

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL Straw Crop Fuel/ N2O-N emission
 AND CONTINUING WITH LIQUID CATTLE MANURE TO PRODUCE use & #71/ IPCC 1996
 WINTER WHEAT FOR MAIZE COBS FOR BIOETHANOL AND #72/ IPCC 2006
 CATTLE BEEF
 CATTLE BEEF

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor 1/0	Crop # Name	Use Name	Food Fed	N crop #71/ #72/	Food bev #8 #9	Fuel/ other #9	Manure handling # Name	Final N a-mounts	N2O-N emission Each	Total	
Total N	1	1	100.0	100.0	0	100	59	0	0	0	0	0	0	5.6	1.47	3.73	1.26
Year N NH3	YES		0.0	0.0	2.2	NON	100.00	MCB	1.000	NO	0	0	0.0	14.9	1.32	3.30	1.13
1-10 N leach	1.022		1.000	1.000	0.796	0.0	0.000	0.000	0.83	0.0	0.0	0.0	0.0	1.2	0.03	0.0125	0.03
Year N	21	1	13.9	13.9	0	100	11	0	2	0	0	0	21	0.0	1.95	0.0010	0.58
Year N	21	1	1.4	1.4	0	100	11	0	0.67	0	0	0	21	1.5	0.14	0.38	0.12
Year N	21	1	0.3	0.3	0	100.00	WWH	0	0.67	0	0	0	21	0.1	0.04	0.125	0.04
Year N	21	1	0.0	0.0	0	100.00	WBA	0	0.67	0	0	0	21	0.0	0.21	0.0010	0.06
Year N	21	1	0.1	0.1	0	100	1	0	0.67	0	0	0	21	0.0	0.01	0.04	0.01
Year N	21	1	0.0	0.0	0	100.00	SBA	0	0.67	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100.00	WBA	0	0.66	0	0	0	21	0.0	0.02	0.0010	0.00
Year N	21	1	0.0	0.0	0	100.00	WBA	0	0.66	0	0	0	21	0.0	0.00	0.0010	0.00
Year N	21	1	0.0	0.0	0	100.00	MCB	0	0.83	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100	11	0	0.83	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100.00	WWH	0	0.67	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100.00	WBA	0	0.67	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100	11	0	0.83	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100.00	WWH	0	0.67	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100.00	WBA	0	0.67	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100.00	WBA	0	0.66	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100.00	WBA	0	0.66	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100.00	WBA	0	0.66	0	0	0	21	0.0	0.00	0.0125	0.00
Year N	21	1	0.0	0.0	0	100.00	WBA	0	0.66	0	0	0	21	0.0	0.00	0.0125	0.00

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

Year	Vol/NH3	N	leach	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1
Year 1	Vol/NH3	N	leach	0	0	0	0	0	0	0	0	0	0	0	0
Year 2	Vol/NH3	Cattle	Liquid	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
Year 3	Vol/NH3	Cattle	Liquid	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
Year 4	Vol/NH3	Cattle	Liquid	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
Year 5	Vol/NH3	Cattle	Liquid	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
Year 6	Vol/NH3	Cattle	Liquid	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
Year 7	Vol/NH3	Cattle	Liquid	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
Year 8	Vol/NH3	Cattle	Liquid	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
Year 9	Vol/NH3	Cattle	Liquid	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
Year 10	Vol/NH3	Cattle	Liquid	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933

Area with crop, ha
 Possible additional non IPCC N2O-N emissions
 N residues emissions, ratio of N2O-N to N:
 Increased soil N emissions, kg N2O-N/ha:
 Natural background emissions, kg N2O-N/ha:

