0.03	0.05
Year 4	31	0	0.8 NON	100.00	0	1000	WWH	1.4 Pig	0.67	0.1	0.0	0.0	0.0 Pig	0.1	0.01	0.125	0.01	0.1000
N leach	Liquid	1.000	ORG	1.00	1.000	0.600	0.0	1.4 Pork	3	0.1	0.0	0.0	0.3 Liquid	0.0	0.03	0.0010	0.01	0.0050
Year 5	31	0	0.5	0	100	1	0	0.3 Pig	0.65	0.0	0.0	0.0	0.0 Pig	0.1	0.00	0.01	0.00	0.01
N leach	NO	0.0	0.1 NON	100.00	0	1000	SBA	0.2 Pig	0.65	0.0	0.0	0.0	0.0 Pig	0.0	0.00	0.125	0.00	0.1000
Year 6	31	0	0.1	0	100	10	0	0.2 Pork	3	0.0	0.0	0.0	0.0 Liquid	0.0	0.01	0.0010	0.00	0.0050
N leach	Liquid	1.000	ORG	1.00	1.000	0.600	0.0	0.1 Pig	0.66	0.0	0.0	0.0	0.0 Pig	0.0	0.00	0.00	0.00	0.00
Year 7	31	0	0.0 NON	100.00	0	1000	WBA	0.0 Pig	0.66	0.0	0.0	0.0	0.0 Pig	0.0	0.00	0.125	0.00	0.1000
N leach	Liquid	1.000	ORG	1.00	1.000	0.600	0.0	0.0 Pork	3	0.0	0.0	0.0	0.0 Liquid	0.0	0.00	0.0010	0.00	0.0050
Year 8	31	0	0.0 NON	100.00	0	1000	MCB	0.0 Pig	0.83	0.0	0.0	0.0	0.0 Pig	0.0	0.00	0.125	0.00	0.1000
N leach	Liquid	1.000	ORG	1.00	1.000	0.600	0.0	0.0 Pork	3	0.0	0.0	0.0	0.0 Liquid	0.0	0.00	0.0010	0.00	0.0050
Year 9	31	0	0.0 NON	100.00	0	1000	WWH	0.0 Pig	0.67	0.0	0.0	0.0	0.0 Pig	0.0	0.00	0.125	0.00	0.1000
N leach	Liquid	1.000	ORG	1.00	1.000	0.600	0.0	0.0 Pork	3	0.0	0.0	0.0	0.0 Liquid	0.0	0.00	0.0010	0.00	0.0050
Year 10	31	0	0.0 NON	100.00	0	1000	WBA	0.0 Pig	0.67	0.0	0.0	0.0	0.0 Pig	0.0	0.00	0.125	0.00	0.1000
N leach	Liquid	1.000	ORG	1.00	1.000	0.600	0.0	0.0 Pork	3	0.0	0.0	0.0	0.0 Liquid	0.0	0.00	0.0010	0.00	0.0050

N2O-N in food/beverage/fuel/other

Year	N	Vol/NH3	N	NO	0	100.0	100.0	0	0	0	0	0	0	0	0	0	0	0	0
Year 1	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0
Year 2	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0
Year 3	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0
Year 4	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0
Year 5	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0
Year 6	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0
Year 7	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0
Year 8	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0
Year 9	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0
Year 10	1	NO	0.0	1.000	NO	1.000	NO	0	0	0	0	0	0	0	0	0	0	0	0

Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1

Area with crop, ha 0.71 0.12 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.86 1.21

Possible additional non IPCC N2O-N emissions Value 0.0000
 N residues emissions, ratio of N2O-N to N: 0.00
 Increased soil N emissions, kg N2O-N/ha: 1.00
 Natural background emissions, kg N2O-N/ha: 0.71

Total IPCC and non IPCC N2O 3.50
 Total anthropogenic 3.50
 Total including natural 4.36

Kind of source
 Current crops 2.10
 Total anthropogenic 2.10
 Total including natural 2.97

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE MAIZE COBS FOR BIOETHANOL AND PIG PORK
 AND CONTINUING WITH SEPARATED PIG MANURE TO PRODUCE WINTER WHEAT FOR

Year	Fertilizer/manure #	Store 1/0	Store	Field	Or-ganic 1/0	Nnorm propor 1/0	Crop #	Straw used 1/0	Crop leach 1/0	Use #	Food Fed	N crop #71-#72	Fuel/ other #9	Manure handling #	Final N a-	N2O-N emission IPCC 1996	Total	N2O-N emission IPCC 2006	Total
------	---------------------	-----------	-------	-------	--------------	------------------	--------	----------------	----------------	-------	----------	----------------	----------------	-------------------	------------	--------------------------	-------	--------------------------	-------

TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		
RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	
Year 1-10	IPCC 1996	IPCC 2006
	0.0775	0.0435
TOTAL	0.0926	0.0524

TOTAL N AMOUNTS IN KG AND %																							
Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	
Year 1	1	0	100.0	0	100	59	0	0	0	97.8	32	40.0	16.7	0.0	0.0	0.0	0.0	32	23.3	1.59	3.10	1.24	0.1094
Vol/NH3 N		NO	2.2	NON	100.00	MCB	1.000	NO	0	57.8	Pig	0.83	0	0	0	0	0	32	4.2	0.06	0.0125	1.24	0.1094
N leach		1.022	1.000	ORG	1.00	1.000	0.591	0.0	0.0	57.8	Pork	3	13.5	0.0	0.0	0.0	0.0	32	0.0	1.45	0.0105	0.06	0.1094
Year 2	32	0	19.5	0	100	11	0	0	0	14.7	32	5.1	2.1	0.0	0.0	0.0	0.0	32	3.0	0.23	0.53	0.43	0.1094
Vol/NH3 Pig		NO	4.9	NON	100.00	WWH	1.000	NO	0	9.6	Pig	0.67	0.0	0.0	0.0	0.0	0.0	32	0.5	0.05	0.125	0.43	0.1094
N leach		0.867	1.024	ORG	1.00	1.000	0.653	0.0	0.0	9.6	Pork	3	2.0	0.0	0.0	0.0	0.0	32	0.0	0.24	0.105	0.07	0.1094
Year 3	32	0	2.5	0	100	11	0	0	0	1.9	32	0.6	0.3	0.0	0.0	0.0	0.0	32	0.4	0.03	0.07	0.02	0.1094
Vol/NH3 Pig		NO	0.6	NON	100.00	WWH	1.000	NO	0	1.2	Pig	0.67	0	0	0	0	0	32	0.1	0.01	0.0125	0.01	0.1094
N leach		0.867	1.024	ORG	1.00	1.000	0.653	0.0	0.0	1.2	Pork	3	0.3	0.0	0.0	0.0	0.0	32	0.0	0.03	0.0105	0.01	0.1094
Year 4	32	0	0.3	0	100	1	0	0	0	0.2	32	0.1	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.01	0.00	0.1094
Vol/NH3 Pig		NO	0.1	NON	100.00	SBA	1.000	NO	0	0.2	Pig	0.65	0	0	0	0	0	32	0.0	0.00	0.0125	0.00	0.1094
N leach		0.867	1.024	ORG	1.00	1.000	0.653	0.0	0.0	0.2	Pork	3	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.0105	0.00	0.1094
Year 5	32	0	0.0	0	100	10	0	0	0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	0.1094
Vol/NH3 Pig		NO	0.0	NON	100.00	WBA	1.000	NO	0	0.0	Pig	0.66	0	0	0	0	0	32	0.0	0.00	0.00	0.00	0.1094
N leach		0.867	1.024	ORG	1.00	1.000	0.653	0.0	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.0125	0.00	0.1094
Year 6	32	0	0.0	0	100	59	0	0	0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	0.1094
Vol/NH3 Pig		NO	0.0	NON	100.00	MCB	1.000	NO	0	0.0	Pig	0.83	0	0	0	0	0	32	0.0	0.00	0.0125	0.00	0.1094
N leach		0.867	1.024	ORG	1.00	1.000	0.653	0.0	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.0105	0.00	0.1094
Year 7	32	0	0.0	0	100	11	0	0	0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	0.1094
Vol/NH3 Pig		NO	0.0	NON	100.00	WWH	1.000	NO	0	0.0	Pig	0.67	0	0	0	0	0	32	0.0	0.00	0.0125	0.00	0.1094
N leach		0.867	1.024	ORG	1.00	1.000	0.653	0.0	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.0105	0.00	0.1094
Year 8	32	0	0.0	0	100	11	0	0	0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	0.1094
Vol/NH3 Pig		NO	0.0	NON	100.00	WWH	1.000	NO	0	0.0	Pig	0.67	0	0	0	0	0	32	0.0	0.00	0.0125	0.00	0.1094
N leach		0.867	1.024	ORG	1.00	1.000	0.653	0.0	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.0105	0.00	0.1094
Year 9	32	0	0.0	0	100	1	0	0	0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	0.1094
Vol/NH3 Pig		NO	0.0	NON	100.00	SBA	1.000	NO	0	0.0	Pig	0.65	0	0	0	0	0	32	0.0	0.00	0.0125	0.00	0.1094
N leach		0.867	1.024	ORG	1.00	1.000	0.653	0.0	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.0105	0.00	0.1094
Year 10	32	0	0.0	0	100	10	0	0	0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	0.1094
Vol/NH3 Pig		NO	0.0	NON	100.00	WBA	1.000	NO	0	0.0	Pig	0.66	0	0	0	0	0	32	0.0	0.00	0.0125	0.00	0.1094
N leach		0.867	1.024	ORG	1.00	1.000	0.653	0.0	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.0105	0.00	0.1094

