

Crop, fodder/food	WRS	WWH	WWB	WBA	WYE	TRI	SBA	SWH	OAT	MCC	MCW	GRO	GCR	GHP	GRP	CGR0	CONC
Crop #	22	11	13	10	14	16	1	2	3	5	216	263	260	2520	252	2610	9999
<NUE/e>	0.64	0.64	0.54	0.60	0.59	0.53	0.60	0.58	0.73	0.62	1.05	0.83	1.33	11.68	0.44	0.81	1.00
N digestibility, crop/crop part with N	0.84	0.67	0.68	0.66	0.62	0.65	0.65	0.67	0.64	0.62	0.63	0.78	0.80	0.80	0.66	0.78	0.80
<NUE/e> addition before cereal	0.07	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	0.00
<NUE/e> addition from straw	0.15	0.11	0.09	0.12	0.17	0.13	0.12	0.07	0.13	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	118	118	93	140	160	309	199	21	132	132	-87

Crop, PPO/biodiesel/bioethanol	WRB	WWHB	WWBB	WBB	RYB	TRB	SBB	SWB	OAB	MCB
Crop #	229	119	139	109	149	169	19	29	39	59
<NUE/e>	0.64	0.64	0.54	0.60	0.59	0.53	0.60	0.58	0.73	0.62
N digestibility, crop part with N	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	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<NUE/e> addition from straw	0.15	0.11	0.09	0.12	0.17	0.13	0.12	0.07	0.13	0.00
Recalculated N norm, kg N/ha	144	157	198	147	117	141	118	118	93	140

<NUE/e> amounts from crop res	0.03	0.11	0.09	0.08	0.15	0.12	0.09	0.12	0.11	0.21	0.04	0.04	0.13	1.28	0.15	0.15	-0.30
<NUE/e> amounts from N fixation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	11.96	0.00	0.00	-4.05

Manure/ferti- lizer kind, #	None	0	1	2	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	6	6	71	72	72	None	None
Manure handling	None	None	Liquid	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Green	high N	low N	Green	None
#	0	1	21	22	23	24	31	32	33	34	41	42	43	44	53	54	63	64	71	72	72	71	72	72	0	0
Manure+straw, relative	1.000	1.016	1.016	1.159	1.000	1.000	1.024	1.127	1.000	1.000	1.000	1.013	1.000	1.162	1.000	1.162	1.000	1.000	1.000	1.000	1.000	1.000	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	0.000	0.150	0.000	0.150	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0
Vol/NH3 Store	0.000	0.000	0.000	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	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0
% use of field store	0.000	0.022	0.250	0.250	0.250	0.070	0.250	0.250	0.070	0.250	0.250	0.250	0.250	0.070	0.250	0.070	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0
N efficiency	0.000	1.000	0.700	0.650	0.450	0.750	0.650	0.650	0.650	0.650	0.650	0.650	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	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	0.600	0.484	0.600	0.484	0.600	0.484	0.600	0.484	0.600	0.484	0.933	0.533	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
#	0	21	22	32	42	43	51	61	71	72	8	9
Fodder to food	N eff	0.264	0.227	0.418	0.510	0.241	0.142	0.096	0.096	0.096	0.096	0.096
Fodder to food	N eff	0.264	0.146	0.269	0.328	0.272	0.142	0.096	0.096	0.096	0.096	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/ house/store	N Animal	N Animal
Slurry and liquid manure	0	0
Solid manure and deep litter	0	0
Application/field	0.0125	0.0100
Grazing cattle, rooting pigs, craping poultry	0	0
Grazing, others	0	0
Volatilisation/NH3	0.0100	0.0100
Crop residues	0	0
N fixing crops	0	0
Leaching	0.0250	0.0075

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND FUEL/ CATTLE DAIRY
 AND CONTINUING WITH LIQUID CATTLE MANURE TO PRODUCE WINTER WHEAT FOR CATTLE DAIRY

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

Total N		RATIO OF N2O-N TO N IN FIRST CROP TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED 48.5 48.0												1.94	2.98	2.40	2.98	1.94	2.40
Year	N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3 25.4 25.1												0.25	0.25	0.25	0.25
1-10	N leach	0.0195	0.0163	TOTAL N AMOUNTS IN KG AND % LEACHED 27.2 26.9												0.68	0.68	0.68	0.68
	TOTAL	0.0347	0.0280	TOTAL N AMOUNTS IN KG AND % 101.1 100.0															

N2O-N in food/beverage/fuel/other

Year	N	1	0	100.0	100.0	0	100	229	1	1	97.8	21	71.3	21.0	0.0	0.0	14.5	21	50.2	1.31	1.67	1.25	1.40	Note 47
1	Vol/NH3	N	NO	0.0	2.2	NON	100.00	WRB	1.113	YES	12.0	Cattle	0.84	0.84	0.0	0.0	0.0	0.0	4.0	0.06	0.0125	0.06	0.0100	Note 48
	N leach			1.000	1.022	ORG	1.00	1.113	0.271	14.5	12.0	Dairy	2	2	0.0	0.0	3.0	Liquid	0.0	0.30	0.0010	0.09	0.0050	Note 49
Year	N	21	0	47.0	47.0	0	100	11	0	1	35.2	21	21.1	5.0	0.0	0.0	3.9	21	16.2	0.50	0.89	0.47	0.68	Note 47
2	Vol/NH3	Cattle	NO	0.0	11.7	NON	100.00	WWH	1.000	YES	10.2	Cattle	0.67	0.67	0.0	0.0	0.0	0.0	1.3	0.13	0.0125	0.13	0.0100	Note 48
	N leach			1.016	1.016	ORG	1.00	1.000	0.400	3.9	10.2	Dairy	2	2	0.0	0.0	3.8	Liquid	0.0	0.26	0.0010	0.08	0.0050	Note 49
Year	N	21	0	15.1	15.1	0	100	11	0	1	11.3	21	6.8	1.6	0.0	0.0	1.3	21	5.2	0.16	0.29	0.15	0.22	Note 47
3	Vol/NH3	Cattle	NO	0.0	3.8	NON	100.00	WWH	1.000	YES	3.3	Cattle	0.67	0.67	0.0	0.0	0.0	0.0	0.4	0.04	0.0125	0.04	0.0100	Note 48
	N leach			1.016	1.016	ORG	1.00	1.000	0.400	1.3	3.3	Dairy	2	2	0.0	0.0	1.2	Liquid	0.0	0.08	0.0010	0.02	0.0050	Note 49
Year	N	21	0	4.9	4.9	0	100	1	0	1	3.6	21	2.0	0.5	0.0	0.0	0.4	21	1.6	0.05	0.09	0.05	0.07	Note 47
4	Vol/NH3	Cattle	NO	0.0	1.2	NON	100.00	SBA	1.000	YES	1.2	Cattle	0.65	0.65	0.0	0.0	0.0	0.0	0.1	0.01	0.0125	0.01	0.0100	Note 48
	N leach			1.016	1.016	ORG	1.00	1.000	0.443	0.4	1.2	Dairy	2	2	0.0	0.0	0.3	Liquid	0.0	0.03	0.0010	0.01	0.0050	Note 49
Year	N	21	0	1.5	1.5	0	100	10	0	1	1.1	21	0.6	0.1	0.0	0.0	0.1	21	0.5	0.02	0.03	0.01	0.02	Note 47
5	Vol/NH3	Cattle	NO	0.0	0.4	NON	100.00	WBA	1.000	YES	0.4	Cattle	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach			1.016	1.016	ORG	1.00	1.000	0.444	0.1	0.4	Dairy	2	2	0.0	0.0	0.1	Liquid	0.0	0.01	0.0010	0.00	0.0050	Note 49
Year	N	21	0	0.4	0.4	0	100	229	1	1	0.3	21	0.2	0.1	0.0	0.0	0.0	21	0.2	0.00	0.01	0.00	0.01	Note 47
6	Vol/NH3	Cattle	NO	0.0	0.1	NON	100.00	WRB	1.113	YES	0.1	Cattle	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach			1.016	1.016	ORG	1.00	1.113	0.335	0.0	0.1	Dairy	2	2	0.0	0.0	0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	0	0.1	0.1	0	100	11	0	1	0.1	21	0.1	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
7	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach			1.016	1.016	ORG	1.00	1.000	0.400	0.0	0.0	Dairy	2	2	0.0	0.0	0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	0	0.0	0.0	0	100	11	0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
8	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach			1.016	1.016	ORG	1.00	1.000	0.400	0.0	0.0	Dairy	2	2	0.0	0.0	0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	0	0.0	0.0	0	100	1	0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
9	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Cattle	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach			1.016	1.016	ORG	1.00	1.000	0.443	0.0	0.0	Dairy	2	2	0.0	0.0	0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	0	0.0	0.0	0	100	10	0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
10	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach			1.016	1.016	ORG	1.00	1.000	0.444	0.0	0.0	Dairy	2	2	0.0	0.0	0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	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 0.77 0.27 0.09 0.04 0.01 0.00 0.00 0.00 0.00 0.00 1.18 1.53 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 2.98
 Total anthropogenic 2.98
 Total including natural 4.16
 Note 51
 2.40 Note 51
 2.40 Note 51
 3.58 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE
 AND CONTINUING WITH SEPARATED CATTLE MANURE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR CATTLE DAIRY CATTLE DAIRY

Year	Fertilizer/manure #	Store Name	Amounts 1/0	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 #71-61	Fuel/other #9	Food/bev #8	N crop #72	Manure handling # Name	Final N a-	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	
Total N	1	0	100.0	100.0	2.2 NON	100.00 WRB	229	1	1	97.8	21	71.3	21.0	0.0	0.0	14.5	22	50.2	2.71	3.68	1.95	2.41
Year N NH3	NO	0.0	0.0	0.0	1.113 YES	12.0 Cattle	0.84	12.0	14.5	0.0	Cattle	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.05	0.0125	1.25	
1-10 N leach	1.022	1.000	1.000	1.113	0.271	14.5	12.0	14.5	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0105	0.09	
Year N	22	0	48.5	48.5	0	100	11	0	1	36.4	21	20.3	4.8	0.0	0.0	4.0	22	15.5	0.66	1.09	0.49	
2	Cattle	NO	0.0	0.0	1.000 YES	12.1 Cattle	0.67	12.1	0.67	12.1	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.8	0.13	0.0125	0.13	
Year N	22	0	15.0	15.0	0	100	11	0	1	11.2	21	6.2	1.5	0.0	0.0	1.2	22	4.8	0.30	0.0105	0.09	
3	Sep	NO	0.0	0.0	3.7 NON	100.00 WWH	1.000	0.443	4.0	3.7	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.2	0.04	0.0125	0.04	
Year N	22	0	4.6	4.6	0	100	1	0	1	3.5	21	1.8	0.4	0.0	0.0	0.4	22	1.4	0.09	0.0105	0.03	
4	Cattle	NO	0.0	0.0	1.2 NON	100.00 SBA	1.000	0.483	1.2	1.3	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.1	0.01	0.0125	0.01	
Year N	22	0	1.3	1.3	0	100	10	0	1	1.0	21	0.5	0.1	0.0	0.0	0.1	22	0.4	0.03	0.03	0.01	
5	Cattle	NO	0.0	0.0	0.3 NON	100.00 WBA	1.000	0.483	0.1	0.4	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	
Year N	22	0	0.4	0.4	0.4	0	229	1	1	0.3	21	0.2	0.1	0.0	0.0	0.0	22	0.1	0.00	0.01	0.00	
6	Cattle	NO	0.0	0.0	0.1 NON	100.00 WRB	1.113	0.382	0.0	0.1	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	
Year N	22	0	0.1	0.1	0.1	0	11	0	1	0.1	21	0.1	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
7	Cattle	NO	0.0	0.0	0.0 NON	100.00 WWH	1.000	0.443	0.0	0.0	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	
Year N	22	0	0.0	0.0	0.0	0	11	0	1	0.1	21	0.0	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
8	Cattle	NO	0.0	0.0	0.0 NON	100.00 WWH	1.000	0.443	0.0	0.0	0.67	0.67	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
Year N	22	0	0.0	0.0	0.0	0	1000	0.443	0.0	0.0	0.67	0.67	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
9	Cattle	NO	0.0	0.0	0.0 NON	100.00 SBA	1.000	0.483	0.0	0.0	0.65	0.65	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
Year N	22	0	0.0	0.0	0.0	0	1000	0.483	0.0	0.0	0.65	0.65	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
10	Cattle	NO	0.0	0.0	0.0 NON	100.00 WBA	1.000	0.483	0.0	0.0	0.66	0.66	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
Year N	22	0	0.0	0.0	0.0	0	1000	0.483	0.0	0.0	0.66	0.66	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
Year																						

