

Crop, fodder/food	WRS	WWH	WWB	WBA	RYE	TRI	SBA	SWH	OAT	MCC	MCW	GRO	GCR	CGR	GHP	GRP	CGR0	CONC	Note 1
Crop #	22	11	13	10	14	16	1	2	3	5	216	263	260	261	2520	252	2610	9999	Note 1
<NUE/e>	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	Note 16
N digestibility, food/fodder crops	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	0.87	Note 4
<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	0.11	0.04	0.11	29.21	0.00	0.00	-0.81	0.00	Note 34
<NUE/e> addition from straw	0.09	0.07	0.07	0.08	0.11	0.10	0.08	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Note 34
Recalculated N norm, kg N/ha	144	157	198	147	117	141	118	118	93	140	160	309	199	21	132	132	-87		Note 14
Crop, PPO/biodiesel/bioethanol	WRB	WWHB	WWBB	WBB	RYB	TRB	SBB	SWB	OAB	MCB									Note 1
Crop #	229	119	139	109	149	169	19	29	39	59									Note 1
<NUE/e>	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40									Note 16
N digestibility, other crop parts	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.83									Note 4
<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									Note 34
<NUE/e> addition from straw	0.09	0.07	0.07	0.08	0.11	0.10	0.08	0.05	0.07	0.00									Note 34
Recalculated N norm, kg N/ha	144	157	198	147	117	141	118	118	93	140									Note 14
<NUE/e> amounts from crop res	0.02	0.07	0.06	0.05	0.10	0.09	0.06	0.08	0.06	0.14	0.04	0.04	0.13	1.28	0.15	0.15	-0.30		Note 34
<NUE/e> amounts from N fixation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	7.97	0.00	0.00	-2.70		Note 34
Manure/ferti- lizer kind, #	None	N	Cattle manure	Pig manure	Poultry manure	Sheep manure	Goat manure	Green	low N	high N	low N	high N	low N	high N	low N	high N	low N	high N	Note 35
Manure handling	None	None	Liquid	Deep	Rooting	Deep	Scrap- litter	Deep	Scrap- litter	Deep	Scrap- litter	Deep	Scrap- litter	Deep	Scrap- litter	Deep	Scrap- litter	Deep	Note 35
#	0	1	21	22	33	34	41	42	43	44	53	54	63	64	71	72	72	0	Note 35
Manure+straw, relative	1.000	1.016	1.016	1.159	1.000	1.024	1.127	1.000	1.000	1.013	1.000	1.162	1.000	1.162	1.000	1.000	1.000	1.000	Note 36
Vol/NH3 House	0.000	0.080	0.050	0.060	0.000	0.180	0.250	0.000	0.100	0.250	0.000	0.150	0.000	0.150	0.000	0.000	0.000	0.000	Note 37
Vol/NH3 Store	0.000	0.022	0.085	0.300	0.000	0.214	0.400	0.000	0.020	0.150	0.175	0.000	0.150	0.150	0.000	0.000	0.000	0.000	Note 37
% use of field store	20				70					85									Note 38
Vol/NH3 Field	0.000	0.022	0.250	0.070	0.250	0.250	0.250	0.250	0.250	0.250	0.070	0.250	0.070	0.250	0.070	0.250	0.250	0.250	Note 37
N efficiency	0.000	1.000	0.700	0.450	0.750	0.650	0.650	0.650	0.650	0.450	0.450	0.450	0.450	0.450	0.450	0.700	0.400	0.400	Note 39
N-Vol/NH3 efficiency	1.022	0.933	0.867	0.600	0.484	1.000	0.867	0.867	0.699	0.867	0.600	0.484	0.600	0.484	0.600	0.484	0.933	0.533	Note 40
Use Kind	Waste moved in field	Cattle	Cattle	Waste	Pig	Poultry	Sheep	Goat	N crop	N crop	N crop	N crop	N crop	N crop	N crop	N crop	N crop	N crop	Fuel/ other
Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind	Kind
#	-1	0	21	22	32	42	43	51	61	71	72	72	72	72	72	72	72	72	8
Fodder to food	N eff	NON	0.264	0.227	0.418	0.510	0.241	0.142	0.096	0.096									Note 41
Fodder to food	N eff	ORG	0.264	0.146	0.269	0.328	0.272	0.142	0.096	0.096									Note 41
Fodder to food	ND eff	NON	0.351	0.310															Note 41
Fodder to food	ND eff	ORG	0.351	0.199															Note 41
Ratios of N2O-N to N according to																			
Fertilizer/manure	N	Animal	Green																Note 42
Handling/	Slurry and liquid manure	house/store	Slurry and liquid manure																Note 42
Application/field	Solid manure and deep litter	0.0125	0.0125	0.0125	0.0125	0.0100	0.0100	0.0100	0.0100	0.0100									Note 42
Grazing cattle, rooting pigs, craping poultry	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200									Note 42
Grazing, others	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100									Note 42
Volatilisation/NH3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000									Note 42
Crop residues	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000									Note 42
N fixing crops	0.0250	0.0250	0.0250	0.0250	0.0250	0.0075	0.0075	0.0075	0.0075	0.0075									Note 42
Leaching																			Note 42

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

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store

Field

Or-
ganic
1/0

Nhorm
proportion,
%

Crop
#

Straw
used
1/0

Cereal
benefit
1/0

Fodder:
Uses #21-61
Fed

N crop
#71/
#72

Food
#8

Fuel/
bev
#9

Manure
handling
#

Final
N a-
mounts

N2O-N emission
IPCC 1996

N2O-N emission
IPCC 2006

Total

Note 44
Note 44
Note 44

Total Year 1-10	N NH3 N leach	RATIO OF N2O-N TO N IN FIRST CROP										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 %									
		ACCORDING TO										IPCC 1996										IPCC 2006										24.6										24.5									
		FIRST YEAR										0.0517										0.0314										13.7										13.7									
		TOTAL										0.0671										0.0413										62.2										61.8									

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

0.1336

0.0823

Note 46

Year	N	1	1	100.0	100.0	0	100	229	1	1	97.8	21	40.0	11.8	0.0	0.0	0.0	9.0	21	28.2	1.27	2.54	1.13	1.54	Note 47
1	Vol/NH3	N	YES	0.0	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Cattle	0.84	0.0	0.0	0.0	0.0	Cattle	2.3	0.04	0.0125	0.04	0.0100	Note 48
	N leach		1.022	1.000			ORG	1.00	1.000	0.591	9.0	48.8	Dairy	2				1.9	Liquid	0.0	1.22	0.0010	0.37	0.0050	Note 49
Year	N	21	1	26.4	0	100	11		0	1	19.3	21	7.2	1.7	0.0	0.0	0.0	1.3	21	5.5	0.26	0.61	0.23	0.39	Note 47
2	Vol/NH3	Cattle	YES	0.6	0.6	6.4	NON	100.00	WWH	1.000	YES	10.8	Cattle	0.67				0.0	Cattle	0.4	0.07	0.0125	0.07	0.0100	Note 48
	N leach	Liquid	0.933	1.016			ORG	1.00	1.000	0.627	1.3	10.8	Dairy	2				1.3	Liquid	0.0	0.27	0.0010	0.08	0.0050	Note 49
Year	N	21	1	5.2	0	100	11		0	1	3.8	21	1.4	0.3	0.0	0.0	0.0	0.3	21	1.1	0.05	0.12	0.05	0.08	Note 47
3	Vol/NH3	Cattle	YES	0.1	0.1	1.3	NON	100.00	WWH	1.000	YES	2.1	Cattle	0.67				0.0	Cattle	0.1	0.01	0.0125	0.01	0.0100	Note 48
	N leach	Liquid	0.933	1.016			ORG	1.00	1.000	0.627	0.3	2.1	Dairy	2				0.3	Liquid	0.0	0.05	0.0010	0.02	0.0050	Note 49
Year	N	21	1	1.0	0	100	1		0	1	0.7	21	0.3	0.1	0.0	0.0	0.0	0.1	21	0.2	0.01	0.02	0.01	0.01	Note 47
4	Vol/NH3	Cattle	YES	0.0	0.0	0.2	NON	100.00	SBA	1.000	YES	0.4	Cattle	0.65				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016			ORG	1.00	1.000	0.627	0.1	0.4	Dairy	2				0.0	Liquid	0.0	0.01	0.0010	0.00	0.0050	Note 49
Year	N	21	1	0.2	0	100	10		0	1	0.1	21	0.1	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
5	Vol/NH3	Cattle	YES	0.0	0.0	0.0	NON	100.00	WBA	1.000	YES	0.1	Cattle	0.66				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	1	0.0	0	100	229		1	1	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3	Cattle	YES	0.0	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Cattle	0.84				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	1	0.0	0	100	11		0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
7	Vol/NH3	Cattle	YES	0.0	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	1	0.0	0	100	11		0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
8	Vol/NH3	Cattle	YES	0.0	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	1	0.0	0	100	1		0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
9	Vol/NH3	Cattle	YES	0.0	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Cattle	0.65				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	1	0.0	0	100	10		0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
10	Vol/NH3	Cattle	YES	0.0	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 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

Note 50

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

Total IPCC and non IPCC N2O

3.29

3.29

4.17

Note 51

2.03

2.03

2.91

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

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store

Field
1/0

Or-
ganic
1/0

Nhorm
proportion,
%

Crop
#

Straw
used
1/0

Cereal
benefit
1/0

Fodder:
Uses #21-61
Fed

N crop
#71/
#72

Food
#8

Fuel/
bev
#9

Manure
handling
#

Final
N a-
mounts

N2O-N emission
IPCC 1996

N2O-N emission
Each

Total

Note 44
Note 44
Note 44

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED										24.3	24.1
Year N NH3	ACCORDING TO										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										14.3	14.2
1-10 N leach	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED										62.0	61.7
	TOTAL										TOTAL N AMOUNTS IN KG AND %										100.5	100.0

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

0.1476

0.0831

Note 46

Year 1	N	1	100.0	100.0	0	100	229	1	1	97.8	21	40.0	11.8	0.0	0.0	0.0	9.0	22	28.2	1.53	2.78	1.14	1.54
	Vol/NH3	N	YES	0.0	2.2 NON	100.00	WRB	1,000	YES	48.8	Cattle	0.84					0.0	Cattle	1.4	0.04	0.0125	0.04	
	N leach		1.022	1.000	ORG	1.00	1.000	0.591	9.0	48.8	Dairy	2					1.9	Sep	0.0	1.22	0.0105	0.37	
Year 2	N	22	1	27.2	24.9	0	100	11	0	1	18.7	21	6.5	0.0	0.0	0.0	1.3	22	4.9	0.30	0.66	0.23	
	Vol/NH3	Cattle	YES	2.3	6.2 NON	100.00	WWH	1,000	YES	10.9	Cattle	0.67					0.0	Cattle	0.2	0.09	0.0125	0.09	
	N leach	Sep	0.867	1.016	ORG	1.00	1.000	0.653	1.3	10.9	Dairy	2					1.3	Sep	0.0	0.27	0.0105	0.08	
Year 3	N	22	1	4.8	4.4	0	100	11	0	1	3.3	21	1.1	0.3	0.0	0.0	0.2	22	0.9	0.05	0.12	0.04	
	Vol/NH3	Cattle	YES	0.4	1.1 NON	100.00	WWH	1,000	YES	1.9	Cattle	0.67					0.0	Cattle	0.0	0.02	0.0125	0.02	
	N leach	Sep	0.867	1.016	ORG	1.00	1.000	0.653	0.2	1.9	Dairy	2					0.2	Sep	0.0	0.05	0.0105	0.01	
Year 4	N	22	1	0.8	0.8	0	100	1	0	1	0.6	21	0.2	0.0	0.0	0.0	0.0	22	0.2	0.01	0.02	0.01	
	Vol/NH3	Cattle	YES	0.1	0.2 NON	100.00	SBA	1,000	YES	0.3	Cattle	0.65					0.0	Cattle	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1.016	ORG	1.00	1.000	0.653	0.0	0.3	Dairy	2					0.0	Sep	0.0	0.01	0.0105	0.00	
Year 5	N	22	1	0.1	0.1	0	100	10	0	1	0.1	21	0.0	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WBA	1,000	YES	0.1	Cattle	0.66					0.0	Cattle	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1.016	ORG	1.00	1.000	0.653	0.0	0.1	Dairy	2					0.0	Sep	0.0	0.00	0.0105	0.00	
Year 6	N	22	1	0.0	0.0	0	100	229	1	0	0	21	0.0	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WRB	1,000	YES	0.0	Cattle	0.84					0.0	Cattle	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1.016	ORG	1.00	1.000	0.653	0.0	0.0	Dairy	2					0.0	Sep	0.0	0.00	0.0105	0.00	
Year 7	N	22	1	0.0	0.0	0	100	11	0	1	0	21	0.0	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WWH	1,000	YES	0.0	Cattle	0.67					0.0	Cattle	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1.016	ORG	1.00	1.000	0.653	0.0	0.0	Dairy	2					0.0	Sep	0.0	0.00	0.0105	0.00	
Year 8	N	22	1	0.0	0.0	0	100	11	0	1	0	21	0.0	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WWH	1,000	YES	0.0	Cattle	0.67					0.0	Cattle	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1.016	ORG	1.00	1.000	0.653	0.0	0.0	Dairy	2					0.0	Sep	0.0	0.00	0.0105	0.00	
Year 9	N	22	1	0.0	0.0	0	100	1	0	1	0	21	0.0	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	SBA	1,000	YES	0.0	Cattle	0.65					0.0	Cattle	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1.016	ORG	1.00	1.000	0.653	0.0	0.0	Dairy	2					0.0	Sep	0.0	0.00	0.0105	0.00	
Year 10	N	22	1	0.0	0.0	0	100	10	0	1	0	21	0.0	0.0	0.0	0.0	0.0	22	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WBA	1,000	YES	0.0	Cattle	0.66					0.0	Cattle	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1.016	ORG	1.00	1.000	0.653	0.0	0.0	Dairy	2					0.0	Sep	0.0	0.00	0.0105	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

0.13

0.02

0.01

0.00

0.00

0.00

0.00

0.00

0.00

0.86

1.24

Note 50

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

Total IPCC and non IPCC N2O

3.58

3.58

4.44

Note 51

2.02

2.02

2.87

Note 51

Note 51

Note 51

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

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store
1/0

Field
1/0

Or-
ganic
1/0

Nhorm
proportion,
% Name

Crop
#

Straw
used
1/0

Cereal
benefit
1/0

Fodder:
Uses #21-61
Fed

N crop
#71/
#72

Food
#8

Fuel/
bev
#9

Manure
handling
#

Final
N a-
mounts

N2O-N emission
IPCC 1996

N2O-N emission
Each

Total

Note 44
Note 44
Note 44
Note 44

Total Year 1-10 N leach	N NH3 N leach	RATIO OF N2O-N TO N IN FIRST CROP										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 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N2O-N/N in food/beverage/fuel/other