Year 1												Year 2		Year 3		Year 4		Year 5		Year 6		Year 7		Year 8		Year 9		Year 10		Total
Area with crop, ha	Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Total									
Possible additional non IPCC N2O-N emissions	0.0000	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	0.84	1.17	1.72	3.71	3.71	4.54	4.54	4.54	4.54	
N residues emissions, ratio of N2O-N to N:	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	0.84	1.17	1.72	3.71	3.71	4.54	4.54	4.54	4.54	
Increased soil N emissions, kg N2O-N/ha:	1.00	0.71	0.11	0.11	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.84	1.17	1.72	3.71	3.71	4.54	4.54	4.54	4.54	
Natural background emissions, kg N2O-N/ha:	1.00	0.71	0.11	0.11	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.84	1.17	1.72	3.71	3.71	4.54	4.54	4.54	4.54	4.54

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL TO PRODUCE MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR PIG PORK
 AND CONTINUING WITH PIG DEEP LITTER TO PRODUCE TO PRODUCE WINTER WHEAT FOR PIG PORK

Year	Fertilizer/manure #	Store Name	Store 1/0	Amounts Field	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Straw used 1/0	Cereal benefit 1/0	Use Name	Fodder: Uses #21-61 Fed	N crop #71/ #72	Fuel/other #9	Fuel/other #8	Manure handling #	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	
Total N	1	0	100.0	100.0	2.2 NON	100.00	MCB	0	1.000	97.8 Pig	40.0	0.0	0.0	0.0	33	18.7	2.03	3.90	1.45	2.11
Year N NH3	NO	0.0	0.0	0.0	ORG	1.00	1.000	0	0.591	57.8 Pork	0.83	0.0	0.0	0.0	0.0	5.8	0.08	0.125	0.15	0.15
1-10 N leach	1.022	1.000	19.7	19.7	0	100	11	0	0	14.8	5.1	2.1	0.0	0.0	33	0.0	1.45	0.0200	0.52	0.52
Year 2	33	0	19.7	19.7	4.9 NON	100.00	WWH	0	1.000	9.6 Pig	0.67	0.0	0.0	0.0	0.0	0.7	0.06	0.125	0.06	0.1000
N leach	0.867	1.127	2.5	2.5	ORG	1.00	1.000	0	0.653	9.6 Pork	3	0.3	0.0	0.0	33	0.0	0.24	0.0200	0.07	0.0050
Year 3	33	0	2.5	2.5	0.6 NON	100.00	WWH	0	1.000	1.2 Pig	0.67	0.0	0.0	0.0	0.0	0.4	0.03	0.07	0.02	0.04
N leach	0.867	1.127	0.3	0.3	ORG	1.00	1.000	0	0.653	1.2 Pork	3	0.0	0.0	0.0	33	0.1	0.01	0.125	0.01	0.0100
Year 4	33	0	0.3	0.3	0.3	0	1	0	0	0.2	0.1	0.0	0.0	0.0	33	0.0	0.03	0.0200	0.01	0.0050
N leach	0.867	1.127	0.1	0.1	0.1 NON	100.00	SBA	0	1.000	0.2 Pig	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.0100
Year 5	33	0	0.0	0.0	0.0	0	10	0	0	0.2	0.0	0.0	0.0	0.0	33	0.0	0.00	0.0200	0.00	0.0050
N leach	0.867	1.127	0.0	0.0	ORG	1.00	1.000	0	0.653	0.2 Pork	3	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050
Year 6	33	0	0.0	0.0	0.0 NON	100.00	WBA	0	1.000	0.0 Pig	0.66	0.0	0.0	0.0	33	0.0	0.00	0.0200	0.00	0.0050
N leach	0.867	1.127	0.0	0.0	ORG	1.00	1.000	0	0.653	0.0 Pork	3	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050
Year 7	33	0	0.0	0.0	0.0 NON	100.00	MCB	0	1.000	0.0 Pig	0.83	0.0	0.0	0.0	33	0.0	0.00	0.125	0.00	0.0100
N leach	0.867	1.127	0.0	0.0	ORG	1.00	1.000	0	0.653	0.0 Pork	3	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050
Year 8	33	0	0.0	0.0	0.0 NON	100.00	WWH	0	1.000	0.0 Pig	0.67	0.0	0.0	0.0	33	0.0	0.00	0.125	0.00	0.0100
N leach	0.867	1.127	0.0	0.0	ORG	1.00	1.000	0	0.653	0.0 Pork	3	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050
Year 9	33	0	0.0	0.0	0.0 NON	100.00	SBA	0	1.000	0.0 Pig	0.65	0.0	0.0	0.0	33	0.0	0.00	0.125	0.00	0.0100
N leach	0.867	1.127	0.0	0.0	ORG	1.00	1.000	0	0.653	0.0 Pork	3	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050
Year 10	33	0	0.0	0.0	0.0 NON	100.00	WBA	0	1.000	0.0 Pig	0.66	0.0	0.0	0.0	33	0.0	0.00	0.125	0.00	0.0100
N leach	0.867	1.127	0.0	0.0	ORG	1.00	1.000	0	0.653	0.0 Pork	3	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0050

N2O-N in food/beverage/fuel/other

Year	N	Vol/NH3	N	leach	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Year 1	1	0	100.0	100.0	0.71	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17
Year 2	33	0	19.7	19.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.90
Year 3	33	0	2.5	2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.74
Year 4	33	0	0.3	0.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1099
Year 5	33	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75
Year 6	33	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0100
Year 7	33	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0050
Year 8	33	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
Year 9	33	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0100
Year 10	33	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0050

Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1
 Area with crop, ha 0.71 0.11 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.84 1.17
 Possible additional non IPCC N2O-N emissions Value 0.0000
 N residues emissions, ratio of N2O-N to N: 0.00
 Increased soil N emissions, kg N2O-N/ha: 1.00
 Natural background emissions, kg N2O-N/ha: 1.00
 Total IPCC and non IPCC N2O 3.90
 Total anthropogenic 3.90
 Total including natural 4.74
 Note 51 2.11 Note 51
 Note 51 2.11 Note 51
 Note 51 2.94 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE MAIZE COBS FOR BIOETHANOL AND POULTRY MEAT
 AND CONTINUING WITH SEPARATED POULTRY MANURE TO PRODUCE WINTER WHEAT FOR POULTRY MEAT

Year Fertilizer/manure # Store Amounts Field Name 1/0 Or-ganic 1/0 Nnorm propor # Crop use & leach Straw used 1/0 Cereal benefit 1/0 N crop Food/ #71/ bev #8 Fuel/ other #9 Manure handling # Final N a- mounts Total N2O-N emission IPCC 1996 Each Total N2O-N emission IPCC 2006 Each Total Note 43 Note 43 Note 44 Note 44 Note 44

Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED													
Year	N NH3	N leach	IPCC 1996	IPCC 2006	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1
1-10	N leach	1.022	0.0765	0.0431	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495
TOTAL	N leach	1.022	0.0765	0.0431	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495

N2O-N in food/beverage/fuel/other

Year	N	Vol/NH3	N	100.0	0	100	59	0	0	97.8	42	40.0	20.4	0.0	0.0	0.0	19.6	1.55	3.06	1.22	1.73	Note 47
1	Vol/NH3	N	100.0	0	100	59	0	0	97.8	42	40.0	20.4	0.0	0.0	0.0	0.0	19.6	1.55	3.06	1.22	1.73	Note 47
	N leach	1.022	0.0765	0.0431	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495	0.0765	0.0431	0.0495	0.0765	0.0431	Note 48
Year	2	Vol/NH3	Poultry NO	0.0	0	100	11	0	0	11.0	42	3.8	1.9	0.0	0.0	0.0	1.9	0.17	0.39	0.14	0.23	Note 47
	N leach	Sep	0.867	1.000	1.000	1.000	0.653	0.0	7.2	Poultry	0.67	0.67	0.0	0.0	0.0	0.0	0.5	0.04	0.125	0.04	0.100	Note 48
Year	3	Vol/NH3	Poultry NO	0.0	0	100	11	0	0	1.1	42	0.4	0.2	0.0	0.0	0.0	0.2	0.02	0.04	0.01	0.02	Note 47
	N leach	Sep	0.867	1.000	1.000	1.000	0.653	0.0	0.7	Poultry	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
Year	4	Vol/NH3	Poultry NO	0.0	0	100	1	0	0	0.1	42	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0105	0.01	0.0050	Note 49
	N leach	Sep	0.867	1.000	1.000	1.000	0.653	0.0	0.1	Meat	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
Year	5	Vol/NH3	Poultry NO	0.0	0	100	10	0	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Sep	0.867	1.000	1.000	1.000	0.653	0.0	0.0	Meat	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
Year	6	Vol/NH3	Poultry NO	0.0	0	100	59	0	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Sep	0.867	1.000	1.000	1.000	0.653	0.0	0.0	Meat	0.83	0.83	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0050	Note 48
Year	7	Vol/NH3	Poultry NO	0.0	0	100	11	0	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Sep	0.867	1.000	1.000	1.000	0.653	0.0	0.0	Meat	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
Year	8	Vol/NH3	Poultry NO	0.0	0	100	11	0	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Sep	0.867	1.000	1.000	1.000	0.653	0.0	0.0	Meat	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
Year	9	Vol/NH3	Poultry NO	0.0	0	100	1	0	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Sep	0.867	1.000	1.000	1.000	0.653	0.0	0.0	Meat	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
Year	10	Vol/NH3	Poultry NO	0.0	0	100	10	0	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Sep	0.867	1.000	1.000	1.000	0.653	0.0	0.0	Meat	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48

Year Area with crop, ha

Year 1 0.71 Year 2 0.08 Year 3 0.01 Year 4 0.00 Year 5 0.00 Year 6 0.00 Year 7 0.00 Year 8 0.00 Year 9 0.00 Year 10 0.00 Total 1.12

Possible additional non IPCC N2O-N emissions Value 0.0000
 N residues emissions, ratio of N2O-N to N: 0.00
 Increased soil N emissions, kg N2O-N/ha: 1.00
 Natural background emissions, kg N2O-N/ha: 0.71

Total IPCC and non IPCC N2O 3.50
 Total anthropogenic 3.50
 Total including natural 4.30
 Note 51 1.98 Note 51 1.98 Note 51 2.78 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR FUEL/ other #9 N crop Food/ #71/ #72 #8 #9 N2O-N emission IPCC 1996 N2O-N emission IPCC 2006

AND CONTINUING WITH POULTRY DEEP LITTER POULTRY MEAT POULTRY MEAT

Fertilizer/manure Or- Nnorm Crop Crop Fuel/ Manure Final N2O-N emission N2O-N emission
 # Store Amounts Store # ganic propor # use & # #71/ beV #8 #9 handling N a- IPCC 1996 IPCC 2006
 Name 1/0 Store Field 1/0 1/0 benefit 1/0 Name Fed Food #72 #8 #9 # Name mounts Each Total Each Total

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED									
Year	N NH3	ACCORDING TO		IPCC 1996		IPCC 2006		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3		TOTAL N AMOUNTS IN KG AND % LEACHED		TOTAL N AMOUNTS IN KG AND % LEACHED		TOTAL N AMOUNTS IN KG AND %		TOTAL N AMOUNTS IN KG AND %				
1-10	N leach	FIRST YEAR	TOTAL	0.0793	0.0884	0.0435	0.0486													

N2O-N in food/beverage/fuel/other																														
Year	N	1	0	100.0	100.0	0	100	59	0	0	0	0	0	0	0	0	0													
1	Vol/NH3	N	NO	0.0	0.0	2.2	NON	100.00	MCB	1.000	NO	1.000	NO	0.83	40.0	20.4	0.0	0.0	0.0	0.0	43	19.6	1.63	3.17	1.21	0.10	0.0125	0.10	0.0100	Note 47
	N leach			1.022	1.000	1.000	ORG	1.00	1.000	0.591	0.0	0.0	0.0	0.83	0.83	0.83	0.0	0.0	0.0	0.0	0.0	Poultry	7.8	0.10	0.0125	0.10	0.0100	Note 48		
Year	N	43	0	11.9	0	100	11	0	0	0	0	0	0	4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	43	1.1	0.14	0.34	0.11	0.0125	0.11	0.0100	Note 49
2	Vol/NH3	Poultry	NO	0.0	0.0	3.0	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.03	0.0125	0.03	0.0100	Note 48		
	N leach	Deep	0.600	1.013	0.6	0	100	11	0	0	0	0	0	4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.17	0.0200	0.05	0.0050	Note 49		
Year	N	43	0	0.6	0.0	0.2	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.4	0.01	0.01	0.02	0.01	0.01	0.01	0.01	Note 47
3	Vol/NH3	Poultry	NO	0.0	0.0	0.2	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Deep	0.600	1.013	0.0	0.0	100	1	0	0	0	0	0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.01	0.01	0.02	0.00	0.0050	Note 49	
Year	N	43	0	0.0	0.0	0.0	NON	100.00	SBA	1.000	NO	1.000	NO	0.65	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
4	Vol/NH3	Poultry	NO	0.0	0.0	0.0	NON	100.00	SBA	1.000	NO	1.000	NO	0.65	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Deep	0.600	1.013	0.0	0.0	100	10	0	0	0	0	0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
Year	N	43	0	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	1.000	NO	0.66	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
5	Vol/NH3	Poultry	NO	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	1.000	NO	0.66	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
	N leach	Deep	0.600	1.013	0.0	0.0	100	59	0	0	0	0	0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
Year	N	43	0	0.0	0.0	0.0	NON	100.00	MCB	1.000	NO	1.000	NO	0.83	0.83	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
6	Vol/NH3	Poultry	NO	0.0	0.0	0.0	NON	100.00	MCB	1.000	NO	1.000	NO	0.83	0.83	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
	N leach	Deep	0.600	1.013	0.0	0.0	100	11	0	0	0	0	0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
Year	N	43	0	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
7	Vol/NH3	Poultry	NO	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
	N leach	Deep	0.600	1.013	0.0	0.0	100	11	0	0	0	0	0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
Year	N	43	0	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
8	Vol/NH3	Poultry	NO	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
	N leach	Deep	0.600	1.013	0.0	0.0	100	10	0	0	0	0	0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
Year	N	43	0	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	1.000	NO	0.66	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
9	Vol/NH3	Poultry	NO	0.0	0.0	0.0	NON	100.00	SBA	1.000	NO	1.000	NO	0.65	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
	N leach	Deep	0.600	1.013	0.0	0.0	100	10	0	0	0	0	0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
Year	N	43	0	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	1.000	NO	0.66	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
10	Vol/NH3	Poultry	NO	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	1.000	NO	0.66	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		
	N leach	Deep	0.600	1.013	0.0	0.0	100	4	0	0	0	0	0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48		