N2O-N in food/beverage/fuel/other

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
Year		0.77	0.26	0.08	0.03	0.01	0.00	0.00	0.00	0.00	0.00	1.16	1.50
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	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	0.00
Increased soil N emissions, kg N2O-N/ha:	Value	1.00	0.77	0.26	0.08	0.03	0.01	0.00	0.00	0.00	0.00	1.16	1.50
Natural background emissions, kg N2O-N/ha:	Value	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total IPCC and non IPCC N2O	Value	3.68	2.41	0.84	0.30	0.12	0.05	0.02	0.01	0.01	0.01	0.01	0.01
Total anthropogenic	Value	3.68	2.41	0.84	0.30	0.12	0.05	0.02	0.01	0.01	0.01	0.01	0.01
Total including natural	Value	4.84	3.57	1.16	0.48	0.16	0.06	0.03	0.01	0.01	0.01	0.01	0.01

Kind of source
 Current crops
 Total anthropogenic
 Total including natural

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND CATTLE BEEF Note 43
AND CONTINUING WITH SEPARATED CATTLE MANURE WINTER WHEAT FOR CATTLE BEEF Note 43

Year	Fertilizer/manure #	Store Name	Amounts 1/0	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	Feeder: Uses #21-61 Fed	N crop Food #72	Fuel/ bev #8	Fuel/ other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996 Each	N2O-N emission IPCC 2006 Total
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Total N Year 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL	IPCC 1996 0.0249 0.0445	IPCC 2006 0.0164 0.0291	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED 45.7 45.2
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N2O-N in food/beverage/fuel/other

Year 1	N leach	1	0	100.0	2.2 NON	100.00 WRB	1.113 YES	1	1	97.8	22	71.3	18.6	0.0	14.5	22	52.7	1.79	2.13	1.27
	N leach	22	0	50.9	50.9	100.00 WWH	1.000 YES	0	1	38.2	22	21.3	4.4	0.0	4.2	22	16.8	0.30	0.105	0.09
	N leach	22	0	16.3	16.3	100.00 WWH	1.000 YES	0	1	12.2	22	6.8	1.4	0.0	1.3	22	5.4	0.14	0.125	0.14
	N leach	22	0	4.1	4.1	100.00 WWH	1.000 YES	0	1	4.1	22	0.67	0.4	0.0	1.3	22	0.0	0.32	0.105	0.10
	N leach	22	0	5.2	5.2	100.00 SBA	1.000 YES	0	1	3.9	22	2.0	0.4	0.0	0.5	22	1.6	0.07	0.12	0.03
	N leach	22	0	1.6	1.6	100.00 WBA	1.000 YES	0	1	1.4	22	0.65	0.1	0.0	0.3	22	0.1	0.01	0.125	0.01
	N leach	22	0	0.4	0.4	100.00 WBA	1.000 YES	0	1	1.2	22	0.6	0.1	0.0	0.1	22	0.5	0.04	0.04	0.02
	N leach	22	0	0.5	0.5	100.00 WRB	1.000 YES	0	1	0.4	22	0.66	0.1	0.0	0.0	22	0.0	0.00	0.0125	0.00
	N leach	22	0	0.1	0.1	100.00 WRB	1.113 YES	0	1	0.3	22	0.2	0.1	0.0	0.1	22	0.2	0.01	0.01	0.00
	N leach	22	0	0.2	0.2	100.00 WWH	0.382	0	1	0.1	22	0.84	0.0	0.0	0.0	22	0.0	0.00	0.0125	0.00
	N leach	22	0	0.0	0.0	100.00 WWH	1.000 YES	0	1	0.0	22	0.67	0.0	0.0	0.0	22	0.0	0.00	0.0125	0.00
	N leach	22	0	0.0	0.0	100.00 WWH	1.000 YES	0	1	0.0	22	0.67	0.0	0.0	0.0	22	0.0	0.00	0.0125	0.00
	N leach	22	0	0.0	0.0	100.00 WBA	0.443	0	1	0.0	22	0.65	0.0	0.0	0.0	22	0.0	0.00	0.0125	0.00
	N leach	22	0	0.0	0.0	100.00 WBA	1.000 YES	0	1	0.0	22	0.66	0.0	0.0	0.0	22	0.0	0.00	0.0125	0.00
	N leach	22	0	0.0	0.0	100.00 WBA	0.483	0	1	0.0	22	0.66	0.0	0.0	0.0	22	0.0	0.00	0.0125	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 0.77 0.27 0.09 0.04 0.01 0.00 0.00 0.00 0.00 0.00 1.18 1.53

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

Total IPCC and non IPCC N2O 3.82
Total anthropogenic 3.82
Total including natural 5.01

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 N2O-N emission N2O-N emission
 # Store Amounts IPCC 1996 IPCC 2006
 Name 1/0 Store Field 1/0 Name 1/0 Crop use & leach Name Fed Food #72 #71/ bevs #72 #71/ bevs other #9 Manure Final handling N a- # Name amounts Each Total Each Total

RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	
Year	N NH3	IPCC 1996	IPCC 2006
1-10	N leach	0.0307	0.0254
TOTAL		0.0559	0.0413

N2O-N in food/beverage/fuel/other 0.1086 0.0801 Note 46

Year	N	1	0	100.0	100.0	1	1	97.8	22	71.3	18.6	0.0	0.0	14.5	24	52.7	3.51	4.80	3.10	3.54
1	Vol/NH3	N	NO	0.0	2.2	NON	100.0	WRB	1.113	YES	0.84	0.0	0.0	0.0	12.0	Cattle	0.02	2.64	2.07	2.18
	N leach			1.000	1.022	ORG	1.00	1.113	0.271	14.5	12.0	Beef	2	3.0	Graz	0.0	0.30	0.0200	0.02	0.0100
Year	N	24	0	52.7	52.7	0	1	49.0	22	15.3	3.2	0.0	0.0	5.4	24	12.1	0.92	1.67	0.80	1.05
2	Vol/NH3	Cattle	NO	0.0	3.7	NON	100.00	WWH	1.000	YES	0.67	0.0	0.0	0.0	0.0	Cattle	0.0	0.04	0.0125	0.04
	N leach			1.000	1.000	ORG	1.00	1.000	0.689	5.4	28.4	Beef	2	5.3	Graz	0.0	0.71	0.0200	0.21	0.0200
Year	N	24	0	12.1	12.1	0	1	11.2	22	3.5	0.7	0.0	0.0	1.2	24	2.8	0.21	0.38	0.18	0.24
3	Vol/NH3	Cattle	NO	0.0	0.8	NON	100.00	WWH	1.000	YES	0.67	0.0	0.0	0.0	0.0	Cattle	0.0	0.01	0.0125	0.01
	N leach			1.000	1.000	ORG	1.00	1.000	0.689	1.2	1.2	Graz	2	1.2	Graz	0.0	0.16	0.0200	0.05	0.0200
Year	N	24	0	2.8	2.8	0	1	2.6	22	0.7	0.1	0.0	0.0	0.3	24	0.6	0.05	0.09	0.04	0.05
4	Vol/NH3	Cattle	NO	0.0	0.2	NON	100.00	SBA	1.000	YES	0.65	0.0	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.00
	N leach			1.000	1.000	ORG	1.00	1.000	0.711	0.3	0.2	0.0	0.0	0.2	Graz	0.0	0.04	0.0200	0.01	0.0200
Year	N	24	0	0.6	0.6	0	1	0.6	22	0.2	0.0	0.0	0.0	0.1	24	0.1	0.01	0.02	0.01	0.01
5	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WBA	1.000	YES	0.66	0.0	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.00
	N leach			1.000	1.000	ORG	1.00	1.000	0.712	0.1	0.3	Beef	2	0.0	Graz	0.0	0.01	0.0200	0.00	0.0100
Year	N	24	0	0.1	0.1	0	1	0.1	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00
6	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WRB	1.113	YES	0.84	0.0	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.00
	N leach			1.000	1.000	ORG	1.00	1.113	0.655	0.0	0.1	Beef	2	0.0	Graz	0.0	0.00	0.0200	0.00	0.0200
Year	N	24	0	0.0	0.0	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00
7	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WWH	1.000	YES	0.67	0.0	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.00
	N leach			1.000	1.000	ORG	1.00	1.000	0.689	0.0	0.0	Beef	2	0.0	Graz	0.0	0.00	0.0200	0.00	0.0100
Year	N	24	0	0.0	0.0	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00
8	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WWH	1.000	YES	0.67	0.0	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.00
	N leach			1.000	1.000	ORG	1.00	1.000	0.689	0.0	0.0	Beef	2	0.0	Graz	0.0	0.00	0.0200	0.00	0.0100
Year	N	24	0	0.0	0.0	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00
9	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	SBA	1.000	YES	0.65	0.0	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.00
	N leach			1.000	1.000	ORG	1.00	1.000	0.711	0.0	0.0	Beef	2	0.0	Graz	0.0	0.00	0.0200	0.00	0.0100
Year	N	24	0	0.0	0.0	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00
10	Vol/NH3	Cattle	NO	0.0	0.0	NON	100.00	WBA	1.000	YES	0.66	0.0	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.00
	N leach			1.000	1.000	ORG	1.00	1.000	0.712	0.0	0.0	Beef	2	0.0	Graz	0.0	0.00	0.0200	0.00	0.0100

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

Area with crop, ha 0.77 0.16 0.04 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.98 1.27 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 4.80
 Total anthropogenic 4.80
 Total including natural 5.78
 Note 51
 Note 51
 Note 51
 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Crop Fuel/ Fuel/ Manure Final N2O-N emission
AND CONTINUING WITH MANURE FROM ROOTING PIGS TO PRODUCE benefit used & use # Uses #21-61 #71/ #72 #73 #74 #75 #76 #77 #78 #79 other # Name amounts Each Total IPCC 1996 IPCC 2006

Table with 10 columns: Year, Fertilizer/manure #, Store, Amounts, Field, Or-ganic, Nnorm, Crop, Straw, Crop, Use, Fodder, N crop, Food, Fuel, other, Manure, Final, N2O-N emission. Includes sub-tables for 'RATIO OF N2O-N TO N IN FIRST CROP' and 'TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED'.