0.1697

0.1054

Note 46

Year 1	N	1	1	100.0	100.0	0	100	229	1	1	97.8	21	40.0	11.8	0.0	0.0	0.0	9.0	24	28.2	1.81	3.05	1.57
	Vol/NH3	N	YES	0.0	2.2 NON	100.00	WRB	1.000	YES	48.8 Cattle	0.84							0.0 Cattle		0.0	0.02	0.0125	0.02
	N leach		1.022	1.000	ORG	1.00	1.000	0.591	9.0	48.8 Dairy	2						1.9 Graz		0.0	1.22	0.0200	0.37	
Year 2	N	24	1	28.2	28.2	0	100	11	0	1	26.2	21	5.1	1.2	0.0	0.0	1.8	24	3.9	0.43	0.93	0.36	
	Vol/NH3	Cattle	YES	0.0	2.0 NON	100.00	WWH	1.000	YES	19.3 Cattle	0.67						0.0 Cattle		0.0	0.02	0.0125	0.02	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	1.8	19.3 Dairy	2						1.8 Graz		0.0	0.48	0.0200	0.15	
Year 3	N	24	1	3.9	3.9	0	100	11	0	1	3.6	21	0.7	0.2	0.0	0.0	0.2	24	0.5	0.06	0.13	0.05	
	Vol/NH3	Cattle	YES	0.0	0.3 NON	100.00	WWH	1.000	YES	2.7 Cattle	0.67						0.0 Cattle		0.0	0.00	0.0125	0.00	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.2	2.7 Dairy	2						0.2 Graz		0.0	0.07	0.0200	0.02	
Year 4	N	24	1	0.5	0.5	0	100	1	0	1	0.5	21	0.1	0.0	0.0	0.0	0.0	24	0.1	0.01	0.02	0.01	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	SBA	1.000	YES	0.4 Cattle	0.65						0.0 Cattle		0.0	0.00	0.0125	0.00	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.4 Dairy	2						0.0 Graz		0.0	0.01	0.0200	0.00	
Year 5	N	24	1	0.1	0.1	0	100	10	0	1	0.1	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WBA	1.000	YES	0.1 Cattle	0.66						0.0 Cattle		0.0	0.00	0.0125	0.00	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.1 Dairy	2						0.0 Graz		0.0	0.00	0.0200	0.00	
Year 6	N	24	1	0.0	0.0	0	100	229	1	1	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WRB	1.000	YES	0.0 Cattle	0.84						0.0 Cattle		0.0	0.00	0.0125	0.00	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0 Dairy	2						0.0 Graz		0.0	0.00	0.0200	0.00	
Year 7	N	24	1	0.0	0.0	0	100	11	0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WWH	1.000	YES	0.0 Cattle	0.67						0.0 Cattle		0.0	0.00	0.0125	0.00	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0 Dairy	2						0.0 Graz		0.0	0.00	0.0200	0.00	
Year 8	N	24	1	0.0	0.0	0	100	11	0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WWH	1.000	YES	0.0 Cattle	0.67						0.0 Cattle		0.0	0.00	0.0125	0.00	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0 Dairy	2						0.0 Graz		0.0	0.00	0.0200	0.00	
Year 9	N	24	1	0.0	0.0	0	100	1	0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	SBA	1.000	YES	0.0 Cattle	0.65						0.0 Cattle		0.0	0.00	0.0125	0.00	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0 Dairy	2						0.0 Graz		0.0	0.00	0.0200	0.00	
Year 10	N	24	1	0.0	0.0	0	100	10	0	1	0.0	21	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	
	Vol/NH3	Cattle	YES	0.0	0.0 NON	100.00	WBA	1.000	YES	0.0 Cattle	0.66						0.0 Cattle		0.0	0.00	0.0125	0.00	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.806	0.0	0.0 Dairy	2						0.0 Graz		0.0	0.00	0.0200	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

0.08

0.01

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.79

1.14

Note 50

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

Total IPCC and non IPCC N2O

4.13

4.13

4.92

Note 51

2.56 Note 51

2.56 Note 51

3.36 Note 51

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

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store

Field
1/0

Or-
ganic
1/0

Nhorm
proportion,
%

Crop
#

Crop
leach

Straw
used
1/0

Cereal
benefit
1/0

Fodder:
Uses #21-61
Fed

N crop
#71/
#72

Food
#8

Fuel/
bev
#9

Manure
handling
#

Final
N a-
mounts

N2O-N emission
IPCC 1996

N2O-N emission
Each

Total

Year 44
Note 44

Year 44
Note 44

Year 44
Note 44

Year 44
Note 44

Year 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										23.2	23.1
Year N NH3	ACCORDING TO										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										14.4	14.3
1-10 N leach	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED										62.9	62.6
	TOTAL										TOTAL N AMOUNTS IN KG AND %										100.5	100.0

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

Year N	1	1	100.0	100.0	0	100	229	1	1	97.8	22	40.0	10.4	0.0	0.0	9.0	21	29.6	1.27	2.54	1.14	1.55	Note 47
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Cattle	0.84			0.0	Cattle	2.4	0.05	0.0125	0.05	0.0100	Note 48
	N leach		1.022	1.000	ORG	1.00	1.000	0.591	9.0	48.8	Beef	2				1.9	Liquid	0.0	1.22	0.0010	0.37	0.0050	Note 49
Year N	21	1	27.7	0	100	11	11	0	1	20.3	22	7.6	1.6	0.0	0.0	1.4	21	6.0	0.28	0.64	0.25	0.41	Note 47
2	Vol/NH3	Cattle	YES	0.6	6.8	NON	100.00	WWH	1.000	YES	11.3	Cattle	0.67			0.0	Cattle	0.5	0.08	0.0125	0.08	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	1.4	11.3	Beef	2				1.4	Liquid	0.0	0.28	0.0010	0.08	0.0050	Note 49
Year N	21	1	5.6	1	5.5	0	100	11	0	4.1	22	1.5	0.3	0.0	0.0	0.3	21	1.2	0.06	0.13	0.05	0.08	Note 47
3	Vol/NH3	Cattle	YES	0.1	1.4	NON	100.00	WWH	1.000	YES	2.3	Cattle	0.67			0.0	Cattle	0.1	0.02	0.0125	0.02	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.3	2.3	Beef	2				0.3	Liquid	0.0	0.06	0.0010	0.02	0.0050	Note 49
Year N	21	1	1.1	1	1.1	0	100	1	0	0.8	22	0.3	0.1	0.0	0.0	0.1	21	0.2	0.01	0.03	0.01	0.02	Note 47
4	Vol/NH3	Cattle	YES	0.0	0.3	NON	100.00	SBA	1.000	YES	0.5	Cattle	0.65			0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.1	0.5	Beef	2				0.0	Liquid	0.0	0.01	0.0010	0.00	0.0050	Note 49
Year N	21	1	0.2	0	0.2	0	100	10	0	0.2	22	0.1	0.0	0.0	0.0	0.0	21	0.1	0.00	0.01	0.00	0.00	Note 47
5	Vol/NH3	Cattle	YES	0.0	0.1	NON	100.00	WBA	1.000	YES	0.1	Cattle	0.66			0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0.1	Beef	2				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year N	21	1	0.0	0	0.0	0	100	229	1	0.0	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Cattle	0.84			0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0.0	Beef	2				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year N	21	1	0.0	0	0.0	0	100	11	0	0.0	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
7	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67			0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0.0	Beef	2				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year N	21	1	0.0	0	0.0	0	100	11	0	0.0	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
8	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67			0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0.0	Beef	2				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year N	21	1	0.0	0	0.0	0	100	1	0	0.0	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
9	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Cattle	0.65			0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0.0	Beef	2				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year N	21	1	0.0	0	0.0	0	100	10	0	0.0	22	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
10	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66			0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.627	0.0	0.0	Beef	2				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

0.69

0.16

0.03

0.01

0.00

0.00

0.00

0.00

0.00

0.00

0.89

1.29

Note 50

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

Total IPCC and non IPCC N2O

3.34

3.34

4.23

Note 51

2.06 Note 51

2.06 Note 51

2.96 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

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store

Field
1/0

Or-
ganic
1/0

Nnorm
proportion, %

Crop
#

Crop
use &
leach

Straw
used
1/0

Cereal
benefit
1/0

Fodder:
Uses #21-61

N crop
#71/

Food/
bev
#8

Fuel/
other
#9

Manure
handling

Final
N a-

N2O-N emission
IPCC 1996

N2O-N emission
IPCC 2006

Total
Total

Note 44
Note 44
Note 44
Note 44
Note 44

Total Year 1-10	N NH3 N leach	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED										21.7		20.7	
		ACCORDING TO					IPCC 1996					TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										21.4		20.4	
		FIRST YEAR					0.0624					TOTAL N AMOUNTS IN KG AND % LEACHED										61.9		59.0	
		TOTAL					0.0792					TOTAL N AMOUNTS IN KG AND %										105.0		100.0	

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

0.1789

0.0940

Note 46

Year 1	N	1	1	100.0	100.0	0	100	229	1	1	97.8	22	40.0	10.4	0.0	0.0	0.0	9.0	23	29.6	1.80	3.06	1.14	1.55	Note 47
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Cattle	0.84				0.0	Cattle	1.8	0.04	0.0125	0.04	0.0100	Note 48	
	N leach		1.022	1.000	ORG	1.00	1.000		0.591	9.0	48.8	Beef	2				1.9	Deep	0.0	1.22	0.0200	0.37	0.0050	Note 49	
Year 2	N	23	1	32.2	22.6	0	100	11	0	1	16.9	22	4.1	0.8	0.0	0.0	0.0	1.2	23	3.2	0.29	0.73	0.20	0.44	Note 47
	Vol/NH3	Cattle	YES	9.7	5.6	NON	100.00	WWH	1.000	YES	11.7	Cattle	0.67					0.0	Cattle	0.2	0.16	0.0125	0.16	0.0100	Note 48
	N leach	Deep	0.600	1.159	ORG	1.00	1.000		0.760	1.2	11.7	Beef	2				1.1	Deep	0.0	0.29	0.0200	0.09	0.0050	Note 49	
Year 3	N	23	1	3.5	2.5	0	100	11	0	1	1.8	22	0.4	0.1	0.0	0.0	0.0	0.1	23	0.4	0.03	0.08	0.02	0.05	Note 47
	Vol/NH3	Cattle	YES	1.1	0.6	NON	100.00	WWH	1.000	YES	1.3	Cattle	0.67					0.0	Cattle	0.0	0.02	0.0125	0.02	0.0100	Note 48
	N leach	Deep	0.600	1.159	ORG	1.00	1.000		0.760	0.1	1.3	Beef	2				0.1	Deep	0.0	0.03	0.0200	0.01	0.0050	Note 49	
Year 4	N	23	1	0.4	0.3	0	100	1	0	1	0.2	22	0.0	0.0	0.0	0.0	0.0	0.1	23	0.0	0.00	0.01	0.00	0.01	Note 47
	Vol/NH3	Cattle	YES	0.1	0.1	NON	100.00	SBA	1.000	YES	0.1	Cattle	0.65					0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.159	ORG	1.00	1.000		0.760	0.0	0.1	Beef	2				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 5	N	23	1	0.0	0.0	0	100	10	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66					0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.159	ORG	1.00	1.000		0.760	0.0	0.0	Beef	2				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 6	N	23	1	0.0	0.0	0	100	229	1	1	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Cattle	0.84					0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.159	ORG	1.00	1.000		0.760	0.0	0.0	Beef	2				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 7	N	23	1	0.0	0.0	0	100	11	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67					0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.159	ORG	1.00	1.000		0.760	0.0	0.0	Beef	2				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 8	N	23	1	0.0	0.0	0	100	11	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67					0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.159	ORG	1.00	1.000		0.760	0.0	0.0	Beef	2				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 9	N	23	1	0.0	0.0	0	100	1	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Cattle	0.65					0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.159	ORG	1.00	1.000		0.760	0.0	0.0	Beef	2				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 10	N	23	1	0.0	0.0	0	100	10	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66					0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.159	ORG	1.00	1.000		0.760	0.0	0.0	Beef	2				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	

Year

Area with crop, ha

0.69

0.08

0.01

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Note 50

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

Total IPCC and non IPCC N2O

3.88

3.88

4.67

Note 51

2.04

2.04

2.83

Note 51

Note 51

Note 51

Note 51

N CHAIN STARTING WITH N FERTILIZER N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE CATTLE BEEF CATTLE BEEF
AND CONTINUING WITH MANURE FROM GRAZING CATTLE AND CONTINUING WITH MANURE FROM GRAZING CATTLE WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR CATTLE BEEF

Year	Fertilizer/manure #	Store 1/0	Store	Field	Or-ganic 1/0	Nnorm propor tion, %	Crop #	Cereal benefit 1/0	Straw used 1/0	Crop use & leach	Use #	Fodder: Uses #21-61	N crop #71/	Food #72	Fuel/ bev #8	other #9	Manure handling N a-	Final	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	Total															
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP																				23.0	23.0															
	ACCORDING TO IPCC 1996																				4.6	4.6															
	FIRST YEAR																				72.4	72.4															
	TOTAL																				100.0	100.0															
TOTAL N AMOUNTS IN KG AND %																				TOTAL N AMOUNTS IN KG AND %		TOTAL N AMOUNTS IN KG AND %		TOTAL N AMOUNTS IN KG AND %		TOTAL N AMOUNTS IN KG AND %		TOTAL N AMOUNTS IN KG AND %		TOTAL N AMOUNTS IN KG AND %		TOTAL N AMOUNTS IN KG AND %		TOTAL N AMOUNTS IN KG AND %		TOTAL N AMOUNTS IN KG AND %	

N2O-N/N in food/beverage/fuel/other 0.1839 0.1145 Note 46

Year 1	N	1	100.0	100.0	0	100	229	1	1	97.8	22	40.0	10.4	0.0	0.0	9.0	24	29.6	1.84	3.08	1.59	1.98 Note 47
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Cattle	0.84	0.0	0.0	0.0	Cattle	0.0	0.02	0.0125	0.0100 Note 48	
	N leach		1.022	1.000	ORG	1.00	1.000	9.0	0.591	9.0	48.8	Beef	2	0.0	0.0	1.9	Graz	0.0	1.22	0.0200	0.0200 Note 49	
Year 2	N	24	29.6	29.6	0	100	11	0	1	27.5	22	5.3	1.1	0.0	0.0	1.9	24	4.2	0.45	0.98	0.56 Note 47	
	Vol/NH3	Cattle	YES	0.0	2.1	NON	100.00	WWH	1.000	YES	20.3	Cattle	0.67	0.0	0.0	0.0	Cattle	0.0	0.02	0.0125	0.0100 Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	1.9	0.806	1.9	20.3	Beef	2	0.0	0.0	1.9	Graz	0.0	0.51	0.0200	0.0200 Note 49	
Year 3	N	24	4.2	4.2	0	100	11	0	1	3.9	22	0.8	0.2	0.0	0.0	0.3	24	0.6	0.06	0.14	0.08 Note 47	
	Vol/NH3	Cattle	YES	0.0	0.3	NON	100.00	WWH	1.000	YES	2.9	Cattle	0.67	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.0100 Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.3	0.806	0.3	2.9	Beef	2	0.0	0.0	0.3	Graz	0.0	0.07	0.0200	0.0200 Note 49	
Year 4	N	24	0.6	0.6	0	100	1	0	1	0.6	22	0.1	0.0	0.0	0.0	0.0	24	0.1	0.01	0.02	0.01 Note 47	
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.4	Cattle	0.65	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.0100 Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.0	0.806	0.0	0.4	Beef	2	0.0	0.0	0.0	Graz	0.0	0.01	0.0200	0.0200 Note 49	
Year 5	N	24	0.1	0.1	0	100	10	0	1	0.1	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00 Note 47	
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.1	Cattle	0.66	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.0100 Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.0	0.806	0.0	0.1	Beef	2	0.0	0.0	0.0	Graz	0.0	0.00	0.0200	0.0200 Note 49	
Year 6	N	24	0.0	0.0	0	100	229	1	1	0.0	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00 Note 47	
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Cattle	0.84	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.0100 Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.0	0.806	0.0	0.0	Beef	2	0.0	0.0	0.0	Graz	0.0	0.00	0.0200	0.0200 Note 49	
Year 7	N	24	0.0	0.0	0	100	11	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00 Note 47	
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.0100 Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.0	0.806	0.0	0.0	Beef	2	0.0	0.0	0.0	Graz	0.0	0.00	0.0200	0.0200 Note 49	
Year 8	N	24	0.0	0.0	0	100	11	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00 Note 47	
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.0100 Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.0	0.806	0.0	0.0	Beef	2	0.0	0.0	0.0	Graz	0.0	0.00	0.0200	0.0200 Note 49	
Year 9	N	24	0.0	0.0	0	100	1	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00 Note 47	
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Cattle	0.65	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.0100 Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.0	0.806	0.0	0.0	Beef	2	0.0	0.0	0.0	Graz	0.0	0.00	0.0200	0.0200 Note 49	
Year 10	N	24	0.0	0.0	0	100	10	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00 Note 47	
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66	0.0	0.0	0.0	Cattle	0.0	0.00	0.0125	0.0100 Note 48	
	N leach	Graz	0.484	1.000	ORG	1.00	1.000	0.0	0.806	0.0	0.0	Beef	2	0.0	0.0	0.0	Graz	0.0	0.00	0.0200	0.0200 Note 49	

