

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	0.06	0.14	0.04	0.04	0.13	1.28	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	0.00	0.31	7.97	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
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
Manure+straw, relative	1.000	1.016	1.016	1.159	1.000	1.000	1.024	1.127	1.000	1.000	1.013	1.000	1.162	1.000	1.162	1.000	1.162	1.000	1.162	1.000	1.000	1.000	0
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	0.150	0.000	0.150	0.000	0.150	0.450	0.150	0.000	0.000	0.000	0
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	0.150	0.000	0.000	0.000	0
% 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	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0
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	0.650	0.450	0.450	0.450	0.450	0.450	0.450	0.700	0.400	0
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	0.867	0.867	0.600	0.484	0.600	0.484	0.600	0.484	0.600	0.933	0.533	0

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  
 AND CONTINUING WITH LIQUID CATTLE MANURE TO PRODUCE CATTLE DAIRY

Year Fertilizer/manure Or- Nnorm Crop Crop Straw Cereal Crop Fuel/ Fuel/ N crop Food/ Fuel/ Manure Final N2O-N emission  
 # Store Amounts ganic propor # use & benefit 1/0 leach used 1/0 1/0 1/0 beav other #9 # Name mounts Each Total Each Total  
 Name 1/0 Store Field 1/0 1/0 Name 1/0 Name # Uses #21-61 #71/ #72 #8 #9 # Name mounts 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														13.9	13.8	1.73	3.69	1.56	2.24
Year	N NH3	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3														13.7	13.7	0.14	0.14	0.14	0.14
1-10	N leach	TOTAL N AMOUNTS IN KG AND % LEACHED														72.9	72.5	1.82	0.55	0.55	0.55
TOTAL		TOTAL N AMOUNTS IN KG AND %														100.5	100.0				

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	100.0	0	100	22	1	0	97.8	21	40.0	11.8	0.0	0.0	0.0	21	28.2	1.38	2.87	1.24	1.72
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRS	1.000	NO	57.8	Cattle	0.84	0.0	0.0	0.0	0.0	2.3	0.04	0.0125	0.04	0.0100
	N leach		1.022	1.000	ORG	1.00	1.000	0.591	0.0	57.8	Dairy	2	10.9	Liquid	0.0	0.0	0.0	2.3	1.45	0.0010	0.43	0.0050
Year	N	21	26.4	25.8	0	100	11	0	0	19.3	21	7.2	1.7	0.0	0.0	0.0	21	5.5	0.28	0.66	0.25	0.42
2	Vol/NH3	Cattle	YES	0.6	6.4	NON	100.00	WWH	1.000	NO	12.1	Cattle	0.67	0.0	0.0	0.0	0.0	0.4	0.07	0.0125	0.07	0.0100
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	12.1	Dairy	2	2.6	Liquid	0.0	0.0	0.0	0.0	0.30	0.0010	0.09	0.0050
Year	N	21	5.2	5.0	0	100	11	0	0	3.8	21	1.4	0.3	0.0	0.0	0.0	21	1.1	0.05	0.13	0.05	0.08
3	Vol/NH3	Cattle	YES	0.1	1.3	NON	100.00	WWH	1.000	NO	2.4	Cattle	0.67	0.0	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	2.4	Dairy	2	0.5	Liquid	0.0	0.0	0.0	0.0	0.06	0.0010	0.02	0.0050
Year	N	21	1.0	1.0	0	100	1	0	0	0.7	21	0.3	0.1	0.0	0.0	0.0	21	0.2	0.01	0.03	0.01	0.02
4	Vol/NH3	Cattle	YES	0.0	0.2	NON	100.00	SBA	1.000	NO	0.5	Cattle	0.65	0.0	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	0.5	Dairy	2	0.1	Liquid	0.0	0.0	0.0	0.0	0.01	0.0010	0.00	0.0050
Year	N	21	0.2	0.2	0	100	10	0	0	0.1	21	0.1	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00
5	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.1	Cattle	0.66	0.0	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	0.1	Dairy	2	0.0	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0.0	0.0	0	100	22	1	0	0.0	21	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	YES	0.0	0.0	NON	100.00	WRS	1.000	NO	0.0	Cattle	0.84	0.0	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	Dairy	2	0.0	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0.0	0.0	0	100	11	0	0	0.0	21	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	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Cattle	0.67	0.0	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	Dairy	2	0.0	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0.0	0.0	0	100	11	0	0	0.0	21	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	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Cattle	0.67	0.0	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	Dairy	2	0.0	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0.0	0.0	0	100	1	0	0	0.0	21	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	YES	0.0	0.0	NON	100.00	SBA	1.000	NO	0.0	Cattle	0.65	0.0	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	Dairy	2	0.0	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050
Year	N	21	0.0	0.0	0	100	10	0	0	0.0	21	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	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.0	Cattle	0.66	0.0	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	Dairy	2	0.0	Liquid	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 0.69 0.15 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.88 1.27 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: 0.69  
 Total IPCC and non IPCC N2O 3.69  
 Total anthropogenic 3.69  
 Total including natural 4.57  
 Note 51 2.24 Note 51 2.24 Note 51 3.12 Note 51





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

Year Fertilizer/manure N crop Food/ Fuel/ Manure Final N2O-N emission  
 # Store Amounts #71/ bev other # handling N a- IPCC 1996  
 Name 1/0 Store Field 1/0 Or- Nnorm Crop Crop use & Straw Cereal benefit 1/0 Name Fed Uses #21-61 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	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										13.2	13.2
1-10 N leach	0.0847	0.0533	TOTAL N AMOUNTS IN KG AND % LEACHED										4.5	4.5
TOTAL	0.1137	0.0697	TOTAL N AMOUNTS IN KG AND %										82.3	82.3
			TOTAL N AMOUNTS IN KG AND %										100.0	100.0

N2O-N in food/beverage/fuel/other 0.3447 0.2112 Note 46

Year N	1	100.0	100.0	0	100	22	1	0	97.8	21	40.0	11.8	0.0	0.0	0.0	24	28.2	1.92	3.39	1.68	2.13	Note 47
1	Vol/NH3 N	YES	2.2	NON	100.00	WRS	1.000	NO	57.8	Cattle	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.02	0.0125	0.02	0.0100	Note 48
	N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	57.8	Dairy	2	10.9	Graz	0.0	0.0	0.0	0.0	1.45	0.0200	0.43	0.0200	Note 49
Year 2	Vol/NH3 Cattle	YES	28.2	0	100	11	0	0	26.2	21	5.1	1.2	0.0	0.0	0.0	24	3.9	0.45	1.00	0.38	0.56	Note 47
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	21.1	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.02	0.0125	0.02	0.0100	Note 48
Year 3	Vol/NH3 Cattle	YES	3.9	0	100	11	0	0	3.6	21	0.7	0.2	0.0	0.0	0.0	24	0.5	0.06	0.14	0.05	0.08	Note 47
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	2.9	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 Cattle	YES	0.5	0	100	1	0	0	0.5	21	0.1	0.0	0.0	0.0	0.0	24	0.1	0.01	0.02	0.01	0.01	Note 47
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.4	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 Cattle	YES	0.1	0	100	10	0	0	0.1	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.1	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 Cattle	YES	0.0	0	100	22	1	0	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0200	Note 49
Year 7	Vol/NH3 Cattle	YES	0.0	0	100	11	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	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 Cattle	YES	0.0	0	100	11	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	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 Cattle	YES	0.0	0	100	1	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	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 Cattle	YES	0.0	0	100	10	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	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 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1 1.14 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 4.55  
 Total anthropogenic 4.55  
 Total including natural 5.34  
 Note 51  
 2.79 Note 51  
 2.79 Note 51  
 3.58 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE  
AND CONTINUING WITH LIQUID CATTLE MANURE TO PRODUCE TO PRODUCE  
WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR

Table with columns: Year, Fertilizer/manure #, Store, Amounts, Field, Or-ganic, Nnorm, Crop, Crop use & leach, Straw used, Cereal benefit, N crop Food/#71, Food #72, Fuel/other #9, Manure handling # Name, Final N, N2O-N emission, Each, Total, N2O-N emission, Each, Total. Rows for Note 43 and Note 44.

Table with columns: Total N, Year, N NH3, N leach, Ratios and percentages. Rows for IPCC 1996, IPCC 2006, and FUEL/OTHER/REMOVED.

N2O-N in food/beverage/fuel/other

Main data table with columns: Year, N, N leach, and 10-year (Year 1 to Year 10) totals for various crop types (Cattle, Beef, etc.).

Year, Area with crop, ha, Possible additional non IPCC N2O-N emissions, N residues emissions, ratio of N2O-N to N, Increased soil N emissions, kg N2O-N/ha, Natural background emissions, kg N2O-N/ha, Total IPCC and non IPCC N2O, Kind of source, Total anthropogenic, Total including natural, Total/year 1

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CATTLE BEEF Note 43  
 AND CONTINUING WITH SEPARATED CATTLE MANURE TO PRODUCE CATTLE BEEF Note 43

Year Fertilizer/manure Or- Nnorm Crop Straw Cereal use & Crop Crop Fuel/ Fuel/ N2O-N emission N2O-N emission  
 # Store Amounts Store 1/0 Field 1/0 ganic 1/0 tion, % Name # 1/0 leach use & #71/ beV other #9 # Name Final N2O-N emission  
 Name 1/0 Store 1/0 Field 1/0 ganic 1/0 tion, % Name # 1/0 leach use & #71/ beV other #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	100.0	0	100	22	1	0	97.8	22	40.0	10.4	0.0	0.0	29.6	12.1
1-10	N leach	1.022	1.000	1.000	1.000	1.000	NO	57.8	Cattle	0.84	0.0	0.0	10.9	1.5	14.9
		0.0784	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431
		0.1011	0.0567	0.0567	0.0567	0.0567	0.0567	0.0567	0.0567	0.0567	0.0567	0.0567	0.0567	0.0567	0.0567
	TOTAL														

N2O-N/N in food/beverage/fuel/other 0.3334 0.1868 Note 46

Year	N	1	100.0	0	100	22	1	0	97.8	22	40.0	10.4	0.0	0.0	29.6	12.1
1	Voi/NH3	N	YES	2.2	NON	100.00	WRS	1.000	NO	1.000	NO	0.0	0.0	0.0	22	29.6
	N leach			1.022	1.000	1.000	1.000	0.591	0.0	0.591	0.0	0.0	10.9	1.5	14.9	
Year	N	22	1	28.6	0	100	11	0	19.6	22	6.8	1.4	0.0	0.0	5.4	0.0
2	Voi/NH3	Cattle	YES	2.4	6.5	NON	100.00	WWH	1.000	NO	0.67	0.0	0.0	0.0	0.3	0.09
	N leach	Sep		1.016	0.867	1.016	1.016	0.653	0.0	0.653	0.0	0.0	2.7	0.0	0.10	
Year	N	22	1	5.2	4.8	0	100	11	0	0	1.2	0.3	0.0	0.0	1.0	0.05
3	Voi/NH3	Cattle	YES	0.4	1.2	NON	100.00	WWH	1.000	NO	0.67	0.0	0.0	0.0	0.02	0.02
	N leach	Sep		1.016	0.867	1.016	1.016	0.653	0.0	0.653	0.0	0.0	0.5	0.0	0.06	
Year	N	22	1	0.9	0.9	0	100	1	0	0	0.2	0.0	0.0	0.0	0.2	0.01
4	Voi/NH3	Cattle	YES	0.1	0.2	NON	100.00	SBA	1.000	NO	0.65	0.0	0.0	0.0	0.0	0.01
	N leach	Sep		1.016	0.867	1.016	1.016	0.653	0.0	0.653	0.0	0.0	0.1	0.0	0.01	
Year	N	22	1	0.2	0.2	0	100	10	0	0	0.0	0.0	0.0	0.0	0.0	0.00
5	Voi/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.66	0.0	0.0	0.0	0.0	0.00
	N leach	Sep		1.016	0.867	1.016	1.016	0.653	0.0	0.653	0.0	0.0	0.0	0.0	0.00	
Year	N	22	1	0.0	0.0	0	100	22	0	0	0.0	0.0	0.0	0.0	0.0	0.00
6	Voi/NH3	Cattle	YES	0.0	0.0	NON	100.00	WRS	1.000	NO	0.84	0.0	0.0	0.0	0.0	0.00
	N leach	Sep		1.016	0.867	1.016	1.016	0.653	0.0	0.653	0.0	0.0	0.0	0.0	0.00	
Year	N	22	1	0.0	0.0	0	100	11	0	0	0.0	0.0	0.0	0.0	0.0	0.00
7	Voi/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.0	0.0	0.0	0.0	0.00
	N leach	Sep		1.016	0.867	1.016	1.016	0.653	0.0	0.653	0.0	0.0	0.0	0.0	0.00	
Year	N	22	1	0.0	0.0	0	100	11	0	0	0.0	0.0	0.0	0.0	0.0	0.00
8	Voi/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.0	0.0	0.0	0.0	0.00
	N leach	Sep		1.016	0.867	1.016	1.016	0.653	0.0	0.653	0.0	0.0	0.0	0.0	0.00	
Year	N	22	1	0.0	0.0	0	100	1	0	0	0.0	0.0	0.0	0.0	0.0	0.00
9	Voi/NH3	Cattle	YES	0.0	0.0	NON	100.00	SBA	1.000	NO	0.65	0.0	0.0	0.0	0.0	0.00
	N leach	Sep		1.016	0.867	1.016	1.016	0.653	0.0	0.653	0.0	0.0	0.0	0.0	0.00	
Year	N	22	1	0.0	0.0	0	100	10	0	0	0.0	0.0	0.0	0.0	0.0	0.00
10	Voi/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.66	0.0	0.0	0.0	0.0	0.00
	N leach	Sep		1.016	0.867	1.016	1.016	0.653	0.0	0.653	0.0	0.0	0.0	0.0	0.00	

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 0.69 0.14 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.87 1.25 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 4.05  
 Total anthropogenic 4.05  
 Total including natural 4.91

Kind of source  
 Current crops 0.00  
 Total anthropogenic 0.00  
 Total including natural 0.87

Note 51  
 Note 51  
 Note 51  
 Note 51





N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CATTLE BEEF Note 43  
 AND CONTINUING WITH MANURE FROM GRAZING CATTLE TO PRODUCE CATTLE BEEF Note 43

Year Fertilizer/manure N crop Food/ Fuel/ Manure Final N2O-N emission N2O-N emission  
 # Store Amounts #71/ bev other handling N a- IPCC 1996 IPCC 2006  
 Name 1/0 Store Field 1/0 Or- Nnorm Crop Cereal Straw Crop use & # Uses #21-61 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	IPCC 1996					IPCC 2006					TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3					TOTAL N AMOUNTS IN KG AND % LEACHED				
1-10 N leach	0.0854					0.0540					83.7					83.7				
TOTAL	0.1161					0.0713					100.0					100.0				