Main data table with 10 rows (Year 1-10) and 18 columns: Vol/NH3, N, Store, Amounts, Field, Or-ganic, Nnorm, Crop, Straw, Crop, Use, Fodder, N crop, Food, Fuel, other, Manure, Final, N2O-N emission. Includes 'TOTAL N AMOUNTS IN KG AND % LEACHED' and 'TOTAL N AMOUNTS IN KG AND %'.

Summary section including: 'N2O-N in food/beverage/fuel/other', '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/year 1', 'Year 1-10', 'Year 9', 'Year 10', 'Total', 'Kind of source', 'Current crops', 'Total anthropogenic', 'Total including natural', 'Total IPCC and non IPCC N2O', 'Total IPCC', 'Total non IPCC', 'Total N2O', 'Note 43-51'.

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND FUEL/ POULTRY MEAT
AND CONTINUING WITH SEPARATED POULTRY MANURE TO PRODUCE WINTER WHEAT FOR POULTRY MEAT

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

Table with 14 columns: Year, Fertilizer/manure #, Store, Amounts, Field Name, Or-ganic, Nnorm, Crop #, N crop use & leach, Crop use #, Fuel/ other #9, Manure handling #, Final N a-mounts, N2O-N emission IPCC 1996, Total, N2O-N emission IPCC 2006, Total. Includes sub-totals for N amounts in kg and % leached.

N2O-N in food/beverage/fuel/other

Main data table with 14 columns: Year, Fertilizer/manure #, Store, Amounts, Field Name, Or-ganic, Nnorm, Crop #, N crop use & leach, Crop use #, Fuel/ other #9, Manure handling #, Final N a-mounts, N2O-N emission IPCC 1996, Total, N2O-N emission IPCC 2006, Total. Rows 1-10.

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 0.77 0.14 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.94 1.22

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

Total IPCC and non IPCC N2O 2.60
Kind of source Current crops
Total anthropogenic 2.60
Total including natural 3.54
Note 51 1.78 Note 51 1.78 Note 51 2.72 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND FUEL/ OTHER #9 POULTRY MEAT
 AND CONTINUING WITH POULTRY DEEP LITTER TO PRODUCE WINTER WHEAT FOR POULTRY MEAT

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop # Name	Cereal benefit 1/0	Straw used 1/0	Crop use & leach	Use # Name	Fodder: Uses #21-61 Fed	N crop #71/ #72	Food #8	Fuel/ bev #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	
Total N																					
Year 1-10																					
RATIO OF N2O-N TO N IN FIRST CROP TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED ACCORDING TO IPCC 1996 IPCC 2006 FIRST YEAR 0.0250 0.0160 TOTAL 0.0316 0.0200 TOTAL N AMOUNTS IN KG AND % LEACHED TOTAL N AMOUNTS IN KG AND %																					

Year	N	Vol/NH3	N	NO	100.0	100.0	0	100	229	1	1	97.8	42	71.3	36.4	0.0	0.0	14.5	43	34.9	1.68	2.14	1.12	
1	Year	N	leach	1.022	1.000	0.0	2.2	NON	100.00	WRB	1.113	YES	12.0	Poultry	0.84	0.0	0.0	0.0	0.0	14.5	0.0	Poultry	14.0	1.12
2	Year	N	leach	0	21.2	0	21.2	NON	100.00	WWH	0.271	14.5	12.0	Meat	4	0.0	0.0	3.0	Deep	0.0	0.30	0.0200	0.16	
3	Year	N	leach	0	1.8	0	1.8	NON	100.00	WBA	1.000	YES	8.0	Poultry	0.67	0.0	0.0	1.8	Deep	3.0	0.26	0.52	0.09	
4	Year	N	leach	0	0.2	0	0.2	NON	100.00	SBA	1.000	YES	8.0	Meat	4	0.0	0.0	1.7	Deep	1.2	0.07	0.0125	0.07	
5	Year	N	leach	0	0.0	0.0	0.0	NON	100.00	SBA	0.614	1.8	8.0	Meat	4	0.0	0.0	0.2	Deep	0.0	0.20	0.0200	0.06	
6	Year	N	leach	0	0.0	0.0	0.0	NON	100.00	WBA	1.000	YES	0.7	Poultry	0.67	0.0	0.0	0.0	Poultry	0.1	0.01	0.0125	0.01	
7	Year	N	leach	0	0.0	0.0	0.0	NON	100.00	WBA	0.614	0.2	0.7	Meat	4	0.0	0.0	0.1	Deep	0.0	0.02	0.0200	0.01	
8	Year	N	leach	0	0.0	0.0	0.0	NON	100.00	WRB	1.113	YES	0.1	Poultry	0.65	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	0.00	
9	Year	N	leach	0	0.0	0.0	0.0	NON	100.00	WBA	0.642	0.0	0.1	Meat	4	0.0	0.0	0.0	Deep	0.0	0.00	0.0125	0.00	
10	Year	N	leach	0	0.0	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Poultry	0.66	0.0	0.0	0.0	Poultry	0.0	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	0.77	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	1.11
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:	0.00	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:	1.00	0.77	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.86	1.11
Natural background emissions, kg N2O-N/ha:												

Total IPCC and non IPCC N2O 2.71
 Total anthropogenic 2.71
 Total including natural 3.57
 Note 43
 Note 44
 Note 45
 Note 46
 Note 47
 Note 48
 Note 49
 Note 50
 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND FUEL/ POULTRY MEAT
AND CONTINUING WITH MANURE FROM SCRAPING POULTRY TO PRODUCE WINTER WHEAT FOR POULTRY MEAT

Table with columns: Year, Fertilizer/manure #, Store, Amounts, Field, 1/0, Or-ganic, Nnorm, Crop, Straw, Crop use, Name, Use, Feeder, Food, N crop, Fuel, Manure, Final, N2O-N, IPCC, Emission, Total. Includes sub-tables for N2O-N in food/beverage/fuel/other and Ratios of N2O-N.

Main table with columns: Year, N, NH3, N leach, Poultry, Scrap, etc. Rows 1-10. Includes sub-tables for Year 1-10 and Total N amounts.

Summary table with columns: Year, Area with crop, ha, Value, N residues emissions, ratio of N2O-N to N, Increased soil N emissions, Natural background emissions, Total IPCC and non IPCC N2O, Total/year 1, Kind of source, Total anthropogenic, Total including natural.

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Fuel/ Fuel/ N crop Food/ N2O-N emission
 AND CONTINUING WITH LIQUID POULTRY MANURE TO PRODUCE benefit used leach use & use #71/ bev #72 #73 Total Each Total Each Total
 # Store 1/0 Field 1/0 ganic 1/0 Nnorm 1/0 1/0 1/0 1/0 # 1/0 #9 other # Name mounts # Name mounts # Name mounts

Year	Fertilizer/manure #	Store	Amounts	Field	1/0	Or-ganic 1/0	Nnorm 1/0	Crop #	1/0	Straw used	1/0	Crop use & leach	Use #	Food	Fed	Uses #21-61	Fuel/ #9	Manure handling #	Final N-a-	N2O-N emission IPCC 1996	Total	N2O-N emission IPCC 2006	Total	
Total N	RATIO OF N2O-N TO N IN FIRST CROP																							
	Year N NH3	1	0	100.0	100.0	2.2 NON	100.0 WRB	229	1	1	1	1	97.8	43	71.3	17.2	0.0	14.5	41	54.1	2.03	3.03	1.93	2.42
	1-10 N leach	1.022	1.000	0.0	1.000	ORG	1.00	1.113	0.271	14.5	12.0 Poultry	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.27	0.27	0.27
Year 1	N	41	0	48.7	48.7	ORG	100	11	0	1	1	36.5	43	20.3	4.9	0.0	4.0	41	15.4	2.03	3.03	1.93	2.42	
	N leach	1.000	1.000	0.0	1.000	ORG	100.00	WWH	1.000	YES	12.1 Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.14	0.14	0.14	
	Year 2	N	41	0	13.9	13.9	ORG	100	11	0	1	10.4	43	5.8	1.4	0.0	1.2	41	4.4	2.03	3.03	1.93	2.42	
Year 3	N leach	1.000	1.000	0.0	1.000	ORG	100.00	WWH	1.000	YES	3.5 Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.04	0.04	0.04	
	Year 4	N	41	0	4.0	4.0	ORG	100	1	0	1	3.0	43	1.5	0.4	0.0	0.3	41	1.2	2.03	3.03	1.93	2.42	
	N leach	1.000	1.000	0.0	1.000	ORG	100.00	SBA	1.000	YES	1.1 Poultry	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.01	0.01	
Year 5	N	41	0	1.1	1.1	ORG	100	10	0	1	0.8	43	0.4	0.1	0.0	0.1	41	0.3	2.03	3.03	1.93	2.42		
	N leach	1.000	1.000	0.0	1.000	ORG	100.00	WBA	1.000	YES	0.3 Poultry	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	Year 6	N	41	0	0.3	0.3	ORG	100	229	1	1	0.2	43	0.1	0.0	0.0	0.0	41	0.1	2.03	3.03	1.93	2.42	
Year 7	N leach	1.000	1.000	0.0	1.000	ORG	100.00	WRB	1.113	YES	0.0 Poultry	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	Year 8	N	41	0	0.1	0.1	ORG	100	11	0	1	0.1	43	0.0	0.0	0.0	0.0	41	0.0	2.03	3.03	1.93	2.42	
	N leach	1.000	1.000	0.0	1.000	ORG	100.00	WWH	1.000	YES	0.0 Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
Year 9	N	41	0	0.0	0.0	ORG	100	1000	0.443	0.0	0.0	43	0.67	0.0	0.0	0.0	0.0	41	0.0	2.03	3.03	1.93	2.42	
	N leach	1.000	1.000	0.0	1.000	ORG	100.00	WBA	1.000	YES	0.0 Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	Year 10	N	41	0	0.0	0.0	ORG	100	10	0	1	0.0	43	0.0	0.0	0.0	0.0	41	0.0	2.03	3.03	1.93	2.42	
Year 11	N leach	1.000	1.000	0.0	1.000	ORG	100.00	WBA	1.000	YES	0.0 Poultry	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
	Year 12	N	41	0	0.0	0.0	ORG	100	1000	0.483	0.0	0.0	43	0.66	0.0	0.0	0.0	41	0.0	2.03	3.03	1.93	2.42	
	N leach	1.000	1.000	0.0	1.000	ORG	100.00	WBA	1.000	YES	0.0 Poultry	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	