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
Kind of source
Total IPCC and non IPCC N2O
4.22
2.63 Note 51
2.63 Note 51
3.43 Note 51

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

Year

Fertilizer/manure
#

Store
Name

1/0

Store
Field

1/0

Or-
ganic

Nnorm
proportion, %

Crop
#

Crop
leach

Straw
used

1/0

Use
Name

Fodder:
Fed

Uses #21-61
Fed

N crop
#71/

Food
#72

Fuel/
bev
#8

other
#9

Manure
handling

Final
N a-

N2O-N emission
IPCC 1996

N2O-N emission
IPCC 2006

Total
Each

Total
Each

Note 43
Note 43

Note 44
Note 44

Note 44
Note 44

Total Year 1-10	N NH3 N leach	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					TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3						
		FIRST YEAR					0.0518					0.0310					TOTAL N AMOUNTS IN KG AND % LEACHED						
		TOTAL					0.0625					0.0380					TOTAL N AMOUNTS IN KG AND %						
																						29.8	29.8
																						12.4	12.4
																						57.8	57.8
																						100.0	100.0

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

0.1029

0.0625

Note 46

Year 1	N	1	1	100.0	100.0	0	100	229	1	1	97.8	32	40.0	16.7	0.0	0.0	9.0	31	23.3	1.27	2.54	1.10	1.52	Note 47	
	Vol/NH3	N	YES	0.0	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Pig	0.84			0.0	Pig	3.3	0.05	0.0125	0.05	0.0100	Note 48	
	N leach		1.022	1.000		ORG	1.00	1.000	0.591	9.0	48.8	Pork	3				1.9	Liquid	0.0	1.22	0.0010	0.37	0.0050	Note 49	
Year 2	N	31	1	20.0	11	19.5	0	100	11	0	1	14.6	32	5.8	2.4	0.0	0.0	1.0	31	3.4	0.20	0.45	0.17	0.29	Note 47
	Vol/NH3	Pig	YES	0.5	0.5	4.9	NON	100.00	WWH	1.000	YES	7.8	Pig	0.67			0.0	Pig	0.5	0.06	0.0125	0.06	0.0100	Note 48	
	N leach	Liquid	1.000	1.000		ORG	1.00	1.000	0.600	1.0	7.8	Pork	3				1.0	Liquid	0.0	0.19	0.0010	0.06	0.0050	Note 49	
Year 3	N	31	1	2.9	11	2.8	0	100	11	0	1	2.1	32	0.9	0.4	0.0	0.0	0.1	31	0.5	0.03	0.07	0.03	0.04	Note 47
	Vol/NH3	Pig	YES	0.1	0.1	0.7	NON	100.00	WWH	1.000	YES	1.1	Pig	0.67			0.0	Pig	0.1	0.01	0.0125	0.01	0.0100	Note 48	
	N leach	Liquid	1.000	1.000		ORG	1.00	1.000	0.600	0.1	1.1	Pork	3				0.1	Liquid	0.0	0.03	0.0010	0.01	0.0050	Note 49	
Year 4	N	31	1	0.4	1	0.4	0	100	1	0	1	0.3	32	0.1	0.1	0.0	0.0	0.0	31	0.1	0.00	0.01	0.00	0.01	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	0.1	NON	100.00	SBA	1.000	YES	0.2	Pig	0.65			0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Liquid	1.000	1.000		ORG	1.00	1.000	0.600	0.0	0.2	Pork	3				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year 5	N	31	1	0.1	10	0.1	0	100	10	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	31	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66			0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Liquid	1.000	1.000		ORG	1.00	1.000	0.600	0.0	0.0	Pork	3				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year 6	N	31	1	0.0	229	0.0	0	100	229	1	1	0.0	32	0.0	0.0	0.0	0.0	0.0	31	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Pig	0.84			0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Liquid	1.000	1.000		ORG	1.00	1.000	0.600	0.0	0.0	Pork	3				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year 7	N	31	1	0.0	11	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	31	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67			0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Liquid	1.000	1.000		ORG	1.00	1.000	0.600	0.0	0.0	Pork	3				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year 8	N	31	1	0.0	11	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	31	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67			0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Liquid	1.000	1.000		ORG	1.00	1.000	0.600	0.0	0.0	Pork	3				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year 9	N	31	1	0.0	1	0.0	0	100	1	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	31	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Pig	0.65			0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Liquid	1.000	1.000		ORG	1.00	1.000	0.600	0.0	0.0	Pork	3				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year 10	N	31	1	0.0	10	0.0	0	100	10	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	31	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66			0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48	
	N leach	Liquid	1.000	1.000		ORG	1.00	1.000	0.600	0.0	0.0	Pork	3				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 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

Note 50

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

Total IPCC and non IPCC N2O

3.07

3.07

3.90

Note 51

1.86

1.86

2.70

Note 51

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH SEPARATED PIG MANURE

TO PRODUCE TO PRODUCE

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR PIG PORK

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR PIG PORK

Year	Fertilizer/manure #	Store Name	Store 1/0	Amounts Field	Or-ganic 1/0	Nhorm propor tion, %	Crop #	Straw used 1/0	Use #	Fodder: Uses #21-61 Fed	N crop #71/ #72	Food #8	Fuel/ bev #9	Manure handling #	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission Each	Total	Total	Note
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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									
Year N NH3	ACCORDING TO IPCC 1996										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3									
1-10 N leach	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED									
	TOTAL										TOTAL N AMOUNTS IN KG AND %									
											28.5	28.4								

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

Year 1	N	1	1	100.0	100.0	0	100	229	1	1	97.8	32	40.0	16.7	0.0	0.0	9.0	32	23.3	1.45	2.73	1.10	1.53
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1,000	YES	48.8	Pig	0.84				0.0	Pig	4.2	0.06	0.0125	0.06	
	N leach		1.022	1,000	ORG	1.00	1,000		0.591	9.0	48.8	Pork	3				1.9	Sep	0.0	0.122	0.0105	0.37	
Year 2	N	32	1	19.5	15.4	0	100	11	0	1	11.5	32	4.0	1.7	0.0	0.0	0.8	32	2.3	0.17	0.43	0.13	
	Vol/NH3	Pig	YES	4.2	3.8	NON	100.00	WWH	1,000	YES	6.7	Pig	0.67				0.0	Pig	0.4	0.08	0.0125	0.08	
	N leach	Sep	0.867	1,024	ORG	1.00	1,000		0.653	0.8	6.7	Pork	3				0.8	Sep	0.0	0.17	0.0105	0.05	
Year 3	N	32	1	2.0	1.5	0	100	11	0	1	1.2	32	0.4	0.2	0.0	0.0	0.1	32	0.2	0.02	0.04	0.01	
	Vol/NH3	Pig	YES	0.4	0.4	NON	100.00	WWH	1,000	YES	0.7	Pig	0.67				0.0	Pig	0.0	0.01	0.0125	0.01	
	N leach	Sep	0.867	1,024	ORG	1.00	1,000		0.653	0.1	0.7	Pork	3				0.1	Sep	0.0	0.02	0.0105	0.01	
Year 4	N	32	1	0.2	0.2	0	100	1	0	1	0.1	32	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	SBA	1,000	YES	0.1	Pig	0.65				0.0	Pig	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1,024	ORG	1.00	1,000		0.653	0.0	0.1	Pork	3				0.0	Sep	0.0	0.00	0.0105	0.00	
Year 5	N	32	1	0.0	0.0	0	100	10	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WBA	1,000	YES	0.0	Pig	0.66				0.0	Pig	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1,024	ORG	1.00	1,000		0.653	0.0	0.0	Pork	3				0.0	Sep	0.0	0.00	0.0105	0.00	
Year 6	N	32	1	0.0	0.0	0	100	229	1	1	0.0	32	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WRB	1,000	YES	0.0	Pig	0.84				0.0	Pig	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1,024	ORG	1.00	1,000		0.653	0.0	0.0	Pork	3				0.0	Sep	0.0	0.00	0.0105	0.00	
Year 7	N	32	1	0.0	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WWH	1,000	YES	0.0	Pig	0.67				0.0	Pig	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1,024	ORG	1.00	1,000		0.653	0.0	0.0	Pork	3				0.0	Sep	0.0	0.00	0.0105	0.00	
Year 8	N	32	1	0.0	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WWH	1,000	YES	0.0	Pig	0.67				0.0	Pig	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1,024	ORG	1.00	1,000		0.653	0.0	0.0	Pork	3				0.0	Sep	0.0	0.00	0.0105	0.00	
Year 9	N	32	1	0.0	0.0	0	100	1	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	SBA	1,000	YES	0.0	Pig	0.65				0.0	Pig	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1,024	ORG	1.00	1,000		0.653	0.0	0.0	Pork	3				0.0	Sep	0.0	0.00	0.0105	0.00	
Year 10	N	32	1	0.0	0.0	0	100	10	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	32	0.0	0.00	0.00	0.00	
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WBA	1,000	YES	0.0	Pig	0.66				0.0	Pig	0.0	0.00	0.0125	0.00	
	N leach	Sep	0.867	1,024	ORG	1.00	1,000		0.653	0.0	0.0	Pork	3				0.0	Sep	0.0	0.00	0.0105	0.00	

Year	Year 1										Year 10 Total									
Area with crop, ha	0.69										1.13									

Possible additional non IPCC N2O-N emissions	Value	Kind of source	Total IPCC and non IPCC N2O
N residues emissions, ratio of N2O-N to N:	0.0000	Current crops	3.20
Increased soil N emissions, kg N2O-N/ha:	0.00	Total anthropogenic	3.20
Natural background emissions, kg N2O-N/ha:	1.00	Total including natural	3.99

Note 51	Note 51
1.83 Note 51	1.83 Note 51
2.61 Note 51	2.61 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND FUEL/ N2O-N emission
AND CONTINUING WITH PIG DEEP LITTER TO PRODUCE WINTER WHEAT FOR PIG PORK IPCC 1996

Year Fertilizer/manure Or- Nnorm Crop Straw Cereal Crop Crop Fuel/ N2O-N emission
Store Amounts ganic propor # use & use #71/ be v other IPCC 2006
Name 1/0 Store Field 1/0 1/0 Name Name #72 #8 #9 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									
	ACCORDING TO										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3									
	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED									
	TOTAL										TOTAL N AMOUNTS IN KG AND %									

N2O-N/N in food/beverage/fuel/other 0.1191 0.0651 Note 46

Year 1	N	1	1	100.0	100.0	0	100	229	1	1	97.8	32	40.0	16.7	0.0	0.0	9.0	33	23.3	1.59	2.89	1.09	1.53	Note 47
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Pig	0.84				0.0	Pig	5.8	0.08	0.0125	0.08	0.0100	Note 48
	N leach		1.022	1.000	ORG	1.00	1.000		0.591	9.0	48.8	Pork	3				1.9	Deep	0.0	1.22	0.0200	0.37	0.0050	Note 49
Year 2	N	33	1	19.7	11.8	0	100	11	0	1	8.9	32	3.1	1.3	0.0	0.0	0.6	33	1.8	0.14	0.39	0.10	0.25	Note 47
	Vol/NH3	Pig	YES	7.9	3.0	NON	100.00	WWH	1.000	YES	5.2	Pig	0.67				0.0	Pig	0.4	0.11	0.0125	0.11	0.0100	Note 48
	N leach	Deep	0.867	1.127	ORG	1.00	1.000		0.653	0.6	5.2	Pork	3				0.6	Deep	0.0	0.13	0.0200	0.04	0.0050	Note 49
Year 3	N	33	1	1.5	0.9	0	100	11	0	1	0.7	32	0.2	0.1	0.0	0.0	0.0	33	0.1	0.01	0.03	0.01	0.02	Note 47
	Vol/NH3	Pig	YES	0.6	0.2	NON	100.00	WWH	1.000	YES	0.4	Pig	0.67				0.0	Pig	0.0	0.01	0.0125	0.01	0.0100	Note 48
	N leach	Deep	0.867	1.127	ORG	1.00	1.000		0.653	0.0	0.4	Pork	3				0.0	Deep	0.0	0.01	0.0200	0.00	0.0050	Note 49
Year 4	N	33	1	0.1	0.1	0	100	1	0	1	0.1	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Pig	0.65				0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.867	1.127	ORG	1.00	1.000		0.653	0.0	0.0	Pork	3				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year 5	N	33	1	0.0	0.0	0	100	10	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66				0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.867	1.127	ORG	1.00	1.000		0.653	0.0	0.0	Pork	3				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year 6	N	33	1	0.0	0.0	0	100	229	1	1	0.0	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Pig	0.84				0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.867	1.127	ORG	1.00	1.000		0.653	0.0	0.0	Pork	3				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year 7	N	33	1	0.0	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67				0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.867	1.127	ORG	1.00	1.000		0.653	0.0	0.0	Pork	3				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year 8	N	33	1	0.0	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67				0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.867	1.127	ORG	1.00	1.000		0.653	0.0	0.0	Pork	3				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year 9	N	33	1	0.0	0.0	0	100	1	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Pig	0.65				0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.867	1.127	ORG	1.00	1.000		0.653	0.0	0.0	Pork	3				0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year 10	N	33	1	0.0	0.0	0	100	10	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66				0.0	Pig	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.867	1.127	ORG	1.00	1.000		0.653	0.0	0.0	Pork	3				0.0	Deep	0.0	0.00	0.0200	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 0.69 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.76 1.10 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
Kind of source
Total IPCC and non IPCC N2O
3.31
1.81 Note 51
1.81 Note 51
2.57 Note 51

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

Year

Fertilizer/manure
#

Store
1/0

Store
Amounts
Field

Or-
ganic
1/0

Nhorm
proportion,
% Name

Crop
#

Straw
used
1/0

Crop
use &
leach

Use
#

Fodder:
Uses #21-61
Fed

N crop
#71/
Food

Fuel/
bev
#8

other
#9

Manure
handling
Name

Final
N a-
mounts

N2O-N emission
IPCC 1996

N2O-N emission
Each

Total

Year 44
Note 44

Year 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										30.5	30.5
Year N NH3	ACCORDING TO										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										4.1	4.1
1-10 N leach	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED										65.4	65.4
	TOTAL										TOTAL N AMOUNTS IN KG AND %										100.0	100.0