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

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

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

Year	N	Vol/NH3	N	YES	1	100.0	100.0	0	100	59	0	0	0	97.8	32	20.0	8.4	0.0	0.0	0.0	0.0	0.0	11.6	1.32	3.30	1.11	1.20	1.90		
1	Year	N	Vol/NH3	N	YES	1	100.0	2.2	NON	100.00	MCB	1.000	NO	0	0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	11.6	1.32	3.30	1.11	1.20	1.90		
	N	leach	1.022	1.000	ORG	1.00	1.000	0.796	0.0	0.0	0.0	0.0	0.0	77.8	Pig	0.83	0.0	0.0	0.0	0.0	0.0	1.6	0.04	0.0125	0.04	0.07	0.07	1.20		
	Year	N	31	Pig	YES	1	10.0	9.7	0	100	11	0	0	7.3	32	1.5	0.6	0.0	0.0	0.0	0.0	0.9	0.10	0.27	0.58	0.08	0.08	0.15	0.47	
	N	leach	Liquid	1.000	ORG	1.00	1.000	2.4	NON	100.00	WWH	1.000	NO	0	0	0.67	0.0	0.0	0.0	0.0	0.0	0.1	0.03	0.125	0.03	0.03	0.03	0.100	0.48	
	Year	N	31	Liquid	1.000	0.7	0	0	100	11	0	0	0	5.8	Pig	3	0.1	0.0	0.0	0.0	0.0	0.1	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.47
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.2	NON	100.00	WWH	1.000	NO	0	0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.1	0	0	100	1	0	0	0	0.4	Pig	3	0.0	0.0	0.0	0.0	0.0	0.1	0.01	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.1	0	100	1	0	0	0.4	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	SBA	1.000	NO	0	0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	10	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	0	0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	10	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	MCB	1.000	NO	0	0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	0	0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	0	0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	SBA	1.000	NO	0	0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	0	0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	10	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	MCB	1.000	NO	0	0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	0	0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	SBA	1.000	NO	0	0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	0	0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	10	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	MCB	1.000	NO	0	0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	0	0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	SBA	1.000	NO	0	0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	WBA	1.000	NO	0	0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	10	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	MCB	1.000	NO	0	0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.8	0.0	0.0	11	0	0	0.0	Pig	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0100	0.48
	Year	N	31	Liquid	1.000	0.0	0.0	0.0	NON	100.00	WWH	1.000	NO	0	0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0050	0.49
	N	leach	Liquid	1.000	ORG	1.00	1.000	0.																						

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

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor 1/0	Crop # Name	Straw used 1/0	Cereal benefit 1/0	Use Name	Fodder: Uses #21-61 Fed	N crop #71/ #72	Fuel/ bev #8	Fuel/ other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	
Total N																				
Year 1-10																				
RATIO OF N2O-N TO N IN FIRST CROP TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED ACCORDING TO IPCC 1996 IPCC 2006 FIRST YEAR 0.1688 0.0865 TOTAL 0.1787 0.0921 TOTAL N AMOUNTS IN KG AND % LEACHED TOTAL N AMOUNTS IN KG AND %																				

Year	N	Vol/NH3	N	YES	100.0	100.0	0	100	59	0	0	0	0	0	0	0	0	0	0	0
Year 1	N	Vol/NH3	N	YES	100.0	100.0	0	100	59	0	0	0	0	0	0	0	0	0	0	0
	N	leach			0.0	0.0	2.2	NON	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Year 2	N	Vol/NH3	Poultry	YES	1.1	1.6	NON	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Year 3	N	leach	Sep		1.000	0.3	ORG	1.00	1.000	0.827	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Year 4	N	Vol/NH3	Poultry	YES	0.0	0.1	NON	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Year 5	N	leach	Sep		1.000	0.0	ORG	1.00	1.000	0.827	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Year 6	N	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Year 7	N	leach	Sep		1.000	0.0	ORG	1.00	1.000	0.827	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Year 8	N	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Year 9	N	leach	Sep		1.000	0.0	ORG	1.00	1.000	0.827	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Year 10	N	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Year 11	N	leach	Sep		1.000	0.0	ORG	1.00	1.000	0.827	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Year	Area with crop, ha	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1
Year	Area with crop, ha	0.71	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.05
Possible additional non IPCC N2O-N emissions													
N residues emissions, ratio of N2O-N to N: 0.0000													
Increased soil N emissions, kg N2O-N/ha: 0.00													
Natural background emissions, kg N2O-N/ha: 1.00													
Total IPCC and non IPCC N2O: 3.57													
Kind of source: 1.84 Note 51													
0.00 Current crops													
0.00 Total anthropogenic													
0.75 Total including natural													
4.32													
Note 50													

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

Year Fertilizer/manure # Store Amounts Field 1/0 Or-ganic 1/0 Nnorm propor # Crop use & leach Straw used 1/0 Cereal benefit 1/0 N crop #71/ bevs #72 Food #77 Fuel/other #9 Manure handling # Name Final N a- mounts Total N2O-N emission IPCC 1996 Each Total N2O-N emission IPCC 2006 Each Total

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED									
Year N NH3	IPCC 1996					IPCC 2006					TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3					TOTAL N AMOUNTS IN KG AND % LEACHED				
1-10 N leach	0.1735	0.0932	0.1914	0.1024	0.0932	0.1024	10.7	10.7	2.9	2.9	86.4	86.4	100.0	100.0	100.0	100.0				
TOTAL	0.1735	0.0932	0.1914	0.1024	0.0932	0.1024	10.7	10.7	2.9	2.9	86.4	86.4	100.0	100.0	100.0	100.0				