Year Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1

Area with crop, ha 0.71 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.76 1.07 Note 50

Possible additional non IPCC N2O-N emissions Value 0.0000
 N residues emissions, ratio of N2O-N to N: 0.00
 Increased soil N emissions, kg N2O-N/ha: 1.00
 Natural background emissions, kg N2O-N/ha: 0.00

Total IPCC and non IPCC N2O 3.53
 Total anthropogenic 3.53
 Total including natural 4.30
 Note 51
 Note 51
 Note 51
 Note 51

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH LIQUID POULTRY MANURE TO PRODUCE CEREAL TO PRODUCE MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR POULTRY EGGS

Year	Fertilizer/manure #	Store 1/0	Amounts 1/0	Field	Or-ganic 1/0	Nnorm propor 1/0	Crop #	Cereal benefit 1/0	Straw used 1/0	Crop leach	Use #	Fodder: Uses #21-61	Food #72	N crop #71/ bev	Fuel/ other #9	Manure handling #	Final N a-	N2O-N emission IPCC 1996	Total	N2O-N emission IPCC 2006	Total	
Total N	RATIO OF N2O-N TO N IN FIRST CROP																					
Year N NH3	100.0		0	100	59	0	0	0	0	0	97.8	43	40.0	9.6	0.0	0.0	41	30.4	11.7	1.78	3.77	1.60
1-10 N leach	2.2		NON	100.00	MCB	1.000	NO	1.000	NO	0.83	57.8	Poultry	0.83	0.0	0.0	0.0	0.0	3.0	14.2	0.14	0.14	
	1.022		ORG	1.00	1.000	0.591	0.0	0.591	0.0	4	57.8	Eggs	4	13.5	Liquid	1.45	0.0010	0.0	14.2	1.85	0.56	
	27.3		0	100	11	0	0	0	0	0	20.5	43	7.1	1.7	0.0	0.0	41	5.4	74.1			
Year 2	6.8		NON	100.00	WWH	1.000	NO	1.000	NO	0.67	13.4	Poultry	0.67	0.0	0.0	0.0	0.0	0.5	11.7	1.78	3.77	1.60
N leach	4.9		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	13.4	Eggs	4	2.8	Liquid	0.33	0.0010	0.0	14.2	1.85	0.56	
Year 3	4.9		0	100	11	0	0	0	0	0	3.6	43	1.3	0.3	0.0	0.0	41	1.0	74.1			
N leach	1.2		NON	100.00	WWH	1.000	NO	1.000	NO	0.67	2.4	Poultry	0.67	0.0	0.0	0.0	0.0	0.1	11.7	1.78	3.77	1.60
Year 4	0.9		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	2.4	Eggs	4	0.5	Liquid	0.06	0.0010	0.0	14.2	1.85	0.56	
N leach	0.2		NON	100.00	SBA	1.000	NO	1.000	NO	0.65	0.4	Poultry	0.65	0.0	0.0	0.0	0.0	0.2	11.7	1.78	3.77	1.60
Year 5	0.2		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.4	Eggs	4	0.1	Liquid	0.01	0.0010	0.0	14.2	1.85	0.56	
N leach	0.0		NON	100.00	WBA	1.000	NO	1.000	NO	0.66	0.1	Poultry	0.66	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 6	0.0		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.1	Eggs	4	0.0	0.0	0.0	0.0	0.0	14.2	1.85	0.56	
N leach	0.0		NON	100.00	MCB	1.000	NO	1.000	NO	0.83	0.0	Poultry	0.83	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 7	0.0		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	14.2	1.85	0.56	
N leach	0.0		NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 8	0.0		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	14.2	1.85	0.56	
N leach	0.0		NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 9	0.0		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	14.2	1.85	0.56	
N leach	0.0		NON	100.00	SBA	1.000	NO	1.000	NO	0.65	0.0	Poultry	0.65	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 10	0.0		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	14.2	1.85	0.56	
N leach	0.0		NON	100.00	WBA	1.000	NO	1.000	NO	0.66	0.0	Poultry	0.66	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
	0.867		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	14.2	1.85	0.56	

TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED
 TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3
 TOTAL N AMOUNTS IN KG AND % LEACHED
 TOTAL N AMOUNTS IN KG AND %

Year	N	1	0	100.0	0	100	59	0	0	0	97.8	43	40.0	9.6	0.0	0.0	41	30.4	11.7	1.78	3.77	1.60
Year 1	Vol/NH3	N	NO	0.0	2.2	NON	100.00	MCB	1.000	NO	57.8	Poultry	0.83	0.0	0.0	0.0	41	3.0	14.2	0.14	0.14	0.14
N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	0.591	0.0	4	57.8	Eggs	4	13.5	Liquid	1.45	0.0010	0.0	14.2	1.85	0.56	
Year 2	Vol/NH3	Poultry	NO	0.0	27.3	0	100	11	0	0	20.5	43	7.1	1.7	0.0	0.0	41	5.4	74.1			
N leach	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	13.4	Poultry	0.67	0.0	0.0	0.0	0.0	0.5	11.7	1.78	3.77	1.60
Year 3	Vol/NH3	Poultry	NO	0.0	4.9	0	100	11	0	0	3.6	43	1.3	0.3	0.0	0.0	41	1.0	74.1			
N leach	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	13.4	Eggs	4	2.8	Liquid	0.33	0.0010	0.0	14.2	1.85	0.56	
Year 4	Vol/NH3	Poultry	NO	0.0	1.2	NON	100.00	WWH	1.000	NO	2.4	Poultry	0.67	0.0	0.0	0.0	0.0	0.1	11.7	1.78	3.77	1.60
N leach	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	2.4	Eggs	4	0.5	Liquid	0.06	0.0010	0.0	14.2	1.85	0.56	
Year 5	Vol/NH3	Poultry	NO	0.0	0.9	0	100	1	0	0	0.6	43	0.2	0.1	0.0	0.0	41	0.2	11.7	1.78	3.77	1.60
N leach	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.4	Poultry	0.65	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 6	Vol/NH3	Poultry	NO	0.0	0.2	0	100	10	0	0	0.1	43	0.0	0.0	0.0	0.0	41	0.0	14.2	1.85	0.56	
N leach	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.4	Eggs	4	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 7	Vol/NH3	Poultry	NO	0.0	0.0	NON	100.00	WBA	1.000	NO	0.1	Poultry	0.66	0.0	0.0	0.0	41	0.0	14.2	1.85	0.56	
N leach	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.1	Eggs	4	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 8	Vol/NH3	Poultry	NO	0.0	0.0	0	100	59	0	0	0.0	43	0.0	0.0	0.0	0.0	41	0.0	14.2	1.85	0.56	
N leach	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.0	Poultry	0.83	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 9	Vol/NH3	Poultry	NO	0.0	0.0	NON	100.00	MCB	1.000	NO	0.0	Poultry	0.83	0.0	0.0	0.0	41	0.0	14.2	1.85	0.56	
N leach	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
Year 10	Vol/NH3	Poultry	NO	0.0	0.0	0	100	11	0	0	0.0	43	0.0	0.0	0.0	0.0	41	0.0	14.2	1.85	0.56	
N leach	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	11.7	1.78	3.77	1.60
	0.867		ORG	1.00	1.000	0.653	0.0	0.653	0.0	4	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	14.2	1.85	0.56	

Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1
Area with crop, ha	0.71	0.15	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.90	1.25
Possible additional non IPCC N2O-N emissions	Value											
N residues emissions, ratio of N2O-N to N:	0.0000											
Increased soil N emissions, kg N2O-N/ha:	0.00											
Natural background emissions, kg N2O-N/ha:	1.00											
Total IPCC and non IPCC N2O	3.77											Note 51
Kind of source	0.00 Current crops											Note 51
Total anthropogenic	3.77											Note 51
Total including natural	4.67											Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL TO PRODUCE MAIZE COBS FOR BIOETHANOL AND SHEEP MILK/MUTTON
 AND CONTINUING WITH SHEEP DEEP LITTER TO PRODUCE TO PRODUCE WINTER WHEAT FOR SHEEP MILK/MUTTON