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

Year 1	N	1	1	100.0	100.0	0	100	229	1	1	97.8	32	40.0	16.7	0.0	0.0	0.0	9.0	23.3	1.71	2.95	1.47	1.85	Note 47
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Pig	0.84					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	9.0	48.8	Pork	3					1.9	Root	0.0	0.0200	0.37	0.0200	Note 49
Year 2	N	34	1	23.3	23.3	0	100	11	0	1	21.7	32	6.1	2.5	0.0	0.0	0.0	1.5	34	3.5	0.73	0.31	0.43	Note 47
	Vol/NH3	Pig	YES	0.0	1.6	NON	100.00	WWH	1.000	YES	14.1	Pig	0.67					0.0	Pig	0.0	0.0125	0.02	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000		0.720	1.5	14.1	Pork	3					1.5	Root	0.0	0.0200	0.11	0.0200	Note 49
Year 3	N	34	1	3.5	3.5	0	100	11	0	1	3.3	32	0.9	0.4	0.0	0.0	0.0	0.2	34	0.5	0.11	0.05	0.06	Note 47
	Vol/NH3	Pig	YES	0.0	0.2	NON	100.00	WWH	1.000	YES	2.1	Pig	0.67					0.0	Pig	0.0	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000		0.720	0.2	2.1	Pork	3					0.2	Root	0.0	0.0200	0.02	0.0200	Note 49
Year 4	N	34	1	0.5	0.5	0	100	1	0	1	0.5	32	0.1	0.1	0.0	0.0	0.0	0.0	34	0.1	0.02	0.01	0.01	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.3	Pig	0.65					0.0	Pig	0.0	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000		0.720	0.0	0.3	Pork	3					0.0	Root	0.0	0.0200	0.00	0.0200	Note 49
Year 5	N	34	1	0.1	0.1	0	100	10	0	1	0.1	32	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66					0.0	Pig	0.0	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000		0.720	0.0	0.0	Pork	3					0.0	Root	0.0	0.0200	0.00	0.0200	Note 49
Year 6	N	34	1	0.0	0.0	0	100	229	1	1	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Pig	0.84					0.0	Pig	0.0	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000		0.720	0.0	0.0	Pork	3					0.0	Root	0.0	0.0200	0.00	0.0200	Note 49
Year 7	N	34	1	0.0	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67					0.0	Pig	0.0	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000		0.720	0.0	0.0	Pork	3					0.0	Root	0.0	0.0200	0.00	0.0200	Note 49
Year 8	N	34	1	0.0	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67					0.0	Pig	0.0	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000		0.720	0.0	0.0	Pork	3					0.0	Root	0.0	0.0200	0.00	0.0200	Note 49
Year 9	N	34	1	0.0	0.0	0	100	1	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Pig	0.65					0.0	Pig	0.0	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000		0.720	0.0	0.0	Pork	3					0.0	Root	0.0	0.0200	0.00	0.0200	Note 49
Year 10	N	34	1	0.0	0.0	0	100	10	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	Note 47
	Vol/NH3	Pig	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66					0.0	Pig	0.0	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000		0.720	0.0	0.0	Pork	3					0.0	Root	0.0	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
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Area with crop, ha

0.69	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	1.17
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Possible additional non IPCC N2O-N emissions

Value	Kind of source	Total IPCC and non IPCC N2O
0.0000		
0.00	0.00 Current crops	3.81
0.00	0.00 Total anthropogenic	3.81
1.00	0.81 Total including natural	4.62

N residues emissions, ratio of N2O-N to N: 2.36 Note 51

Increased soil N emissions, kg N2O-N/ha: 2.36 Note 51

Natural background emissions, kg N2O-N/ha: 3.17 Note 51

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 MEAT
POULTRY MEAT

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store

Field
1/0

Or-
ganic
1/0

Nhorm
proportion, %

Crop
#

Straw
used
1/0

Crop
leach

Use
#

Fodder:
Uses #21-61
Fed

N crop
#71/
#72

Food/
bev
#8

Fuel/
other
#9

Manure
handling
#

Final
N a-
mounts

N2O-N emission
IPCC 1996
Total

N2O-N emission
IPCC 2006
Each

Total

Note 43
Note 43

Total Year 1-10	N NH3 N leach	RATIO OF N2O-N TO N IN FIRST CROP										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 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N2O-N/N in food/beverage/fuel/other

0.0905

0.0541

Note 46

Year 1	N	1	1	100.0	100.0	0	100	229	1	1	97.8	42	40.0	20.4	0.0	0.0	9.0	41	19.6	1.26	2.52	1.09	1.50	Note 47
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Poultry	0.84				0.0	Poultry	2.0	0.04	0.0125	0.04	0.0100	Note 48
	N leach		1.022	1.000	ORG	1.00	1.000		0.591	9.0	48.8	Meat	4				1.9	Liquid	0.0	1.22	0.0010	0.37	0.0050	Note 49
Year 2	N	41	1	17.6	17.3	0	100	11	0	1	13.0	42	4.5	2.3	0.0	0.0	0.9	41	2.2	0.17	0.41	0.15	0.26	Note 47
	Vol/NH3	Poultry	YES	0.4	4.3	NON	100.00	WWH	1.000	YES	7.6	Poultry	0.67				0.0	Poultry	0.2	0.05	0.0125	0.05	0.0100	Note 48
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000		0.653	0.9	7.6	Meat	4				0.9	Liquid	0.0	0.19	0.0010	0.06	0.0050	Note 49
Year 3	N	41	1	2.0	1.9	0	100	11	0	1	1.5	42	0.5	0.3	0.0	0.0	0.1	41	0.2	0.02	0.05	0.02	0.03	Note 47
	Vol/NH3	Poultry	YES	0.0	0.5	NON	100.00	WWH	1.000	YES	0.9	Poultry	0.67				0.0	Poultry	0.0	0.01	0.0125	0.01	0.0100	Note 48
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000		0.653	0.1	0.9	Meat	4				0.1	Liquid	0.0	0.02	0.0010	0.01	0.0050	Note 49
Year 4	N	41	1	0.2	0.2	0	100	1	0	1	0.2	42	0.1	0.0	0.0	0.0	0.0	41	0.0	0.00	0.01	0.00	0.00	Note 47
	Vol/NH3	Poultry	YES	0.0	0.1	NON	100.00	SBA	1.000	YES	0.1	Poultry	0.65				0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000		0.653	0.0	0.1	Meat	4				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year 5	N	41	1	0.0	0.0	0	100	10	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Poultry	0.66				0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000		0.653	0.0	0.0	Meat	4				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year 6	N	41	1	0.0	0.0	0	100	229	1	1	0.0	42	0.0	0.0	0.0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Poultry	0.84				0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000		0.653	0.0	0.0	Meat	4				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year 7	N	41	1	0.0	0.0	0	100	11	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Poultry	0.67				0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000		0.653	0.0	0.0	Meat	4				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year 8	N	41	1	0.0	0.0	0	100	11	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Poultry	0.67				0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000		0.653	0.0	0.0	Meat	4				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year 9	N	41	1	0.0	0.0	0	100	1	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Poultry	0.65				0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000		0.653	0.0	0.0	Meat	4				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year 10	N	41	1	0.0	0.0	0	100	10	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Poultry	0.66				0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.867	1.000	ORG	1.00	1.000		0.653	0.0	0.0	Meat	4				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 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

Note 50

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

Total IPCC and non IPCC N2O

2.99

2.99

3.79

Note 51

1.79

Note 51

1.79

Note 51

2.58

Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND POULTRY MEAT Note 43

AND CONTINUING WITH POULTRY DEEP LITTER TO PRODUCE WINTER WHEAT FOR POULTRY MEAT Note 43

Year	Fertilizer/manure #	Store 1/0	Store	Field	Or-ganic 1/0	Nnorm propor tion, %	Crop #	Cereal benefit 1/0	Straw used 1/0	Crop use & leach	Use #	Fodder: Uses #21-61	N crop #71/	Food #72	Fuel/ bev #8	other #9	Manure handling N a-	Final N a-	N2O-N emission IPCC 1996	N2O-N emission Each	Total	Total	Note 44						
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED												30.9	30.9	1.59	3.10	1.15	1.70	Note 45
	ACCORDING TO IPCC 1996										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3												15.2	15.1	0.15		0.15		Note 45
	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED												54.1	54.0	1.35		0.41		Note 45
	TOTAL										TOTAL N AMOUNTS IN KG AND %												100.2	100.0					Note 45

N2O-N/N in food/beverage/fuel/other 0.1002 0.0551 Note 46

Year N	1	1	100.0	100.0	0	100	229	1	1	97.8	42	40.0	20.4	0.0	0.0	9.0	43	19.6	1.48	2.80	1.06	1.53	Note 47
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Poultry	0.84			0.0	Poultry	7.8	0.10	0.0125	0.10	0.0100	Note 48
	N leach		1.022	1.000	ORG	1.00	1.000	9.0	0.591	9.0	48.8	Meat	4			1.9	Deep	0.0	1.22	0.0200	0.37	0.0050	Note 49
Year N	43	1	11.9	9.8	0	100	11	0	1	7.4	42	1.8	0.9	0.0	0.0	0.5	43	0.9	0.11	0.29	0.08	0.17	Note 47
2	Vol/NH3	Poultry	YES	2.1	2.5	NON	100.00	WWH	1.000	YES	5.1	Poultry	0.67			0.0	Poultry	0.3	0.05	0.0125	0.05	0.0100	Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.5	0.760	0.5	5.1	Meat	4			0.5	Deep	0.0	0.13	0.0200	0.04	0.0050	Note 49
Year N	43	1	0.5	0.4	0	100	11	0	1	0.3	42	0.1	0.0	0.0	0.0	0.0	43	0.0	0.00	0.01	0.00	0.01	Note 47
3	Vol/NH3	Poultry	YES	0.1	0.1	NON	100.00	WWH	1.000	YES	0.2	Poultry	0.67			0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.2	Meat	4			0.0	Deep	0.0	0.01	0.0200	0.00	0.0050	Note 49
Year N	43	1	0.0	0.0	0	100	1	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	43	0.0	0.00	0.00	0.00	0.00	Note 47
4	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Poultry	0.65			0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Meat	4			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year N	43	1	0.0	0.0	0	100	10	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	43	0.0	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	YES	0.0	Poultry	0.66			0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Meat	4			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year N	43	1	0.0	0.0	0	100	229	1	1	0.0	42	0.0	0.0	0.0	0.0	0.0	43	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Poultry	0.84			0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Meat	4			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year N	43	1	0.0	0.0	0	100	11	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	43	0.0	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	YES	0.0	Poultry	0.67			0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Meat	4			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year N	43	1	0.0	0.0	0	100	11	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	43	0.0	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	YES	0.0	Poultry	0.67			0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Meat	4			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year N	43	1	0.0	0.0	0	100	1	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	43	0.0	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	YES	0.0	Poultry	0.65			0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Meat	4			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year N	43	1	0.0	0.0	0	100	10	0	1	0.0	42	0.0	0.0	0.0	0.0	0.0	43	0.0	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	YES	0.0	Poultry	0.66			0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Meat	4			0.0	Deep	0.0	0.00	0.0200	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 0.69 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.73 1.06 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 3.10

Note 51 1.70 Note 51

3.10 1.70 Note 51

3.83 2.44 Note 51

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

Year Fertilizer/manure # Store Amounts Store 1/0 Store Field 1/0 Or-ganic 1/0 Nnorm propor tion, % Name Crop use & leach Straw used 1/0 Cereal benefit 1/0 Fuel/ other #9 N crop #71/ #72 Food #8 Food #9 Manure handling N a- # Name mounts Final N2O-N emission IPCC 1996 IPCC 2006 N2O-N emission
Note 43 Note 43 Note 44 Note 44 Note 44

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED									
	Year N NH3	1-10 N leach	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
According to IPCC 1996			0.0571	0.0322	0.0398	0.0571	0.0322	0.0398	0.0571	0.0322	0.0398	0.0571	0.0322	0.0398	0.0571	0.0322	0.0398	0.0571	0.0322	0.0398
TOTAL			0.0694	0.0398	0.0398	0.0694	0.0398	0.0398	0.0694	0.0398	0.0398	0.0694	0.0398	0.0398	0.0694	0.0398	0.0398	0.0694	0.0398	0.0398

N2O-N/N in food/beverage/fuel/other 0.1605 0.0921 Note 46

Year	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	Vol/NH3	N	YES	1.000	2.2	NON	100.00	WRB	229	1	1	97.8	43	40.0	9.6	0.0	0.0	9.0	42	30.4
	N leach	1.022	1.000	ORG	1.00	1.000	48.8	Poultry	0.84	1.000	YES	48.8	Poultry	0.84	0.0	0.0	0.0	0.0	Poultry	7.6
Year	N	42	1	22.8	19.4	0	100	11	11	0	1	14.5	43	5.0	1.2	0.0	0.0	1.0	42	3.8
2	Vol/NH3	Poultry	YES	3.4	4.8	NON	100.00	WWH	1.000	1.000	YES	8.5	Poultry	0.67	0.67	0.0	0.0	0.0	Poultry	1.0
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	8.5	Eggs	0.653	1.0	8.5	Eggs	0.67	0.0	0.0	0.0	1.0	Sep	0.0
Year	N	42	1	2.9	2.4	0	100	11	11	0	1	1.8	43	0.6	0.2	0.0	0.0	0.1	42	0.5
3	Vol/NH3	Poultry	YES	0.4	0.6	NON	100.00	WWH	1.000	1.000	YES	1.1	Poultry	0.67	0.67	0.0	0.0	0.0	Poultry	0.1
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	1.1	Eggs	0.653	0.1	1.1	Eggs	0.67	0.0	0.0	0.0	0.1	Sep	0.0
Year	N	42	1	0.4	0.3	0	100	1	1	0	1	0.2	43	0.1	0.0	0.0	0.0	0.0	42	0.1
4	Vol/NH3	Poultry	YES	0.1	0.1	NON	100.00	SBA	1.000	1.000	YES	0.1	Poultry	0.65	0.65	0.0	0.0	0.0	Poultry	0.0
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.1	Eggs	0.653	0.0	0.1	Eggs	0.65	0.0	0.0	0.0	0.0	Sep	0.0
Year	N	42	1	0.0	0.0	0	100	10	10	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	42	0.0
5	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	1.000	YES	0.0	Poultry	0.66	0.66	0.0	0.0	0.0	Poultry	0.0
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.0	Eggs	0.653	0.0	0.0	Eggs	0.66	0.0	0.0	0.0	0.0	Sep	0.0
Year	N	42	1	0.0	0.0	0	100	229	229	1	1	0.0	43	0.0	0.0	0.0	0.0	0.0	42	0.0
6	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WRB	1.000	1.000	YES	0.0	Poultry	0.84	0.84	0.0	0.0	0.0	Poultry	0.0
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.0	Eggs	0.653	0.0	0.0	Eggs	0.84	0.0	0.0	0.0	0.0	Sep	0.0
Year	N	42	1	0.0	0.0	0	100	11	11	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	42	0.0
7	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	1.000	YES	0.0	Poultry	0.67	0.67	0.0	0.0	0.0	Poultry	0.0
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.0	Eggs	0.653	0.0	0.0	Eggs	0.67	0.0	0.0	0.0	0.0	Sep	0.0
Year	N	42	1	0.0	0.0	0	100	11	11	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	42	0.0
8	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	1.000	YES	0.0	Poultry	0.67	0.67	0.0	0.0	0.0	Poultry	0.0
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.0	Eggs	0.653	0.0	0.0	Eggs	0.67	0.0	0.0	0.0	0.0	Sep	0.0
Year	N	42	1	0.0	0.0	0	100	1	1	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	42	0.0
9	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	SBA	1.000	1.000	YES	0.0	Poultry	0.65	0.65	0.0	0.0	0.0	Poultry	0.0
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.0	Eggs	0.653	0.0	0.0	Eggs	0.65	0.0	0.0	0.0	0.0	Sep	0.0
Year	N	42	1	0.0	0.0	0	100	10	10	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	42	0.0
10	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	1.000	YES	0.0	Poultry	0.66	0.66	0.0	0.0	0.0	Poultry	0.0
	N leach	Sep	0.867	1.000	ORG	1.00	1.000	0.0	Eggs	0.653	0.0	0.0	Eggs	0.66	0.0	0.0	0.0	0.0	Sep	0.0

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 0.69 0.10 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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
Kind of source
Current crops
Total anthropogenic
Total including natural

Note 51
1.95 Note 51
1.95 Note 51
2.77 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR PPO/BIODIESEL AND FUEL/ other #9 Poultry EGGS Note 43