N2O-N in food/beverage/fuel/other

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		0.77	0.26	0.07	0.03	0.01	0.00	0.00	0.00	0.00	0.00	1.15	1.49
2		0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4		1.00	0.77	0.26	0.07	0.03	0.01	0.00	0.00	0.00	0.00	1.15	1.49

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		0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4		1.00	0.77	0.26	0.07	0.03	0.01	0.00	0.00	0.00	0.00	1.15	1.49

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: 3.03
 Kind of source: Current crops
 Total anthropogenic: 3.03
 Total including natural: 4.17
 Note 43: 2.42
 Note 45: 0.27
 Note 47: 0.00
 Note 48: 0.00
 Note 49: 0.00
 Note 50: 0.00
 Note 51: 2.42

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND FUEL/ OTHER #9 POULTRY EGGS
 AND CONTINUING WITH SEPARATED POULTRY MANURE TO PRODUCE WINTER WHEAT FOR POULTRY EGGS

Year Fertilizer/manure # Store Amounts Field Name 1/0 Or-ganic 1/0 Nnorm propor tion, % Crop # Name 1/0 Straw used 1/0 Crop use & leach Cereal benefit 1/0 Fodder: Uses #21-61 Fed Food #72 N crop #71/ bev #78 Fuel/ other #9 Manure handling # Name 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	1	0	100.0	2.2	NON	0	100	229	1	1	1	97.8	43	71.3	17.2	0.0	0.0	14.5	42	54.1	2.37	3.34	1.73	2.26
1-10 N leach				1.022	1.000	0.0	100.00	WRB	1.113	YES	12.0	Poultry	0.84	0.84	0.0	0.0	0.0	0.0	Poultry	13.5	0.33	0.33	0.33	Note 45
	42	0	40.6	40.6	0	100	11	1.113	0.271	14.5	12.0	Eggs	4	4	0.0	0.0	0.0	3.0	Sep	0.0	0.63	0.19	Note 45	
Year 2																								
Year N	42	0	9.7	9.7	0	100	11	1.000	1.000	YES	30.4	Poultry	0.67	0.67	4.1	0.0	0.0	3.4	42	12.9	0.39	0.39	Note 44	
N leach	Sep		1.000	10.1	NON	100.00	WWH	0.443	3.4	10.1	Poultry	4	4	0.67	0.0	0.0	0.0	0.0	Poultry	3.2	0.63	0.19	Note 44	
Year 3																								
Year N	42	0	2.3	2.3	0	100	1	1.000	0.443	0.8	2.4	Eggs	4	4	0.0	0.0	0.0	0.8	42	3.1	0.09	0.09	Note 44	
N leach	Sep		1.000	2.4	NON	100.00	WWH	1.000	YES	2.4	Poultry	0.67	0.67	0.67	0.0	0.0	0.0	0.0	Poultry	0.8	0.03	0.03	Note 44	
Year 4																								
Year N	42	0	0.5	0.5	0	100	10	1.000	0.483	0.2	0.6	Poultry	4	4	0.0	0.0	0.0	0.2	42	0.7	0.02	0.02	Note 44	
N leach	Sep		1.000	0.6	NON	100.00	SBA	1.000	YES	0.6	Poultry	0.65	0.65	0.65	0.0	0.0	0.0	0.2	Poultry	0.2	0.01	0.01	Note 44	
Year 5																								
Year N	42	0	0.0	0.1	0.1	NON	100.00	WBA	1.000	YES	0.1	Poultry	0.483	0.483	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
N leach	Sep		1.000	0.1	NON	100.00	WBA	0.483	0.0	0.1	Eggs	4	4	0.66	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
Year 6																								
Year N	42	0	0.0	0.0	0.0	NON	100.00	WRB	1.113	YES	0.0	Poultry	0.84	0.84	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
N leach	Sep		1.000	0.0	0.0	NON	100.00	WRB	0.382	0.0	0.0	Eggs	4	4	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
Year 7																								
Year N	42	0	0.0	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Poultry	0.67	0.67	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
N leach	Sep		1.000	0.0	0.0	NON	100.00	WWH	0.443	0.0	0.0	Eggs	4	4	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
Year 8																								
Year N	42	0	0.0	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Poultry	0.67	0.67	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
N leach	Sep		1.000	0.0	0.0	NON	100.00	WWH	0.443	0.0	0.0	Eggs	4	4	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
Year 9																								
Year N	42	0	0.0	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Poultry	0.65	0.65	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
N leach	Sep		1.000	0.0	0.0	NON	100.00	SBA	0.483	0.0	0.0	Eggs	4	4	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
Year 10																								
Year N	42	0	0.0	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Poultry	0.66	0.66	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	
N leach	Sep		1.000	0.0	0.0	NON	100.00	WBA	0.483	0.0	0.0	Eggs	4	4	0.0	0.0	0.0	0.0	Poultry	0.0	0.00	0.00	Note 44	

N2O-N in food/beverage/fuel/other 0.0806

Year	N	Area with crop, ha	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1	Note
1	1.22	1.47	0.77	0.22	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.38	Note 50
2	0.16	0.0100	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 51
3	0.09	0.0050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 51
4	0.39	0.60	1.00	0.77	0.22	0.05	0.02	0.00	0.00	0.00	0.00	0.00	1.06	1.40	Note 51
5	0.13	0.0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 51
6	0.08	0.0050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 51
7	0.09	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 51
8	0.03	0.0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 51
9	0.02	0.0050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 51
10	0.01	0.0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 51
Total	1.73	2.26	0.77	0.22	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.38	Note 51

Possible additional non IPCC N2O-N emissions Value 1.00
 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

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE TO PRODUCE
 AND CONTINUING WITH POULTRY DEEP LITTER POULTRY EGGS WINTER RAPESEED FOR PPO/BIODIESEL AND POULTRY EGGS
 POULTRY EGGS WINTER WHEAT FOR POULTRY EGGS

Year	Fertilizer/manure #	Name	Store 1/0	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Cereal benefit 1/0	Straw used 1/0	Use #	Fodder: Uses #21-61	N crop #71/	Fuel/ other #9	Manure handling #	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	
Total N																			
Year N NH3	1	NO	0	100.0	100.0	2.2 NON	100.00 WRB	229	1.113 YES	1	97.8 Poultry	71.3	0.0	0.0	14.5	43	54.1	37.3	2.40
1-10 N leach						0.0285	0.0176	0.0244	0.271	14.5	12.0 Eggs	0.84	0.0	0.0	0.0	0.0	21.6	36.5	0.37
						0.0400	0.0244	0.0244	0.0271	14.5	12.0 Eggs	4	0.0	0.0	0.0	0.0	0.0	0.0	0.37

Year	Fertilizer/manure #	Name	Store 1/0	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Cereal benefit 1/0	Straw used 1/0	Use #	Fodder: Uses #21-61	N crop #71/	Fuel/ other #9	Manure handling #	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	
Year N	43	NO	0	100.0	100.0	32.9 NON	100.00 WWH	11	1.000 YES	1	24.7 Poultry	9.5	0.0	0.0	2.7	43	7.2	0.85	2.40
Year N	43	NO	0	100.0	100.0	4.4 NON	100.00 WWH	11	0.614	2.7	12.4 Eggs	0.67	0.0	0.0	2.7	43	2.9	0.11	0.37
Year N	43	NO	0	100.0	100.0	1.1 NON	100.00 WWH	1	1.000 YES	1	1.7 Poultry	0.67	0.0	0.0	0.4	43	1.0	0.04	0.66
Year N	43	NO	0	100.0	100.0	0.6 NON	100.00 SBA	1	0.642	0.1	0.2 Eggs	0.65	0.0	0.0	0.1	43	0.1	0.01	0.20
Year N	43	NO	0	100.0	100.0	0.1 NON	100.00 WBA	10	1.000 YES	1	0.2 Eggs	4	0.0	0.0	0.0	0.0	0.0	0.01	0.20
Year N	43	NO	0	100.0	100.0	0.0 NON	100.00 WBA	1000	0.642	0.0	0.0 Eggs	0.66	0.0	0.0	0.0	0.0	0.0	0.01	0.20
Year N	43	NO	0	100.0	100.0	0.0 NON	100.00 WRB	229	1.113 YES	1	0.0 Eggs	0.84	0.0	0.0	0.0	43	0.0	0.00	0.37
Year N	43	NO	0	100.0	100.0	0.0 NON	100.00 WWH	11	0.572	0.0	0.0 Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.37
Year N	43	NO	0	100.0	100.0	0.0 NON	100.00 WWH	1000	1.000 YES	1	0.0 Eggs	0.67	0.0	0.0	0.0	43	0.0	0.00	0.66
Year N	43	NO	0	100.0	100.0	0.0 NON	100.00 WWH	10	0.614	0.0	0.0 Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.66
Year N	43	NO	0	100.0	100.0	0.0 NON	100.00 WWH	1000	1.000 YES	1	0.0 Eggs	0.67	0.0	0.0	0.0	43	0.0	0.00	0.66
Year N	43	NO	0	100.0	100.0	0.0 NON	100.00 WBA	10	0.642	0.0	0.0 Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.66

N2O-N in food/beverage/fuel/other

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
Year		0.77	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	1.18
Area with crop, ha		0.77	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	1.18

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 0.00 0.00 0.00
 Natural background emissions, kg N2O-N/ha: 1.00 0.77 0.12 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND FUEL/ OTHER #9 POULTRY EGGS
 AND CONTINUING WITH MANURE FROM SCRAPING POULTRY TO PRODUCE WINTER WHEAT FOR POULTRY EGGS

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

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED									
Year N NH3	100.0	0	100	229	1	1	97.8	43	71.3	17.2	0.0	0.0	14.5	44	54.1	43.6	3.54	4.84	3.13	3.57
1-10 N leach	0.0311	0.0564	0.0258	0.0416	1.113	YES	12.0	Poultry	0.84	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.07	0.07	0.07	0.07
TOTAL	0.0311	0.0564	0.0258	0.0416	1.113	YES	12.0	Poultry	0.84	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.07	0.07	0.07	0.07