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Use Name	Fodder: Uses #21-61 Fed	N crop #71/ #72	Fuel/ bev #8	Fuel/ other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total
Total N																	
Year 1-10																	

RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	
Year	N/NH3	IPCC 1996	IPCC 2006
1-10	N leach	0.0873	0.0450
TOTAL		0.1267	0.0648

Year	N	Vol/NH3	N	100.0	0	100	59	0	0	0	40.0	5.7	0.0	0.0	0.0	0.0	53	34.3	1.98	3.49	1.29	5.07	2.73	5.07	1.83	2.59
1	N leach	1.022	1.000	2.2	NON	100.00	MCB	1.000	NO	0	0.83	0.83	0.0	0.0	0.0	0.0	0.0	5.1	0.07	0.0125	0.07	0.0125	0.07	0.0125	0.07	0.0100
Year 2	N leach	0	33.9	33.9	0	100	11	0	0	0	5	5	0.0	0.0	0.0	0.0	53	7.0	1.45	0.0200	0.43	0.0200	0.43	0.0050	0.43	0.0050
Year 3	N leach	0.600	1.162	0.0	NON	100.00	WWH	1.000	NO	0	0.67	0.67	0.0	0.0	0.0	0.0	53	1.0	0.60	0.0125	0.01	0.0125	0.01	0.0100	0.01	0.0100
Year 4	N leach	0	6.9	6.9	0	100	11	0	0	0	1.7	1.7	0.0	0.0	0.0	0.0	53	1.4	0.12	0.26	0.09	0.26	0.09	0.13	0.09	0.13
Year 5	N leach	0.600	1.162	0.0	NON	100.00	WWH	1.000	NO	0	0.67	0.67	0.0	0.0	0.0	0.0	53	0.2	0.00	0.0125	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year 6	N leach	0	1.4	1.4	0	100	1	0	0	0	0.3	0.3	0.0	0.0	0.0	0.0	53	0.3	0.02	0.05	0.04	0.05	0.04	0.0050	0.04	0.0050
Year 7	N leach	0.600	1.162	0.0	NON	100.00	SBA	1.000	NO	0	0.65	0.65	0.0	0.0	0.0	0.0	53	0.0	0.03	0.0200	0.01	0.0200	0.01	0.0050	0.01	0.0050
Year 8	N leach	0	0.3	0.3	0	100	10	0	0	0	0.1	0.1	0.0	0.0	0.0	0.0	53	0.1	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.00
Year 9	N leach	0.600	1.162	0.0	NON	100.00	WBA	1.000	NO	0	0.66	0.66	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year 10	N leach	0	0.1	0.1	0	100	59	0	0	0	0.83	0.83	0.0	0.0	0.0	0.0	53	0.0	0.01	0.00	0.00	0.01	0.00	0.0050	0.00	0.0050
Year 11	N leach	0.600	1.162	0.0	NON	100.00	MCB	1.000	NO	0	0.83	0.83	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year 12	N leach	0	0.0	0.0	NON	100.00	WWH	1.000	NO	0	0.67	0.67	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0050	0.00	0.0050
Year 13	N leach	0.600	1.162	0.0	NON	100.00	WWH	1.000	NO	0	0.67	0.67	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year 14	N leach	0	0.0	0.0	NON	100.00	SBA	1.000	NO	0	0.65	0.65	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0050	0.00	0.0050
Year 15	N leach	0.600	1.162	0.0	NON	100.00	WBA	1.000	NO	0	0.66	0.66	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0050	0.00	0.0050
Year 16	N leach	0	0.0	0.0	NON	100.00	MCB	1.000	NO	0	0.83	0.83	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year 17	N leach	0.600	1.162	0.0	NON	100.00	WWH	1.000	NO	0	0.67	0.67	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0050	0.00	0.0050
Year 18	N leach	0	0.0	0.0	NON	100.00	WWH	1.000	NO	0	0.67	0.67	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year 19	N leach	0.600	1.162	0.0	NON	100.00	WBA	1.000	NO	0	0.66	0.66	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0050	0.00	0.0050
Year 20	N leach	0.600	1.162	0.0	NON	100.00	WBA	1.000	NO	0	0.66	0.66	0.0	0.0	0.0	0.0	53	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0100	0.00	0.0100

Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Area with crop, ha	0.71	0.13	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.22

Possible additional non IPCC N2O-N emissions Value 0.0000
 N residues emissions, ratio of N2O-N to N: 0.00
 Increased soil N emissions, kg N2O-N/ha: 1.00
 Natural background emissions, kg N2O-N/ha: 1.00

Total IPCC and non IPCC N2O 5.07
 Total anthropogenic 5.07
 Total including natural 5.94

Note 43
 Note 43
 Note 44
 Note 44
 Note 44
 Note 44
 Note 45
 Note 45
 Note 45
 Note 46
 Note 47
 Note 48
 Note 48
 Note 49
 Note 49
 Note 47
 Note 48
 Note 48
 Note 49
 Note 47
 Note 48
 Note 49
 Note 47
 Note 48
 Note 49
 Note 47
 Note 48
 Note 49
 Note 47
 Note 48
 Note 49
 Note 50
 Note 51
 Note 51
 Note 51
 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE MAIZE COBS FOR BIOETHANOL AND SHEEP MILK/MUTTON Note 43
AND CONTINUING WITH MANURE FROM GRAZING SHEEP TO PRODUCE WINTER WHEAT FOR SHEEP MILK/MUTTON Note 43

Year Fertilizer/manure # Store Amounts Field 1/0 Or-ganic 1/0 Nnorm propor-tion, % Name # Crop use & leach Straw used 1/0 Cereal benefit 1/0 N crop Food/#71/ #72 bev #8 Fuel/ other #9 Manure Final handling N a- # Name mounts Each Total N2O-N emission IPCC 1996 IPCC 2006 N2O-N emission Total Each Total Note 44 Note 44 Note 44

Year		RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED										Year					
N	NH3	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	Year	Total	Note	
1	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	
2	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
3	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
4	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
5	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
6	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
7	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
8	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
9	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
10	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	

N2O-N in food/beverage/fuel/other

Year	N	NH3	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	N	leach	1-10	Year	Total	Note
1	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	0.0886	0.1249	
2	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
3	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
4	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
5	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
6	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
7	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
8	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
9	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	
10	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	0.0401	0.0575	

Year Area with crop, ha

Year	Area with crop, ha	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1	Note
1	0.71	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	1.17	Note 50
Possible additional non IPCC N2O-N emissions Value 0.0000														
N residues emissions, ratio of N2O-N to N: 0.00														
Increased soil N emissions, kg N2O-N/ha: 1.00														
Natural background emissions, kg N2O-N/ha: 1.00														
Total IPCC and non IPCC N2O 5.00														
Total anthropogenic 5.00														
Total including natural 5.83														
Kind of source														
Current crops 5.00														
Total anthropogenic 5.00														
Total including natural 5.83														

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL TO PRODUCE MAIZE COBS FOR BIOETHANOL AND GOAT MILK/MEAT
 AND CONTINUING WITH GOAT DEEP LITTER TO PRODUCE TO PRODUCE WINTER WHEAT FOR GOAT MILK/MEAT

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Straw used 1/0	Cereal benefit 1/0	Use #	Food Fed	N crop #71/ #72	Fuel/other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total
Total N	1	0	100.0	100.0	2.2 NON	0	100	0	0	97.8	61	40.0	3.8	0.0	0.0	2.58	4.82	1.70
Year N NH3	NO		0.0	0.0	ORG	0	100	0	0	57.8 Goat	0.83	0.0	0.0	0.0	0.0	0.19	0.19	0.19
1-10 N leach	1.022		1.000	1.000	ORG	1.00	1.000	0.591	0.0	57.8 Milk/mea	6	13.5	0.0	0.0	0.0	2.05	2.05	0.62
Year 2	63	0	35.7	35.7	ORG	0	100	0	0	26.8	61	6.4	0.0	0.0	0.0	2.58	4.82	1.70
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	20.4 Goat	0.67	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	20.4 Milk/mea	6	3.6	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	5.7	5.7	ORG	0	100	0	0	4.3	61	1.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	3.3 Goat	0.67	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	3.3 Milk/mea	6	0.6	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.9	0.9	ORG	0	100	1	0	0.7	61	0.2	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.5 Goat	0.65	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.5 Milk/mea	6	0.1	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.1	0.1	ORG	0	100	10	0	0.1	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.5 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.5 Goat	0.66	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	59	0	0.1	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.1 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.1 Goat	0.66	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	11	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.83	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	11	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.67	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	11	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.67	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	1	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.65	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	10	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.67	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	10	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.67	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	10	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.66	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	1000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.66	0.0	0.0	0.0	0.0	2.05	2.05	0.62