AND CONTINUING WITH POULTRY DEEP LITTER TO PRODUCE WINTER WHEAT FOR POULTRY EGGS Note 43

Year	Fertilizer/manure #	Store 1/0	Amounts Store	Field 1/0	Or-ganic 1/0	Nnorm propor tion, %	Crop #	Cereal benefit 1/0	Straw used 1/0	Crop use & leach	Use #	Fodder: Uses #21-61 Fed	N crop #71/ #72	Food #8	Fuel/ bev #9	Manure handling N a- #	Final N a- mounts	N2O-N emission IPCC 1996	N2O-N emission Each	Total	Total	Total	Total		
Total N	RATIO OF N2O-N TO N IN FIRST CROP																		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED					20.2	20.2
Year N NH3	ACCORDING TO IPCC 1996																		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3					22.8	22.7
1-10 N leach	FIRST YEAR																		TOTAL N AMOUNTS IN KG AND % LEACHED					57.2	57.1
TOTAL																			TOTAL N AMOUNTS IN KG AND %					100.3	100.0

N2O-N/N in food/beverage/fuel/other 0.1709 0.0934 Note 46

Year 1	N	N	1	1	100.0	100.0	0	100	229	1	1	97.8	43	40.0	9.6	0.0	0.0	9.0	43	30.4	1.61	2.97	1.09	1.60 Note 47
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Poultry	0.84					0.0	Poultry	12.1	0.14	0.0125	0.14	0.0100 Note 48
	N leach		1.022	1.000	ORG	1.00	1.000	9.0	0.591	9.0	48.8	Eggs	4					1.9	Deep	0.0	1.22	0.0200	0.37	0.0050 Note 49
Year 2	N	N	43	1	18.5	15.2	0	100	11	0	1	11.4	43	2.7	0.7	0.0	0.0	0.8	43	2.1	0.18	0.45	0.13	0.27 Note 47
	Vol/NH3	Poultry	YES	3.2	3.8	NON	100.00	WWH	1.000	YES	7.9	Poultry	0.67					0.0	Poultry	0.8	0.08	0.0125	0.08	0.0100 Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.8	0.760	0.8	7.9	Eggs	4					0.8	Deep	0.0	0.20	0.0200	0.06	0.0050 Note 49
Year 3	N	N	43	1	1.3	1.0	0	100	11	0	1	0.8	43	0.2	0.0	0.0	0.0	0.1	43	0.1	0.01	0.03	0.01	0.02 Note 47
	Vol/NH3	Poultry	YES	0.2	0.3	NON	100.00	WWH	1.000	YES	0.5	Poultry	0.67					0.0	Poultry	0.1	0.01	0.0125	0.01	0.0100 Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.1	0.760	0.1	0.5	Eggs	4					0.1	Deep	0.0	0.01	0.0200	0.00	0.0050 Note 49
Year 4	N	N	43	1	0.1	0.1	0	100	1	0	1	0.1	43	0.0	0.0	0.0	0.0	0.0	43	0.0	0.00	0.00	0.00	0.00 Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Poultry	0.65					0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100 Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Eggs	4					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050 Note 49
Year 5	N	N	43	1	0.0	0.0	0	100	10	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	43	0.0	0.00	0.00	0.00	0.00 Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Poultry	0.66					0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100 Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Eggs	4					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050 Note 49
Year 6	N	N	43	1	0.0	0.0	0	100	229	1	1	0.0	43	0.0	0.0	0.0	0.0	0.0	43	0.0	0.00	0.00	0.00	0.00 Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Poultry	0.84					0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100 Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Eggs	4					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050 Note 49
Year 7	N	N	43	1	0.0	0.0	0	100	11	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	43	0.0	0.00	0.00	0.00	0.00 Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Poultry	0.67					0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100 Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Eggs	4					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050 Note 49
Year 8	N	N	43	1	0.0	0.0	0	100	11	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	43	0.0	0.00	0.00	0.00	0.00 Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Poultry	0.67					0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100 Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Eggs	4					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050 Note 49
Year 9	N	N	43	1	0.0	0.0	0	100	1	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	43	0.0	0.00	0.00	0.00	0.00 Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Poultry	0.65					0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100 Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Eggs	4					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050 Note 49
Year 10	N	N	43	1	0.0	0.0	0	100	10	0	1	0.0	43	0.0	0.0	0.0	0.0	0.0	43	0.0	0.00	0.00	0.00	0.00 Note 47
	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Poultry	0.66					0.0	Poultry	0.0	0.00	0.0125	0.00	0.0100 Note 48
	N leach	Deep	0.600	1.013	ORG	1.00	1.000	0.0	0.760	0.0	0.0	Eggs	4					0.0	Deep	0.0	0.00	0.0200	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 0.69 0.06 0.00

Possible additional non IPCC N2O-N emissions Value 0.0000 0.00

N residues emissions, ratio of N2O-N to N: 0.00

Increased soil N emissions, kg N2O-N/ha: 1.00 0.69 0.06 0.00

Natural background emissions, kg N2O-N/ha: 1.00 0.69 0.06 0.00

Total IPCC and non IPCC N2O 3.46 1.89 Note 51 1.89 Note 51 2.64 Note 51

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

Year Fertilizer/manure # Store Amounts Store 1/0 Field 1/0 Or-ganic 1/0 Nnorm propor tion, % Name # Crop use & leach Straw used 1/0 Cereal benefit 1/0 N crop #71/ #72 Food #8 Fuel/ other #9 Manure Final handling N a- # Name mounts Each Total N2O-N emission IPCC 1996 N2O-N emission IPCC 2006 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										22.5	22.5
Year N NH3	ACCORDING TO										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										4.7	4.7
1-10 N leach	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED										72.9	72.9
	TOTAL										TOTAL N AMOUNTS IN KG AND %										100.0	100.0

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

Year N	1	1	100.0	100.0	0	100	229	1	1	97.8	43	40.0	9.6	0.0	0.0	9.0	44	30.4	1.85	3.09	1.61	2.00	Note 47
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Poultry	0.84			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	9.0	48.8	Eggs	4			1.9	Scrap	0.0	1.22	0.0200	0.37	0.0200	Note 49
Year N	44	1	30.4	30.4	0	100	11	0	1	28.2	43	5.5	1.3	0.0	0.0	1.9	44	4.1	0.46	1.00	0.39	0.57	Note 47
2	Vol/NH3	Poultry	YES	0.0	2.1	NON	100.00	WWH	1.000	YES	20.8	Poultry	0.67			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	1.9	20.8	Eggs	4			1.9	Scrap	0.0	0.52	0.0200	0.16	0.0200	Note 49
Year N	44	1	4.1	4.1	0	100	11	0	1	3.9	43	0.7	0.2	0.0	0.0	0.3	44	0.6	0.06	0.14	0.05	0.08	Note 47
3	Vol/NH3	Poultry	YES	0.0	0.3	NON	100.00	WWH	1.000	YES	2.8	Poultry	0.67			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	0.3	2.8	Eggs	4			0.3	Scrap	0.0	0.07	0.0200	0.02	0.0200	Note 49
Year N	44	1	0.6	0.6	0	100	1	0	1	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	0.0	NON	100.00	SBA	1.000	YES	0.4	Poultry	0.65			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	Scrap	0.0	0.01	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.1	0.1	0	100	10	0	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	Note 47
5	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.1	Poultry	0.66			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	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	229	1	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	Note 47
6	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Poultry	0.84			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	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	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	Note 47
7	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Poultry	0.67			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	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	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	Note 47
8	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Poultry	0.67			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	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	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	Note 47
9	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Poultry	0.65			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	Scrap	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	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	Note 47
10	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Poultry	0.66			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	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 0.00 1.15 Note 50

Possible additional non IPCC N2O-N emissions Value Kind of source Total IPCC and non IPCC N2O Note 51
N residues emissions, ratio of N2O-N to N: 0.0000 0.00 Current crops 4.25 2.65 Note 51
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 Total anthropogenic 4.25 2.65 Note 51
Natural background emissions, kg N2O-N/ha: 1.00 0.69 0.09 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.80 Total including natural 5.05 3.45 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Fodder: N crop Food/ Fuel/ N2O-N emission
AND CONTINUING WITH SHEEP DEEP LITTER TO PRODUCE benefit used leach use & # Uses #21-61 #71/ bev other IPCC 1996
SHEEP MILK/MUTTON
SHEEP MILK/MUTTON

Year Fertilizer/manure Or- Nnorm Crop Crop Straw Crop Fodder: N crop Food/ Fuel/ N2O-N emission
Store Amounts ganic propor # use & # Uses #21-61 #71/ bev other IPCC 1996
Name 1/0 Store Field 1/0 1/0 1/0 leach use & # Fed Name Food #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									
	Year	N NH3	1-10	N leach	1-10	N leach	1-10	N leach	1-10	N leach	1-10	N leach	1-10	N leach	1-10	N leach	1-10	N leach	1-10	N leach
ACCORDING TO				IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3														
FIRST YEAR				0.0637	0.0323	TOTAL N AMOUNTS IN KG AND % LEACHED														
TOTAL				0.0935	0.0473	TOTAL N AMOUNTS IN KG AND %														

N2O-N/N in food/beverage/fuel/other 0.2399 0.1213 Note 46

Year 1	N	Vol/NH3	N	1	1	100.0	100.0	0	100	229	1	1	97.8	51	40.0	5.7	0.0	0.0	9.0	53	34.3	1.83	3.12	1.15	1.59	Note 47
	N leach			YES	1.022	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Sheep	0.84			0.0	0.0	Sheep	5.1	0.07	0.0125	0.07	0.0100	Note 48
						1.000		ORG	1.00	1.000	0.591	9.0	48.8	Milk/multi	5			1.9	Deep	0.0	1.22	0.0200	0.37	0.0050	Note 49	
Year 2	N	Vol/NH3	Sheep	53	1	33.9	0	100	11		0	1	33.9	51	8.1	1.2	0.0	0.0	2.3	53	7.0	0.57	1.17	0.40	0.58	Note 47
	N leach		Deep		0.600	0.0	0.0	NON	100.00	WWH	1.000	YES	23.4	Sheep	0.67				0.0	Sheep	1.0	0.01	0.0125	0.01	0.0100	Note 48
						1.162		ORG	1.00	1.000	0.760	2.3	23.4	Milk/multi	5			2.3	Deep	0.0	0.59	0.0200	0.18	0.0050	Note 49	
Year 3	N	Vol/NH3	Sheep	53	1	6.9	0	100	11		0	1	6.9	51	1.7	0.2	0.0	0.0	0.5	53	1.4	0.12	0.24	0.08	0.12	Note 47
	N leach		Deep		0.600	0.0	0.0	NON	100.00	WWH	1.000	YES	4.8	Sheep	0.67				0.0	Sheep	0.2	0.00	0.0125	0.00	0.0100	Note 48
						1.162		ORG	1.00	1.000	0.760	0.5	4.8	Milk/multi	5			0.5	Deep	0.0	0.12	0.0200	0.04	0.0050	Note 49	
Year 4	N	Vol/NH3	Sheep	53	1	1.4	0	100	1		0	1	1.4	51	0.3	0.0	0.0	0.0	0.1	53	0.3	0.02	0.05	0.02	0.02	Note 47
	N leach		Deep		0.600	0.0	0.0	NON	100.00	SBA	1.000	YES	1.0	Sheep	0.65				0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100	Note 48
						1.162		ORG	1.00	1.000	0.760	0.1	1.0	Milk/multi	5			0.1	Deep	0.0	0.02	0.0200	0.01	0.0050	Note 49	
Year 5	N	Vol/NH3	Sheep	53	1	0.3	0	100	10		0	1	0.3	51	0.1	0.0	0.0	0.0	0.0	53	0.1	0.00	0.01	0.00	0.00	Note 47
	N leach		Deep		0.600	0.0	0.0	NON	100.00	WBA	1.000	YES	0.2	Sheep	0.66				0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100	Note 48
						1.162		ORG	1.00	1.000	0.760	0.0	0.2	Milk/multi	5			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 6	N	Vol/NH3	Sheep	53	1	0.1	0	100	229		1	1	0.1	51	0.0	0.0	0.0	0.0	0.0	53	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach		Deep		0.600	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Sheep	0.84				0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100	Note 48
						1.162		ORG	1.00	1.000	0.760	0.0	0.0	Milk/multi	5			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 7	N	Vol/NH3	Sheep	53	1	0.0	0	100	11		0	1	0.0	51	0.0	0.0	0.0	0.0	0.0	53	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach		Deep		0.600	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Sheep	0.67				0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100	Note 48
						1.162		ORG	1.00	1.000	0.760	0.0	0.0	Milk/multi	5			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 8	N	Vol/NH3	Sheep	53	1	0.0	0	100	11		0	1	0.0	51	0.0	0.0	0.0	0.0	0.0	53	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach		Deep		0.600	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Sheep	0.67				0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100	Note 48
						1.162		ORG	1.00	1.000	0.760	0.0	0.0	Milk/multi	5			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 9	N	Vol/NH3	Sheep	53	1	0.0	0	100	1		0	1	0.0	51	0.0	0.0	0.0	0.0	0.0	53	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach		Deep		0.600	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Sheep	0.65				0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100	Note 48
						1.162		ORG	1.00	1.000	0.760	0.0	0.0	Milk/multi	5			0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49	
Year 10	N	Vol/NH3	Sheep	53	1	0.0	0	100	10		0	1	0.0	51	0.0	0.0	0.0	0.0	0.0	53	0.0	0.00	0.00	0.00	0.00	Note 47
	N leach		Deep		0.600	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Sheep	0.66				0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100	Note 48
						1.162		ORG	1.00	1.000	0.760	0.0	0.0	Milk/multi	5			0.0	Deep	0.0	0.00	0.0200	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 0.69 0.13 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.85 1.23 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
4.59
2.32 Note 51
2.32 Note 51
3.17 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Fuel/ N2O-N emission
AND CONTINUING WITH MANURE FROM GRAZING SHEEP TO PRODUCE benefit used leach 1/0 1/0 1/0 IPCC 1996 IPCC 2006
SHEEP MILK/MUTTON
SHEEP MILK/MUTTON

Year Fertilizer/manure Or- Nnorm Crop Crop Fuel/ N2O-N emission
Store Amounts ganic propor # use & #71/ bev other IPCC 1996 IPCC 2006
Name 1/0 Store Field 1/0 Name 1/0 Name 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										18.4	18.4
Year N NH3	IPCC 1996 IPCC 2006										5.0	5.0
1-10 N leach	FIRST YEAR 0.0647 0.0283										76.6	76.6
	TOTAL 0.0923 0.0415										100.0	100.0