N2O-N in food/beverage/fuel/other

Year N	1	0	100.0	229	1	1	97.8	43	71.3	17.2	0.0	0.0	14.5	44	54.1	2.66	2.10	2.10	2.10
1	Vol/NH3	N	NO	WRB	1.113	YES	12.0	Poultry	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.02	0.02	0.02
N leach	1.022	1.000	ORG	1.00	1.113	14.5	12.0	Eggs	4	3.0	Scrap	0.0	0.0	0.0	0.0	0.0200	0.09	0.09	0.09
Year N	44	0	54.1	11	0	1	50.3	43	15.6	3.8	0.0	0.0	5.6	44	11.9	1.70	0.81	0.81	0.81
2	Vol/NH3	Poultry	NO	WWH	1.000	YES	29.1	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.04	0.04	0.04
N leach	Scrap	0.484	1.000	ORG	1.00	1.000	29.1	Eggs	4	5.4	Scrap	0.0	0.0	0.0	0.0	0.0200	0.22	0.22	0.22
Year N	44	0	11.9	11	0	1	11.0	43	3.4	0.8	0.0	0.0	1.2	44	2.6	0.37	0.18	0.18	0.18
3	Vol/NH3	Poultry	NO	WWH	1.000	YES	6.4	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.01	0.01	0.01
N leach	Scrap	0.484	1.000	ORG	1.00	1.000	6.4	Eggs	4	1.2	Scrap	0.0	0.0	0.0	0.0	0.0200	0.05	0.05	0.05
Year N	44	0	2.6	1	0	1	2.4	43	0.7	0.2	0.0	0.0	0.3	44	0.5	0.08	0.04	0.04	0.04
4	Vol/NH3	Poultry	NO	SBA	1.000	YES	1.4	Poultry	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.00	0.00	0.00
N leach	Scrap	0.484	1.000	ORG	1.00	1.000	1.4	Eggs	4	0.2	Scrap	0.0	0.0	0.0	0.0	0.0200	0.01	0.01	0.01
Year N	44	0	0.5	10	0	1	0.5	43	0.1	0.0	0.0	0.0	0.1	44	0.1	0.02	0.01	0.01	0.01
5	Vol/NH3	Poultry	NO	WBA	1.000	YES	0.3	Poultry	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.00	0.00	0.00
N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.3	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0200	0.00	0.00	0.00
Year N	44	0	0.1	229	1	1	0.1	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00
6	Vol/NH3	Poultry	NO	WRB	1.113	YES	0.1	Poultry	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.00	0.00	0.00
N leach	Scrap	0.484	1.000	ORG	1.00	1.113	0.1	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0200	0.00	0.00	0.00
Year N	44	0	0.0	11	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00
7	Vol/NH3	Poultry	NO	WWH	1.000	YES	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.00	0.00	0.00
N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0200	0.00	0.00	0.00
Year N	44	0	0.0	11	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00
8	Vol/NH3	Poultry	NO	WWH	1.000	YES	0.0	Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.00	0.00	0.00
N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0200	0.00	0.00	0.00
Year N	44	0	0.0	1	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00
9	Vol/NH3	Poultry	NO	SBA	1.000	YES	0.0	Poultry	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.00	0.00	0.00
N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0200	0.00	0.00	0.00
Year N	44	0	0.0	10	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00	0.00
10	Vol/NH3	Poultry	NO	WBA	1.000	YES	0.0	Poultry	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0125	0.00	0.00	0.00
N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0200	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 0.77 0.16 0.04 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.98 1.27

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: 0.77
 Total IPCC and non IPCC N2O 4.84
 Total anthropogenic 4.84
 Total including natural 5.82
 Note 51 3.57 Note 51 4.55 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Fuel/ Manure Final N2O-N emission
 AND CONTINUING WITH MANURE FROM GRAZING GOATS TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR GOAT MILK/MEAT GOAT MILK/MEAT
 Name 1/0 Store Field 1/0 Or-ganic 1/0 Nnorm propor # Crop use & leach Name Use Fodder: N crop Food/ Fuel/ Manure Final N2O-N emission
 # Store Amounts 1/0 Store 1/0 Name # #71/ bevs other handling N a- IPCC 1996
 Name 1/0 Store Field 1/0 Name Fed Food #72 #8 #9 # Name mounts Each Total Each Total

Year	Fertilizer/manure #	Store	Field	Or-ganic	Nnorm	Crop	use & leach	Name	Use	Fodder:	N crop	Food/ bevs	Fuel/ other	Manure	Final	N2O-N emission
Total N	1	0	100.0	100.0	0	100	229	1	1	1	1	1	1	1	1	1
Year N NH3	NO	0.0	2.2	NON	100.00	WRB	1.113	YES	12.0	Goat	0.84	0.0	14.5	64	64.4	32.7
1-10 N leach	1.022	1.000	ORG	1.00	1.113	14.5	0.271	14.5	12.0	Milk/meat	6	3.0	Graz	0.0	8.3	8.3
Year 2	64	0	64.4	0	100	11	0	1	59.9	Goat	18.6	1.8	0.0	6.6	16.8	16.8
Year N NH3	Goat	NO	0.0	4.5	NON	100.00	WWH	1.000	YES	34.7	Goat	0.67	0.0	6.6	0.0	0.05
Year N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.689	6.6	34.7	Milk/meat	6	6.5	Graz	0.0	0.87	0.200
Year 3	64	0	16.8	0	100	11	0	1	15.7	Goat	4.9	0.5	0.0	1.7	4.4	4.4
Year N NH3	Goat	NO	0.0	1.2	NON	100.00	WWH	1.000	YES	9.1	Goat	0.67	0.0	1.7	0.0	0.01
Year N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.689	1.7	9.1	Milk/meat	6	1.7	Graz	0.0	0.23	0.200
Year 4	64	0	4.4	0	100	1	0	1	4.1	Goat	1.2	0.1	0.0	0.5	1.1	1.1
Year N NH3	Goat	NO	0.0	0.3	NON	100.00	SBA	1.000	YES	2.4	Goat	0.65	0.0	0.4	0.0	0.00
Year N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.711	0.5	2.4	Milk/meat	6	0.4	Graz	0.0	0.06	0.200
Year 5	64	0	1.1	0	100	10	0	1	1.0	Goat	0.3	0.0	0.0	0.1	0.3	0.3
Year N NH3	Goat	NO	0.0	0.1	NON	100.00	WBA	1.000	YES	0.6	Goat	0.66	0.0	0.0	0.0	0.00
Year N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.712	0.1	0.6	Milk/meat	6	0.1	Graz	0.0	0.00	0.125
Year 6	64	0	0.3	0	100	229	1	1	0.2	Goat	0.1	0.0	0.0	0.0	0.1	0.1
Year N NH3	Goat	NO	0.0	0.0	NON	100.00	WRB	1.113	YES	0.1	Goat	0.84	0.0	0.0	0.0	0.00
Year N leach	Graz	0.484	1.000	ORG	1.00	1.113	0.655	0.0	0.1	Milk/meat	6	0.0	Graz	0.0	0.00	0.125
Year 7	64	0	0.1	0	100	11	0	1	0.1	Goat	0.0	0.0	0.0	0.0	0.0	0.0
Year N NH3	Goat	NO	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Goat	0.67	0.0	0.0	0.0	0.00
Year N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.689	0.0	0.0	Milk/meat	6	0.0	Graz	0.0	0.00	0.125
Year 8	64	0	0.0	0	100	11	0	1	0.0	Goat	0.0	0.0	0.0	0.0	0.0	0.0
Year N NH3	Goat	NO	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Goat	0.67	0.0	0.0	0.0	0.00
Year N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.689	0.0	0.0	Milk/meat	6	0.0	Graz	0.0	0.00	0.125
Year 9	64	0	0.0	0	100	1	0	1	0.0	Goat	0.0	0.0	0.0	0.0	0.0	0.0
Year N NH3	Goat	NO	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Goat	0.65	0.0	0.0	0.0	0.00
Year N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.711	0.0	0.0	Milk/meat	6	0.0	Graz	0.0	0.00	0.125
Year 10	64	0	0.0	0	100	10	0	1	0.0	Goat	0.0	0.0	0.0	0.0	0.0	0.0
Year N NH3	Goat	NO	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Goat	0.66	0.0	0.0	0.0	0.00
Year N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.712	0.0	0.0	Milk/meat	6	0.0	Graz	0.0	0.00	0.125

N2O-N in food/beverage/fuel/other

Year	N	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1
Year 1	1	0	0	0	0	0	0	0	0	0	0	0	0
Year 2	1.66	2.87	2.55	2.87	1.66	1.77	1.66	1.66	1.66	1.66	1.66	1.66	1.66
Year 3	0.02	0.0125	0.02	0.0125	0.02	0.0125	0.02	0.0125	0.02	0.0125	0.02	0.0125	0.02
Year 4	0.09	0.0100	0.09	0.0100	0.09	0.0100	0.09	0.0100	0.09	0.0100	0.09	0.0100	0.09
Year 5	0.85	1.15	0.85	1.15	0.85	1.15	0.85	1.15	0.85	1.15	0.85	1.15	0.85
Year 6	0.05	0.0100	0.05	0.0100	0.05	0.0100	0.05	0.0100	0.05	0.0100	0.05	0.0100	0.05
Year 7	0.26	0.30	0.26	0.30	0.26	0.30	0.26	0.30	0.26	0.30	0.26	0.30	0.26
Year 8	0.01	0.0100	0.01	0.0100	0.01	0.0100	0.01	0.0100	0.01	0.0100	0.01	0.0100	0.01
Year 9	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07
Year 10	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	0.1018	0.1736	0.1018	0.1736	0.1018	0.1736	0.1018	0.1736	0.1018	0.1736	0.1018	0.1736	0.1018

Area with crop, ha

Year	Area with crop, ha
Year 1	0.77
Year 2	0.19
Year 3	0.05
Year 4	0.02
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	1.35

Possible additional non IPCC N2O-N emissions

Value	Kind of source	Total IPCC and non IPCC N2O
0.0000	Current crops	5.68
0.00	Total anthropogenic	5.68
1.00	Total including natural	6.72
		3.33
		3.33
		4.37

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Crop use & leach 1/0 1/0 1/0 1/0
AND CONTINUING WITH GREEN MANURE HIGH N TO PRODUCE Winter Rape Seed For PPO/Biodiesel and Winter Wheat For Cattle Dairy

Year Fertilizer/manure # Store Amounts Field 1/0 Or-ganic 1/0 Nnorm propor-tion, % Name # Crop use & leach Use # Name Fed Food #72 #71/ #71/ #72 #8 #9 Fuel/ other #9 Manure handling # Final N a- mounts N2O-N emission IPCC 2006
Year 1-10 N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach
Year 1 1 0 100.0 2.2 NON 0 100 229 1.113 YES 97.8 71 0.0 0.0 71.3 0.0 14.5 71 0.0 0.0 0.0 0.0 14.5 71 34.2 34.0
Year 2 1 0 100.0 1.022 1.000 1.000 1.113 0.271 14.5 12.0 N crop 0.84 0.0 Green 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 47
Year 3 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 4 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 49
Year 5 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 6 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 7 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 8 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 9 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 10 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
TOTAL 10 0.0185 0.0131 0.0309 TOTAL N AMOUNTS IN KG AND % LEACHED 35.1 34.9 100.0
RATIO OF N2O-N TO N IN FIRST CROP 34.2 34.0
ACCORDING TO IPCC 1996 0.1016
TOTAL 0.0416 0.0309 TOTAL N AMOUNTS IN KG AND % LEACHED 100.5 100.0