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Straw used 1/0	Cereal benefit 1/0	Use #	Food Fed	N crop #71/ #72	Fuel/other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total
Total N	1	0	100.0	100.0	2.2 NON	0	100	0	0	97.8	61	40.0	3.8	0.0	0.0	2.58	4.82	1.70
Year N NH3	NO		0.0	0.0	ORG	0	100	0	0	57.8 Goat	0.83	0.0	0.0	0.0	0.0	0.19	0.19	0.19
1-10 N leach	1.022		1.000	1.000	ORG	1.00	1.000	0.591	0.0	57.8 Milk/mea	6	13.5	0.0	0.0	0.0	2.05	2.05	0.62
Year 2	63	0	35.7	35.7	ORG	0	100	11	0	26.8	61	6.4	0.0	0.0	0.0	2.58	4.82	1.70
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	20.4 Goat	0.67	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	20.4 Milk/mea	6	3.6	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	5.7	5.7	ORG	0	100	11	0	4.3	61	1.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	3.3 Goat	0.67	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	3.3 Milk/mea	6	0.6	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.9	0.9	ORG	0	100	1	0	0.7	61	0.2	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.5 Goat	0.65	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.5 Milk/mea	6	0.1	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.1	0.1	ORG	0	100	10	0	0.1	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.1 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.1 Goat	0.66	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	59	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.83	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	11	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000	0.0	0.0 Milk/mea	6	0.0	0.0	0.0	0.0	0.19	0.19	0.19
N leach	0.600		1.162	1.162	ORG	1.00	1.000	0.760	0.0	0.0 Goat	0.67	0.0	0.0	0.0	0.0	2.05	2.05	0.62
Year N	63	0	0.0	0.0	ORG	0	100	11	0	0.0	61	0.0	0.0	0.0	0.0	1.0538	1.0538	0.5490
Year N NH3	Goat NO		0.0	0.0	ORG	1.00	1.000	1.000</										

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE
 AND CONTINUING WITH MANURE FROM GRAZING GOATS TO PRODUCE

Year	Fertilizer/manure #	Store 1/0	Amounts Store	Field 1/0	Or-ganic 1/0	Nhorm propor 1/0	Crop #	Use Name	Fodder: Fed	N crop #71/ #72	Fuel/ other #9	Manure handling #	Final N a-	N2O-N emission IPCC 1996	N2O-N emission Each	Total	Year 2006
Total N	1	0	100.0	100.0	0	100	59	0	0	0	0	0	4.6	2.83	5.13	2.05	2.78
Year N NH3	NO	0	0	0	1.000	NO	1.000	NO	0.83	0	0	0	0	0.02	0.125	0.02	0.100
Year N leach	1.022	1.000	0	0	0.591	0	0	0	6	0	0	0	13.5	1.45	0.0200	0.43	0.0100
Year N NH3	Goat	NO	0	0	1.000	11	61	0	6	0	0	64	5.9	0.60	1.30	0.45	0.68
Year N leach	Goat	NO	0	0	1.000	11	61	0	6	0	0	64	5.9	0.60	1.30	0.45	0.68
Year N NH3	Goat	NO	0	0	1.000	11	61	0	6	0	0	64	5.9	0.60	1.30	0.45	0.68
Year N leach	Goat	NO	0	0	1.000	11	61	0	6	0	0	64	5.9	0.60	1.30	0.45	0.68
Year N NH3	Goat	NO	0	0	1.000	11	61	0	6	0	0	64	5.9	0.60	1.30	0.45	0.68
Year N leach	Goat	NO	0	0	1.000	11	61	0	6	0	0	64	5.9	0.60	1.30	0.45	0.68

N2O-N/N in food/beverage/fuel/other

Year	N	Vol/NH3	N	NO	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Year 1	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 2	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 3	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 4	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 5	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 6	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 7	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 8	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 9	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 10	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO

Year	Vol/NH3	N	NO	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Year 1	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 2	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 3	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 4	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 5	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 6	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 7	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 8	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 9	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year 10	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO
Year	Vol/NH3	N	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO	1.000	NO

Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1

Area with crop, ha	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1
Area with crop, ha	0.71	0.11	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	1.18

Possible additional non IPCC N2O-N emissions

Value	Total IPCC and non IPCC N2O
0.0000	5.13
0.00	5.13
1.00	5.98

N residues emissions, ratio of N2O-N to N: 2.78 Note 51
 Increased soil N emissions, kg N2O-N/ha: 2.78 Note 51
 Natural background emissions, kg N2O-N/ha: 3.62 Note 51

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE TO PRODUCE TO PRODUCE TO PRODUCE
 MAIZE COBS FOR BIOETHANOL AND NOTHING FOR
 WASTE DUMPED ELSEWHERE WITHOUT LEACHING WASTE, DUMPED ELSEWHERE
 Note 43 Note 43

Year Fertilizer/manure # Store Amounts Store 1/0 Field 1/0 Or-ganic 1/0 Nnorm propor-tion, % Name # Crop use & leach Straw used 1/0 Cereal benefit 1/0 N crop #71/ bevs #72/ #8 Fuel/ other #9 Manure handling # Name Final N a-mounts N2O-N emission IPCC 1996 Each Total N2O-N emission IPCC 2006 Each Total
 Note 44 Note 44 Note 44

Total N	RATIO OF N2O-N TO N IN FIRST CROP TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED										40.0	40.0
Year N NH3	ACCORDING TO IPCC 1996 IPCC 2006										2.2	2.2
1-10 N leach	FIRST YEAR 0.0715 0.0401										57.8	57.8
TOTAL	TOTAL N AMOUNTS IN KG AND %										100.0	100.0

N2O-N in food/beverage/fuel/other

Year	N	1	0	100.0	100.0	0	100	59	0	0	97.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.39	2.86	1.15	1.60	Note 47
1	Vol/NH3	N	NO	0.0	2.2	NON	100.00	MCB	1.000	NO	57.8	Waste	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0125	0.02	0.0100	Note 48
Year	N	leach	1.022	1.000	ORG	1.00	1.000		0.591	0.0	57.8	moved	0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0000	0.43	0.0000	Note 49	
Year	2	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	0.0	Waste	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
Year	N	leach	1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
Year	3	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	0.0	Waste	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
Year	N	leach	1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
Year	4	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	0.0	Waste	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
Year	N	leach	1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
Year	5	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	0.0	Waste	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
Year	N	leach	1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
Year	6	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	0.0	Waste	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
Year	N	leach	1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
Year	7	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	0.0	Waste	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
Year	N	leach	1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
Year	8	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	0.0	Waste	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
Year	N	leach	1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
Year	9	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	0.0	Waste	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
Year	N	leach	1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
Year	10	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	0.0	Waste	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48	
Year	N	leach	1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49	

Year Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1

Area with crop, ha 0.71 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.71 1.00 Note 50

Possible additional non IPCC N2O-N emissions Value 0.0000
 N residues emissions, ratio of N2O-N to N: 0.00
 Increased soil N emissions, kg N2O-N/ha: 1.00
 Natural background emissions, kg N2O-N/ha: 1.00
 Total IPCC and non IPCC N2O 2.86
 Kind of source Current crops 0.00
 Total anthropogenic 2.86
 Total including natural 3.57
 Note 51 Note 51 Note 51 Note 51