N2O-N/N in food/beverage/fuel/other 0.2465 0.1108 Note 46

Year 1	N	1	100.0	100.0	0	100	229	1	1	97.8	51	40.0	5.7	0.0	0.0	9.0	54	34.3	1.93	3.17	1.00	1.39
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1,000	YES	48.8	Sheep	0.84			0.0	Sheep	0.0	0.02	0.0125	0.02	0.0100
	N leach		1.022	1,000	ORG	1.00	1,000	9.0	0.591	48.8	Milk/multi	5				1.9	Graz	0.0	1.22	0.0200	0.37	0.0000
Year 2	N	54	34.3	0	100	11	1	1	0	31.9	51	6.2	0.9	0.0	0.0	2.2	54	5.3	0.53	1.14	0.35	0.55
	Vol/NH3	Sheep	YES	0.0	2.4	NON	100.00	WWH	1,000	YES	23.5	Sheep	0.67			0.0	Sheep	0.0	0.02	0.0125	0.02	0.0100
	N leach	Graz	0.484	1,000	ORG	1.00	1,000	2.2	0.806	23.5	Milk/multi	5				2.1	Graz	0.0	0.59	0.0200	0.18	0.0000
Year 3	N	54	5.3	0	100	11	1	1	0	4.9	51	1.0	0.1	0.0	0.0	0.3	54	0.8	0.08	0.18	0.05	0.08
	Vol/NH3	Sheep	YES	0.0	0.4	NON	100.00	WWH	1,000	YES	3.6	Sheep	0.67			0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100
	N leach	Graz	0.484	1,000	ORG	1.00	1,000	0.3	0.806	3.6	Milk/multi	5				0.3	Graz	0.0	0.09	0.0200	0.03	0.0000
Year 4	N	54	0.8	0	100	1	1	1	0	0.8	51	0.1	0.0	0.0	0.0	0.1	54	0.1	0.01	0.03	0.01	0.01
	Vol/NH3	Sheep	YES	0.0	0.1	NON	100.00	SBA	1,000	YES	0.6	Sheep	0.65			0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100
	N leach	Graz	0.484	1,000	ORG	1.00	1,000	0.1	0.806	0.6	Milk/multi	5				0.0	Graz	0.0	0.01	0.0200	0.00	0.0000
Year 5	N	54	0.1	0	100	10	10	1	0	0.1	51	0.0	0.0	0.0	0.0	0.0	54	0.0	0.00	0.00	0.00	0.00
	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WBA	1,000	YES	0.1	Sheep	0.66			0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100
	N leach	Graz	0.484	1,000	ORG	1.00	1,000	0.0	0.806	0.1	Milk/multi	5				0.0	Graz	0.0	0.00	0.0200	0.00	0.0000
Year 6	N	54	0.0	0	100	229	229	1	1	0.0	51	0.0	0.0	0.0	0.0	0.0	54	0.0	0.00	0.00	0.00	0.00
	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WRB	1,000	YES	0.0	Sheep	0.84			0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100
	N leach	Graz	0.484	1,000	ORG	1.00	1,000	0.0	0.806	0.0	Milk/multi	5				0.0	Graz	0.0	0.00	0.0200	0.00	0.0000
Year 7	N	54	0.0	0	100	11	11	0	0	0.0	51	0.0	0.0	0.0	0.0	0.0	54	0.0	0.00	0.00	0.00	0.00
	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WWH	1,000	YES	0.0	Sheep	0.67			0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100
	N leach	Graz	0.484	1,000	ORG	1.00	1,000	0.0	0.806	0.0	Milk/multi	5				0.0	Graz	0.0	0.00	0.0200	0.00	0.0000
Year 8	N	54	0.0	0	100	11	11	0	0	0.0	51	0.0	0.0	0.0	0.0	0.0	54	0.0	0.00	0.00	0.00	0.00
	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WWH	1,000	YES	0.0	Sheep	0.67			0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100
	N leach	Graz	0.484	1,000	ORG	1.00	1,000	0.0	0.806	0.0	Milk/multi	5				0.0	Graz	0.0	0.00	0.0200	0.00	0.0000
Year 9	N	54	0.0	0	100	1	1	0	0	0.0	51	0.0	0.0	0.0	0.0	0.0	54	0.0	0.00	0.00	0.00	0.00
	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	SBA	1,000	YES	0.0	Sheep	0.65			0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100
	N leach	Graz	0.484	1,000	ORG	1.00	1,000	0.0	0.806	0.0	Milk/multi	5				0.0	Graz	0.0	0.00	0.0200	0.00	0.0000
Year 10	N	54	0.0	0	100	10	10	0	0	0.0	51	0.0	0.0	0.0	0.0	0.0	54	0.0	0.00	0.00	0.00	0.00
	Vol/NH3	Sheep	YES	0.0	0.0	NON	100.00	WBA	1,000	YES	0.0	Sheep	0.66			0.0	Sheep	0.0	0.00	0.0125	0.00	0.0100
	N leach	Graz	0.484	1,000	ORG	1.00	1,000	0.0	0.806	0.0	Milk/multi	5				0.0	Graz	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 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 4.53
2.04 Note 51
2.04 Note 51
2.85 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

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store

Field
1/0

Or-
ganic
1/0

Nnorm
proportion, %

Crop
#

Straw
used
1/0

Crop
leach

Use
#

Fodder:
Uses #21-61
Fed

N crop
#71/
#72

Food
#8

Fuel/
bev
#9

Manure
handling
#

Final
N a-
mounts

N2O-N emission
IPCC 1996

N2O-N emission
Each

Total

Year 44
Note 44

Year 44
Note 44

Year 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										15.3	14.5
Year N NH3	ACCORDING TO										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										23.5	22.2
1-10 N leach	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED										67.0	63.3
	TOTAL										TOTAL N AMOUNTS IN KG AND %										105.8	100.0

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

Year	N	1	1	100.0	100.0	0	100	229	1	1	97.8	61	40.0	3.8	0.0	0.0	0.0	9.0	63	36.2	1.86	3.16	1.15	1.60	Note 47
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Goat	0.84					0.0	Goat	5.4	0.08	0.0125	0.08	0.0100	Note 48
	N leach		1.022	1.000	ORG	1.00	1.000		0.591	9.0	48.8	Milk/mea	6					1.9	Deep	4.9	1.22	0.0200	0.37	0.0050	Note 49
Year	N	63	1	35.7	30.4	0	100	11	0	1	22.8	61	5.5	0.5	0.0	0.0	0.0	1.6	63	4.9	0.39	0.92	0.27	0.52	Note 47
2	Vol/NH3	Goat	YES	5.4	7.6	NON	100.00	WWH	1.000	YES	15.7	Goat	0.67					0.0	Goat	0.7	0.14	0.0125	0.14	0.0100	Note 48
	N leach	Deep	0.600	1.162	ORG	1.00	1.000		0.760	1.6	15.7	Milk/mea	6					1.5	Deep	0.0	0.39	0.0200	0.12	0.0050	Note 49
Year	N	63	1	4.9	4.1	0	100	11	0	1	3.1	61	0.7	0.1	0.0	0.0	0.0	0.2	63	0.7	0.05	0.13	0.04	0.07	Note 47
3	Vol/NH3	Goat	YES	0.7	1.0	NON	100.00	WWH	1.000	YES	2.2	Goat	0.67					0.0	Goat	0.1	0.02	0.0125	0.02	0.0100	Note 48
	N leach	Deep	0.600	1.162	ORG	1.00	1.000		0.760	0.2	2.2	Milk/mea	6					0.2	Deep	0.0	0.05	0.0200	0.02	0.0050	Note 49
Year	N	63	1	0.7	0.6	0	100	1	0	1	0.4	61	0.1	0.0	0.0	0.0	0.0	0.0	63	0.1	0.01	0.02	0.00	0.01	Note 47
4	Vol/NH3	Goat	YES	0.1	0.1	NON	100.00	SBA	1.000	YES	0.3	Goat	0.65					0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.162	ORG	1.00	1.000		0.760	0.0	0.3	Milk/mea	6					0.0	Deep	0.0	0.01	0.0200	0.00	0.0050	Note 49
Year	N	63	1	0.1	0.1	0	100	10	0	1	0.1	61	0.0	0.0	0.0	0.0	0.0	0.0	63	0.0	0.00	0.00	0.00	0.00	Note 47
5	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Goat	0.66					0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.162	ORG	1.00	1.000		0.760	0.0	0.0	Milk/mea	6					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year	N	63	1	0.0	0.0	0	100	229	1	1	0.0	61	0.0	0.0	0.0	0.0	0.0	0.0	63	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	Goat	0.84					0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.162	ORG	1.00	1.000		0.760	0.0	0.0	Milk/mea	6					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year	N	63	1	0.0	0.0	0	100	11	0	1	0.0	61	0.0	0.0	0.0	0.0	0.0	0.0	63	0.0	0.00	0.00	0.00	0.00	Note 47
7	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Goat	0.67					0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.162	ORG	1.00	1.000		0.760	0.0	0.0	Milk/mea	6					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year	N	63	1	0.0	0.0	0	100	11	0	1	0.0	61	0.0	0.0	0.0	0.0	0.0	0.0	63	0.0	0.00	0.00	0.00	0.00	Note 47
8	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Goat	0.67					0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.162	ORG	1.00	1.000		0.760	0.0	0.0	Milk/mea	6					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year	N	63	1	0.0	0.0	0	100	1	0	1	0.0	61	0.0	0.0	0.0	0.0	0.0	0.0	63	0.0	0.00	0.00	0.00	0.00	Note 47
9	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Goat	0.65					0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.162	ORG	1.00	1.000		0.760	0.0	0.0	Milk/mea	6					0.0	Deep	0.0	0.00	0.0200	0.00	0.0050	Note 49
Year	N	63	1	0.0	0.0	0	100	10	0	1	0.0	61	0.0	0.0	0.0	0.0	0.0	0.0	63	0.0	0.00	0.00	0.00	0.00	Note 47
10	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Goat	0.66					0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Deep	0.600	1.162	ORG	1.00	1.000		0.760	0.0	0.0	Milk/mea	6					0.0	Deep	0.0	0.00	0.0200	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
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Area with crop, ha

1.19

Note 50

Possible additional non IPCC N2O-N emissions

Value

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

0.0000

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

0.00

Natural background emissions, kg N2O-N/ha:

1.00

Kind of source

Total IPCC and non IPCC N2O

4.22

2.20

Note 51

2.20

Note 51

2.20

Note 51

3.03

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

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store

Field
1/0

Or-
ganic
1/0

Nhorm
proportion, %

Crop
#

Straw
used
1/0

Crop
leach

Use
#

Fodder:
Uses #21-61
Fed

N crop
#71/
#72

Food
#8

Fuel/
bev
#9

Manure
handling
#

Final
N a-
mounts

N2O-N emission
IPCC 1996
Each

N2O-N emission
IPCC 2006
Total

Year 44
Note 44

Year 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										16.4	16.4
Year N NH3	ACCORDING TO										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										5.2	5.2
1-10 N leach	FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED										78.4	78.4
	TOTAL										TOTAL N AMOUNTS IN KG AND %										100.0	100.0

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

0.2839

0.1530

Note 46

Year N	1	1	100.0	100.0	0	100	229	1	1	97.8	61	40.0	3.8	0.0	0.0	9.0	64	36.2	1.97	3.21	1.36	1.75	Note 47
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1,000	YES	48.8	Goat	0.84			0.0	Goat	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	9.0	48.8	Milk/mea	6			1.9	Graz	0.0	1.22	0.0200	0.37	0.0100	Note 49
Year N	64	1	36.2	0	100	11	11	0	1	33.6	61	6.5	0.6	0.0	0.0	2.3	64	5.9	0.57	1.21	0.42	0.63	Note 47
2	Vol/NH3	Goat	YES	0.0	2.5	NON	100.00	WWH	1,000	YES	24.8	Goat	0.67			0.0	Goat	0.0	0.03	0.0125	0.03	0.0100	Note 48
	N leach	Graz	0.484	1,000	ORG	1.00	1,000		0.806	2.3	24.8	Milk/mea	6			2.3	Graz	0.0	0.62	0.0200	0.19	0.0100	Note 49
Year N	64	1	5.9	0	100	11	11	0	1	5.5	61	1.1	0.1	0.0	0.0	0.4	64	1.0	0.09	0.20	0.07	0.10	Note 47
3	Vol/NH3	Goat	YES	0.0	0.4	NON	100.00	WWH	1,000	YES	4.0	Goat	0.67			0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Graz	0.484	1,000	ORG	1.00	1,000		0.806	0.4	4.0	Milk/mea	6			0.4	Graz	0.0	0.10	0.0200	0.03	0.0100	Note 49
Year N	64	1	1.0	0	100	1	1	0	1	0.9	61	0.2	0.0	0.0	0.0	0.1	64	0.2	0.01	0.03	0.01	0.02	Note 47
4	Vol/NH3	Goat	YES	0.0	0.1	NON	100.00	SBA	1,000	YES	0.6	Goat	0.65			0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Graz	0.484	1,000	ORG	1.00	1,000		0.806	0.1	0.6	Milk/mea	6			0.1	Graz	0.0	0.02	0.0200	0.00	0.0100	Note 49
Year N	64	1	0.2	0	100	10	10	0	1	0.1	61	0.0	0.0	0.0	0.0	0.0	64	0.0	0.00	0.01	0.00	0.00	Note 47
5	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WBA	1,000	YES	0.1	Goat	0.66			0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Graz	0.484	1,000	ORG	1.00	1,000		0.806	0.0	0.1	Milk/mea	6			0.0	Graz	0.0	0.00	0.0200	0.00	0.0100	Note 49
Year N	64	1	0.0	0	100	229	229	1	1	0.0	61	0.0	0.0	0.0	0.0	0.0	64	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WRB	1,000	YES	0.0	Goat	0.84			0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Graz	0.484	1,000	ORG	1.00	1,000		0.806	0.0	0.0	Milk/mea	6			0.0	Graz	0.0	0.00	0.0200	0.00	0.0100	Note 49
Year N	64	1	0.0	0	100	11	11	0	1	0.0	61	0.0	0.0	0.0	0.0	0.0	64	0.0	0.00	0.00	0.00	0.00	Note 47
7	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WWH	1,000	YES	0.0	Goat	0.67			0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Graz	0.484	1,000	ORG	1.00	1,000		0.806	0.0	0.0	Milk/mea	6			0.0	Graz	0.0	0.00	0.0200	0.00	0.0100	Note 49
Year N	64	1	0.0	0	100	11	11	0	1	0.0	61	0.0	0.0	0.0	0.0	0.0	64	0.0	0.00	0.00	0.00	0.00	Note 47
8	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WWH	1,000	YES	0.0	Goat	0.67			0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Graz	0.484	1,000	ORG	1.00	1,000		0.806	0.0	0.0	Milk/mea	6			0.0	Graz	0.0	0.00	0.0200	0.00	0.0100	Note 49
Year N	64	1	0.0	0	100	1	1	0	1	0.0	61	0.0	0.0	0.0	0.0	0.0	64	0.0	0.00	0.00	0.00	0.00	Note 47
9	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	SBA	1,000	YES	0.0	Goat	0.65			0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Graz	0.484	1,000	ORG	1.00	1,000		0.806	0.0	0.0	Milk/mea	6			0.0	Graz	0.0	0.00	0.0200	0.00	0.0100	Note 49
Year N	64	1	0.0	0	100	10	10	0	1	0.0	61	0.0	0.0	0.0	0.0	0.0	64	0.0	0.00	0.00	0.00	0.00	Note 47
10	Vol/NH3	Goat	YES	0.0	0.0	NON	100.00	WBA	1,000	YES	0.0	Goat	0.66			0.0	Goat	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Graz	0.484	1,000	ORG	1.00	1,000		0.806	0.0	0.0	Milk/mea	6			0.0	Graz	0.0	0.00	0.0200	0.00	0.0100	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

0.11

0.02

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.82

1.19

Note 50

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

Total IPCC and non IPCC N2O

4.66

4.66

5.48

Note 51

2.51

2.51

3.33

Note 51

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 43
Note 43

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store

Field
1/0

Or-
ganic

Norm
proportion, %

Crop
#

Straw
used
1/0

Cereal
benefit
1/0

Fodder:
Uses #21-61

N crop
#71/

Fuel/
bev
#8

other
#9

Manure
handling

Final
N a-

N2O-N emission
IPCC 1996

N2O-N emission
IPCC 2006

Total
Each

Total
Each

Note 44
Note 44
Note 44
Note 44

Total Year 1-10	N NH3 N leach	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		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3								14.9		14.9	
		FIRST YEAR		0.0507		0.0283		TOTAL N AMOUNTS IN KG AND % LEACHED								15.7		15.7	
		TOTAL		0.0744		0.0435		TOTAL N AMOUNTS IN KG AND %								69.6		69.4	