N2O-N in food/beverage/fuel/other 0.3968 0.2439 Note 46

Year N	1	100.0	100.0	0	100	22	1	0	97.8	22	40.0	10.4	0.0	0.0	0.0	24	29.6	1.95	3.42	1.71	2.18	2.85	Note 45
1	Vol/NH3 N	YES	0.0	2.2	NON	100.00	WRS	1.000	NO	57.8	Cattle	0.84	0.0	0.0	0.0	0.0	0.0	0.02	0.0125	0.02	0.05	Note 45	
	N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	57.8	Beef	2	10.9	Graz	0.0	0.0	0.0	0.0	1.45	0.0200	0.43	0.63	Note 45	
Year 2	Vol/NH3 Cattle	YES	0.0	29.6	0	100	11	0	27.5	22	5.3	1.1	0.0	0.0	0.0	24	4.2	0.48	1.05	0.41	0.59	Note 47	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	1.000	NO	22.2	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.02	0.0125	0.02	0.05	Note 45	
Year 3	Vol/NH3 Cattle	YES	0.0	4.2	0	100	11	0	3.9	22	0.8	0.2	0.0	0.0	0.0	24	0.6	0.07	0.15	0.06	0.08	Note 47	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	1.000	NO	3.2	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.05	Note 45	
Year 4	Vol/NH3 Cattle	YES	0.0	0.3	NON	100.00	WWH	1.000	NO	3.2	Beef	2	0.0	0.0	0.0	0.0	0.0	0.08	0.0200	0.02	0.02	Note 49	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.6	22	0.1	0.0	0.0	0.0	24	0.1	0.01	0.02	0.01	0.01	Note 47	
Year 5	Vol/NH3 Cattle	YES	0.0	0.6	0	100	1	0	0.5	Cattle	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.5	Beef	2	0.0	0.0	0.0	0.0	0.0	0.01	0.0200	0.00	0.00	Note 49	
Year 6	Vol/NH3 Cattle	YES	0.0	0.1	0	100	10	0	0.1	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	Note 47	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	1.000	NO	0.1	Cattle	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	Note 48	
Year 7	Vol/NH3 Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.1	Beef	2	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.00	Note 49	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.1	Beef	2	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.00	Note 47	
Year 8	Vol/NH3 Cattle	YES	0.0	0.0	NON	100.00	WRS	1.000	NO	0.0	Cattle	0.84	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Beef	2	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.00	Note 49	
Year 9	Vol/NH3 Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	Note 47	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Beef	2	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.00	Note 48	
Year 10	Vol/NH3 Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	Note 47	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Beef	2	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.00	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 0.69 0.09 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.80 1.15 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: 4.64  
 Total anthropogenic: 4.64  
 Total including natural: 5.44  
 Note 51  
 Note 51  
 Note 51  
 Note 51

Year	Fertilizer/manure #	Store Name	Store 1/0	Amounts Field	Or-ganic 1/0	Nnorm Store	Crop #	Cereal benefit 1/0	Straw used 1/0	Crop use & leach	Use # Name	Food Fed	Food #72	N crop #71/ bev #8	Fuel/ other #9	Manure handling #	Final N a-mounts	N2O-N emission IPCC 1996	Total	N2O-N emission IPCC 2006	Total	Note	
																			1.63	3.45	1.43	2.07	Note 45
<p style="text-align:center">TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED</p> <p style="text-align:center">TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3</p> <p style="text-align:center">TOTAL N AMOUNTS IN KG AND % LEACHED</p> <p style="text-align:center">TOTAL N AMOUNTS IN KG AND % LEACHED</p> <p style="text-align:center">TOTAL N AMOUNTS IN KG AND %</p>																							

Year	N	1	100.0	100.0	0	100	22	1	0	0	0	16.7	40.0	0.0	0.0	0.0	19.6	1.38	3.45 <th>1.43</th> <th>2.07</th> <th>Note 45</th>	1.43	2.07	Note 45
																		0.12		0.12		Note 45
																		1.70		0.51		Note 45
<p style="text-align:center">TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED</p> <p style="text-align:center">TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3</p> <p style="text-align:center">TOTAL N AMOUNTS IN KG AND % LEACHED</p> <p style="text-align:center">TOTAL N AMOUNTS IN KG AND % LEACHED</p> <p style="text-align:center">TOTAL N AMOUNTS IN KG AND %</p>																						

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	100.0	0	100	22	1	0	0	0	16.7	40.0	0.0	0.0	0.0	23.3	1.38	2.88	1.21	1.70	Note 47
1	Vol/NH3	N	YES	1.000	NO	1.000	WRS	1.000	NO	0.591	0.0	0.84	0.84	0.0	0.0	0.0	3.3	0.05	0.0125	0.05	0.0100	Note 48
Year	N	leach				1.000	WRS	1.000	NO	0.591	0.0	10.9	3	0.0	0.0	0.0	0.0	1.45	0.0010	0.43	0.0050	Note 49
2	Vol/NH3	Pig	YES	20.0	0	100	11	0	0	14.6	0.0	5.8	32	0.0	0.0	0.0	3.4	0.21	0.49	0.19	0.31	Note 47
Year	N	leach	Liquid	1.000	0.5	100.00	WWH	1.000	NO	1.000	0.0	0.67	0.67	0.0	0.0	0.0	0.5	0.06	0.0125	0.06	0.0100	Note 48
3	Vol/NH3	Pig	YES	2.9	0	100	11	0	0	2.1	0.0	0.9	32	0.0	0.0	0.0	0.5	0.03	0.07	0.03	0.05	Note 47
Year	N	leach	Liquid	1.000	0.1	100.00	WWH	1.000	NO	1.000	0.0	0.67	0.67	0.0	0.0	0.0	0.1	0.01	0.0125	0.01	0.0100	Note 48
4	Vol/NH3	Pig	YES	0.4	0	100	1	0	0	0.3	0.0	0.1	32	0.0	0.0	0.0	0.1	0.00	0.01	0.00	0.01	Note 47
Year	N	leach	Liquid	1.000	0.0	100.00	SBA	1.000	NO	1.000	0.0	0.65	0.65	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
5	Vol/NH3	Pig	YES	0.1	0	100	10	0	0	0.2	0.0	0.0	32	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
Year	N	leach	Liquid	1.000	0.0	100.00	WBA	1.000	NO	1.000	0.0	0.66	0.66	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0050	Note 49
6	Vol/NH3	Pig	YES	0.0	0	100	22	0	0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
Year	N	leach	Liquid	1.000	0.0	100.00	WRS	1.000	NO	1.000	0.0	0.84	0.84	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0050	Note 48
7	Vol/NH3	Pig	YES	0.0	0	100	11	0	0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
Year	N	leach	Liquid	1.000	0.0	100.00	WWH	1.000	NO	1.000	0.0	0.67	0.67	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
8	Vol/NH3	Pig	YES	0.0	0	100	11	0	0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
Year	N	leach	Liquid	1.000	0.0	100.00	WWH	1.000	NO	1.000	0.0	0.67	0.67	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
9	Vol/NH3	Pig	YES	0.0	0	100	1	0	0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
Year	N	leach	Liquid	1.000	0.0	100.00	SBA	1.000	NO	1.000	0.0	0.65	0.65	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
10	Vol/NH3	Pig	YES	0.0	0	100	10	0	0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	Note 47
Year	N	leach	Liquid	1.000	0.0	100.00	WBA	1.000	NO	1.000	0.0	0.66	0.66	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
Area with crop, ha														0.69	0.12	0.00	0.00	0.00	0.84	1.21		Note 50

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

Possible additional non IPCC N2O-N emissions

N residues emissions, ratio of N2O-N to N:

Increased soil N emissions, kg N2O-N/ha:

Natural background emissions, kg N2O-N/ha:

Value

0.0000

0.00

1.00

Kind of source

Current crops

Total anthropogenic

Total including natural

Total IPCC and non IPCC N2O

3.45

3.45

4.29

2.07 Note 51

2.07 Note 51

2.90 Note 51



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

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 handling # Name Final N a-mounts N2O-N emission IPCC 1996 N2O-N emission IPCC 2006 Total 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 1-10	ACCORDING TO FIRST YEAR TOTAL										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3 LEACHED									
N leach	100.0	0	100	22	1	0	97.8	32	40.0	16.7	0.0	0.0	0.0	33	23.3	1.87	3.68	1.32	2.00	Note 45
N leach	2.2	NON	100.00	WRS	1.000	NO	57.8	Pig	0.84					0.0	Pig	5.8	0.08	0.125	1.20	Note 45
N leach	1.022	ORG	1.00	1.000	0.591	0.0	57.8	Pork	3					10.9	Deep	0.0	1.45	0.0200	0.43	Note 45
N leach	11.8	0	100	11	0	0	8.9	32	3.1	1.3	0.0	0.0	0.0	33	1.8	0.15	0.41	0.11	Note 45	
N leach	3.0	NON	100.00	WWH	1.000	NO	5.8	Pig	0.67					0.0	Pig	0.4	0.11	0.0125	0.11	Note 45
N leach	0.9	ORG	1.00	1.000	0.653	0.0	5.8	Pork	3					1.2	Deep	0.0	0.14	0.0200	0.04	Note 45
N leach	0.2	NON	100.00	WWH	1.000	NO	0.7	32	0.2	0.1	0.0	0.0	0.0	33	0.1	0.01	0.03	0.01	Note 45	
N leach	0.1	ORG	1.00	1.000	0.653	0.0	0.4	Pig	0.67					0.0	Pig	0.0	0.01	0.0125	0.01	Note 45
N leach	0.1	ORG	1.00	1.000	0.653	0.0	0.4	Pork	3					0.1	Deep	0.0	0.01	0.0200	0.00	Note 45
N leach	0.1	ORG	1.00	1.000	0.653	0.0	0.1	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	Note 45	
N leach	0.0	NON	100.00	SBA	1.000	NO	0.0	Pig	0.65					0.0	Pig	0.0	0.00	0.0125	0.00	Note 45
N leach	0.0	ORG	1.00	1.000	0.653	0.0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 45
N leach	0.0	ORG	1.00	1.000	0.653	0.0	0.0	Pig	0.66					0.0	Pig	0.0	0.00	0.0125	0.00	Note 45
N leach	0.0	NON	100.00	WBA	1.000	NO	0.0	Pig	0.66					0.0	Pig	0.0	0.00	0.0125	0.00	Note 45
N leach	0.0	ORG	1.00	1.000	0.653	0.0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 45
N leach	0.0	NON	100.00	WRS	1.000	NO	0.0	Pig	0.84					0.0	Pig	0.0	0.00	0.0125	0.00	Note 45
N leach	0.0	ORG	1.00	1.000	0.653	0.0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 45
N leach	0.0	NON	100.00	WRS	1.000	NO	0.0	Pig	0.84					0.0	Pig	0.0	0.00	0.0125	0.00	Note 45
N leach	0.0	ORG	1.00	1.000	0.653	0.0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 45
N leach	0.0	NON	100.00	WWH	1.000	NO	0.0	Pig	0.67					0.0	Pig	0.0	0.00	0.0125	0.00	Note 45
N leach	0.0	ORG	1.00	1.000	0.653	0.0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 45
N leach	0.0	NON	100.00	WWH	1.000	NO	0.0	Pig	0.67					0.0	Pig	0.0	0.00	0.0125	0.00	Note 45
N leach	0.0	ORG	1.00	1.000	0.653	0.0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 45
N leach	0.0	NON	100.00	SBA	1.000	NO	0.0	Pig	0.65					0.0	Pig	0.0	0.00	0.0125	0.00	Note 45
N leach	0.0	ORG	1.00	1.000	0.653	0.0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 45
N leach	0.0	NON	100.00	WBA	1.000	NO	0.0	Pig	0.66					0.0	Pig	0.0	0.00	0.0125	0.00	Note 45
N leach	0.0	ORG	1.00	1.000	0.653	0.0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 45

N2O-N in food/beverage/fuel/other

Year 1	Vol/NH3 N leach	1	100.0	0.0	1	0	97.8	32	40.0	16.7	0.0	0.0	0.0	33	23.3	1.71	3.23	1.20	1.72	Note 47
Year 2	Vol/NH3 N leach	33	19.7	7.9	1	0	8.9	32	3.1	1.3	0.0	0.0	0.0	33	1.8	0.15	0.41	0.43	0.0050	Note 48
Year 3	Vol/NH3 N leach	33	1.5	0.6	1	0	0.7	32	0.2	0.1	0.0	0.0	0.0	33	0.4	0.11	0.0125	0.11	0.0100	Note 48
Year 4	Vol/NH3 N leach	33	0.1	0.1	1	0	0.4	Pig	0.67					0.0	Pig	0.0	0.01	0.0125	0.01	Note 48
Year 5	Vol/NH3 N leach	33	0.0	0.0	1	0	0.1	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.0050	Note 49
Year 6	Vol/NH3 N leach	33	0.0	0.0	1	0	0.0	Pig	0.65					0.0	Pig	0.0	0.00	0.0125	0.00	Note 48
Year 7	Vol/NH3 N leach	33	0.0	0.0	1	0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 47
Year 8	Vol/NH3 N leach	33	0.0	0.0	1	0	0.0	Pig	0.66					0.0	Pig	0.0	0.00	0.0125	0.00	Note 48
Year 9	Vol/NH3 N leach	33	0.0	0.0	1	0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 47
Year 10	Vol/NH3 N leach	33	0.0	0.0	1	0	0.0	Pig	0.67					0.0	Pig	0.0	0.00	0.0125	0.00	Note 48
Year 10	Vol/NH3 N leach	33	0.0	0.0	1	0	0.0	Pork	3					0.0	Deep	0.0	0.00	0.0200	0.00	Note 49

Year Area with crop, ha

Year 1 0.69 Year 2 0.06 Year 3 0.00 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 1.10

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 3.68  
 Total anthropogenic 3.68  
 Total including natural 4.44

Note 50 Note 51 Note 51 Note 51 Note 51



N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL TO PRODUCE WINTER RAPESEED FOR OIL AND FUEL/ OTHER #9  
 AND CONTINUING WITH LIQUID POULTRY MANURE TO PRODUCE WINTER WHEAT FOR #71/ bevs #72 #73 #74 #75 #76 #77 #78 #79

Year Fertilizer/manure # Store Amounts Field 1/0 Or-ganic 1/0 Nnorm propor tion, % Crop # Name Use # Fodder: Uses #21-61 Fed Name Food #72 Food #73 Fuel/ other #9 Manure handling # Final N a-mounts N2O-N emission IPCC 1996 Each Total N2O-N emission IPCC 2006 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										23.0	23.0
Year N NH3	ACCORDING TO		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										9.7	9.7
1-10 N leach	FIRST YEAR		TOTAL N AMOUNTS IN KG AND % LEACHED										67.3	67.3
	TOTAL		TOTAL N AMOUNTS IN KG AND %										100.0	100.0