N2O-N in food/beverage/fuel/other
Year N Voi/NH3 N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach N leach
Year 1 1 0 100.0 2.2 NON 0 100 229 1.113 YES 97.8 71 0.0 0.0 71.3 0.0 14.5 71 0.0 0.0 0.0 0.0 14.5 71 1.26 1.58 1.02 1.13 Note 47
Year 2 1 0 100.0 1.022 1.000 1.000 1.113 0.271 14.5 12.0 N crop 0.84 0.0 Green 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 3 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 49
Year 4 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 5 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 6 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 7 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 8 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 9 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
Year 10 1 0 100.0 0.933 1.000 1.000 1.113 0.271 14.5 12.0 high N 0.71 3.0 High 0.0 0.0 0.30 0.0000 0.09 0.0000 Note 48
TOTAL 10 0.0185 0.0131 0.0309 TOTAL N AMOUNTS IN KG AND % LEACHED 35.1 34.9 100.0
RATIO OF N2O-N TO N IN FIRST CROP 34.2 34.0
ACCORDING TO IPCC 1996 0.1016
TOTAL 0.0416 0.0309 TOTAL N AMOUNTS IN KG AND % LEACHED 100.5 100.0

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 0.77 0.41 0.13 0.06 0.01 0.00 0.00 0.00 0.00 0.00 1.40 1.81 Note 50
Possible additional non IPCC N2O-N emissions Value 0.0000 Kind of source
N residues emissions, ratio of N2O-N to N: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Current crops 3.57 2.65 Note 51
Increased soil N emissions, kg N2O-N/ha: 1.00 0.77 0.41 0.13 0.06 0.01 0.00 0.00 0.00 0.00 0.00 0.00 Total anthropogenic 3.57 2.65 Note 51
Natural background emissions, kg N2O-N/ha: 1.00 0.77 0.41 0.13 0.06 0.01 0.00 0.00 0.00 0.00 0.00 0.00 Total including natural 4.97 4.04 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Fuel/ N2O-N emission
 AND CONTINUING WITH GREEN MANURE LOW N TO PRODUCE benefit used & leach use # Uses #21-61 IPCC 1996
 WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR #71/ #72 #73 #74 #75 #76 #77 #78 #79 #80 #81 #82 #83 #84 #85 #86 #87 #88 #89 #90 #91 #92 #93 #94 #95 #96 #97 #98 #99 #100

Year	Fertilizer/manure #	Store	Amounts	Field	Or-ganic	Nnorm	Crop	Straw	use &	leach	Use #	Food	N crop	Fuel/	Manure	Final	N2O-N emission
Name	1/0	1/0	Name	1/0	1/0	1/0	1/0	1/0	1/0	1/0	Name	Fed	#72	#8	#9	handling	IPCC 1996
Total N	1	0	100.0	100.0	0	100	229	1	1	97.8	72	0.0	71.3	0.0	14.5	28.3	2.22
Year N NH3	NO	0.0	2.2	NON	100.00	WRB	1.113	YES	12.0	N crop	0.84	0.0	Green	0.0	71.3	71.3	1.26
1-10 N leach	1.022	1.000	ORG	1.00	1.113	14.5	0.271	14.5	12.0	low N	72	0.0	3.0	Low	0.0	0.0	0.02
Year N NH3	Green	NO	0.0	71.3	0	100	11	0	1	53.5	21	4.3	0.0	0.0	5.9	21	0.30
N leach	Low	1.000	ORG	1.00	1.000	17.8	1.000	YES	29.2	Cattle	0.67	0.0	0.0	0.0	14.0	14.0	0.75
Year N NH3	Cattle	NO	0.0	13.1	0	100	11	0	1	9.8	21	1.4	0.0	0.0	1.1	21	0.19
N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.657	5.9	29.2	Dairy	2	0.0	0.0	0.0	5.8	Liquid	0.73
Year N NH3	Liquid	NO	0.0	3.3	NON	100.00	WWH	1.000	YES	2.8	Cattle	0.67	0.0	0.0	0.0	Cattle	0.04
N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.400	1.1	2.8	Dairy	2	0.0	0.0	0.0	1.1	Liquid	0.07
Year N NH3	Cattle	NO	0.0	4.2	0	100	1	0	1	3.2	21	1.8	0.4	0.0	0.4	21	0.04
N leach	Liquid	0.933	1.016	ORG	1.00	1.000	1.000	YES	1.0	Cattle	0.65	0.0	0.0	0.0	0.0	Cattle	0.01
Year N NH3	Liquid	NO	0.0	1.3	0	100	10	0	1	1.0	Dairy	2	0.0	0.0	0.3	Liquid	0.03
N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.443	0.4	1.0	Dairy	2	0.0	0.0	0.0	0.1	Liquid	0.01
Year N NH3	Cattle	NO	0.0	0.3	NON	100.00	WBA	1.000	YES	0.3	Cattle	0.66	0.0	0.0	0.0	Cattle	0.00
N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.444	0.1	0.3	Dairy	2	0.0	0.0	0.0	0.1	Liquid	0.01
Year N NH3	Cattle	NO	0.0	0.4	0	100	229	1	1	0.3	72	0.0	0.2	0.0	0.0	72	0.00
N leach	Liquid	0.933	1.016	ORG	1.00	1.113	1.113	YES	0.1	N crop	0.84	0.0	0.0	0.0	0.0	Green	0.00
Year N NH3	Green	NO	0.0	0.2	0	100	11	0	1	0.1	low N	72	0.0	0.0	0.0	Low	0.00
N leach	Liquid	0.933	1.000	ORG	1.00	1.000	0.335	0.0	0.1	low N	2	0.0	0.0	0.0	0.0	Low	0.00
Year N NH3	Green	NO	0.0	0.0	0.0	NON	100.00	WWH	1.000	YES	0.67	0.0	0.0	0.0	0.0	Cattle	0.00
N leach	Low	0.533	1.000	ORG	1.00	1.000	0.657	0.0	0.1	Dairy	2	0.0	0.0	0.0	0.0	Liquid	0.00
Year N NH3	Cattle	NO	0.0	0.0	0.0	NON	100.00	WWH	1.000	YES	0.67	0.0	0.0	0.0	0.0	Cattle	0.00
N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.400	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	Liquid	0.00
Year N NH3	Cattle	NO	0.0	0.0	0.0	NON	100.00	SBA	1.000	YES	0.65	0.0	0.0	0.0	0.0	Cattle	0.00
N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.443	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	Liquid	0.00
Year N NH3	Cattle	NO	0.0	0.0	0.0	NON	100.00	WBA	1.000	YES	0.66	0.0	0.0	0.0	0.0	Cattle	0.00
N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.444	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	Liquid	0.00

N2O-N in food/beverage/fuel/other

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	1.13	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.13	1.46
2	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	1.58
3	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.02
4	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.02
5	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01
6	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
7	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
8	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
9	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
10	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
Total	2.48	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	2.48	3.62

Possible additional non IPCC N2O-N emissions
 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

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND NOTHING FOR FOOD FOOD

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

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED										85.8
Year 1-10 N leach	ACCORDING TO FIRST YEAR TOTAL										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										2.2
	IPCC 1996 0.0185										IPCC 2006 0.0131										2.2
	IPCC 1996 0.0185										IPCC 2006 0.0131										12.0
	TOTAL										TOTAL N AMOUNTS IN KG AND %										100.0

Year	N	1	0	100.0	2.2	NON	100.00	WRB	1.113	YES	1	1	97.8	8	0.0	0.0	71.3	14.5	0	85.8
Year 1	Vol/NH3	N	NO	100.0	0.0	NON	100.00	WRB	1.113	YES	1	1	12.0	Food/	0.84	0.0	0.0	0.0	NONE	0.0
	N leach			1.022	1.000	ORG	1.00	1.113	0.271	14.5			12.0	beverage	8	0.0	0.0	3.0		0.02
Year 2	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	YES	0	1	0.0	Food/	0.67	0.0	0.0	0.0	NONE	0.0
	N leach			1.000	1.000	ORG	1.00	1.000	0.357	0.0	0	1	0.0	beverage	8	0.0	0.0	0.0		0.00
Year 3	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	YES	0	1	0.0	Food/	0.67	0.0	0.0	0.0	NONE	0.0
	N leach			1.000	1.000	ORG	1.00	1.000	0.357	0.0	0	1	0.0	beverage	8	0.0	0.0	0.0		0.00
Year 4	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	YES	0	1	0.0	Food/	0.65	0.0	0.0	0.0	NONE	0.0
	N leach			1.000	1.000	ORG	1.00	1.000	0.403	0.0	0	1	0.0	beverage	8	0.0	0.0	0.0		0.00
Year 5	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	YES	0	1	0.0	Food/	0.66	0.0	0.0	0.0	NONE	0.0
	N leach			1.000	1.000	ORG	1.00	1.000	0.404	0.0	0	1	0.0	beverage	8	0.0	0.0	0.0		0.00
Year 6	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	YES	1	1	0.0	Food/	0.84	0.0	0.0	0.0	NONE	0.0
	N leach			1.000	1.000	ORG	1.00	1.113	1.113	YES	1	1	0.0	beverage	8	0.0	0.0	0.0		0.00
Year 7	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	YES	0	1	0.0	Food/	0.67	0.0	0.0	0.0	NONE	0.0
	N leach			1.000	1.000	ORG	1.00	1.000	0.357	0.0	0	1	0.0	beverage	8	0.0	0.0	0.0		0.00
Year 8	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	YES	0	1	0.0	Food/	0.67	0.0	0.0	0.0	NONE	0.0
	N leach			1.000	1.000	ORG	1.00	1.000	0.357	0.0	0	1	0.0	beverage	8	0.0	0.0	0.0		0.00
Year 9	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	YES	0	1	0.0	Food/	0.65	0.0	0.0	0.0	NONE	0.0
	N leach			1.000	1.000	ORG	1.00	1.000	0.403	0.0	0	1	0.0	beverage	8	0.0	0.0	0.0		0.00
Year 10	Vol/NH3	None	NO	0.0	0.0	NON	100.00	NO	1.000	YES	0	1	0.0	Food/	0.66	0.0	0.0	0.0	NONE	0.0
	N leach			1.000	1.000	ORG	1.00	1.000	0.404	0.0	0	1	0.0	beverage	8	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 0.77 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.77 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 1.58

Kind of source Current crops

Total anthropogenic 1.58

Total including natural 2.35

Note 43 Note 43

Note 44 Note 44

Note 44 Note 44

Note 45 Note 45

Note 45 Note 45

Note 46 Note 46

Note 47 Note 47

Note 48 Note 48

Note 49 Note 49

Note 49 Note 49

Note 47 Note 47

Note 48 Note 48

Note 49 Note 49

Note 47 Note 47

Note 48 Note 48

Note 49 Note 49

Note 47 Note 47

Note 48 Note 48

Note 49 Note 49

Note 50 Note 50

Note 51 Note 51

Note 51 Note 51

Note 51 Note 51

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE

Year Fertilizer/manure # Store Amounts Field Name 1/0 Store 1/0 Fertilizer/manure # Store Amounts Field Name 1/0

Year N NH3 N leach N NH3 N leach N NH3 N leach N NH3 N leach N NH3 N leach N NH3 N leach N NH3 N leach N NH3 N leach N NH3 N leach N NH3 N leach