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

0.2450

0.1432

Note 46

Year	N	1	1	100.0	100.0	0	100	229	1	1	97.8	71	0.0	0.0	40.0	0.0	9.0	71	40.0	1.25	2.49	1.00	1.39	Note 47
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	N crop	0.84				0.0	Green	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	9.0	48.8	high N	71				1.9	High	0.0	1.22	0.0000	0.37	0.0000	Note 49
Year	N	71	1	40.0	40.0	0	100	11	0	1	30.0	21	11.2	2.6	0.0	0.0	2.1	21	8.6	0.41	0.93	0.36	0.60	Note 47
2	Vol/NH3	Green	YES	0.0	10.0	NON	100.00	WWH	1.000	YES	16.7	Cattle	0.67				0.0	Cattle	0.7	0.11	0.0125	0.11	0.0100	Note 48
	N leach	High	0.933	1.000	ORG	1.00	1.000		0.627	2.1	16.7	Dairy	2				2.0	Liquid	0.0	0.42	0.0010	0.13	0.0050	Note 49
Year	N	21	1	8.0	7.8	0	100	11	0	1	5.9	21	2.2	0.5	0.0	0.0	0.4	21	1.7	0.08	0.18	0.07	0.12	Note 47
3	Vol/NH3	Cattle	YES	0.2	2.0	NON	100.00	WWH	1.000	YES	3.3	Cattle	0.67				0.0	Cattle	0.1	0.02	0.0125	0.02	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000		0.627	0.4	3.3	Dairy	2				0.4	Liquid	0.0	0.08	0.0010	0.02	0.0050	Note 49
Year	N	21	1	1.6	1.5	0	100	1	0	1	1.1	21	0.4	0.1	0.0	0.0	0.1	21	0.3	0.02	0.04	0.01	0.02	Note 47
4	Vol/NH3	Cattle	YES	0.0	0.4	NON	100.00	SBA	1.000	YES	0.6	Cattle	0.65				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000		0.627	0.1	0.6	Dairy	2				0.1	Liquid	0.0	0.02	0.0010	0.00	0.0050	Note 49
Year	N	21	1	0.3	0.3	0	100	10	0	1	0.2	21	0.1	0.0	0.0	0.0	0.0	21	0.1	0.00	0.01	0.00	0.00	Note 47
5	Vol/NH3	Cattle	YES	0.0	0.1	NON	100.00	WBA	1.000	YES	0.1	Cattle	0.66				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	1	0.1	0.1	0	100	229	1	1	0.0	71	0.0	0.0	0.0	0.0	0.0	71	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	N crop	0.84				0.0	Green	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000		0.627	0.0	0.0	high N	71				0.0	High	0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	N	71	1	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
7	Vol/NH3	Green	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	High	0.933	1.000	ORG	1.00	1.000		0.627	0.0	0.0	Dairy	2				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	1	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	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	1	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	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Cattle	0.65				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year	N	21	1	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	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 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

Note 50

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

Total IPCC and non IPCC N2O

3.65

3.65

4.63

Note 51

2.13

2.13

3.12

Note 51

Note 51

Note 51

Note 51

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 43 Note 43

Year

Fertilizer/manure #

Store 1/0

Store Amounts

Field 1/0

Or-ganic 1/0

Nnorm propor tion, %

Crop #

Straw used 1/0

Cereal benefit 1/0

Fodder: Uses #21-61

N crop #71/

Food #72

Fuel/ bev #8

Fuel/ other #9

Manure handling N a-

Final N

N2O-N emission IPCC 1996

N2O-N emission IPCC 2006

Total

Note 44 Note 44 Note 44 Note 44

Total Year 1-10	N NH3 N leach	RATIO OF N2O-N TO N IN FIRST CROP										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 %											
		IPCC 1996										IPCC 2006										13.3												14.2										13.3									
		0.0507										0.0283										72.6												72.6										72.6									
		0.0747										0.0425										100.1												100.0										100.0									

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

0.2762

0.1572

Note 46

Year 1	N	1	1	100.0	100.0	0	100	229	1	1	97.8	72	0.0	0.0	40.0	0.0	9.0	72	40.0	1.25	2.49	1.00	1.39	Note 47
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	N crop	0.84				0.0	Green	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	9.0	48.8	low N	72				1.9	Low	0.0	1.22	0.0000	0.37	0.0000	Note 49
Year 2	N	72	1	40.0	40.0	0	100	11	0	1	30.0	21	6.4	1.5	0.0	0.0	2.1	21	4.9	0.40	1.05	0.35	0.61	Note 47
	Vol/NH3	Green	YES	0.0	10.0	NON	100.00	WWH	1.000	YES	21.5	Cattle	0.67				2.0	Cattle	0.4	0.10	0.0125	0.10	0.0100	Note 48
	N leach	Low	0.533	1.000	ORG	1.00	1.000		0.787	2.1	21.5	Dairy	2				2.0	Liquid	0.0	0.54	0.0010	0.16	0.0050	Note 49
Year 3	N	21	1	4.6	4.5	0	100	11	0	1	3.4	21	1.3	0.3	0.0	0.0	0.2	21	1.0	0.05	0.11	0.04	0.07	Note 47
	Vol/NH3	Cattle	YES	0.1	1.1	NON	100.00	WWH	1.000	YES	1.9	Cattle	0.67				0.0	Cattle	0.1	0.01	0.0125	0.01	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000		0.627	0.2	1.9	Dairy	2				0.2	Liquid	0.0	0.05	0.0010	0.01	0.0050	Note 49
Year 4	N	21	1	0.9	0.9	0	100	1	0	1	0.7	21	0.2	0.1	0.0	0.0	0.1	21	0.2	0.01	0.02	0.01	0.01	Note 47
	Vol/NH3	Cattle	YES	0.0	0.2	NON	100.00	SBA	1.000	YES	0.4	Cattle	0.65				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000		0.627	0.1	0.4	Dairy	2				0.0	Liquid	0.0	0.01	0.0010	0.00	0.0050	Note 49
Year 5	N	21	1	0.2	0.2	0	100	10	0	1	0.1	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.1	Cattle	0.66				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year 6	N	21	1	0.0	0.0	0	100	229	1	1	0.0	72	0.0	0.0	0.0	0.0	0.0	72	0.0	0.00	0.00	0.00	0.00	Note 47
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WRB	1.000	YES	0.0	N crop	0.84				0.0	Green	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000		0.627	0.0	0.0	low N	72				0.0	Low	0.0	0.00	0.0000	0.00	0.0000	Note 49
Year 7	N	72	1	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
	Vol/NH3	Green	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Low	0.533	1.000	ORG	1.00	1.000		0.787	0.0	0.0	Dairy	2				0.0	Liquid	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year 8	N	21	1	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
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year 9	N	21	1	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
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Cattle	0.65				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 49
Year 10	N	21	1	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
	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66				0.0	Cattle	0.0	0.00	0.0125	0.00	0.0100	Note 48
	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	0.00	0.0010	0.00	0.0050	Note 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

Note 50

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

Total IPCC and non IPCC N2O

3.66

3.66

4.52

Note 51

2.09

2.09

2.95

Note 51

Note 51

N CHAIN STARTING WITH
AND CONTINUING WITH

N FERTILIZER
NO MANURE

TO PRODUCE
TO PRODUCE

WINTER RAPESEED FOR PPO/BIODIESEL AND
NOTHING FOR

FOOD
FOOD

Note 43
Note 43

Year

Fertilizer/manure
#

Store
Name

1/0

Store
Amounts

Field

1/0

Or-
ganic

1/0

Nnorm
proportion, %

Crop
#

Cereal
benefit

1/0

Straw
used

1/0

Fodder:
Uses #21-61

Fed

Food

#72

N crop
#71/

Fuel/
bev

Food/
#8

Fuel/
other
#9

Manure
handling

Final
N a-

N2O-N emission
IPCC 1996

N2O-N emission
IPCC 2006

Total

Note 44
Note 44
Note 44

Total Year 1-10	N NH3 N leach	RATIO OF N2O-N TO N IN FIRST CROP														TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED										49.0		49.0	
		ACCORDING TO														TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										2.2		2.2	
		FIRST YEAR														TOTAL N AMOUNTS IN KG AND % LEACHED										48.8		48.8	
		TOTAL														TOTAL N AMOUNTS IN KG AND %										100.0		100.0	

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

0.0507

0.0283

0.0283

0.0507

0.0283

Note 45
Note 45
Note 45

Year	N	1	1	100.0	100.0	0	100	229	1	1	97.8	8	0.0	0.0	0.0	40.0	9.0	0	0.0	1.25	2.49	1.00	1.39	Note 47
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Food/	0.84				0.0	NONE	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	9.0	48.8	beverage	8				1.9		0.0	1.22	0.0000	0.37	0.0000	Note 49
Year	N	0	1	0.0	0.0	0	100	11	0	1	0.0	8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
2	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Food/	0.67				0.0	NONE	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG		1.00	1.000	0.600	0.0	0.0	beverage	8				0.0		0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	N	0	1	0.0	0.0	0	100	11	0	1	0.0	8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
3	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Food/	0.67				0.0	NONE	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG		1.00	1.000	0.600	0.0	0.0	beverage	8				0.0		0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	N	0	1	0.0	0.0	0	100	1	0	1	0.0	8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
4	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Food/	0.65				0.0	NONE	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG		1.00	1.000	0.600	0.0	0.0	beverage	8				0.0		0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	N	0	1	0.0	0.0	0	100	10	0	1	0.0	8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
5	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Food/	0.66				0.0	NONE	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG		1.00	1.000	0.600	0.0	0.0	beverage	8				0.0		0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	N	0	1	0.0	0.0	0	100	229	1	1	0.0	8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Food/	0.84				0.0	NONE	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG		1.00	1.000	0.600	0.0	0.0	beverage	8				0.0		0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	N	0	1	0.0	0.0	0	100	11	0	1	0.0	8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
7	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Food/	0.67				0.0	NONE	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG		1.00	1.000	0.600	0.0	0.0	beverage	8				0.0		0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	N	0	1	0.0	0.0	0	100	11	0	1	0.0	8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
8	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Food/	0.67				0.0	NONE	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG		1.00	1.000	0.600	0.0	0.0	beverage	8				0.0		0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	N	0	1	0.0	0.0	0	100	1	0	1	0.0	8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
9	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Food/	0.65				0.0	NONE	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG		1.00	1.000	0.600	0.0	0.0	beverage	8				0.0		0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	N	0	1	0.0	0.0	0	100	10	0	1	0.0	8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00	0.00	Note 47
10	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Food/	0.66				0.0	NONE	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG		1.00	1.000	0.600	0.0	0.0	beverage	8				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

Note 50

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

Total IPCC and non IPCC N2O

2.49

2.49

3.18

Note 51

1.39

1.39

2.08

Note 51

Note 51

N CHAIN STARTING WITH
AND CONTINUING WITH

N FERTILIZER
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

Year

Fertilizer/manure
#

Store
1/0

Amounts
Store

Field

Or-
ganic
1/0

Nnorm
proportion,
%

Crop
#

Cereal
benefit
1/0

Straw
used
1/0

Crop
leach

Use
#

Fodder:
Uses #21-61
Fed

N crop
#71/
#72

Food
#8

Fuel/
bev
#9

Manure
handling
#

Final
N a-
mounts

N2O-N emission
IPCC 1996

N2O-N emission
Each

Total

Note 44
Note 44
Note 44

Total Year 1-10	N NH3 N leach	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED										1.25	2.49	1.00	1.39	Note 45	
		ACCORDING TO										TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3															
		FIRST YEAR										TOTAL N AMOUNTS IN KG AND % LEACHED															
		TOTAL										TOTAL N AMOUNTS IN KG AND %															
		IPCC 1996										IPCC 2006															
		0.0507										0.0283															
		0.0507										0.0283															

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

0.2750

0.1536

Note 46

Year 1	N	1	1	100.0	100.0	0	100	229	1	1	97.8	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0	1.00	2.49	1.00	1.39	Note 47
	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRB	1.000	YES	48.8	Waste	0.84	0					0.0	None	0	0.02	0.0125	0.02	0.0100	Note 48
	N leach		1.022	1.000	ORG	1.00	1.000		0.591	9.0	48.8	moved	0						1.9			0.37	0.0000	0.37	0.0000	Note 49
Year 2	N	0	1	0.0	0.0	0	100	11	0	1	0.0	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.00	0.00	Note 47	
	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.67	0					0.0	None	0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0						0.0			0.00	0.0000	0.00	0.0000	Note 49
Year 3	N	0	1	0.0	0.0	0	100	11	0	1	0.0	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.00	0.00	Note 47	
	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.67	0					0.0	None	0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0						0.0			0.00	0.0000	0.00	0.0000	Note 49
Year 4	N	0	1	0.0	0.0	0	100	1	0	1	0.0	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.00	0.00	Note 47	
	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.65	0					0.0	None	0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0						0.0			0.00	0.0000	0.00	0.0000	Note 49
Year 5	N	0	1	0.0	0.0	0	100	10	0	1	0.0	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.00	0.00	Note 47	
	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.66	0					0.0	None	0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0						0.0			0.00	0.0000	0.00	0.0000	Note 49
Year 6	N	0	1	0.0	0.0	0	100	229	1	1	0.0	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.00	0.00	Note 47	
	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.84	0					0.0	None	0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0						0.0			0.00	0.0000	0.00	0.0000	Note 49
Year 7	N	0	1	0.0	0.0	0	100	11	0	1	0.0	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.00	0.00	Note 47	
	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.67	0					0.0	None	0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0						0.0			0.00	0.0000	0.00	0.0000	Note 49
Year 8	N	0	1	0.0	0.0	0	100	11	0	1	0.0	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.00	0.00	Note 47	
	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.67	0					0.0	None	0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0						0.0			0.00	0.0000	0.00	0.0000	Note 49
Year 9	N	0	1	0.0	0.0	0	100	1	0	1	0.0	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.00	0.00	Note 47	
	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.65	0					0.0	None	0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	0						0.0			0.00	0.0000	0.00	0.0000	Note 49
Year 10	N	0	1	0.0	0.0	0	100	10	0	1	0.0	-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.00	0.00	Note 47	
	Vol/NH3	None	YES	0.0	0.0	NON	100.00	NO	1.000	YES	0.0	Waste	0.66	0					0.0	None	0	0.00	0.0125	0.00	0.0100	Note 48
	N leach		1.000	1.000	ORG	1.00	1.000		0.600	0.0	0.0	moved	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

0.69

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.69

1.00

Note 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

0.69

1.00

Total IPCC and non IPCC N2O

Note 51

1.39

Note 51

1.39

Note 51

2.08

Note 51

SUMMARY CATTLE DAIRY

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER LIQUID CATTLE MANURE

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR

CATTLE DAIRY CATTLE DAIRY

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	24.62	24.50
1-10 N leach	FIRST YEAR	0.0517	0.0314	TOTAL N AMOUNTS IN KG AND % LEACHED	13.74	13.67
TOTAL		0.0671	0.0413	TOTAL N AMOUNTS IN KG AND %	62.16	61.84
					100.52	100.00

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

Area with crop, ha	Total/year 1		
Natural background emissions, kg N2O-N/ha:	0.88	1.27	
	0.88		

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER SEPARATED CATTLE MANURE

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR

CATTLE DAIRY CATTLE DAIRY

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	24.26	24.14
1-10 N leach	FIRST YEAR	0.0567	0.0313	TOTAL N AMOUNTS IN KG AND % LEACHED	14.27	14.19
TOTAL		0.0730	0.0411	TOTAL N AMOUNTS IN KG AND %	61.99	61.67
					100.52	100.00

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

Area with crop, ha	Total/year 1		
Natural background emissions, kg N2O-N/ha:	0.86	1.24	
	0.86		

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER CATTLE DEEP LITTER

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR

CATTLE DAIRY CATTLE DAIRY

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	23.11	22.07
1-10 N leach	FIRST YEAR	0.0619	0.0314	TOTAL N AMOUNTS IN KG AND % LEACHED	20.39	19.47
TOTAL		0.0777	0.0409	TOTAL N AMOUNTS IN KG AND %	61.21	58.46
					104.71	100.00

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

Area with crop, ha	Total/year 1		
Natural background emissions, kg N2O-N/ha:	0.78	1.13	
	0.78		

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER MANURE FROM GRAZING CATTLE

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR

CATTLE DAIRY CATTLE DAIRY

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	24.33	24.33
1-10 N leach	FIRST YEAR	0.0622	0.0398	TOTAL N AMOUNTS IN KG AND % LEACHED	4.49	4.49
TOTAL		0.0842	0.0523	TOTAL N AMOUNTS IN KG AND %	71.18	71.18
					100.00	100.00