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	100.0	0	100	22	1	0	97.8	42	40.0	20.4	0.0	0.0	0.0	19.6	1.20	2.86	1.38	3.37	1.59	3.37	1.38	1.99	Note 45
1	Vol/NH3	N YES	0.0	2.2	NON	100.00	WRS	1.000	NO	57.8	Poultry	0.84	0.84	0.0	0.0	0.0	2.0	0.04	0.125	0.04	0.125	0.10	0.10	0.10	0.10	Note 45
	N leach		1.022	1.000	ORG	1.00	1.000	0.591	0.0	57.8	Meat	4	4	10.9	Liquid	0.0	2.0	1.45	0.0010	1.45	0.0010	1.68	1.68	0.51	Note 45	
Year	N	41	17.6	17.3	0	100	11	0	0	13.0	42	4.5	2.3	0.0	0.0	0.0	2.2	0.19	0.45	0.19	0.45	1.68	1.68	0.51	Note 45	
2	Vol/NH3	Poultry YES	0.4	4.3	NON	100.00	WWH	1.000	NO	8.5	Poultry	0.67	0.67	0.0	0.0	0.0	0.2	0.05	0.125	0.05	0.125	0.05	0.125	0.05	Note 48	
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000	0.653	0.0	8.5	Meat	4	4	1.8	Liquid	0.0	0.2	0.21	0.0010	0.06	0.0050	0.06	0.0050	0.06	Note 49	
Year	N	41	2.0	1.9	0	100	11	0	0	1.5	42	0.5	0.3	0.0	0.0	0.0	0.2	0.02	0.05	0.02	0.05	1.68	1.68	0.51	Note 45	
3	Vol/NH3	Poultry YES	0.0	0.5	NON	100.00	WWH	1.000	NO	1.0	Poultry	0.67	0.67	0.0	0.0	0.0	0.0	0.01	0.125	0.01	0.125	0.01	0.125	0.01	Note 48	
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000	0.653	0.0	1.0	Meat	4	4	0.2	Liquid	0.0	0.2	0.02	0.0010	0.01	0.0050	0.01	0.0050	0.01	Note 49	
Year	N	41	0.2	0.2	0	100	1	0	0	0.2	42	0.1	0.0	0.0	0.0	0.0	0.0	0.00	0.01	0.00	0.01	0.00	0.01	0.00	Note 47	
4	Vol/NH3	Poultry YES	0.2	0.1	NON	100.00	SBA	1.000	NO	0.1	Poultry	0.65	0.65	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.125	0.00	0.125	0.00	Note 48	
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.1	Meat	4	4	0.0	Liquid	0.0	0.0	0.00	0.0010	0.00	0.0010	0.00	0.0010	0.00	Note 49	
Year	N	41	0.0	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	0.00	0.00	0.00	Note 47	
5	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.0	Poultry	0.66	0.66	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.125	0.00	0.125	0.00	Note 48	
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.0	Meat	4	4	0.0	Liquid	0.0	0.0	0.00	0.0010	0.00	0.0010	0.00	0.0010	0.00	Note 49	
Year	N	41	0.0	0.0	0	100	22	1	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 47	
6	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WRS	1.000	NO	0.0	Poultry	0.84	0.84	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.125	0.00	0.125	0.00	Note 48	
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.0	Meat	4	4	0.0	Liquid	0.0	0.0	0.00	0.0010	0.00	0.0010	0.00	0.0010	0.00	Note 49	
Year	N	41	0.0	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	0.00	0.00	0.00	Note 47	
7	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Poultry	0.67	0.67	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.125	0.00	0.125	0.00	Note 48	
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.0	Meat	4	4	0.0	Liquid	0.0	0.0	0.00	0.0010	0.00	0.0010	0.00	0.0010	0.00	Note 49	
Year	N	41	0.0	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	0.00	0.00	0.00	Note 47	
8	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Poultry	0.67	0.67	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.125	0.00	0.125	0.00	Note 48	
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.0	Meat	4	4	0.0	Liquid	0.0	0.0	0.00	0.0010	0.00	0.0010	0.00	0.0010	0.00	Note 49	
Year	N	41	0.0	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	0.00	0.00	0.00	Note 47	
9	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	SBA	1.000	NO	0.0	Poultry	0.65	0.65	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.125	0.00	0.125	0.00	Note 48	
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.0	Meat	4	4	0.0	Liquid	0.0	0.0	0.00	0.0010	0.00	0.0010	0.00	0.0010	0.00	Note 49	
Year	N	41	0.0	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	0.00	0.00	0.00	Note 47	
10	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.0	Poultry	0.66	0.66	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.125	0.00	0.125	0.00	Note 48	
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000	0.653	0.0	0.0	Meat	4	4	0.0	Liquid	0.0	0.0	0.00	0.0010	0.00	0.0010	0.00	0.0010	0.00	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 0.69 0.09 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.80 1.15

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:

Total IPCC and non IPCC N2O 3.37  
 Total anthropogenic 3.37  
 Total including natural 4.17

Kind of source  
 Current crops  
 Total anthropogenic  
 Total including natural

Note 51  
 Note 51  
 Note 51  
 Note 51

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

Year Fertilizer/manure # Store Amounts Field 1/0 Or-ganic 1/0 Nnorm propor # Crop use & leach Straw used 1/0 Cereal benefit 1/0 N crop Food/ #71/ bevs other #9 Fuel/ #8 Food #72 Food #21-61 Uses #21-61 Fed Name Use Fodder: # Name mounts Final N a- mounts N2O-N emission IPCC 1996 Each Total N2O-N emission IPCC 2006 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						
1-10 N leach	0.0757							0.0423							64.5							64.5						
TOTAL	0.0854							0.0483							100.0							100.0						

N2O-N in food/beverage/fuel/other

Year N	1	100.0	100.0	0	100	22	1	0	97.8	42	40.0	20.4	0.0	0.0	0.0	0.0	19.6	1.51	3.03	1.19	1.31	3.42	1.67	3.42	1.31	1.93		
1	Vol/NH3 N	YES	0.0	2.2	NON	100.00	WRS	1.000	NO	57.8	Poultry	0.84	0.0	0.0	0.0	0.0	4.9	0.07	0.0125	0.07	0.13	0.13	0.13	0.13	0.13	0.48	Note 45	
	N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	57.8	Meat	4	10.9	Sep	0.0	0.0	0.0	0.0	1.45	0.0105	0.43	0.48	1.61	1.61	1.61	0.48	Note 45		
Year 2	Vol/NH3 Poultry YES	2.2	14.7	12.5	0	100	11	0	9.4	42	3.2	1.7	0.0	0.0	0.0	0.0	1.6	0.15	0.036	0.12	0.12	0.36	0.36	0.36	0.12	0.22	Note 47	
	N leach Sep	0.867	1.000	3.1	NON	100.00	WWH	1.000	NO	6.1	Poultry	0.67	0.0	0.0	0.0	0.0	0.4	0.06	0.0125	0.06	0.06	0.125	0.125	0.125	0.06	0.100	Note 48	
Year 3	Vol/NH3 Poultry YES	0.2	1.2	1.0	0	100	11	0	0.8	42	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.01	0.003	0.01	0.01	0.03	0.03	0.03	0.01	0.02	Note 47	
	N leach Sep	0.867	1.000	0.3	NON	100.00	WWH	1.000	NO	0.5	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00125	0.00	0.00125	0.00125	0.00125	0.00125	0.00	0.0100	Note 48
Year 4	Vol/NH3 Poultry YES	0.0	0.1	0.1	0	100	1	0	0.1	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.00	0.00125	0.00125	0.00125	0.00	0.0050	Note 49	
	N leach Sep	0.867	1.000	0.0	NON	100.00	SBA	1.000	NO	0.0	Poultry	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.000125	0.000125	0.000125	0.00	0.0100	Note 48	
Year 5	Vol/NH3 Poultry YES	0.0	0.0	0.0	0	100	10	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.00	0.000125	0.000125	0.000125	0.00	0.0050	Note 49	
	N leach Sep	0.867	1.000	0.0	NON	100.00	WBA	1.000	NO	0.0	Poultry	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.000125	0.000125	0.000125	0.00	0.0100	Note 48	
Year 6	Vol/NH3 Poultry YES	0.0	0.0	0.0	0	100	22	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.00	0.000125	0.000125	0.000125	0.00	0.0050	Note 49	
	N leach Sep	0.867	1.000	0.0	NON	100.00	WRS	1.000	NO	0.0	Poultry	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.000125	0.000125	0.000125	0.00	0.0100	Note 48	
Year 7	Vol/NH3 Poultry YES	0.0	0.0	0.0	0	100	11	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.00	0.000125	0.000125	0.000125	0.00	0.0050	Note 49	
	N leach Sep	0.867	1.000	0.0	NON	100.00	WWH	1.000	NO	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.000125	0.000125	0.000125	0.00	0.0100	Note 48	
Year 8	Vol/NH3 Poultry YES	0.0	0.0	0.0	0	100	11	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.00	0.000125	0.000125	0.000125	0.00	0.0050	Note 49	
	N leach Sep	0.867	1.000	0.0	NON	100.00	WWH	1.000	NO	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.000125	0.000125	0.000125	0.00	0.0100	Note 48	
Year 9	Vol/NH3 Poultry YES	0.0	0.0	0.0	0	100	1	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.00	0.000125	0.000125	0.000125	0.00	0.0050	Note 49	
	N leach Sep	0.867	1.000	0.0	NON	100.00	SBA	1.000	NO	0.0	Poultry	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.000125	0.000125	0.000125	0.00	0.0100	Note 48	
Year 10	Vol/NH3 Poultry YES	0.0	0.0	0.0	0	100	10	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.00	0.000125	0.000125	0.000125	0.00	0.0050	Note 49	
	N leach Sep	0.867	1.000	0.0	NON	100.00	WBA	1.000	NO	0.0	Poultry	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000125	0.00	0.000125	0.000125	0.000125	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 0.69 0.07 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.77 1.11 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: 0.69

Total IPCC and non IPCC N2O 3.42  
 Total anthropogenic 3.42  
 Total including natural 4.18  
 Note 51 1.93 Note 51 1.93 Note 51 2.70 Note 51





N CHAIN STARTING WITH N FERTILIZER TO PRODUCE POULTRY MEAT Note 43  
 AND CONTINUING WITH MANURE FROM SCRAPING POULTRY TO PRODUCE POULTRY MEAT Note 43

Year Fertilizer/manure N crop Food/ Fuel/ Manure Final N2O-N emission N2O-N emission  
 # Store Amounts #71/ bev other handling N a- IPCC 1996 IPCC 2006  
 Name 1/0 Store Field 1/0 Or- Nnorm Crop Straw Cereal benefit used 1/0 Food Fed Uses #21-61 # 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													22.4	22.4
Year N NH3	IPCC 1996 IPCC 2006													3.7	3.7
1-10 N leach	FIRST YEAR													73.9	73.9
TOTAL	TOTAL N AMOUNTS IN KG AND %													100.0	100.0

N2O-N in food/beverage/fuel/other 0.1769 0.1059 Note 46

Year	N	Vol/NH3	N	YES	100.0	100.0	0	100	22	1	0	97.8	42	40.0	20.4	0.0	0.0	0.0	19.6	1.75	3.22	1.51	3.22	1.51	
1	Vol/NH3	N	YES	100.0	100.0	0	100	22	1	0	57.8	Poultry	0.84	4	10.9	Scrap	0.0	0.0	0.0	0.0	0.02	0.0125	0.02	0.0125	0.02
	N leach			1.022	1.000	0.591	0.0	1.000	0.591	0.0	57.8	Meat	4	4	10.9	Scrap	0.0	0.0	0.0	1.45	0.0200	0.43	0.0200	0.43	
Year	N	44	1	19.6	0	0	100	11	0	0	18.2	42	3.5	1.8	0.0	0.0	0.0	1.7	0.29	0.67	0.25	0.67	0.25	0.67	
2	Vol/NH3	Poultry	YES	1.000	100.0	1.000	0	100	11	0	14.7	Poultry	0.67	4	2.5	Scrap	0.0	0.0	0.0	0.01	0.0125	0.01	0.0125	0.01	0.0125
	N leach	Scrap	0.484	1.000	0.806	0.0	1.000	0.806	0.0	0.0	14.7	Meat	4	4	2.5	Scrap	0.0	0.0	0.0	0.37	0.0200	0.11	0.0200	0.11	
Year	N	44	1	1.7	1.000	0.806	0.0	1.000	0.806	0.0	1.6	42	0.3	0.2	0.0	0.0	0.0	0.2	0.06	0.03	0.02	0.03	0.02	0.03	
3	Vol/NH3	Poultry	YES	0.0	100.0	1.000	0	100	10	0	1.3	Poultry	0.67	4	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0125
	N leach	Scrap	0.484	1.000	0.806	0.0	1.000	0.806	0.0	0.0	1.3	Meat	4	4	0.2	Scrap	0.0	0.0	0.03	0.0200	0.01	0.0200	0.01	0.0200	
Year	N	44	1	0.2	0	0	100	1	0	0	0.1	42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.01	0.00	0.00	
4	Vol/NH3	Poultry	YES	0.0	100.0	1.000	0	100	10	0	0.1	Poultry	0.65	4	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0125
	N leach	Scrap	0.484	1.000	0.806	0.0	1.000	0.806	0.0	0.0	0.1	Meat	4	4	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	
Year	N	44	1	0.0	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	0.00	0.00	
5	Vol/NH3	Poultry	YES	0.0	100.0	1.000	0	100	10	0	0.0	Poultry	0.66	4	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0125
	N leach	Scrap	0.484	1.000	0.806	0.0	1.000	0.806	0.0	0.0	0.0	Meat	4	4	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	
Year	N	44	1	0.0	0	0	100	22	1	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	
6	Vol/NH3	Poultry	YES	0.0	100.0	1.000	0	100	11	0	0.0	Poultry	0.84	4	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0125
	N leach	Scrap	0.484	1.000	0.806	0.0	1.000	0.806	0.0	0.0	0.0	Meat	4	4	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	
Year	N	44	1	0.0	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	0.00	0.00	
7	Vol/NH3	Poultry	YES	0.0	100.0	1.000	0	100	11	0	0.0	Poultry	0.67	4	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0125
	N leach	Scrap	0.484	1.000	0.806	0.0	1.000	0.806	0.0	0.0	0.0	Meat	4	4	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	
Year	N	44	1	0.0	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	0.00	0.00	
8	Vol/NH3	Poultry	YES	0.0	100.0	1.000	0	100	11	0	0.0	Poultry	0.67	4	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0125
	N leach	Scrap	0.484	1.000	0.806	0.0	1.000	0.806	0.0	0.0	0.0	Meat	4	4	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	
Year	N	44	1	0.0	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	0.00	0.00	
9	Vol/NH3	Poultry	YES	0.0	100.0	1.000	0	100	1	0	0.0	Poultry	0.65	4	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0125
	N leach	Scrap	0.484	1.000	0.806	0.0	1.000	0.806	0.0	0.0	0.0	Meat	4	4	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	
Year	N	44	1	0.0	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	0.00	0.00	
10	Vol/NH3	Poultry	YES	0.0	100.0	1.000	0	100	10	0	0.0	Poultry	0.66	4	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0125	0.00	0.0125
	N leach	Scrap	0.484	1.000	0.806	0.0	1.000	0.806	0.0	0.0	0.0	Meat	4	4	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	
Year	N	44	1	0.0	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	0.00	0.00	