SUMMARY CATTLE DAIRY

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		13.85 13.78	1.60
Year N NH3	IPCC 1996	IPCC 2006		13.31 13.24	0.13
1-10 N leach	0.0727	0.0439		73.36 72.98	0.55
TOTAL	0.0936	0.0571	TOTAL N AMOUNTS IN KG AND %	100.52 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other					0.1649 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.91			Note 50
		0.91		4.65	3.19 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED CATTLE MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		13.74 13.66	1.61
Year N NH3	IPCC 1996	IPCC 2006		12.41 12.35	0.12
1-10 N leach	0.0789	0.0438		74.38 73.99	0.56
TOTAL	0.1021	0.0573	TOTAL N AMOUNTS IN KG AND %	100.53 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other					0.1669 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.90			Note 50
		0.90		4.98	3.19 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER CATTLE DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		13.20 12.58	1.62
Year N NH3	IPCC 1996	IPCC 2006		13.28 12.65	0.13
1-10 N leach	0.0852	0.0438		78.50 74.77	0.59
TOTAL	0.1125	0.0586	TOTAL N AMOUNTS IN KG AND %	104.98 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other					0.1775 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.85			Note 50
		0.85		5.35	3.20 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING CATTLE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		13.06 13.06	2.16
Year N NH3	IPCC 1996	IPCC 2006		4.50 4.50	0.04
1-10 N leach	0.0856	0.0542		82.44 82.44	0.62
TOTAL	0.1147	0.0706	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other					0.2164 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.81			Note 50
		0.81		5.40	3.64 Note 51

SUMMARY CATTLE BEEF

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		12.32 12.25	1.63
Year N NH3	IPCC 1996	IPCC 2006		13.96 13.88	0.14
1-10 N leach	0.0727	0.0441	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	74.27 73.86	0.56
TOTAL	0.0949	0.0581	TOTAL N AMOUNTS IN KG AND % LEACHED	100.55 100.00	
			TOTAL N AMOUNTS IN KG AND %		

N2O-N/N in food/beverage/fuel/other		0.3080		0.1886	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.92 1.29			Note 50
		0.92		3.24	Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED CATTLE MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		12.22 12.15	1.64
Year N NH3	IPCC 1996	IPCC 2006		13.00 12.93	0.13
1-10 N leach	0.0792	0.0440	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	75.34 74.92	0.57
TOTAL	0.1039	0.0583	TOTAL N AMOUNTS IN KG AND % LEACHED	100.56 100.00	
			TOTAL N AMOUNTS IN KG AND %		

N2O-N/N in food/beverage/fuel/other		0.3402		0.1909	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.91 1.27			Note 50
		0.85		3.24	Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER CATTLE DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		11.72 11.13	1.65
Year N NH3	IPCC 1996	IPCC 2006		13.89 13.20	0.14
1-10 N leach	0.0859	0.0440	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	79.65 75.67	0.60
TOTAL	0.1148	0.0596	TOTAL N AMOUNTS IN KG AND % LEACHED	105.26 100.00	
			TOTAL N AMOUNTS IN KG AND %		

N2O-N/N in food/beverage/fuel/other		0.3918		0.2035	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.86 1.20			Note 50
		0.86		3.24	Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING CATTLE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		11.58 11.58	2.22
Year N NH3	IPCC 1996	IPCC 2006		4.63 4.63	0.05
1-10 N leach	0.0863	0.0549	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	83.79 83.79	0.63
TOTAL	0.1171	0.0723	TOTAL N AMOUNTS IN KG AND % LEACHED	100.00 100.00	
			TOTAL N AMOUNTS IN KG AND %		

N2O-N/N in food/beverage/fuel/other		0.4044		0.2497	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.82 1.15			Note 50
		0.82		3.71	Note 51

SUMMARY PIG PORK

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID PIG MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		19.67	1.47
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	11.92	0.12
1-10 N leach	0.0728	0.0434	TOTAL N AMOUNTS IN KG AND % LEACHED	68.40	0.51
TOTAL	0.0874	0.0526	TOTAL N AMOUNTS IN KG AND %	100.00	1.71
N2O-N/N in food/beverage/fuel/other					0.1777
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.86			Note 50
		0.86			2.97 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED PIG MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		19.15	1.45
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	12.60	0.13
1-10 N leach	0.0775	0.0435	TOTAL N AMOUNTS IN KG AND % LEACHED	68.77	0.52
TOTAL	0.0926	0.0524	TOTAL N AMOUNTS IN KG AND %	100.52	1.72
N2O-N/N in food/beverage/fuel/other					0.1934
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.84			Note 50
		0.84			2.93 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER PIG DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		19.17	1.45
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	14.51	0.15
1-10 N leach	0.0816	0.0437	TOTAL N AMOUNTS IN KG AND % LEACHED	68.86	0.52
TOTAL	0.0975	0.0527	TOTAL N AMOUNTS IN KG AND %	102.54	1.72
N2O-N/N in food/beverage/fuel/other					0.2034
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.84			Note 50
		0.84			2.94 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM ROOTING PIGS	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		19.70	1.99
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	4.12	0.04
1-10 N leach	0.0831	0.0517	TOTAL N AMOUNTS IN KG AND % LEACHED	76.18	0.57
TOTAL	0.1062	0.0652	TOTAL N AMOUNTS IN KG AND %	100.00	1.90
N2O-N/N in food/beverage/fuel/other					0.2156
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.83			Note 50
		0.83			3.44 Note 51

SUMMARY POULTRY MEAT

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY MEAT POULTRY MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		23.04	1.42
Year N NH3	IPCC 1996	IPCC 2006		9.39	0.09
1-10 N leach	0.0724	0.0428	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	67.56	0.51
TOTAL	0.0852	0.0506	TOTAL N AMOUNTS IN KG AND % LEACHED	100.00	0.51
			TOTAL N AMOUNTS IN KG AND %	100.00	0.51
N2O-N/N in food/beverage/fuel/other					0.0878
Area with crop, ha			Total/year 1	0.1478	0.0878
Natural background emissions, kg N2O-N/ha:			0.82		Note 50
			0.82	4.23	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY MEAT POULTRY MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		22.56	1.37
Year N NH3	IPCC 1996	IPCC 2006		11.68	0.12
1-10 N leach	0.0765	0.0431	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	65.76	0.49
TOTAL	0.0874	0.0495	TOTAL N AMOUNTS IN KG AND % LEACHED	100.00	0.49
			TOTAL N AMOUNTS IN KG AND %	100.00	0.49
N2O-N/N in food/beverage/fuel/other					0.0878
Area with crop, ha			Total/year 1	0.1550	0.0878
Natural background emissions, kg N2O-N/ha:			0.80		Note 50
			0.80	4.30	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER POULTRY DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY MEAT POULTRY MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		21.56	1.32
Year N NH3	IPCC 1996	IPCC 2006		13.63	0.14
1-10 N leach	0.0793	0.0435	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	64.97	0.49
TOTAL	0.0884	0.0486	TOTAL N AMOUNTS IN KG AND % LEACHED	100.16	0.49
			TOTAL N AMOUNTS IN KG AND %	100.00	0.49
N2O-N/N in food/beverage/fuel/other					0.0902
Area with crop, ha			Total/year 1	0.1640	0.0902
Natural background emissions, kg N2O-N/ha:			0.76		Note 50
			0.76	4.30	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM SCRAPING POULTRY	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY MEAT POULTRY MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		22.37	1.81
Year N NH3	IPCC 1996	IPCC 2006		3.70	0.04
1-10 N leach	0.0813	0.0499	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	73.92	0.55
TOTAL	0.0998	0.0601	TOTAL N AMOUNTS IN KG AND % LEACHED	100.00	0.55
			TOTAL N AMOUNTS IN KG AND %	100.00	0.55
N2O-N/N in food/beverage/fuel/other					0.1074
Area with crop, ha			Total/year 1	0.1784	0.1074
Natural background emissions, kg N2O-N/ha:			0.78		Note 50
			0.78	4.77	Note 51