Year 1 2 3 4 5 6 7 8 9 10

Year 1 2 3 4 5 6 7 8 9 10

Year 1 2 3 4 5 6 7 8 9 10

Year 1 2 3 4 5 6 7 8 9 10

Year 1 2 3 4 5 6 7 8 9 10

Year 1 2 3 4 5 6 7 8 9 10

Year 1 2 3 4 5 6 7 8 9 10

Year 1 2 3 4 5 6 7 8 9 10

Year 1 2 3 4 5 6 7 8 9 10

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Use Fodder: N crop Food/ Fuel/ Manure Final N2O-N emission
 AND CONTINUING WITH NO MANURE TO PRODUCE benefit used & leach use # Uses #21-61 #71/ bev other handling N a- IPCC 1996
 WASTE, DUMPED ELSEWHERE WITHOUT LEACHING WASTE, DUMPED ELSEWHERE

Year Fertilizer/manure Or- Nnorm Crop Cereal Straw Crop Use Fodder: N crop Food/ Fuel/ Manure Final N2O-N emission
 # Store Amounts ganic propor # Name # benefit used & leach use # Uses #21-61 #71/ bev other handling N a- IPCC 1996
 Name 1/0 Store Field 1/0 Name 1/0 Name 1/0 Name Fed Food #72 #8 #9 # Name mounts Each Total Each Total

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	85.8	85.8	1.26	1.58	1.02	1.13	Note 45	
Year N NH3	IPCC 1996										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.2	2.2	0.02	0.02	0.02	0.02	0.02	Note 45
1-10 N leach	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED	12.0	12.0	0.30	0.30	0.09	0.09	0.09	Note 45
TOTAL	TOTAL										TOTAL N AMOUNTS IN KG AND %	100.0	100.0						Note 45

N2O-N in food/beverage/fuel/other

Year	N	Vol/NH3	N	NO	100.0	0	100	229	1	1	97.8	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0	0.0	0.0	1.26	1.58	1.02	1.13	Note 47	
1	N leach	1.022	1.000	0.0	2.2	NON	100.00	WRB	1.113	YES	12.0	Waste	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.02	0.125	0.02	0.02	0.02	Note 48
Year	N	0	0	0.0	0.0	0	100	11	0	1	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	3.0	0	0.0	0.0	0.30	0.0000	0.09	0.0000	Note 49	
2	N leach	1.000	1.000	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.00	0.125	0.00	0.00	0.00	Note 48
Year	N	0	0	0.0	0.0	0	100	11	0	1	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
3	N leach	1.000	1.000	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.00	0.125	0.00	0.00	0.00	Note 48
Year	N	0	0	0.0	0.0	0	100	1	0	1	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
4	N leach	1.000	1.000	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.00	0.125	0.00	0.00	0.00	Note 48
Year	N	0	0	0.0	0.0	0	100	10	0	1	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
5	N leach	1.000	1.000	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.00	0.125	0.00	0.00	0.00	Note 47
Year	N	0	0	0.0	0.0	0	100	229	1	1	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
6	N leach	1.000	1.000	0.0	0.0	NON	100.00	NO	1.113	YES	0.0	Waste	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.00	0.125	0.00	0.00	0.00	Note 47
Year	N	0	0	0.0	0.0	0	100	11	0	1	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.00	0.0000	0.00	0.0000	Note 48	
7	N leach	1.000	1.000	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.00	0.125	0.00	0.00	0.00	Note 47
Year	N	0	0	0.0	0.0	0	100	11	0	1	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
8	N leach	1.000	1.000	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.00	0.125	0.00	0.00	0.00	Note 47
Year	N	0	0	0.0	0.0	0	100	1	0	1	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.00	0.0000	0.00	0.0000	Note 48	
9	N leach	1.000	1.000	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.00	0.125	0.00	0.00	0.00	Note 47
Year	N	0	0	0.0	0.0	0	100	10	0	1	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.00	0.0000	0.00	0.0000	Note 49	
10	N leach	1.000	1.000	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	None	0	0.0	0.00	0.125	0.00	0.00	0.00	Note 48
Year	N	0	0	0.0	0.0	0	100	1.000	0.404	0.0	0.0	moved	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.00	0.0000	0.00	0.0000	Note 49	

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

Area with crop, ha 0.77 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.77 1.00

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 1.58
 Total anthropogenic 1.58
 Total including natural 2.35
 Note 51 1.13 Note 51 1.13 Note 51 1.90 Note 51

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE TO PRODUCE Cereal benefit 1/0 Straw used 1/0 Crop use & leach Crop Name Use # Name Fed Uses #21-61 Food #72 N crop #71/ bevs other #9 Fuel/ #9 Manure handling N a- # Name mounts Final N a- mounts N2O-N emission IPCC 1996 Total Each Total N2O-N emission IPCC 2006 Total Each Total WASTE DUMPED IN FIELD AND LOST TO LEACH WASTE DUMPED IN FIELD

Year	Fertilizer/manure #	Store 1/0	Amounts Store 1/0	Field	Or-ganic 1/0	Nnorm propor-tion, %	Crop # Name	Cereal benefit 1/0	Straw used 1/0	Crop use & leach	Use # Name	Feeder: Fed Uses #21-61	Food #72	N crop #71/ bevs	other #9	Fuel/ #9	Manure handling # Name	Final N a- mounts	N2O-N emission IPCC 1996 Total	Each Total	N2O-N emission IPCC 2006 Total	Each Total	
Total N																							
Year 1-10 N leach																							
RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL IPCC 1996 0.0392 0.0194 IPCC 2006 0.0392 0.0194 TOTAL 0.0392 0.0194																							

Year	Vol/NH3 N leach	1	0	100.0	2.2 NON ORG	0	100	229	1.113 YES	1	1	97.8 Waste	0	0.0	0.0	0.0	0.0	14.5	0	71.3	1.26	3.36	1.02
Year 1																							
Year 2																							
Year 3																							
Year 4																							
Year 5																							
Year 6																							
Year 7																							
Year 8																							
Year 9																							
Year 10																							
Year																							
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	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	1.00
Possible additional non IPCC N2O-N emissions	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.36
N residues emissions, ratio of N2O-N to N:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66
Increased soil N emissions, kg N2O-N/ha:	1.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	2.43
Natural background emissions, kg N2O-N/ha:												4.14

Kind of source: Total IPCC and non IPCC N2O: 3.36
 Current crops: 1.66
 Total anthropogenic: 1.66
 Total including natural: 2.43

SUMMARY CATTLE DAIRY

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		48.55 48.02	1.94
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	25.37 25.10	0.25
1-10 N leach	0.0195	0.0163	TOTAL N AMOUNTS IN KG AND % LEACHED	27.17 26.88	0.20
TOTAL	0.0347	0.0280	TOTAL N AMOUNTS IN KG AND %	101.09 100.00	

N2O-N/N in food/beverage/fuel/other		0.0613	0.0494	Note 46
Area with crop, ha		Total/year 1		
Natural background emissions, kg N2O-N/ha:		1.18	1.53	Note 50
		1.18	4.16	3.58 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		48.19 47.67	1.95
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	23.31 23.06	0.23
1-10 N leach	0.0246	0.0162	TOTAL N AMOUNTS IN KG AND % LEACHED	29.60 29.28	0.22
TOTAL	0.0429	0.0281	TOTAL N AMOUNTS IN KG AND %	101.10 100.00	

N2O-N/N in food/beverage/fuel/other		0.0764	0.0500	Note 46
Area with crop, ha		Total/year 1		
Natural background emissions, kg N2O-N/ha:		1.16	1.50	Note 50
		1.16	4.84	3.57 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER CATTLE DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		46.40 42.22	1.94
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	24.18 22.00	0.24
1-10 N leach	0.0298	0.0163	TOTAL N AMOUNTS IN KG AND % LEACHED	39.31 35.77	0.29
TOTAL	0.0522	0.0289	TOTAL N AMOUNTS IN KG AND %	109.88 100.00	

N2O-N/N in food/beverage/fuel/other		0.0965	0.0533	Note 46
Area with crop, ha		Total/year 1		
Natural background emissions, kg N2O-N/ha:		1.05	1.35	Note 50
		1.05	5.52	3.52 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING CATTLE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		46.54 46.54	2.98
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	6.71 6.71	0.07
1-10 N leach	0.0302	0.0249	TOTAL N AMOUNTS IN KG AND % LEACHED	46.75 46.75	0.35
TOTAL	0.0538	0.0397	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other		0.0992	0.0731	Note 46
Area with crop, ha		Total/year 1		
Natural background emissions, kg N2O-N/ha:		0.97	1.25	Note 50
		0.97	5.58	4.37 Note 51

SUMMARY CATTLE BEEF

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		46.02 45.50	2.00
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	26.93 26.62	0.27
1-10 N leach	0.0195	0.0165	TOTAL N AMOUNTS IN KG AND % LEACHED	28.20 27.88	0.21
TOTAL	0.0358	0.0290	TOTAL N AMOUNTS IN KG AND %	101.16 100.00	

N2O-N/N in food/beverage/fuel/other		0.0667		0.0540	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		1.21 1.57			Note 50
		1.21		3.70	Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
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Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		45.69 45.16	2.02
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	24.71 24.43	0.25
1-10 N leach	0.0249	0.0164	TOTAL N AMOUNTS IN KG AND % LEACHED	30.77 30.42	0.23
TOTAL	0.0445	0.0291	TOTAL N AMOUNTS IN KG AND %	101.17 100.00	

N2O-N/N in food/beverage/fuel/other		0.0836		0.0546	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		1.18 1.53			Note 50
		1.05		3.68	Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER CATTLE DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
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Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		43.97 39.79	2.00
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	25.53 23.11	0.26
1-10 N leach	0.0304	0.0164	TOTAL N AMOUNTS IN KG AND % LEACHED	40.99 37.10	0.31
TOTAL	0.0543	0.0298	TOTAL N AMOUNTS IN KG AND %	110.49 100.00	

N2O-N/N in food/beverage/fuel/other		0.1058		0.0582	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		1.06 1.38			Note 50
		1.06		3.62	Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING CATTLE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
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Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		44.17 44.17	3.10
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	6.98 6.98	0.07
1-10 N leach	0.0307	0.0254	TOTAL N AMOUNTS IN KG AND % LEACHED	48.85 48.85	0.37
TOTAL	0.0559	0.0413	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other		0.1086		0.0801	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.98 1.27			Note 50
		0.98		4.52	Note 51

SUMMARY PIG PORK

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID PIG MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		57.62	1.65
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	21.59	0.22
1-10 N leach	0.0195	0.0159	TOTAL N AMOUNTS IN KG AND % LEACHED	20.79	0.16
TOTAL	0.0295	0.0236	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other				0.0439	0.0351
Area with crop, ha		Total/year 1		1.07	1.38
Natural background emissions, kg N2O-N/ha:				1.07	3.09
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED PIG MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		55.53	1.60
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	22.51	0.23
1-10 N leach	0.0235	0.0160	TOTAL N AMOUNTS IN KG AND % LEACHED	22.98	0.17
TOTAL	0.0345	0.0233	TOTAL N AMOUNTS IN KG AND %	101.03	100.00
N2O-N/N in food/beverage/fuel/other				0.0533	0.0360
Area with crop, ha		Total/year 1		1.01	1.31
Natural background emissions, kg N2O-N/ha:				1.01	3.01
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER PIG DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		55.63	1.59
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	26.27	0.26
1-10 N leach	0.0269	0.0162	TOTAL N AMOUNTS IN KG AND % LEACHED	23.07	0.17
TOTAL	0.0389	0.0236	TOTAL N AMOUNTS IN KG AND %	104.97	100.00
N2O-N/N in food/beverage/fuel/other				0.0600	0.0363
Area with crop, ha		Total/year 1		1.01	1.31
Natural background emissions, kg N2O-N/ha:				1.01	3.03
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM ROOTING PIGS	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		59.45	2.69
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	6.03	0.06
1-10 N leach	0.0281	0.0228	TOTAL N AMOUNTS IN KG AND % LEACHED	34.52	0.26
TOTAL	0.0464	0.0351	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other				0.0670	0.0506
Area with crop, ha		Total/year 1		1.01	1.31
Natural background emissions, kg N2O-N/ha:				1.01	4.02