Year Year1 Year2 Year3 Year4 Year5 Year6 Year7 Year8 Year9 Year10 Total Total/year 1

Area with crop, ha 0.69 0.06 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.76 1.09 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 3.96  
 Total anthropogenic 3.96  
 Total including natural 4.72  
 Note 51 2.37 Note 51 2.37 Note 51 3.13 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE  
 AND CONTINUING WITH LIQUID POULTRY MANURE TO PRODUCE TO PRODUCE

Year Fertilizer/manure # Store Amounts Field 1/0 Or-ganic 1/0 Nnorm propor # Crop use & leach Straw used 1/0 Cereal benefit 1/0 N crop Food/ #71/ bevs other #9 Fuel/ #8 Food #72 Food #21-61 Uses #21-61 Manure handling # Name Final N a- mounts Total N2O-N emission IPCC 1996 IPCC 2006 N2O-N emission 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	100.0	0	100	22	1	0	97.8	43	40.0	9.6	0.0	0.0	30.4	11.7	1.74	3.73	1.56	2.26	Note 45	
1-10 N leach	0.0	2.2	NON	100.00	WRS	1.000	NO	0.84	0.84	0.84	0.0	0.0	3.0	14.6	0.15	0.15	0.15	Note 45		
	1.022	1.000	ORG	1.00	1.000	0.591	0.0	4	4	4	10.9	Liquid	10.9	73.7	1.84	0.55	0.55	Note 45		
Year 1	41	27.3	0	100	11	0	0	43	7.0	1.7	0.0	0.0	5.3	41	0.29	0.70	0.26	Note 44		
Year 2	Poultry YES	0.5	6.7	NON	100.00	WWH	1.000	NO	0.67	0.67	0.0	0.0	0.5	0.0	0.08	0.125	0.08	Note 48		
Year 3	Liquid	1.000	4.7	0	100	11	0	43	1.2	0.3	0.0	0.0	0.9	41	0.05	0.12	0.05	Note 47		
Year 4	Poultry YES	0.1	1.2	NON	100.00	WWH	1.000	NO	0.67	0.67	0.0	0.0	0.1	0.0	0.01	0.125	0.01	Note 48		
Year 5	Liquid	1.000	0.8	0	100	1	0	43	0.2	0.1	0.0	0.0	0.2	41	0.06	0.010	0.02	Note 49		
Year 6	Poultry YES	0.0	0.2	NON	100.00	SBA	1.000	NO	0.65	0.65	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 7	Liquid	1.000	0.1	0	100	10	0	43	0.0	0.0	0.0	0.0	0.0	41	0.01	0.010	0.00	Note 49		
Year 8	Poultry YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.66	0.66	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 9	Liquid	1.000	0.0	0	100	22	0	43	0.0	0.0	0.0	0.0	0.0	41	0.00	0.010	0.00	Note 49		
Year 10	Poultry YES	0.0	0.0	NON	100.00	WRS	1.000	NO	0.84	0.84	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 11	Liquid	1.000	0.0	0	100	11	0	43	0.0	0.0	0.0	0.0	0.0	41	0.00	0.010	0.00	Note 49		
Year 12	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.67	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 13	Liquid	1.000	0.0	0	100	10	0	43	0.0	0.0	0.0	0.0	0.0	41	0.00	0.010	0.00	Note 49		
Year 14	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.67	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 15	Liquid	1.000	0.0	0	100	10	0	43	0.0	0.0	0.0	0.0	0.0	41	0.00	0.010	0.00	Note 49		
Year 16	Poultry YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.66	0.66	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 17	Liquid	1.000	0.0	0	100	1000	0.653	0.0	4	4	0.0	0.0	0.0	0.0	0.00	0.010	0.00	Note 49		

N2O-N in food/beverage/fuel/other 0.3192

Year	N	1	100.0	0	100	22	1	0	97.8	43	40.0	9.6	0.0	0.0	30.4	11.7	1.74	3.73	1.56	2.26	Note 45
Year 1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRS	1.000	NO	0.84	0.84	0.0	0.0	3.0	14.6	0.15	0.15	0.15	Note 45	
Year 2	N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	4	4	10.9	Liquid	10.9	73.7	1.84	0.55	0.55	Note 45			
Year 3	Vol/NH3	Poultry YES	0.5	6.7	NON	100.00	WWH	1.000	NO	0.67	0.67	0.0	0.0	0.5	0.0	0.08	0.125	0.08	Note 48		
Year 4	N leach	Liquid	1.000	4.7	0	100	11	0	43	1.2	0.3	0.0	0.0	0.9	0.0	0.05	0.12	0.05	Note 47		
Year 5	Vol/NH3	Poultry YES	0.1	1.2	NON	100.00	WWH	1.000	NO	0.67	0.67	0.0	0.0	0.1	0.0	0.01	0.125	0.01	Note 48		
Year 6	N leach	Liquid	1.000	0.8	0	100	1	0	43	0.2	0.1	0.0	0.0	0.2	0.0	0.06	0.010	0.02	Note 49		
Year 7	Vol/NH3	Poultry YES	0.0	0.2	NON	100.00	SBA	1.000	NO	0.65	0.65	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 8	N leach	Liquid	1.000	0.1	0	100	10	0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.010	0.00	Note 49		
Year 9	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.66	0.66	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 10	N leach	Liquid	1.000	0.0	0	100	22	0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.010	0.00	Note 49		
Year 11	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WRS	1.000	NO	0.84	0.84	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 12	N leach	Liquid	1.000	0.0	0	100	11	0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.010	0.00	Note 49		
Year 13	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.67	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 14	N leach	Liquid	1.000	0.0	0	100	10	0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.010	0.00	Note 49		
Year 15	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.67	0.67	0.0	0.0	0.0	0.0	0.00	0.125	0.00	Note 48		
Year 16	N leach	Liquid	1.000	0.0	0	100	1000	0.653	0.0	4	4	0.0	0.0	0.0	0.0	0.00	0.010	0.00	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 0.69 0.14 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.87 1.25 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: 0.69  
 Total IPCC and non IPCC N2O 3.73  
 Total anthropogenic 3.73  
 Total including natural 4.60  
 Note 51 2.26 Note 51 2.26 Note 51 3.13 Note 51

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

Year Fertilizer/manure # Store Amounts Field Name 1/0 Or-ganic 1/0 Nnorm propor 1/0 Crop # Name Use # Name Fed Food #72 bevs #71 other #9 Fuel/ Food/ #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 N2O-N emission 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	100.0	0	100	22	1	0	97.8	43	40.0	9.6	0.0	0.0	30.4	11.0	11.0	1.87	3.79	1.44	2.16	
1-10	N leach	0.0785	0.0947	0.0440	0.0539	1.000	NO	57.8	Poultry	0.84	0.0	0.0	0.0	7.6	20.3	20.3	0.20	0.20	0.20	0.20	
TOTAL		0.0947	0.0539	0.0440	0.0539	1.000	NO	57.8	Eggs	4	1.2	0.0	0.0	3.8	68.6	68.6	1.72	1.72	0.51	0.51	

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	0	100	22	1	0	97.8	43	40.0	9.6	0.0	0.0	30.4	11.0	1.87	3.79	1.44	2.16
1	Voi/NH3	YES	0.0	2.2	NON	WRS	1.000	NO	57.8	Poultry	0.84	0.0	0.0	0.0	7.6	20.3	20.3	0.10	0.10	0.10
	N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	57.8	Eggs	4	10.9	Sep	0.0	0.0	0.0050	0.0050	0.43	0.43	
Year	N	42	1	22.8	19.4	0	100	11	14.5	43	5.0	1.2	0.0	0.0	3.8	0.35	0.57	0.18	0.35	
2	Voi/NH3	Poultry	YES	3.4	4.8	NON	WWWH	1.000	9.5	Poultry	0.67	0.0	0.0	1.0	0.09	0.100	0.09	0.09	0.09	
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.653	9.5	Eggs	4	2.0	Sep	0.0	0.0050	0.0050	0.07	0.07	0.07	
Year	N	42	1	2.9	2.4	0	100	11	1.8	43	0.6	0.2	0.0	0.0	0.5	0.04	0.07	0.02	0.04	
3	Voi/NH3	Poultry	YES	0.4	0.6	NON	WWWH	1.000	1.2	Poultry	0.67	0.0	0.0	0.1	0.01	0.0100	0.01	0.01	0.01	
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.653	1.2	Eggs	4	0.2	Sep	0.0	0.0050	0.0050	0.01	0.01	0.01	
Year	N	42	1	0.4	0.3	0	100	1	0.2	43	0.1	0.0	0.0	0.1	0.00	0.01	0.00	0.00	0.01	
4	Voi/NH3	Poultry	YES	0.1	0.1	NON	SBA	1.000	0.2	Poultry	0.65	0.0	0.0	0.0	0.00	0.0100	0.00	0.00	0.00	
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.653	0.2	Eggs	4	0.0	0.0	0.0	0.00	0.0050	0.00	0.00	0.00	
Year	N	42	1	0.0	0.0	0	100	10	0.0	43	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5	Voi/NH3	Poultry	YES	0.0	0.0	NON	WBA	1.000	0.0	Poultry	0.66	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.653	0.0	Eggs	4	0.0	0.0	0.0	0.00	0.0050	0.00	0.00	0.00	
Year	N	42	1	0.0	0.0	0	100	22	0.0	43	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6	Voi/NH3	Poultry	YES	0.0	0.0	NON	WRS	1.000	0.0	Poultry	0.84	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.653	0.0	Eggs	4	0.0	0.0	0.0	0.00	0.0050	0.00	0.00	0.00	
Year	N	42	1	0.0	0.0	0	100	11	0.0	43	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7	Voi/NH3	Poultry	YES	0.0	0.0	NON	WWWH	1.000	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.653	0.0	Eggs	4	0.0	0.0	0.0	0.00	0.0050	0.00	0.00	0.00	
Year	N	42	1	0.0	0.0	0	100	11	0.0	43	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8	Voi/NH3	Poultry	YES	0.0	0.0	NON	WWWH	1.000	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.653	0.0	Eggs	4	0.0	0.0	0.0	0.00	0.0050	0.00	0.00	0.00	
Year	N	42	1	0.0	0.0	0	100	1	0.0	43	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9	Voi/NH3	Poultry	YES	0.0	0.0	NON	SBA	1.000	0.0	Poultry	0.65	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.653	0.0	Eggs	4	0.0	0.0	0.0	0.00	0.0050	0.00	0.00	0.00	
Year	N	42	1	0.0	0.0	0	100	10	0.0	43	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10	Voi/NH3	Poultry	YES	0.0	0.0	NON	WBA	1.000	0.0	Poultry	0.66	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.653	0.0	Eggs	4	0.0	0.0	0.0	0.00	0.0050	0.00	0.00	0.00	

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 0.69 0.10 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.81 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: 0.69  
 Total IPCC and non IPCC N2O 3.79  
 Total anthropogenic 3.79  
 Total including natural 4.60  
 Note 51 2.16 Note 51 2.16 Note 51 2.97 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR OIL AND FUEL/ OTHER #9  
 AND CONTINUING WITH POULTRY DEEP LITTER TO PRODUCE WINTER WHEAT FOR #71/ #72 #77/ #78 #79  
 POULTRY EGGS MANURE Final N2O-N emission  
 POULTRY EGGS # Name mounts Each Total IPCC 1996 IPCC 2006

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Straw used 1/0	Cereal benefit 1/0	Use #	Feeder: Uses #21-61	Food Fed	N crop #71/ #72	Fuel/ bev #8	other #9	Manure handling #	Final N a-mounts	N2O-N emission Each	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 ACCORDING TO IPCC 1996 IPCC 2006 FIRST YEAR 0.0828 0.0446 TOTAL 0.0957 0.0522 TOTAL N AMOUNTS IN KG AND % LEACHED TOTAL N AMOUNTS IN KG AND %																				

Year	N	Vol/NH3	N	YES	100.0	100.0	0	100	22	1	0	97.8	43	40.0	9.6	0.0	0.0	0.0	0.0	30.4	1.21	3.31	1.72	3.83	1.92	3.83	1.36	2.09		
Year 1	Vol/NH3	N	YES	100.0	100.0	0	100	22	1	0	97.8	43	40.0	9.6	0.0	0.0	0.0	0.0	30.4	1.21	3.31	1.72	3.83	1.92	3.83	1.36	2.09			
	N leach			0.0	0.0	2.2	NON	100.0	WRS	1.000	NO	57.8	Poultry	0.84					12.1	0.14	0.0125	0.14	0.0125	0.23	0.23	0.23	0.23	2.09		
	N leach			1.000	1.000	15.2	0	100	11	0	0	57.8	Eggs	4					0.0	1.45	0.0200	1.45	0.0200	1.68	1.68	0.50	0.50	2.09		
Year 2	Vol/NH3	Poultry	YES	3.2	100.0	3.8	NON	100.0	WWH	1.000	NO	11.4	43	2.7	0.7	0.0	0.0	0.0	2.1	0.19	0.048	0.19	0.048	1.68	1.68	0.50	0.50	2.09		
	N leach	Deep		1.013	1.013	1.0	0	100	11	0	0	8.7	Poultry	0.67					0.8	0.08	0.0125	0.08	0.0125	1.68	1.68	0.50	0.50	2.09		
Year 3	Vol/NH3	Poultry	YES	0.2	100.0	0.3	NON	100.0	WWH	1.000	NO	0.8	43	0.2	0.0	0.0	0.0	0.0	0.1	0.01	0.03	0.01	0.03	1.68	1.68	0.50	0.50	2.09		
	N leach	Deep		1.013	1.013	0.1	0	100	1	0	0	0.6	Poultry	0.67					0.0	0.01	0.0125	0.01	0.0125	1.68	1.68	0.50	0.50	2.09		
Year 4	Vol/NH3	Poultry	YES	0.0	100.0	0.0	NON	100.0	SBA	1.000	NO	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
	N leach	Deep		1.013	1.013	0.0	0	100	10	0	0	0.0	Eggs	4					0.0	0.00	0.0125	0.00	0.0125	0.00	0.00	0.00	0.00	0.00	0.00	2.09
Year 5	Vol/NH3	Poultry	YES	0.0	100.0	0.0	NON	100.0	WBA	1.000	NO	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
	N leach	Deep		1.013	1.013	0.0	0	100	1000	0.760	0	0.0	Poultry	0.66					0.0	0.00	0.0125	0.00	0.0125	0.00	0.00	0.00	0.00	0.00	0.00	2.09
Year 6	Vol/NH3	Poultry	YES	0.0	100.0	0.0	NON	100.0	WRS	1.000	NO	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
	N leach	Deep		1.013	1.013	0.0	0	100	22	1	0	0.0	Eggs	4					0.0	0.00	0.0200	0.00	0.0200	0.00	0.00	0.00	0.00	0.00	0.00	2.09
Year 7	Vol/NH3	Poultry	YES	0.0	100.0	0.0	NON	100.0	WWH	1.000	NO	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
	N leach	Deep		1.013	1.013	0.0	0	100	11	0	0	0.0	Poultry	0.67					0.0	0.00	0.0125	0.00	0.0125	0.00	0.00	0.00	0.00	0.00	0.00	2.09
Year 8	Vol/NH3	Poultry	YES	0.0	100.0	0.0	NON	100.0	WWH	1.000	NO	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
	N leach	Deep		1.013	1.013	0.0	0	100	1000	0.760	0	0.0	Eggs	4					0.0	0.00	0.0200	0.00	0.0200	0.00	0.00	0.00	0.00	0.00	0.00	2.09
Year 9	Vol/NH3	Poultry	YES	0.0	100.0	0.0	NON	100.0	SBA	1.000	NO	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
	N leach	Deep		1.013	1.013	0.0	0	100	1000	0.760	0	0.0	Poultry	0.65					0.0	0.00	0.0125	0.00	0.0125	0.00	0.00	0.00	0.00	0.00	0.00	2.09
Year 10	Vol/NH3	Poultry	YES	0.0	100.0	0.0	NON	100.0	WBA	1.000	NO	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
	N leach	Deep		1.013	1.013	0.0	0	100	1000	0.760	0	0.0	Eggs	4					0.0	0.00	0.0125	0.00	0.0125	0.00	0.00	0.00	0.00	0.00	0.00	2.09