SUMMARY POULTRY EGGS

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		11.72 11.72	1.60
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	14.20 14.20	0.14
1-10 N leach	0.0729	0.0442	TOTAL N AMOUNTS IN KG AND % LEACHED	74.08 74.08	0.56
TOTAL	0.0943	0.0576	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other 0.3218 0.1964 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha: Total/year 1 0.90 1.25 0.90 3.20 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		11.31 11.31	1.52
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	17.79 17.79	0.18
1-10 N leach	0.0793	0.0448	TOTAL N AMOUNTS IN KG AND % LEACHED	70.90 70.90	0.53
TOTAL	0.0977	0.0556	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other 0.3453 0.1966 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha: Total/year 1 0.86 1.20 0.86 3.08 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER POULTRY DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		10.51 10.49	1.42
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	20.47 20.42	0.20
1-10 N leach	0.0836	0.0454	TOTAL N AMOUNTS IN KG AND % LEACHED	69.27 69.09	0.52
TOTAL	0.0985	0.0537	TOTAL N AMOUNTS IN KG AND %	100.26 100.00	

N2O-N/N in food/beverage/fuel/other 0.3748 0.2043 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha: Total/year 1 0.79 1.11 0.79 2.94 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM SCRAPING POULTRY	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		11.17 11.17	2.23
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	4.66 4.66	0.05
1-10 N leach	0.0866	0.0552	TOTAL N AMOUNTS IN KG AND % LEACHED	84.17 84.17	0.63
TOTAL	0.1178	0.0728	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other 0.4219 0.2607 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha: Total/year 1 0.82 1.15 0.82 3.73 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		11.17 11.17	2.23
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	4.66 4.66	0.05
1-10 N leach	0.0866	0.0552	TOTAL N AMOUNTS IN KG AND % LEACHED	84.17 84.17	0.63
TOTAL	0.1178	0.0728	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other 0.4219 0.2607 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha: Total/year 1 0.82 1.15 0.82 3.73 Note 51

SUMMARY SHEEP AND GOATS

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SHEEP DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	SHEEP MILK/MUTTON SHEEP MILK/MUTTON	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED			
Year N NH3	IPCC 1996	IPCC 2006			
1-10 N leach	0.0873	0.0450			
TOTAL	0.1267	0.0648			

N2O-N/N in food/beverage/fuel/other		0.7108			0.3633 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.88			Note 50
		0.88			Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING SHEEP	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	SHEEP MILK/MUTTON SHEEP MILK/MUTTON	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED			
Year N NH3	IPCC 1996	IPCC 2006			
1-10 N leach	0.0886	0.0401			
TOTAL	0.1249	0.0575			

N2O-N/N in food/beverage/fuel/other		0.7437			0.3425 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.84			Note 50
		0.84			Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER GOAT DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	GOAT MILK/MEAT GOAT MILK/MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED			
Year N NH3	IPCC 1996	IPCC 2006			
1-10 N leach	0.0882	0.0453			
TOTAL	0.1205	0.0628			

N2O-N/N in food/beverage/fuel/other		1.0538			0.5490 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.87			Note 50
		0.87			Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING GOATS	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	GOAT MILK/MEAT GOAT MILK/MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED			
Year N NH3	IPCC 1996	IPCC 2006			
1-10 N leach	0.0895	0.0491			
TOTAL	0.1283	0.0694			

N2O-N/N in food/beverage/fuel/other		1.1191			0.6056 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.85			Note 50
		0.85			Note 51

SUMMARY N CROP

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER GREEN MANURE HIGH N	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	HIGH N CROP CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	3.29	3.28	1.64
Year N NH3	IPCC 1996	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	15.56	15.54	0.16
1-10 N leach	0.0715	TOTAL N AMOUNTS IN KG AND % LEACHED	81.31	81.18	0.61
TOTAL	0.1031	TOTAL N AMOUNTS IN KG AND %	100.16	100.00	

N2O-N/N in food/beverage/fuel/other 1.2533 0.7298 Note 46

Area with crop, ha Total/year 1 1.01 1.41 Note 50
 Natural background emissions, kg N2O-N/ha: 1.01 3.41 Note 51

N amount in reference crop year 2 after use of N crop as green manure, kg 11.20
 N amount in reference crop year 1 after synthetic N fertilizer, kg 40.00

Relative value of green manure, % 28.00

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER GREEN MANURE LOW N	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	LOW N CROP CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	1.88	1.88	1.58
Year N NH3	IPCC 1996	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	14.12	14.11	0.14
1-10 N leach	0.0715	TOTAL N AMOUNTS IN KG AND % LEACHED	84.09	84.02	0.63
TOTAL	0.1032	TOTAL N AMOUNTS IN KG AND %	100.09	100.00	

N2O-N/N in food/beverage/fuel/other 2.1964 1.2496 Note 46

Area with crop, ha Total/year 1 0.88 1.23 Note 50
 Natural background emissions, kg N2O-N/ha: 0.88 3.23 Note 51

N amount in reference crop year 2 after use of N crop as green manure, kg 6.40
 N amount in reference crop year 1 after synthetic N fertilizer, kg 40.00

Relative value of green manure, % 16.00

Note 47 Note 47

SUMMARY FOOD, FUEL, AND WASTE

N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	FOOD FOOD	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	40.00	1.15
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.0715		TOTAL N AMOUNTS IN KG AND % LEACHED	57.80	0.43
TOTAL	0.0715		TOTAL N AMOUNTS IN KG AND %	100.00	
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	FUEL FUEL	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	40.00	1.15
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.0715		TOTAL N AMOUNTS IN KG AND % LEACHED	57.80	0.43
TOTAL	0.0715		TOTAL N AMOUNTS IN KG AND %	100.00	
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	WASTE DUMPED ELSEWHERE WITHOUT LEACHING WASTE, DUMPED ELSEWHERE	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	40.00	1.15
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.0715		TOTAL N AMOUNTS IN KG AND % LEACHED	57.80	0.43
TOTAL	0.0715		TOTAL N AMOUNTS IN KG AND %	100.00	
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	WASTE DUMPED IN FIELD AND LOST TO LEACH WASTE DUMPED IN FIELD	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	0.00	1.15
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.0965		TOTAL N AMOUNTS IN KG AND % LEACHED	97.80	0.73
TOTAL	0.0965		TOTAL N AMOUNTS IN KG AND %	100.00	
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					

SUMMARY CATTLE RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0727 0.0863 0.0438 0.0549
 TOTAL 0.0936 0.1171 0.0571 0.0723

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 3.74 4.68 2.28 2.89

MIN MAX MIN MAX
 0.2704 0.4044 0.1649 0.2497

N2O-N/N in food/beverage/fuel/other

MIN MAX
 0.81 0.92
 MIN MAX
 0.81 1.15

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:

SUMMARY PIGS RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0728 0.0831 0.0434 0.0517
 TOTAL 0.0874 0.1062 0.0524 0.0652

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 3.5 4.25 2.09 2.61

MIN MAX MIN MAX
 0.1777 0.2156 0.1069 0.1323

N2O-N/N in food/beverage/fuel/other

MIN MAX
 0.83 0.86
 MIN MAX
 0.83 0.86

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:

SUMMARY POULTRY RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0724 0.0866 0.0428 0.0552
 TOTAL 0.0852 0.1178 0.0486 0.0728

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 3.41 4.71 1.94 2.91

MIN MAX MIN MAX
 0.1478 0.4219 0.0878 0.2607

N2O-N/N in food/beverage/fuel/other

MIN MAX
 0.76 0.90
 MIN MAX
 0.76 0.90

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:

SUMMARY SHEEP AND GOATS RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0873 0.0895 0.0401 0.0491
 TOTAL 0.1205 0.1283 0.0575 0.0694

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 4.82 5.13 2.3 2.78

MIN MAX MIN MAX
 0.7108 1.1191 0.3425 0.6056

N2O-N/N in food/beverage/fuel/other

MIN MAX
 0.84 0.88
 MIN MAX
 0.84 0.88

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:

SUMMARY FODDER RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0724 0.0895 0.0401 0.0552
 TOTAL 0.0852 0.1283 0.0486 0.0728

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 3.41 5.13 1.94 2.91

MIN MAX MIN MAX
 0.1478 1.1191 0.0878 0.6056

N2O-N/N in food/beverage/fuel/other

MIN MAX
 0.76 0.92
 MIN MAX
 0.76 1.15

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:

4.23 5.98 2.70 3.73