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

Area with crop, ha	Total/year 1		
Natural background emissions, kg N2O-N/ha:	0.79	1.14	
	0.79		

SUMMARY CATTLE BEEF

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER LIQUID CATTLE MANURE

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR

CATTLE BEEF CATTLE BEEF

Total N	RATIO OF N2O-N TO N IN FIRST CROP	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	23.18	23.06	1.62	3.34	1.45	
Year N NH3	ACCORDING TO	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	14.42	14.34	0.14		0.14	2.06 Note 45
1-10 N leach	FIRST YEAR	0.0517	0.0316	TOTAL N AMOUNTS IN KG AND % LEACHED	62.95	62.60	1.57		0.47	Note 45
TOTAL	TOTAL	0.0680	0.0421	TOTAL N AMOUNTS IN KG AND %	100.55	100.00				Note 45

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

Area with crop, ha				Total/year 1				0.1439		0.0890 Note 46
Natural background emissions, kg N2O-N/ha:					0.89	1.29				Note 50
					0.89			4.23		2.96 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER SEPARATED CATTLE MANURE

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR

CATTLE BEEF CATTLE BEEF

Total N	RATIO OF N2O-N TO N IN FIRST CROP	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.83	22.71	1.93	3.64	1.43	2.05 Note 45
Year N NH3	ACCORDING TO	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	14.96	14.88	0.15		0.15	Note 45
1-10 N leach	FIRST YEAR	0.0570	0.0315	TOTAL N AMOUNTS IN KG AND % LEACHED	62.76	62.41	1.57		0.47	Note 45
TOTAL	TOTAL	0.0743	0.0419	TOTAL N AMOUNTS IN KG AND %	100.55	100.00				Note 45

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

Area with crop, ha				Total/year 1				0.1596		0.0899 Note 46
Natural background emissions, kg N2O-N/ha:					0.87	1.25				Note 50
					0.78			4.51		2.92 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER CATTLE DEEP LITTER

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR

CATTLE BEEF CATTLE BEEF

Total N	RATIO OF N2O-N TO N IN FIRST CROP	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	21.71	20.68	2.12	3.88	1.36	2.04 Note 45
Year N NH3	ACCORDING TO	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	21.37	20.36	0.21		0.21	Note 45
1-10 N leach	FIRST YEAR	0.0624	0.0315	TOTAL N AMOUNTS IN KG AND % LEACHED	61.88	58.96	1.55		0.46	Note 45
TOTAL	TOTAL	0.0792	0.0416	TOTAL N AMOUNTS IN KG AND %	104.96	100.00				Note 45

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

Area with crop, ha				Total/year 1				0.1789		0.0940 Note 46
Natural background emissions, kg N2O-N/ha:					0.79	1.14				Note 50
					0.79			4.67		2.83 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER MANURE FROM GRAZING CATTLE

WINTER RAPESEED FOR PPO/BIODIESEL AND WINTER WHEAT FOR

CATTLE BEEF CATTLE BEEF

Total N	RATIO OF N2O-N TO N IN FIRST CROP	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.96	22.96	2.36	4.22	2.04	2.63 Note 45
Year N NH3	ACCORDING TO	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	4.62	4.62	0.05		0.05	Note 45
1-10 N leach	FIRST YEAR	0.0628	0.0404	TOTAL N AMOUNTS IN KG AND % LEACHED	72.43	72.43	1.81		0.54	Note 45
TOTAL	TOTAL	0.0861	0.0536	TOTAL N AMOUNTS IN KG AND %	100.00	100.00				Note 45

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

Area with crop, ha				Total/year 1				0.1839		0.1145 Note 46
Natural background emissions, kg N2O-N/ha:					0.80	1.15				Note 50
					0.80			5.02		3.43 Note 51

D2	N CHAIN CALCULATIONS SHEET D:		N CHAINS PARTLY BASED UPON DANISH VALUES		CALCULATIONS		By Jacob Bugge		Available at www.ppo.bugge.com		D
SUMMARY POULTRY MEAT											
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 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		33.03		33.03		1.46		1.26
Year N NH3	ACCORDING TO		IPCC 1996		IPCC 2006		9.67		0.10		0.10
1-10 N leach	FIRST YEAR		0.0515		0.0305		57.29		1.43		0.43
TOTAL	TOTAL		0.0610		0.0364		100.00		100.00		
N2O-N/N in food/beverage/fuel/other											
Total/year 1											
Area with crop, ha				0.80		1.15					
Natural background emissions, kg N2O-N/ha:				0.80				3.79		2.58	
Note 50 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 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		31.95		31.95		1.55		1.19
Year N NH3	ACCORDING TO		IPCC 1996		IPCC 2006		13.33		0.13		0.13
1-10 N leach	FIRST YEAR		0.0549		0.0308		54.72		1.37		0.41
TOTAL	TOTAL		0.0622		0.0354		100.00		100.00		
N2O-N/N in food/beverage/fuel/other											
Total/year 1											
Area with crop, ha				0.77		1.11					
Natural background emissions, kg N2O-N/ha:				0.77				3.82		2.50	
Note 50 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 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		30.92		30.87		1.59		1.15
Year N NH3	ACCORDING TO		IPCC 1996		IPCC 2006		15.15		0.15		0.15
1-10 N leach	FIRST YEAR		0.0571		0.0311		54.09		1.35		0.41
TOTAL	TOTAL		0.0632		0.0347		100.16		100.00		
N2O-N/N in food/beverage/fuel/other											
Total/year 1											
Area with crop, ha				0.73		1.06					
Natural background emissions, kg N2O-N/ha:				0.73				3.83		2.44	
Note 50 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 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		32.79		32.79		1.94		1.65
Year N NH3	ACCORDING TO		IPCC 1996		IPCC 2006		3.70		0.04		0.04
1-10 N leach	FIRST YEAR		0.0587		0.0363		63.50		1.59		0.48
TOTAL	TOTAL		0.0727		0.0441		100.00		100.00		
N2O-N/N in food/beverage/fuel/other											
Total/year 1											
Area with crop, ha				0.76		1.09					
Natural background emissions, kg N2O-N/ha:				0.76				4.33		2.92	
Note 50 Note 51											

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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.39 22.39	1.60
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0678	0.0317	TOTAL N AMOUNTS IN KG AND % LEACHED	62.96 62.96	1.57
N2O-N/N in food/beverage/fuel/other			0.0418	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1484
Natural background emissions, kg N2O-N/ha:						0.0915
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	21.21 21.21	1.74
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0694	0.0322	TOTAL N AMOUNTS IN KG AND % LEACHED	58.46 58.46	1.46
N2O-N/N in food/beverage/fuel/other			0.0398	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1605
Natural background emissions, kg N2O-N/ha:						0.0921
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	20.24 20.18	1.80
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0705	0.0327	TOTAL N AMOUNTS IN KG AND % LEACHED	57.23 57.08	1.43
N2O-N/N in food/beverage/fuel/other			0.0385	TOTAL N AMOUNTS IN KG AND %	100.25 100.00	
Area with crop, ha						0.1709
Natural background emissions, kg N2O-N/ha:						0.0934
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.46 22.46	2.39
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0631	0.0407	TOTAL N AMOUNTS IN KG AND % LEACHED	72.88 72.88	1.82
N2O-N/N in food/beverage/fuel/other			0.0541	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1894
Natural background emissions, kg N2O-N/ha:						0.1181
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.39 22.39	1.60
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0678	0.0317	TOTAL N AMOUNTS IN KG AND % LEACHED	62.96 62.96	1.57
N2O-N/N in food/beverage/fuel/other			0.0418	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1484
Natural background emissions, kg N2O-N/ha:						0.0915
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	21.21 21.21	1.74
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0694	0.0322	TOTAL N AMOUNTS IN KG AND % LEACHED	58.46 58.46	1.46
N2O-N/N in food/beverage/fuel/other			0.0398	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1605
Natural background emissions, kg N2O-N/ha:						0.0921
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	20.24 20.18	1.80
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0705	0.0327	TOTAL N AMOUNTS IN KG AND % LEACHED	57.23 57.08	1.43
N2O-N/N in food/beverage/fuel/other			0.0385	TOTAL N AMOUNTS IN KG AND %	100.25 100.00	
Area with crop, ha						0.1709
Natural background emissions, kg N2O-N/ha:						0.0934
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.46 22.46	2.39
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0631	0.0407	TOTAL N AMOUNTS IN KG AND % LEACHED	72.88 72.88	1.82
N2O-N/N in food/beverage/fuel/other			0.0541	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1894
Natural background emissions, kg N2O-N/ha:						0.1181
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.39 22.39	1.60
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0678	0.0317	TOTAL N AMOUNTS IN KG AND % LEACHED	62.96 62.96	1.57
N2O-N/N in food/beverage/fuel/other			0.0418	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1484
Natural background emissions, kg N2O-N/ha:						0.0915
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	21.21 21.21	1.74
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0694	0.0322	TOTAL N AMOUNTS IN KG AND % LEACHED	58.46 58.46	1.46
N2O-N/N in food/beverage/fuel/other			0.0398	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1605
Natural background emissions, kg N2O-N/ha:						0.0921
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	20.24 20.18	1.80
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0705	0.0327	TOTAL N AMOUNTS IN KG AND % LEACHED	57.23 57.08	1.43
N2O-N/N in food/beverage/fuel/other			0.0385	TOTAL N AMOUNTS IN KG AND %	100.25 100.00	
Area with crop, ha						0.1709
Natural background emissions, kg N2O-N/ha:						0.0934
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.46 22.46	2.39
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0631	0.0407	TOTAL N AMOUNTS IN KG AND % LEACHED	72.88 72.88	1.82
N2O-N/N in food/beverage/fuel/other			0.0541	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1894
Natural background emissions, kg N2O-N/ha:						0.1181
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.39 22.39	1.60
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0678	0.0317	TOTAL N AMOUNTS IN KG AND % LEACHED	62.96 62.96	1.57
N2O-N/N in food/beverage/fuel/other			0.0418	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1484
Natural background emissions, kg N2O-N/ha:						0.0915
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	21.21 21.21	1.74
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0694	0.0322	TOTAL N AMOUNTS IN KG AND % LEACHED	58.46 58.46	1.46
N2O-N/N in food/beverage/fuel/other			0.0398	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1605
Natural background emissions, kg N2O-N/ha:						0.0921
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	20.24 20.18	1.80
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0705	0.0327	TOTAL N AMOUNTS IN KG AND % LEACHED	57.23 57.08	1.43
N2O-N/N in food/beverage/fuel/other			0.0385	TOTAL N AMOUNTS IN KG AND %	100.25 100.00	
Area with crop, ha						0.1709
Natural background emissions, kg N2O-N/ha:						0.0934
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.46 22.46	2.39
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0631	0.0407	TOTAL N AMOUNTS IN KG AND % LEACHED	72.88 72.88	1.82
N2O-N/N in food/beverage/fuel/other			0.0541	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1894
Natural background emissions, kg N2O-N/ha:						0.1181
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.39 22.39	1.60
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0678	0.0317	TOTAL N AMOUNTS IN KG AND % LEACHED	62.96 62.96	1.57
N2O-N/N in food/beverage/fuel/other			0.0418	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1484
Natural background emissions, kg N2O-N/ha:						0.0915
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	21.21 21.21	1.74
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0694	0.0322	TOTAL N AMOUNTS IN KG AND % LEACHED	58.46 58.46	1.46
N2O-N/N in food/beverage/fuel/other			0.0398	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1605
Natural background emissions, kg N2O-N/ha:						0.0921
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	20.24 20.18	1.80
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0705	0.0327	TOTAL N AMOUNTS IN KG AND % LEACHED	57.23 57.08	1.43
N2O-N/N in food/beverage/fuel/other			0.0385	TOTAL N AMOUNTS IN KG AND %	100.25 100.00	
Area with crop, ha						0.1709
Natural background emissions, kg N2O-N/ha:						0.0934
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.46 22.46	2.39
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0631	0.0407	TOTAL N AMOUNTS IN KG AND % LEACHED	72.88 72.88	1.82
N2O-N/N in food/beverage/fuel/other			0.0541	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1894
Natural background emissions, kg N2O-N/ha:						0.1181
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.39 22.39	1.60
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0678	0.0317	TOTAL N AMOUNTS IN KG AND % LEACHED	62.96 62.96	1.57
N2O-N/N in food/beverage/fuel/other			0.0418	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1484
Natural background emissions, kg N2O-N/ha:						0.0915
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	21.21 21.21	1.74
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0694	0.0322	TOTAL N AMOUNTS IN KG AND % LEACHED	58.46 58.46	1.46
N2O-N/N in food/beverage/fuel/other			0.0398	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Area with crop, ha						0.1605
Natural background emissions, kg N2O-N/ha:						0.0921
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	20.24 20.18	1.80
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0705	0.0327	TOTAL N AMOUNTS IN KG AND % LEACHED	57.23 57.08	1.43
N2O-N/N in food/beverage/fuel/other			0.0385	TOTAL N AMOUNTS IN KG AND %	100.25 100.00	
Area with crop, ha						0.1709
Natural background emissions, kg N2O-N/ha:						0.0934
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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	22.46 22.46	2.39
Year N NH3	ACCORDING TO					
1-10 N leach	FIRST YEAR					
TOTAL		0.0631	0.0407	TOTAL N AMOUNTS IN KG AND % LEACHED	72.88 72.88	1.82
N2O-N/N in food/beverage/fuel/other			0.0541	TOTAL N AMOUNTS IN KG AND		

SUMMARY FOOD, FUEL, AND WASTE

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER NO MANURE

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

Year N NH3

IPCC 1996

1-10 N leach

0.0507

0.0283

0.0507

TOTAL N AMOUNTS IN KG AND %

49.04

2.20

48.76

100.00

1.25

0.02

1.22

100.00

2.49

0.02

0.37

1.00

1.39

Note 45

Note 45

Note 45

Note 45

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

Area with crop, ha

Natural background emissions, kg N2O-N/ha:

Total/year 1

0.69

1.00

0.69

0.0507

0.0283

Note 46

Note 50

Note 51

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER NO MANURE

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

Year N NH3

IPCC 1996

1-10 N leach

0.0507

0.0283

0.0507

TOTAL N AMOUNTS IN KG AND %

49.04

2.20

48.76

100.00

1.25

0.02

1.22

100.00

2.49

0.02

0.37

1.00

1.39

Note 45

Note 45

Note 45

Note 45

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

Area with crop, ha

Natural background emissions, kg N2O-N/ha:

Total/year 1

0.69

1.00

0.69

0.0507

0.0283

Note 46

Note 50

Note 51

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER NO MANURE

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

Year N NH3

IPCC 1996

1-10 N leach

0.0507

0.0283

0.0507

TOTAL N AMOUNTS IN KG AND %

49.04

2.20

48.76

100.00

1.25

0.02

1.22

100.00

2.49

0.02

0.37

1.00

1.39

Note 45

Note 45

Note 45

Note 45

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

Area with crop, ha

Natural background emissions, kg N2O-N/ha:

Total/year 1

0.69

1.00

0.69

0.0507

0.0283

Note 46

Note 50

Note 51

N CHAIN STARTING WITH AND CONTINUING WITH

N FERTILIZER NO MANURE

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

Year N NH3

IPCC 1996

1-10 N leach

0.0711

0.0344

0.0711

TOTAL N AMOUNTS IN KG AND %

9.04

2.20

88.76

100.00

1.25

0.02

2.22

100.00

3.49

0.02

0.67

1.00

1.69

Note 45

Note 45

Note 45

Note 45

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

Area with crop, ha

Natural background emissions, kg N2O-N/ha:

Total/year 1

0.69

1.00

0.69

0.0507

0.0283

Note 46

Note 50

Note 51