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	0.69	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.09
Possible additional non IPCC N2O-N emissions	Value	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N residues emissions, ratio of N2O-N to N:	Value	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Increased soil N emissions, kg N2O-N/ha:	Value	1.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	4.58
Natural background emissions, kg N2O-N/ha:	Value	1.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	4.58

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR OIL AND FUEL/ OTHER #9  
 AND CONTINUING WITH MANURE FROM SCRAPING POULTRY TO PRODUCE WINTER WHEAT FOR #71/ bev #8 #72 Food #73 Fuel/ other #9

Year Fertilizer/manure Or- Nnorm Crop Straw Crop Use Feeder: N2O-N emission N2O-N emission  
 # Store Amounts ganic propor # leach use & # Uses #21-61 handling N a- IPCC 1996 IPCC 2006  
 Name 1/0 Store Field 1/0 Name 1/0 benefit 1/0 Name Fed Name #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		11.2		11.2		2.53		4.68		2.20		2.88	
Year	N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3				4.7	4.7	0.05		0.05		0.05		0.05	
1-10	N leach	0.0858	0.0544	TOTAL N AMOUNTS IN KG AND % LEACHED				84.2	84.2	2.10		2.10		0.63		0.63	
TOTAL		0.1169	0.0720	TOTAL N AMOUNTS IN KG AND %				100.0	100.0								

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	100.0	0	100	22	1	0	97.8	43	40.0	9.6	0.0	0.0	0.0	44	30.4	1.97	3.43	1.72	2.18	Note 47
1	Vol/NH3	N	YES	2.2	NON	100.00	WRS	1.000	NO	57.8	Poultry	0.84	0.0	0.0	0.0	0.0	Poultry	0.0	0.02	0.0125	0.02	0.0100	Note 48
	N leach	1.022	1.000	ORG	1.00	1.000		0.591	0.0	57.8	Eggs	4	10.9	Scrap	0.0	0.0	Scrap	0.0	1.45	0.0200	0.43	0.0200	Note 49
Year	N	44	1	30.4	0	100	11	0	0	28.2	43	5.5	1.3	0.0	0.0	0.0	44	4.1	0.48	1.07	0.41	0.61	Note 47
2	Vol/NH3	Poultry	YES	2.1	NON	100.00	WWH	1.000	NO	22.8	Poultry	0.67	0.0	0.0	0.0	0.0	Poultry	0.0	0.02	0.0125	0.02	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.806	0.0	22.8	Eggs	4	3.8	Scrap	0.0	0.0	Scrap	0.0	0.57	0.0200	0.17	0.0200	Note 49
Year	N	44	1	4.1	0	100	11	0	0	3.9	43	0.7	0.2	0.0	0.0	0.0	44	0.6	0.07	0.15	0.06	0.08	Note 47
3	Vol/NH3	Poultry	YES	0.3	NON	100.00	WWH	1.000	NO	3.1	Poultry	0.67	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.806	0.0	3.1	Eggs	4	0.5	Scrap	0.0	0.0	Scrap	0.0	0.08	0.0200	0.02	0.0200	Note 49
Year	N	44	1	0.6	0	100	1	0	0	0.5	43	0.1	0.0	0.0	0.0	0.0	44	0.1	0.01	0.02	0.01	0.01	Note 47
4	Vol/NH3	Poultry	YES	0.0	NON	100.00	SBA	1.000	NO	0.4	Poultry	0.65	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.4	Eggs	4	0.0	0.0	0.0	0.0	Scrap	0.0	0.01	0.0200	0.00	0.0200	Note 49
Year	N	44	1	0.1	0	100	10	0	0	0.1	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00	Note 47
5	Vol/NH3	Poultry	YES	0.0	NON	100.00	WBA	1.000	NO	0.1	Poultry	0.66	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.1	Eggs	4	0.0	0.0	0.0	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year	N	44	1	0.0	0	100	22	1	0	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3	Poultry	YES	0.0	NON	100.00	WRS	1.000	NO	0.0	Poultry	0.84	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year	N	44	1	0.0	0	100	11	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00	Note 47
7	Vol/NH3	Poultry	YES	0.0	NON	100.00	WWH	1.000	NO	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year	N	44	1	0.0	0	100	11	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00	Note 47
8	Vol/NH3	Poultry	YES	0.0	NON	100.00	WWH	1.000	NO	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year	N	44	1	0.0	0	100	1	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00	Note 47
9	Vol/NH3	Poultry	YES	0.0	NON	100.00	SBA	1.000	NO	0.0	Poultry	0.65	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year	N	44	1	0.0	0	100	10	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00	Note 47
10	Vol/NH3	Poultry	YES	0.0	NON	100.00	WBA	1.000	NO	0.0	Poultry	0.66	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	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 0.69 0.09 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.80 1.15

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:

Total IPCC and non IPCC N2O 4.68  
 Total anthropogenic 4.68  
 Total including natural 5.48

Kind of source  
 Current crops  
 Total anthropogenic  
 Total including natural

2.88  
 2.88  
 3.68

Note 51  
 Note 51  
 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL TO PRODUCE WINTER RAPESEED FOR OIL AND SHEEP MILK/MUTTON  
 AND CONTINUING WITH SHEEP DEEP LITTER TO PRODUCE WINTER WHEAT FOR WINTER WHEAT FOR SHEEP MILK/MUTTON

Year Fertilizer/manure Or-ganic Nnorm Crop Cereal Straw Crop Use Fodder: N crop Food/ Fuel/ N2O-N emission  
 # Store Amounts Store 1/0 Field 1/0 Name # 1/0 leach use & # Uses #21-61 #71/ bev other #20-N emission  
 Name 1/0 Store 1/0 Field 1/0 Name # 1/0 leach use & # Uses #21-61 #71/ bev other #20-N emission  
 Name 1/0 Store 1/0 Field 1/0 Name # 1/0 leach use & # Uses #21-61 #71/ bev other #20-N emission

Total N	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										
N leach	0.0865										0.0442										
N leach	0.1259										0.0639										
TOTAL																					

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	100.0	0	100	22	1	0	97.8	51	40.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.70	5.04	1.80	2.56	
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRS	1.000	NO	57.8	Sheep	0.84	0.0	Sheep	53	34.3	1.94	3.46	1.26	0.07	0.0125	0.09	0.09	0.09	Note 45
	N leach			1.000	0.591	0.0	1.000			57.8	Milk/multi	5	10.9	Deep		5.1	0.0100	0.07	0.0125	0.07	0.0125	0.09	0.09	0.09	Note 45	
Year	N	53	1	33.9	0	100	11	0	0	33.9	51	8.1	1.2	0.0	0.0	0.0	0.0	1.45	0.0200	0.43	0.0200	2.25	2.25	0.68	Note 45	
2	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	25.8	Sheep	0.67	0.0	Sheep	53	7.0	0.60	1.25	0.43	0.01	0.0125	0.01	0.0100	0.01	Note 44
	N leach	Deep		1.162	0.0	0.0	1.000			25.8	Milk/multi	5	4.6	Deep		1.0	0.0100	0.64	0.0200	0.19	0.0200	0.01	0.0050	0.19	Note 44	
Year	N	53	1	6.9	0	100	11	0	0	6.9	51	1.7	0.2	0.0	0.0	0.0	0.0	0.12	0.26	0.09	0.12	0.26	0.09	0.13	Note 47	
3	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	5.2	Sheep	0.67	0.0	Sheep	53	1.4	0.00	0.26	0.09	0.00	0.0125	0.00	0.0100	0.00	Note 48
	N leach	Deep		1.162	0.760	0.0	1.000			5.2	Milk/multi	5	0.9	Deep		0.2	0.00	0.13	0.0200	0.04	0.0200	0.04	0.0050	0.04	Note 49	
Year	N	53	1	1.4	0	100	1	0	0	1.4	51	0.3	0.0	0.0	0.0	0.0	0.0	0.02	0.05	0.02	0.02	0.05	0.02	0.03	Note 47	
4	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	SBA	1.000	NO	1.1	Sheep	0.65	0.0	Sheep	53	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100	0.00	0.0100	Note 48
	N leach	Deep		1.162	0.760	0.0	1.000			1.1	Milk/multi	5	0.2	Deep		0.0	0.0050	0.03	0.0200	0.01	0.0050	0.01	0.0050	0.01	Note 49	
Year	N	53	1	0.3	0	100	10	0	0	0.3	51	0.1	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.00	0.01	0.01	0.00	0.01	Note 47	
5	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.2	Sheep	0.66	0.0	Sheep	53	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100	0.00	0.0100	Note 48
	N leach	Deep		1.162	0.760	0.0	1.000			0.2	Milk/multi	5	0.0	Deep		0.0	0.0050	0.01	0.0200	0.00	0.0050	0.00	0.0050	0.00	Note 49	
Year	N	53	1	0.1	0	100	22	1	0	0.1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 47	
6	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WRS	1.000	NO	0.0	Sheep	0.84	0.0	Sheep	53	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100	0.00	0.0100	Note 48
	N leach	Deep		1.162	0.760	0.0	1.000			0.0	Milk/multi	5	0.0	Deep		0.0	0.0050	0.00	0.0200	0.00	0.0050	0.00	0.0050	0.00	Note 49	
Year	N	53	1	0.0	0.0	0	100	11	0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 47	
7	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Sheep	0.67	0.0	Sheep	53	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100	0.00	0.0100	Note 48
	N leach	Deep		1.162	0.760	0.0	1.000			0.0	Milk/multi	5	0.0	Deep		0.0	0.0050	0.00	0.0200	0.00	0.0050	0.00	0.0050	0.00	Note 49	
Year	N	53	1	0.0	0.0	0	100	11	0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 47	
8	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Sheep	0.67	0.0	Sheep	53	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100	0.00	0.0100	Note 48
	N leach	Deep		1.162	0.760	0.0	1.000			0.0	Milk/multi	5	0.0	Deep		0.0	0.0050	0.00	0.0200	0.00	0.0050	0.00	0.0050	0.00	Note 49	
Year	N	53	1	0.0	0.0	0	100	1	0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 47	
9	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	SBA	1.000	NO	0.0	Sheep	0.65	0.0	Sheep	53	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100	0.00	0.0100	Note 48
	N leach	Deep		1.162	0.760	0.0	1.000			0.0	Milk/multi	5	0.0	Deep		0.0	0.0050	0.00	0.0200	0.00	0.0050	0.00	0.0050	0.00	Note 49	
Year	N	53	1	0.0	0.0	0	100	10	0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 47	
10	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.0	Sheep	0.66	0.0	Sheep	53	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100	0.00	0.0100	Note 48
	N leach	Deep		1.162	0.760	0.0	1.000			0.0	Milk/multi	5	0.0	Deep		0.0	0.0050	0.00	0.0200	0.00	0.0050	0.00	0.0050	0.00	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 0.69 0.13 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.85 1.23

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 5.04  
 Total anthropogenic 5.04  
 Total including natural 5.89

Note 51  
 Note 51  
 Note 51  
 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL TO PRODUCE SHEEP MILK/MUTTON  
 AND CONTINUING WITH MANURE FROM GRAZING SHEEP TO PRODUCE WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR SHEEP MILK/MUTTON

Year Fertilizer/manure Store Amounts Field Name 1/0 Or-ganic 1/0 Nnorm propor 1/0 Crop # N crop Food/ #71/ bevs other #72 #73 #74 #75 #76 #77 #78 #79 Fuel/ other #9 Manure Final handling N a- # Name mounts Each Total N2O-N emission IPCC 1996 IPCC 2006 N2O-N emission Each Total

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	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3			TOTAL N AMOUNTS IN KG AND % LEACHED			TOTAL N AMOUNTS IN KG AND %		
1-10	N leach	0.0878	0.0392	6.7	5.0	5.0	88.2	88.2	100.0	100.0	100.0	100.0
TOTAL		0.1241	0.0567	6.7	5.0	5.0	88.2	88.2	100.0	100.0	100.0	100.0