SUMMARY POULTRY EGGS

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		44.14	2.42
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	26.76	0.27
1-10 N leach	0.0196	0.0166	TOTAL N AMOUNTS IN KG AND % LEACHED	29.10	0.22
TOTAL	0.0353	0.0282	TOTAL N AMOUNTS IN KG AND %	100.00	100.00

N2O-N/N in food/beverage/fuel/other		0.0686	0.0548	Note 46
Area with crop, ha	Total/year 1			
Natural background emissions, kg N2O-N/ha:	1.15	1.49		Note 50
	1.15	4.17	3.57	Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		41.42	1.73
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	33.22	0.33
1-10 N leach	0.0250	0.0171	TOTAL N AMOUNTS IN KG AND % LEACHED	25.36	0.19
TOTAL	0.0389	0.0263	TOTAL N AMOUNTS IN KG AND %	100.00	100.00

N2O-N/N in food/beverage/fuel/other		0.0806	0.0545	Note 46
Area with crop, ha	Total/year 1			
Natural background emissions, kg N2O-N/ha:	1.06	1.38		Note 50
	1.06	4.40	3.32	Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER POULTRY DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		37.45	1.53
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	36.66	0.37
1-10 N leach	0.0285	0.0176	TOTAL N AMOUNTS IN KG AND % LEACHED	26.38	0.20
TOTAL	0.0400	0.0244	TOTAL N AMOUNTS IN KG AND %	100.49	100.00

N2O-N/N in food/beverage/fuel/other		0.0916	0.0558	Note 46
Area with crop, ha	Total/year 1			
Natural background emissions, kg N2O-N/ha:	0.91	1.18		Note 50
	0.91	4.34	3.00	Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM SCRAPING POULTRY	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		43.61	3.13
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	7.05	0.07
1-10 N leach	0.0311	0.0258	TOTAL N AMOUNTS IN KG AND % LEACHED	49.34	0.37
TOTAL	0.0564	0.0416	TOTAL N AMOUNTS IN KG AND %	100.00	100.00

N2O-N/N in food/beverage/fuel/other		0.1110	0.0819	Note 46
Area with crop, ha	Total/year 1			
Natural background emissions, kg N2O-N/ha:	0.98	1.27		Note 50
	0.98	5.82	4.55	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 PPO/BIODIESEL 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		39.43 35.05	2.41 5.63
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	15.79 14.04	0.16 0.16
1-10 N leach	0.0316	0.0172	TOTAL N AMOUNTS IN KG AND % LEACHED	57.26 50.91	0.43 1.43
TOTAL	0.0656	0.0350	TOTAL N AMOUNTS IN KG AND %	112.47 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other					0.0761 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		1.11			Note 50
		1.11		6.74	4.12 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING SHEEP	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		36.31 36.31	1.87 5.40
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	7.89 7.89	0.08 0.08
1-10 N leach	0.0327	0.0131	TOTAL N AMOUNTS IN KG AND % LEACHED	55.81 55.81	0.42 1.40
TOTAL	0.0630	0.0276	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other					0.0653 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		1.02			Note 50
		1.02		6.42	3.39 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER GOAT DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		30.82 27.53	2.11 5.10
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	36.64 32.73	0.37 0.37
1-10 N leach	0.0324	0.0175	TOTAL N AMOUNTS IN KG AND % LEACHED	44.49 39.74	0.33 1.11
TOTAL	0.0595	0.0328	TOTAL N AMOUNTS IN KG AND %	111.95 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other					0.0912 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		1.10			Note 50
		1.10		6.20	3.91 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING GOATS	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL 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		32.72 32.72	2.80 5.68
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	8.30 8.30	0.08 0.08
1-10 N leach	0.0335	0.0207	TOTAL N AMOUNTS IN KG AND % LEACHED	58.98 58.98	0.44 1.47
TOTAL	0.0662	0.0388	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45
N2O-N/N in food/beverage/fuel/other					0.1018 Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		1.04			Note 50
		1.04		6.72	4.37 Note 51

SUMMARY N CROP

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER GREEN MANURE HIGH N	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	HIGH N CROP CATTLE DAIRY	Note	
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		34.18	34.00	2.07
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	31.29	31.13	0.31
1-10 N leach	0.0185	0.0131	TOTAL N AMOUNTS IN KG AND % LEACHED	35.05	34.87	0.26
TOTAL	0.0416	0.0309	TOTAL N AMOUNTS IN KG AND %	100.52	100.00	

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

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:

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

Relative value of green manure, %

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER GREEN MANURE LOW N	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR	LOW N CROP CATTLE DAIRY	Note	
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		28.25	28.17	1.88
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	26.45	26.37	0.26
1-10 N leach	0.0185	0.0131	TOTAL N AMOUNTS IN KG AND % LEACHED	45.60	45.46	0.34
TOTAL	0.0422	0.0290	TOTAL N AMOUNTS IN KG AND %	100.30	100.00	

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

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:

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

Relative value of green manure, %

SUMMARY FOOD, FUEL, AND WASTE

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND NOTHING FOR FOOD FOOD Note 43 Note 43

Total N RATIO OF N2O-N TO N IN FIRST CROP IPCC 1996 0.0185 0.0185 85.77 1.26 1.58 1.02 1.13 Note 45
 Year N NH3 ACCORDING TO IPCC 2006 2.20 2.20 0.02 0.02 Note 45
 1-10 N leach FIRST YEAR 12.03 12.03 0.30 0.09 Note 45
 TOTAL 100.00 100.00 Note 45

N2O-N/N in food/beverage/fuel/other 0.0185 0.0185
 Area with crop, ha Total/year 1
 Natural background emissions, kg N2O-N/ha: 0.77 1.00 Note 50
 0.77 1.90 Note 51

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND NOTHING FOR FUEL FUEL Note 43 Note 43

Total N RATIO OF N2O-N TO N IN FIRST CROP IPCC 1996 0.0185 0.0185 85.77 1.26 1.58 1.02 1.13 Note 45
 Year N NH3 ACCORDING TO IPCC 2006 2.20 2.20 0.02 0.02 Note 45
 1-10 N leach FIRST YEAR 12.03 12.03 0.30 0.09 Note 45
 TOTAL 100.00 100.00 Note 45

N2O-N/N in food/beverage/fuel/other 0.0185 0.0185
 Area with crop, ha Total/year 1
 Natural background emissions, kg N2O-N/ha: 0.77 1.00 Note 50
 0.77 1.90 Note 51

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND NOTHING FOR WASTE DUMPED ELSEWHERE WITHOUT LEACHING WASTE, DUMPED ELSEWHERE Note 43 Note 43

Total N RATIO OF N2O-N TO N IN FIRST CROP IPCC 1996 0.0185 0.0185 85.77 1.26 1.58 1.02 1.13 Note 45
 Year N NH3 ACCORDING TO IPCC 2006 2.20 2.20 0.02 0.02 Note 45
 1-10 N leach FIRST YEAR 12.03 12.03 0.30 0.09 Note 45
 TOTAL 100.00 100.00 Note 45

N2O-N/N in food/beverage/fuel/other 0.1093 0.0779 Note 46
 Area with crop, ha Total/year 1
 Natural background emissions, kg N2O-N/ha: 0.77 1.00 Note 50
 0.77 1.90 Note 51

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND NOTHING FOR WASTE DUMPED IN FIELD AND LOST TO LEACH WASTE DUMPED IN FIELD Note 43 Note 43

Total N RATIO OF N2O-N TO N IN FIRST CROP IPCC 1996 0.0392 0.0392 14.48 1.26 3.36 1.02 1.66 Note 45
 Year N NH3 ACCORDING TO IPCC 2006 2.20 2.20 0.02 0.02 Note 45
 1-10 N leach FIRST YEAR 83.32 83.32 2.08 0.62 Note 45
 TOTAL 100.00 100.00 Note 45

N2O-N/N in food/beverage/fuel/other 0.2324 0.1148 Note 46
 Area with crop, ha Total/year 1
 Natural background emissions, kg N2O-N/ha: 0.77 1.00 Note 50
 0.77 2.43 Note 51

SUMMARY CATTLE RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0195 0.0307 0.0162 0.0254
 TOTAL 0.0347 0.0559 0.0280 0.0413

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 2.98 4.80 2.40 3.54

MIN MAX MIN MAX
 0.0613 0.1086 0.0494 0.0801

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

MIN MAX
 0.97 1.21

MIN MAX
 0.97 1.27

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

4.16 5.78 3.52 4.52

SUMMARY PIGS RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0195 0.0281 0.0159 0.0228
 TOTAL 0.0295 0.0464 0.0233 0.0351

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 2.53 3.98 2 3.01

MIN MAX MIN MAX
 0.0439 0.0670 0.0351 0.0506

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

MIN MAX
 1.01 1.07

MIN MAX
 1.01 1.07

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

3.60 5.00 3.01 4.02

SUMMARY POULTRY RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0192 0.0311 0.0154 0.0258
 TOTAL 0.0280 0.0564 0.0200 0.0416

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 2.4 4.84 1.72 3.57

MIN MAX MIN MAX
 0.0386 0.1110 0.0297 0.0819

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

MIN MAX
 0.86 1.15

MIN MAX
 0.86 1.15

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

3.38 5.82 2.58 4.55

SUMMARY SHEEP AND GOATS RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0316 0.0335 0.0131 0.0207
 TOTAL 0.0595 0.0662 0.0276 0.0388

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 5.1 5.68 2.37 3.33

MIN MAX MIN MAX
 0.1427 0.1736 0.0653 0.1018

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

MIN MAX
 1.02 1.11

MIN MAX
 1.02 1.11

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

6.20 6.74 3.39 4.37

SUMMARY FODDER RATIO OF N2O-N TO N IN FIRST CROP
 ACCORDING TO IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 FIRST YEAR 0.0192 0.0335 0.0131 0.0258
 TOTAL 0.0280 0.0662 0.0200 0.0416

N2O-N emission N2O-N emission
 IPCC 1996 IPCC 2006
 MIN MAX MIN MAX
 2.40 5.68 1.72 3.57

MIN MAX MIN MAX
 0.0386 0.1736 0.0297 0.1018

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

MIN MAX
 0.86 1.27

MIN MAX
 0.86 1.27

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

3.38 6.74 2.58 4.55