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	100.0	0	100	22	1	0	97.8	51	40.0	5.7	0.0	0.0	0.0	0.0	0.0	2.71	4.96	1.56	2.27	
1	Vol/NH3 N	YES	0.0	2.2	NON	100.00	WRS	1.000	NO	57.8	Sheep	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.125	1.11	1.57
	N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	0.0	57.8	Milk/mult	5	5	10.9	Graz	0.0	0.0	0.0	1.45	0.0200	0.43	0.0000	
Year	N	54	1	34.3	0	100	11	0	0	31.9	51	6.2	0.9	0.0	0.0	0.0	0.0	0.0	0.56	1.23	0.37	0.59	
2	Vol/NH3 Sheep	YES	0.0	2.4	NON	100.00	WWH	1.000	NO	25.7	Sheep	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.125	0.02	0.1000
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	25.7	Milk/mult	5	5	4.3	Graz	0.0	0.0	0.0	0.64	0.0200	0.19	0.0000	
Year	N	54	1	5.3	0	100	11	0	0	4.9	51	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.09	0.19	0.06	0.09	
3	Vol/NH3 Sheep	YES	0.0	0.4	NON	100.00	WWH	1.000	NO	4.0	Sheep	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.1000
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	4.0	Milk/mult	5	5	0.7	Graz	0.0	0.0	0.0	0.10	0.0200	0.03	0.0000	
Year	N	54	1	0.8	0	100	1	0	0	0.8	51	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.03	0.01	0.01	
4	Vol/NH3 Sheep	YES	0.0	0.1	NON	100.00	SBA	1.000	NO	0.6	Sheep	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.1000	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.6	Milk/mult	5	5	0.1	Graz	0.0	0.0	0.0	0.02	0.0200	0.00	0.0000	
Year	N	54	1	0.1	0	100	10	0	0	0.1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5	Vol/NH3 Sheep	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.1	Sheep	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.1000	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.1	Milk/mult	5	5	0.0	Graz	0.0	0.0	0.0	0.00	0.0200	0.00	0.0000	
Year	N	54	1	0.0	0.0	100	22	1	0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6	Vol/NH3 Sheep	YES	0.0	0.0	NON	100.00	WRS	1.000	NO	0.0	Sheep	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.1000	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Milk/mult	5	5	0.0	Graz	0.0	0.0	0.0	0.00	0.0200	0.00	0.0000	
Year	N	54	1	0.0	0.0	100	11	0	0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7	Vol/NH3 Sheep	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Sheep	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.1000	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Milk/mult	5	5	0.0	Graz	0.0	0.0	0.0	0.00	0.0200	0.00	0.0000	
Year	N	54	1	0.0	0.0	100	11	0	0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8	Vol/NH3 Sheep	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	0.0	Sheep	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.1000	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Milk/mult	5	5	0.0	Graz	0.0	0.0	0.0	0.00	0.0200	0.00	0.0000	
Year	N	54	1	0.0	0.0	100	1	0	0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9	Vol/NH3 Sheep	YES	0.0	0.0	NON	100.00	SBA	1.000	NO	0.0	Sheep	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.1000	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Milk/mult	5	5	0.0	Graz	0.0	0.0	0.0	0.00	0.0200	0.00	0.0000	
Year	N	54	1	0.0	0.0	100	10	0	0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10	Vol/NH3 Sheep	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	0.0	Sheep	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.1000	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0	Milk/mult	5	5	0.0	Graz	0.0	0.0	0.0	0.00	0.0200	0.00	0.0000	

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 0.69 0.10 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.82 1.18

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: 0.69  
 Total IPCC and non IPCC N2O 4.96  
 Total anthropogenic 4.96  
 Total including natural 5.78  
 Note 51 2.27 Note 51 2.27 Note 51 3.08 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Crop use & leach use & leach use & leach use & leach  
 AND CONTINUING WITH GOAT DEEP LITTER TO PRODUCE TO PRODUCE TO PRODUCE TO PRODUCE TO PRODUCE TO PRODUCE TO PRODUCE TO PRODUCE TO PRODUCE

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

Year		Fertilizer/manure #	Store	Amounts	Store 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Name 1/0	Crop #	Name 1/0	Use #	Fodder: Uses #21-61	Food #72	N crop Food/ #71/ bev #8	Fuel/ other #9	Manure handling N a- #	Final N a- mounts	N2O-N emission IPCC 1996	Total	N2O-N emission IPCC 2006	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		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3																				
1-10 N leach		TOTAL N AMOUNTS IN KG AND % LEACHED																				
TOTAL		TOTAL N AMOUNTS IN KG AND %																				

Year	N	Vol/NH3	N	YES	100.0	100.0	0	100	22	1	0	97.8	61	40.0	3.8	0.0	0.0	0.0	36.2	1.27	4.63	2.45	1.60
1	Year	N	Vol/NH3	N	YES	100.0	100.0	WRS	1000	NO	57.8	Goat	0.84					5.4	0.08	0.125	1.97	0.23	1.78
	N leach	1.022	1.000	ORG	1.00	1.000	0.591	0.0	0.0	10.9	Deep	6					0.0	0.43	0.200	0.23	0.23	0.08	
	Year	N	Vol/NH3	Goat	YES	35.7	30.4	0	100	11	0	22.8	Milk/meat	5.5	0.5	0.0	0.0	4.9	0.29	0.200	1.45	0.58	0.43
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	17.3	Goat	0.67				63	0.14	0.125	0.06	1.95	0.14	
	Year	N	Vol/NH3	Goat	YES	4.9	4.1	0	100	11	0	3.1	Milk/meat	0.7	0.1	0.0	0.0	0.0	0.7	0.04	0.13	0.04	0.08
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	2.4	Goat	0.67				63	0.13	0.125	0.02	0.23	0.02	
	Year	N	Vol/NH3	Goat	YES	0.7	1.0	NON	100.00	WWH	0.0	2.4	Milk/meat	6				0.0	0.02	0.200	0.06	1.95	0.02
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.4	Deep	6				63	0.14	0.125	0.02	0.23	0.02	
	Year	N	Vol/NH3	Goat	YES	0.7	0.6	0	100	1	0	0.4	Milk/meat	0.1	0.0	0.0	0.0	0.0	0.1	0.01	0.02	0.01	0.01
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.3	Goat	0.65				63	0.14	0.125	0.01	0.02	0.01	
	Year	N	Vol/NH3	Goat	YES	0.1	0.1	NON	100.00	SBA	0.0	0.3	Milk/meat	6				0.0	0.00	0.125	0.01	0.02	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.1	Deep	6				63	0.14	0.125	0.01	0.02	0.00	
	Year	N	Vol/NH3	Goat	YES	0.1	0.1	0	100	10	0	0.1	Milk/meat	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Goat	0.66				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WBA	0.0	0.0	Milk/meat	6				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Deep	6				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	0	100	22	0	0.0	Milk/meat	0.84				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Goat	0.84				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	0	100	11	0	0.0	Milk/meat	6				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Deep	6				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	0	100	11	0	0.0	Milk/meat	0.67				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Goat	0.67				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	0	100	1	0	0.0	Milk/meat	6				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Deep	6				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	0	100	1	0	0.0	Milk/meat	6				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Goat	0.67				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	0	100	1	0	0.0	Milk/meat	6				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Deep	6				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	0	100	10	0	0.0	Milk/meat	6				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Goat	0.66				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	0	100	10	0	0.0	Milk/meat	6				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Goat	0.66				63	0.14	0.125	0.00	0.00	0.00	
	Year	N	Vol/NH3	Goat	YES	0.0	0.0	0	100	1000	0.0	0.0	Milk/meat	6				0.0	0.00	0.125	0.00	0.00	0.00
	N leach	0.600	1.162	ORG	1.00	1.000	0.760	0.0	1.000	NO	0.0	Deep	6				63	0.14	0.125	0.00	0.00	0.00	

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
		0.69	0.11	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.19
Possible additional non IPCC N2O-N emissions													
N residues emissions, ratio of N2O-N to N:													
Increased soil N emissions, kg N2O-N/ha:													
Natural background emissions, kg N2O-N/ha:													
Value													
0.0000													
0.00													
1.00													
Total IPCC and non IPCC N2O													
4.63													
2.42													
2.42													
3.24													
Note 51													
Note 51													
Note 51													
Note 51													







N CHAIN STARTING WITH NO MANURE TO PRODUCE CLOVER GRASS WITHOUT MANURE FOR LOW N CROP  
 AND CONTINUING WITH GREEN MANURE LOW N TO PRODUCE WINTER WHEAT FOR CATTLE DAIRY

Year	Fertilizer/manure #	Store 1/0	Amounts Field 1/0	Or-ganic 1/0	Nnorm propor 1/0	Crop # Name	Cereal benefit 1/0	Straw used 1/0	Crop use & leach	Use # Name	Food Fed	N crop #71/ #72	Food/ bev #8	Fuel/ other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total
RATIO OF N2O-N TO N IN FIRST CROP TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED ACCORDING TO IPCC 1996 IPCC 2006 192.8 4.7 FIRST YEAR 0.0025 0.0025 1237.9 30.0 TOTAL 0.0344 0.0213 2702.2 65.4 TOTAL N AMOUNTS IN KG AND % LEACHED 4132.9 100.0																			

N2O-N in food/beverage/fuel/other 0.7304

Year	N	Vol/NH3	None	YES	0	1	0.0	0.0	NON	100.00	CGRO	2610	1	0	270.2	72	0.0	0.0	4089.5	0.0	0.0	72	4089.5	10.14	10.14	10.14	10.14	0.00	0.0125	0.00	0.0100	Note 47			
1	N	leach	1.000	1.000	1.000	1.296	NO	-3819.3	N crop	0.8	730.2	Green	0.0	0.0	72	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	0.0	0.0	0.0	0.0	0.0100	Note 48
Year	N	leach	72	1	4089.5	4089.5	0	100	11	0	3067.1	21	654.3	154.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	500.3	44.02	114.96	38.19	66.91	Note 49							
2	Vol/NH3	Green	YES	0.0	1022.4	NON	100.00	WWH	2412.8	Cattle	0.67	417.4	Liquid	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	0.0	0.0	0.0	0.0	0.0	0.0100	Note 48	
Year	N	leach	Low	0.533	1.000	467.6	1.000	1.000	1.000	1.000	1.000	1.000	0.787	0.0	343.0	21	128.1	30.1	0.0	0.0	0.0	21	97.9	4.96	11.66	4.46	7.40	Note 47							
3	Vol/NH3	Cattle	YES	10.3	114.3	NON	100.00	WWH	214.9	Cattle	0.67	46.7	Liquid	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	0.0	0.0	0.0	0.0	0.0100	Note 48		
Year	N	leach	Liquid	0.933	1.016	89.5	0	100	1	0	25.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	19.3	0.97	2.28	0.87	1.45	Note 47							
4	Vol/NH3	Cattle	YES	2.0	22.4	NON	100.00	SBA	42.1	Cattle	0.65	9.2	Liquid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	1.5	0.26	0.0125	0.26	0.0100	Note 48							
Year	N	leach	Liquid	0.933	1.016	17.7	0	100	10	0	4.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	3.8	0.19	0.45	0.17	0.28	Note 47							
5	Vol/NH3	Cattle	YES	0.4	4.4	NON	100.00	WBA	8.3	Cattle	0.66	1.7	Liquid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.3	0.05	0.0125	0.05	0.0100	Note 48							
Year	N	leach	Liquid	0.933	1.016	3.5	0	100	2610	0	8.3	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.21	0.0010	0.06	0.0050	Note 49							
6	Vol/NH3	Cattle	YES	0.1	0.9	NON	100.00	ERROR	-34.2	N crop	0.8	7.0	Green	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72	36.8	0.13	0.14	0.12	0.13	Note 47							
Year	N	leach	Liquid	0.933	1.016	36.8	0	100	11	0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72	0.0	0.01	0.0125	0.01	0.0100	Note 48							
7	Vol/NH3	Green	YES	0.0	9.2	NON	100.00	WWH	21.7	Cattle	0.67	3.8	Liquid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	4.5	0.40	1.04	0.34	0.60	Note 47							
Year	N	leach	Low	0.533	1.000	4.1	0	100	11	0	3.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.9	0.04	0.10	0.04	0.07	Note 47							
8	Vol/NH3	Cattle	YES	0.1	1.0	NON	100.00	WWH	1.9	Cattle	0.67	0.4	Liquid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.1	0.01	0.0125	0.01	0.0100	Note 48							
Year	N	leach	Liquid	0.933	1.016	0.8	0	100	1	0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.2	0.01	0.02	0.01	0.01	Note 47							
9	Vol/NH3	Cattle	YES	0.0	0.2	NON	100.00	SBA	0.4	Cattle	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.0125	0.00	0.0100	Note 48							
Year	N	leach	Liquid	0.933	1.016	0.2	0	100	10	0	0.4	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.01	0.0010	0.00	0.0050	Note 49							
10	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	0.1	Cattle	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47							
Year	N	leach	Liquid	0.933	1.016	0.0	0	100	1.000	0.1	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	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 17.07 13.57 2.66 0.69 0.11 15.94 0.12 0.02 0.01 0.00 50.20 2.94

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: 17.07 13.57 2.66 0.69 0.11 15.94 0.12 0.02 0.01 0.00 50.20 Total including natural 137.20 Note 51

Total IPCC and non IPCC N2O 140.80 87.01 Note 51

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE

TO PRODUCE TO PRODUCE

WINTER WHEAT FOR NOTHING FOR

FOOD FOOD

Year	Fertilizer/manure #	Store 1/0	Amounts Store 1/0	Field Name	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Cereal benefit 1/0	Straw used 1/0	Use #	Fodder: Fed	N crop #71-#72	Fuel/ bev #8	Fuel/ other #9	Manure handling #	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Each	Total	Note
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TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED																					
TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3														40.0							
Year 1-10	N NH3																1.39	2.86	1.14	1.60	Notes 43-45
TOTAL N AMOUNTS IN KG AND % LEACHED														2.2							
TOTAL N AMOUNTS IN KG AND %														57.8							
TOTAL N AMOUNTS IN KG AND %														100.0							

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	0	0	100	0	0	0	0	0	0	0	0	0	0	1.39	2.86	1.14	1.60	Notes 47-48
1	Voi/NH3	N YES	0.0	2.2	NON	100.0	WWH	1.000	NO	0.67	8	57.8	Food/ beverage	8	NONE	0	0.02	0.0125	0.02	0.0100	Notes 49-51
Year	N	1	1.022	1.000	ORG	1.00	1.000	0.591	0.0	8	57.8	beverage	8	13.3	0	1.45	0.0000	0.43	0.0000	Notes 47-48	
2	Voi/NH3	None YES	0.0	0.0	NON	100.0	NO	1.000	NO	0.67	8	0.0	Food/ beverage	8	NONE	0	0.00	0.0125	0.00	0.0100	Notes 49-51
Year	N	1	1.000	1.000	ORG	1.00	1.000	0.600	0.0	8	0.0	0.0	beverage	8	0	0.00	0.0000	0.00	0.0000	Notes 47-48	
3	Voi/NH3	None YES	0.0	0.0	NON	100.0	NO	1.000	NO	0.67	8	0.0	Food/ beverage	8	NONE	0	0.00	0.0125	0.00	0.0100	Notes 49-51
Year	N	1	1.000	1.000	ORG	1.00	1.000	0.600	0.0	8	0.0	0.0	beverage	8	0	0.00	0.0000	0.00	0.0000	Notes 47-48	
4	Voi/NH3	None YES	0.0	0.0	NON	100.0	NO	1.000	NO	0.65	8	0.0	Food/ beverage	8	NONE	0	0.00	0.0125	0.00	0.0100	Notes 49-51
Year	N	1	1.000	1.000	ORG	1.00	1.000	0.600	0.0	8	0.0	0.0	beverage	8	0	0.00	0.0000	0.00	0.0000	Notes 47-48	
5	Voi/NH3	None YES	0.0	0.0	NON	100.0	NO	1.000	NO	0.66	8	0.0	Food/ beverage	8	NONE	0	0.00	0.0125	0.00	0.0100	Notes 49-51
Year	N	1	1.000	1.000	ORG	1.00	1.000	0.600	0.0	8	0.0	0.0	beverage	8	0	0.00	0.0000	0.00	0.0000	Notes 47-48	
6	Voi/NH3	None YES	0.0	0.0	NON	100.0	NO	1.000	NO	0.67	8	0.0	Food/ beverage	8	NONE	0	0.00	0.0125	0.00	0.0100	Notes 49-51
Year	N	1	1.000	1.000	ORG	1.00	1.000	0.600	0.0	8	0.0	0.0	beverage	8	0	0.00	0.0000	0.00	0.0000	Notes 47-48	
7	Voi/NH3	None YES	0.0	0.0	NON	100.0	NO	1.000	NO	0.67	8	0.0	Food/ beverage	8	NONE	0	0.00	0.0125	0.00	0.0100	Notes 49-51
Year	N	1	1.000	1.000	ORG	1.00	1.000	0.600	0.0	8	0.0	0.0	beverage	8	0	0.00	0.0000	0.00	0.0000	Notes 47-48	
8	Voi/NH3	None YES	0.0	0.0	NON	100.0	NO	1.000	NO	0.67	8	0.0	Food/ beverage	8	NONE	0	0.00	0.0125	0.00	0.0100	Notes 49-51
Year	N	1	1.000	1.000	ORG	1.00	1.000	0.600	0.0	8	0.0	0.0	beverage	8	0	0.00	0.0000	0.00	0.0000	Notes 47-48	
9	Voi/NH3	None YES	0.0	0.0	NON	100.0	NO	1.000	NO	0.65	8	0.0	Food/ beverage	8	NONE	0	0.00	0.0125	0.00	0.0100	Notes 49-51
Year	N	1	1.000	1.000	ORG	1.00	1.000	0.600	0.0	8	0.0	0.0	beverage	8	0	0.00	0.0000	0.00	0.0000	Notes 47-48	
10	Voi/NH3	None YES	0.0	0.0	NON	100.0	NO	1.000	NO	0.66	8	0.0	Food/ beverage	8	NONE	0	0.00	0.0125	0.00	0.0100	Notes 49-51
Year	N	1	1.000	1.000	ORG	1.00	1.000	0.600	0.0	8	0.0	0.0	beverage	8	0	0.00	0.0000	0.00	0.0000	Notes 47-48	

										Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total										Total/year 1		
										0.64 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00										0.64	1.00	
										0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00										0.00	0.00	1.60
										0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00										0.00	0.00	1.60
										1.00 0.64 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00										1.00	3.49	2.24

Area with crop, ha

Possible additional non IPCC N2O-N emissions  
N residues emissions, ratio of N2O-N to N: 0.0000 Value  
Increased soil N emissions, kg N2O-N/ha: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Kind of source  
Natural background emissions, kg N2O-N/ha: 1.00 0.64 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.64 Total anthropogenic  
Total IPCC and non IPCC N2O 2.86  
Total including natural 3.49  
Note 50

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE

Year	Fertilizer/manure #	Store 1/0	Amounts Store	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Straw used 1/0	Cereal benefit 1/0	Use #	Fodder: Uses #21-61 Fed	N crop #71/72	Food #72	Fuel/other #9	Food/bev #8	N crop #71/72	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Each Total	Total	Note	
Total	N	1	100.0	100.0	0	100	11	0	0	97.8 Fuel/57.8 other	9	0.0	0.0	0.0	0.0	0.0	0	40.0	40.0	1.39	2.86	1.14	1.60	Note 45
Year 1-10	N leach	1.022	1.000	0.0	0.0714	100.00	IPCC 2006 0.0400	1.000	NO	0.591	0.0	0.0	0.0	0.0	0.0	0.0	NONE	2.2	2.2	0.02	0.02	0.02	Note 45	
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																								
TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3																								
TOTAL N AMOUNTS IN KG AND % LEACHED																								
TOTAL N AMOUNTS IN KG AND %																								

N2O-N in food/beverage/fuel/other

Year	Vol/NH3	N	YES	100.0	0	100	11	0	0	97.8 Fuel/57.8 other	9	0.0	0.0	0.0	0.0	0.0	0	0.0	1.39 <th>2.86 <th>1.14 <th>1.60 <th>Note 47</th> </th></th></th>	2.86 <th>1.14 <th>1.60 <th>Note 47</th> </th></th>	1.14 <th>1.60 <th>Note 47</th> </th>	1.60 <th>Note 47</th>	Note 47
Year 1	N leach	1.022	1.000	0.0	0.0714	100.00	IPCC 2006 0.0400	1.000	NO	0.591	0.0	0.0	0.0	0.0	0.0	0.0	NONE	2.2	2.2	0.02	0.02	0.02	Note 48
Year 2	N leach	0	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.67	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.43	0.00	Note 49
Year 3	N leach	0	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.67	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 48
Year 4	N leach	0	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.65	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 49
Year 5	N leach	0	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.66	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 48
Year 6	N leach	0	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.67	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
Year 7	N leach	0	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.67	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 48
Year 8	N leach	0	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.67	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 49
Year 9	N leach	0	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.65	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
Year 10	N leach	0	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.66	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 48
Year	N leach	1.000	1.000	0.0	0.0714	100.00	NO	1.000	NO	0.66	9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 49

Area with crop, ha

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	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	1.00

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:

Total IPCC and non IPCC N2O	2.86
Total anthropogenic	2.86
Total including natural	3.49

Kind of source  
 Current crops  
 Total anthropogenic  
 Total including natural

Note 51	1.60
Note 51	1.60
Note 51	2.24

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

Year	Fertilizer/manure #	Store	Amounts	Field	1/0	Or-ganic	Nnorm	Crop	Straw	Cereal	benefit	1/0	Use #	Fodder:	N crop	Fuel/	Manure	Final	N2O-N emission	Total
	Name	1/0	Store	Field	1/0	1/0	propor	use &	benefit	benefit	1/0	1/0	Uses #21-61	Uses #21-61	#71/	other	handling	N a-	IPCC 1996	Total
							tion, %	leach	1/0	1/0	1/0	1/0	Fed	Fed	#72	#8	# Name	mounts	Each	Total
RATIO OF N2O-N TO N IN FIRST CROP TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED 13507.8 33.8 ACCORDING TO IPCC 1996 IPCC 2006 TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3 11765.7 29.5 FIRST YEAR 0.0120 0.0144 TOTAL N AMOUNTS IN KG AND % LEACHED 14664.9 36.7 TOTAL 0.8575 0.6980 TOTAL N AMOUNTS IN KG AND % 39938.4 100.0																				

N2O-N in food/beverage/fuel/other 0.0742 0.0604 Note 46

Year	Vol/NH3	N	YES	100.0	100.0	0	100	261	0	0	97.8	21	1168.3	329.7	0.0	0.0	0.0	838.7	13.30	14.00	16.15
1	Vol/NH3	N	YES	100.0	100.0	0	100	261	0	0	97.8	21	1168.3	329.7	0.0	0.0	0.0	838.7	13.30	14.00	16.15
	N leach			2.2	NON			CGR	1.000	NO	-1070.5	Cattle	0.8					67.1	0.69	0.0125	0.69
				1.022	ORG				-10.946	0.0	0.0	Dairy	2					125.0	0.00	0.0010	0.00
Year	2	Vol/NH3	Cattle	YES	766.7	0	100	261	1	0	575.0	21	21947.3	6192.7	0.0	0.0	0.0	15754.7	88.18	102.88	144.72
	N leach			17.2	NON			CGR	3.500	NO	-21372.3	Cattle	0.8					4585.2	0.00	0.0010	0.00
				1.016	ORG				-37.169	0.0	0.0	Dairy	2					734.9	0.00	0.0010	0.00
Year	3	Vol/NH3	Cattle	YES	14402.2	0	100	11	0	0	10801.7	21	4032.6	949.4	0.0	0.0	0.0	3083.2	156.23	367.17	140.57
	N leach			324.0	NON			WWH	1.000	NO	6769.0	Cattle	0.67					246.7	41.71	0.0125	41.71
				1.016	ORG				0.627	0.0	6769.0	Dairy	2					0.0	169.23	0.0010	50.77
Year	4	Vol/NH3	Cattle	YES	2818.6	0	100	11	0	0	2113.9	21	789.2	185.8	0.0	0.0	0.0	603.4	30.58	71.86	27.51
	N leach			63.4	NON			WWH	1.000	NO	1324.7	Cattle	0.67					48.3	8.16	0.0125	8.16
				1.016	ORG				0.627	0.0	1324.7	Dairy	2					0.0	33.12	0.0010	9.94
Year	5	Vol/NH3	Cattle	YES	551.6	0	100	11	0	0	413.7	21	154.4	36.4	0.0	0.0	0.0	118.1	5.98	14.06	5.38
	N leach			12.4	NON			WWH	1.000	NO	259.3	Cattle	0.67					9.4	1.60	0.0125	1.60
				1.016	ORG				0.627	0.0	259.3	Dairy	2					0.0	6.48	0.0010	1.94
Year	6	Vol/NH3	Cattle	YES	110.4	0	100	261	0	0	81.0	21	882.8	249.1	0.0	0.0	0.0	633.7	10.96	11.76	13.09
	N leach			2.4	NON			CGR	1.000	NO	-801.9	Cattle	0.8					50.7	0.80	0.0125	0.80
				1.016	ORG				-9.904	0.0	0.0	Dairy	2					103.5	0.00	0.0010	0.00
Year	7	Vol/NH3	Cattle	YES	592.4	0	100	261	1	0	434.5	21	16584.5	4679.5	0.0	0.0	0.0	11905.0	66.63	77.74	109.36
	N leach			13.0	NON			CGR	3.500	NO	-16150.0	Cattle	0.8					952.4	11.10	0.0125	11.10
				1.016	ORG				-37.169	0.0	0.0	Dairy	2					0.0	0.00	0.0010	0.00
Year	8	Vol/NH3	Cattle	YES	1127.8	0	100	11	0	0	816.2	21	3047.2	717.4	0.0	0.0	0.0	2329.8	118.06	277.45	106.22
	N leach			244.8	NON			WWH	1.000	NO	5115.0	Cattle	0.67					186.4	31.52	0.0125	31.52
				1.016	ORG				0.627	0.0	5115.0	Dairy	2					0.0	127.88	0.0010	38.36
Year	9	Vol/NH3	Cattle	YES	2177.7	0	100	11	0	0	1597.4	21	596.4	140.4	0.0	0.0	0.0	456.0	23.10	54.30	20.79
	N leach			47.9	NON			WWH	1.000	NO	1001.0	Cattle	0.67					36.5	6.17	0.0125	6.17
				1.016	ORG				0.627	0.0	1001.0	Dairy	2					0.0	25.03	0.0010	7.51
Year	10	Vol/NH3	Cattle	YES	426.2	0	100	11	0	0	312.6	21	116.7	27.5	0.0	0.0	0.0	89.2	4.52	10.63	4.07
	N leach			9.4	NON			WWH	1.000	NO	195.9	Cattle	0.67					7.1	1.21	0.0125	1.21
				1.016	ORG				0.627	0.0	195.9	Dairy	2					0.0	4.90	0.0010	1.47

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 4.88 119.49 83.64 16.37 3.20 4.81 90.29 63.20 12.37 2.42 400.67 82.14

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: 4.88 119.49 83.64 16.37 3.20 4.81 90.29 63.20 12.37 2.42 400.67 Total including natural 1402.51  
 Total IPCC and non IPCC N2O 1001.83  
 815.51 Note 51  
 815.51 Note 51  
 1216.18 Note 51



SUMMARY CATTLE DAIRY

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		13.92 13.85	1.56
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	13.74 13.67	0.14
1-10 N leach	0.0719	0.0431	TOTAL N AMOUNTS IN KG AND % LEACHED	72.86 72.49	0.55
TOTAL	0.0923	0.0560	TOTAL N AMOUNTS IN KG AND %	100.52 100.00	
N2O-N/N in food/beverage/fuel/other					0.2652
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.88 1.27			Note 50
		0.88			Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		13.65 13.58	1.54
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	14.27 14.19	0.14
1-10 N leach	0.0780	0.0429	TOTAL N AMOUNTS IN KG AND % LEACHED	72.60 72.22	0.54
TOTAL	0.0995	0.0557	TOTAL N AMOUNTS IN KG AND %	100.52 100.00	
N2O-N/N in food/beverage/fuel/other					0.2914
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.86 1.24			Note 50
		0.86			Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER CATTLE DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		12.82 12.25	1.47
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	20.39 19.47	0.20
1-10 N leach	0.0843	0.0430	TOTAL N AMOUNTS IN KG AND % LEACHED	71.49 68.28	0.54
TOTAL	0.1050	0.0553	TOTAL N AMOUNTS IN KG AND %	104.71 100.00	
N2O-N/N in food/beverage/fuel/other					0.3274
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.78 1.13			Note 50
		0.78			Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING CATTLE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		13.19 13.19	2.12
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	4.49 4.49	0.04
1-10 N leach	0.0847	0.0533	TOTAL N AMOUNTS IN KG AND % LEACHED	82.32 82.32	0.62
TOTAL	0.1137	0.0697	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
N2O-N/N in food/beverage/fuel/other					0.3447
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.79 1.14			Note 50
		0.79			Note 51



SUMMARY CATTLE BEEF

N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER LIQUID CATTLE MANURE		TO PRODUCE TO PRODUCE		WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR		CATTLE BEEF CATTLE BEEF		Note 43 Note 43	
Total N	RATIO OF N2O-N TO N IN FIRST CROP	IPCC 1996	0.0719	0.0936	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	12.38	12.31	1.75	3.74	1.58	2.28
Year N NH3	ACCORDING TO	IPCC 1996	0.0432	0.0570	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	14.42	14.34	0.14	0.14	0.14	Note 45
1-10 N leach	FIRST YEAR	0.0784	0.0431	0.0567	TOTAL N AMOUNTS IN KG AND % LEACHED	73.45	73.35	1.84	0.55	0.55	Note 45
	TOTAL	0.1011	0.0567		TOTAL N AMOUNTS IN KG AND %	100.55	100.00				Note 45
N2O-N/N in food/beverage/fuel/other								0.3022		0.1841	
Area with crop, ha						Total/year 1					
Natural background emissions, kg N2O-N/ha:						0.89		1.29		Note 50	
						0.89		4.64		3.17	
Note 51											
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER SEPARATED CATTLE MANURE		TO PRODUCE TO PRODUCE		WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR		CATTLE BEEF CATTLE BEEF		Note 43 Note 43	
Total N	RATIO OF N2O-N TO N IN FIRST CROP	IPCC 1996	0.0784	0.1011	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	12.13	12.07	2.06	4.05	1.57	2.27
Year N NH3	ACCORDING TO	IPCC 1996	0.0431	0.0567	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	14.96	14.88	0.15	0.15	0.15	Note 45
1-10 N leach	FIRST YEAR	0.0784	0.0431	0.0567	TOTAL N AMOUNTS IN KG AND % LEACHED	73.45	73.05	1.84	0.55	0.55	Note 45
	TOTAL	0.1011	0.0567		TOTAL N AMOUNTS IN KG AND %	100.55	100.00				Note 45
N2O-N/N in food/beverage/fuel/other								0.3334		0.1868	
Area with crop, ha						Total/year 1					
Natural background emissions, kg N2O-N/ha:						0.87		1.25		Note 50	
						0.78		4.91		3.13	
Note 51											
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER CATTLE DEEP LITTER		TO PRODUCE TO PRODUCE		WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR		CATTLE BEEF CATTLE BEEF		Note 43 Note 43	
Total N	RATIO OF N2O-N TO N IN FIRST CROP	IPCC 1996	0.0850	0.1068	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	11.36	10.82	2.25	4.27	1.49	2.25
Year N NH3	ACCORDING TO	IPCC 1996	0.0432	0.0562	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	21.37	20.36	0.21	0.21	0.21	Note 45
1-10 N leach	FIRST YEAR	0.0850	0.0432	0.0562	TOTAL N AMOUNTS IN KG AND % LEACHED	72.23	68.82	1.81	0.54	0.54	Note 45
	TOTAL	0.1068	0.0562		TOTAL N AMOUNTS IN KG AND %	104.96	100.00				Note 45
N2O-N/N in food/beverage/fuel/other								0.3762		0.1979	
Area with crop, ha						Total/year 1					
Natural background emissions, kg N2O-N/ha:						0.79		1.14		Note 50	
						0.79		5.06		3.04	
Note 51											
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER MANURE FROM GRAZING CATTLE		TO PRODUCE TO PRODUCE		WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR		CATTLE BEEF CATTLE BEEF		Note 43 Note 43	
Total N	RATIO OF N2O-N TO N IN FIRST CROP	IPCC 1996	0.0854	0.1161	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	11.70	11.70	2.50	4.64	2.18	2.85
Year N NH3	ACCORDING TO	IPCC 1996	0.0540	0.0713	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	4.62	4.62	0.05	0.05	0.05	Note 45
1-10 N leach	FIRST YEAR	0.0854	0.0540	0.0713	TOTAL N AMOUNTS IN KG AND % LEACHED	83.68	83.68	2.09	0.63	0.63	Note 45
	TOTAL	0.1161	0.0713		TOTAL N AMOUNTS IN KG AND %	100.00	100.00				Note 45
N2O-N/N in food/beverage/fuel/other								0.3968		0.2439	
Area with crop, ha						Total/year 1					
Natural background emissions, kg N2O-N/ha:						0.80		1.15		Note 50	
						0.80		5.44		3.65	
Note 51											

SUMMARY PIG PORK

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID PIG MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		19.58 19.58	1.43
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	12.35 12.35	0.12
1-10 N leach	0.0720	0.0426	TOTAL N AMOUNTS IN KG AND % LEACHED	68.07 68.07	0.51
TOTAL	0.0863	0.0516	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other				0.1762	0.1055 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.84 1.21			Note 50
		0.84		4.29	2.90 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED PIG MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		18.58 18.48	1.37
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	15.77 15.69	0.16
1-10 N leach	0.0767	0.0427	TOTAL N AMOUNTS IN KG AND % LEACHED	66.16 65.83	0.50
TOTAL	0.0894	0.0506	TOTAL N AMOUNTS IN KG AND %	100.51 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other				0.1925	0.1090 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.79 1.13			Note 50
		0.79		4.36	2.81 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER PIG DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		18.11 17.69	1.32
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	20.23 19.75	0.20
1-10 N leach	0.0808	0.0429	TOTAL N AMOUNTS IN KG AND % LEACHED	64.07 62.56	0.48
TOTAL	0.0919	0.0501	TOTAL N AMOUNTS IN KG AND %	102.40 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other				0.2030	0.1107 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.76 1.10			Note 50
		0.76		4.44	2.77 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM ROOTING PIGS	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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 19.70	1.96
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	4.12 4.12	0.04
1-10 N leach	0.0823	0.0509	TOTAL N AMOUNTS IN KG AND % LEACHED	76.18 76.18	0.57
TOTAL	0.1054	0.0643	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other				0.2140	0.1307 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.81 1.17			Note 50
		0.81		5.03	3.39 Note 51

SUMMARY POULTRY MEAT

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		22.98 22.98	1.38
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	9.67 9.67	0.10
1-10 N leach	0.0716	0.0419	TOTAL N AMOUNTS IN KG AND % LEACHED	67.34 67.34	0.51
TOTAL	0.0842	0.0497	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other				0.1465	0.0864 Note 46
Area with crop, ha		Total/year 1		1.15	Note 50
Natural background emissions, kg N2O-N/ha:		0.80		4.17	2.79 Note 51
		0.80			
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		22.20 22.20	1.31
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	13.33 13.33	0.13
1-10 N leach	0.0757	0.0423	TOTAL N AMOUNTS IN KG AND % LEACHED	64.46 64.46	0.48
TOTAL	0.0854	0.0483	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other				0.1539	0.0869 Note 46
Area with crop, ha		Total/year 1		1.11	Note 50
Natural background emissions, kg N2O-N/ha:		0.77		4.18	2.70 Note 51
		0.77			
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER POULTRY DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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		21.34 21.31	1.27
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	15.15 15.13	0.15
1-10 N leach	0.0785	0.0427	TOTAL N AMOUNTS IN KG AND % LEACHED	63.66 63.56	0.48
TOTAL	0.0864	0.0474	TOTAL N AMOUNTS IN KG AND %	100.16 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other				0.1620	0.0888 Note 46
Area with crop, ha		Total/year 1		1.06	Note 50
Natural background emissions, kg N2O-N/ha:		0.73		4.19	2.63 Note 51
		0.73			
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM SCRAPING POULTRY	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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 22.37	1.78
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	3.70 3.70	0.04
1-10 N leach	0.0804	0.0490	TOTAL N AMOUNTS IN KG AND % LEACHED	73.92 73.92	0.55
TOTAL	0.0989	0.0592	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other				0.1769	0.1059 Note 46
Area with crop, ha		Total/year 1		1.09	Note 50
Natural background emissions, kg N2O-N/ha:		0.76		4.72	3.13 Note 51
		0.76			

SUMMARY POULTRY EGGS

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL	IPCC 1996 0.0721 0.0931	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 %	11.67 11.67 14.64 14.64 73.69 73.69 100.00 100.00	1.56 0.15 0.55
N2O-N/N in food/beverage/fuel/other				0.3192	0.1939 Note 46
Area with crop, ha			Total/year 1		
Natural background emissions, kg N2O-N/ha:			0.87 1.25		Note 50 Note 51
			0.87	4.60	3.13 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL	IPCC 1996 0.0785 0.0947	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 %	11.03 11.03 20.32 20.32 68.65 68.65 100.00 100.00	1.44 0.20 0.51
N2O-N/N in food/beverage/fuel/other				0.3435	0.1956 Note 46
Area with crop, ha			Total/year 1		
Natural background emissions, kg N2O-N/ha:			0.81 1.17		Note 50 Note 51
			0.81	4.60	2.97 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER POULTRY DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL	IPCC 1996 0.0828 0.0957	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 %	10.35 10.32 22.79 22.73 67.12 66.95 100.00 100.00	1.36 0.23 0.50
N2O-N/N in food/beverage/fuel/other				0.3701	0.2016 Note 46
Area with crop, ha			Total/year 1		
Natural background emissions, kg N2O-N/ha:			0.75 1.09		Note 50 Note 51
			0.75	4.58	2.84 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM SCRAPING POULTRY	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL	IPCC 1996 0.0858 0.1169	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 %	11.17 11.17 4.66 4.66 84.17 84.17 100.00 100.00	2.20 0.05 0.63
N2O-N/N in food/beverage/fuel/other				0.4189	0.2578 Note 46
Area with crop, ha			Total/year 1		
Natural background emissions, kg N2O-N/ha:			0.80 1.15		Note 50 Note 51
			0.80	5.48	3.68 Note 51

SUMMARY SHEEP AND GOATS

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SHEEP DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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	0.0865	0.0442			
TOTAL	0.1259	0.0639			

N2O-N/N in food/beverage/fuel/other		0.7062			0.3588 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.85			Note 50
		1.23			Note 51
		0.85		5.89	3.41 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING SHEEP	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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	0.0878	0.0392			
TOTAL	0.1241	0.0567			

N2O-N/N in food/beverage/fuel/other		0.7388			0.3377 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.82			Note 50
		1.18			Note 51
		0.82		5.78	3.08 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER GOAT DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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	0.0874	0.0444			
TOTAL	0.1157	0.0605			

N2O-N/N in food/beverage/fuel/other		1.0401			0.5440 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.83			Note 50
		1.19			Note 51
		0.83		5.45	3.24 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING GOATS	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL 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	0.0887	0.0483			
TOTAL	0.1275	0.0686			

N2O-N/N in food/beverage/fuel/other		1.1120			0.5985 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.82			Note 50
		1.19			Note 51
		0.82		5.92	3.57 Note 51

SUMMARY N FIXATION FOR N CROP

N CHAIN STARTING WITH AND CONTINUING WITH	NO MANURE GREEN MANURE HIGH N	TO PRODUCE TO PRODUCE	CLOVER GRASS WITHOUT MANURE FOR WINTER WHEAT FOR	HIGH N CROP CATTLE DAIRY	Note 43 Note 43
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL	IPCC 1996 0.0025 0.0345	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 %	340 8.15 1402 33.66 2424 58.19 4166 100.00	61 141 14 18

N2O-N/N in food/beverage/fuel/other	0.4150	0.2735	Note 46
Area with crop, ha	Total/year 1		
Natural background emissions, kg N2O-N/ha:	63.28	3.71	Note 50
	63.28	204	156 Note 51

N amount in reference crop year 2 after use of N crop as green manure, kg	1145.06		Note 47
N amount in reference crop year 1 after synthetic N fertilizer, kg	40.00		Note 47
Relative value of green manure, %	2862.66		

N CHAIN STARTING WITH AND CONTINUING WITH	NO MANURE GREEN MANURE LOW N	TO PRODUCE TO PRODUCE	CLOVER GRASS WITHOUT MANURE FOR WINTER WHEAT FOR	LOW N CROP CATTLE DAIRY	Note 43 Note 43
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL	IPCC 1996 0.0025 0.0344	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 %	193 4.66 1238 29.95 2702 65.38 4133 100.00	54 141 12 20

N2O-N/N in food/beverage/fuel/other	0.7304	0.4513	Note 46
Area with crop, ha	Total/year 1		
Natural background emissions, kg N2O-N/ha:	50.20	2.94	Note 50
	50.20	191	137 Note 51

N amount in reference crop year 2 after use of N crop as green manure, kg	654.32		Note 47
N amount in reference crop year 1 after synthetic N fertilizer, kg	40.00		Note 47
Relative value of green manure, %	1635.81		

SUMMARY FOOD, FUEL, AND N+N FIXATION FOR FODDER AND FOOD

N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE		WINTER WHEAT FOR 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					
Year N NH3	IPCC 1996	IPCC 2006		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3					
1-10 N leach	0.0714	0.0400		TOTAL N AMOUNTS IN KG AND % LEACHED					
TOTAL	0.0714	0.0400		TOTAL N AMOUNTS IN KG AND %					
N2O-N/N in food/beverage/fuel/other				Total/year 1					
Area with crop, ha		0.64		1.00					
Natural background emissions, kg N2O-N/ha:		0.64		0.64				0.0400 Note 46	
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE		WINTER WHEAT FOR 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					
Year N NH3	IPCC 1996	IPCC 2006		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3					
1-10 N leach	0.0714	0.0400		TOTAL N AMOUNTS IN KG AND % LEACHED					
TOTAL	0.0714	0.0400		TOTAL N AMOUNTS IN KG AND %					
N2O-N/N in food/beverage/fuel/other				Total/year 1					
Area with crop, ha		0.64		1.00					
Natural background emissions, kg N2O-N/ha:		0.64		0.64				0.0400 Note 46	
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER LIQUID CATTLE MANURE		CLOVER GRASS FOR CLOVER GRASS 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					
Year N NH3	IPCC 1996	IPCC 2006		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3					
1-10 N leach	0.0120	0.0144		TOTAL N AMOUNTS IN KG AND % LEACHED					
TOTAL	0.8575	0.6980		TOTAL N AMOUNTS IN KG AND %					
N2O-N/N in food/beverage/fuel/other				Total/year 1					
Area with crop, ha		400.67		82.14					
Natural background emissions, kg N2O-N/ha:		400.67		400.67				0.0604 Note 46	
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER LIQUID CATTLE MANURE		CLOVER GRASS FOR CLOVER GRASS 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					
Year N NH3	IPCC 1996	IPCC 2006		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3					
1-10 N leach	0.0120	0.0144		TOTAL N AMOUNTS IN KG AND % LEACHED					
TOTAL	0.8575	0.6980		TOTAL N AMOUNTS IN KG AND %					
N2O-N/N in food/beverage/fuel/other				Total/year 1					
Area with crop, ha		400.67		82.14					
Natural background emissions, kg N2O-N/ha:		400.67		400.67				0.0604 Note 46	
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER LIQUID CATTLE MANURE		CLOVER GRASS FOR CLOVER GRASS 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					
Year N NH3	IPCC 1996	IPCC 2006		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3					
1-10 N leach	0.0120	0.0144		TOTAL N AMOUNTS IN KG AND % LEACHED					
TOTAL	0.4098	0.3361		TOTAL N AMOUNTS IN KG AND %					
N2O-N/N in food/beverage/fuel/other				Total/year 1					
Area with crop, ha		208.01		42.64					
Natural background emissions, kg N2O-N/ha:		208.01		208.01				0.0372 Note 46	

SUMMARY CATTLE	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996		IPCC 2006		N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
		MIN	MAX	MIN	MAX		
	FIRST YEAR	0.0719	0.0854	0.0429	0.0540	3.69	4.64
	TOTAL	0.0923	0.1161	0.0553	0.0713	2.21	2.85

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

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX
	0.78	0.89	0.78	1.15

SUMMARY PIGS	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996		IPCC 2006		N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
		MIN	MAX	MIN	MAX		
	FIRST YEAR	0.0720	0.0823	0.0426	0.0509	3.45	4.22
	TOTAL	0.0863	0.1054	0.0501	0.0643	2	2.57

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

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX
	0.76	0.84	0.76	0.84

SUMMARY POULTRY	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996		IPCC 2006		N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
		MIN	MAX	MIN	MAX		
	FIRST YEAR	0.0716	0.0858	0.0419	0.0544	3.37	4.68
	TOTAL	0.0842	0.1169	0.0474	0.0720	1.9	2.88

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

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX
	0.73	0.87	0.73	0.87

SUMMARY SHEEP AND GOATS	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996		IPCC 2006		N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
		MIN	MAX	MIN	MAX		
	FIRST YEAR	0.0865	0.0887	0.0392	0.0483	4.63	5.1
	TOTAL	0.1157	0.1275	0.0567	0.0686	2.27	2.74

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

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX
	0.82	0.85	0.82	0.85

SUMMARY FODDER	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996		IPCC 2006		N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
		MIN	MAX	MIN	MAX		
	FIRST YEAR	0.0716	0.0887	0.0392	0.0544	3.37	5.10
	TOTAL	0.0842	0.1275	0.0474	0.0720	1.90	2.88

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

Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX
	0.73	0.89	0.73	1.15