N2O-N in food/beverage/fuel/other

Year N	1	100.0	100.0	0	100	59	0	0	97.8	42	20.0	10.2	0.0	0.0	0.0	0.0	9.8	1.50	3.47	1.26	1.86	Note 47
1	Vol/NH3 N	YES	0.0	2.2	NON	100.00	MCB	1.000	NO	1.000	NO	0.83	0.0	0.0	0.0	0.0	44	0.02	0.0125	0.02	0.0100	Note 48
	N leach	1.022	1.000	ORG	1.00	1.000	0.796	0.0	77.8	Meat	4	6.8	Scrap	0.0	1.95	0.0200	0.0	1.95	0.0200	0.58	0.0200	Note 49
Year N	44	1	9.8	0	100	11	0	0	9.1	42	0.9	0.4	0.0	0.0	0.0	0.0	44	0.13	0.34	0.11	0.18	Note 47
2	Vol/NH3	Poultry YES	0.0	0.7	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.0	0.0	0.0	0.0	0.0	0.01	0.0125	0.01	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.903	0.0	8.2	Meat	4	0.6	Scrap	0.0	0.21	0.0200	0.06	0.0200	0.06	0.0200	Note 49
Year N	44	1	0.4	0.4	0	100	11	0	0.4	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.01	0.02	0.00	0.01	Note 47
3	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.903	0.0	0.4	Meat	4	0.0	Scrap	0.0	0.01	0.0200	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	1	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	44	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	NO	1.000	NO	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.903	0.0	0.0	Meat	4	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	10	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.00	0.00	0.00	0.00	Note 47
5	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WBA	1.000	NO	1.000	NO	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.903	0.0	0.0	Meat	4	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	59	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	MCB	1.000	NO	1.000	NO	0.83	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.903	0.0	0.0	Meat	4	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	11	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.00	0.00	0.00	0.00	Note 47
7	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.903	0.0	0.0	Meat	4	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	11	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.00	0.00	0.00	0.00	Note 47
8	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	NO	1.000	NO	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.903	0.0	0.0	Meat	4	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	1	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.00	0.00	0.00	0.00	Note 47
9	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	SBA	1.000	NO	1.000	NO	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.903	0.0	0.0	Meat	4	0.0	Scrap	0.0	0.00	0.0200	0.00	0.0200	0.00	0.0200	Note 49
Year N	44	1	0.0	0.0	0	100	10	0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.00	0.00	0.00	0.00	Note 47
10	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WBA	1.000	NO	1.000	NO	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Scrap	0.484	1.000	ORG	1.00	1.000	0.903	0.0	0.0	Meat	4	0.0	Scrap	0.0	0.00	0.0200	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 0.71 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.75 1.04 Note 50

Possible additional non IPCC N2O-N emissions Value 0.0000 Kind of source Total IPCC and non IPCC N2O
 N residues emissions, ratio of N2O-N to N: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.83
 Increased soil N emissions, kg N2O-N/ha: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.83
 Natural background emissions, kg N2O-N/ha: 1.00 0.71 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.57
 2.05 Note 51
 2.05 Note 51
 2.79 Note 51

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

Year Fertilizer/manure # Store Amounts Store 1/0 Field 1/0 Or-ganic 1/0 Nnorm propor 1/0 Crop # N crop Food/ #71/ bev #72 #8 Fuel/ other #9 Manure handling # Final N a- mounts Total N2O-N emission IPCC 1996 IPCC 2006 Note 44 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										5.2	5.2
Year N NH3	ACCORDING TO IPCC 1996 IPCC 2006										3.3	3.3
1-10 N leach	FIRST YEAR										0.1789	0.0986
TOTAL	TOTAL N AMOUNTS IN KG AND %										91.5	91.5
	TOTAL N AMOUNTS IN KG AND %										100.0	100.0

N2O-N in food/beverage/fuel/other 0.8033 0.4392 Note 46

Year	N	Vol/NH3	N	YES	100.0	100.0	0	100	59	0	0	97.8	43	20.0	4.8	0.0	0.0	0.0	0.0	15.2	1.61	3.58	1.37
1	Vol/NH3	N	YES	100.0	100.0	0	100	59	0	0	0	97.8	43	20.0	4.8	0.0	0.0	0.0	0.0	15.2	1.61	3.58	1.37
	N leach			2.2	NON	1.000	NO	1.000	NO	0.796	0.0	77.8	Poultry	0.83						0.0	0.02	0.125	0.02
	Year	N	44	1	15.2	15.2	0	100	11	0	0	14.1	43	1.4	0.3	0.0	0.0	0.0	0.0	1.0	0.21	0.54	0.58
2	Vol/NH3	Poultry	YES	1.000	100.00	WWH	1.000	NO	1.000	0.903	0.0	12.8	Poultry	0.67						0.0	0.01	0.125	0.01
	N leach	Scrap	0.484	1.000	1.0	1.0	0	100	11	0	0	12.8	Eggs	4	1.0	0.0	0.0	0.0	0.0	0.0	0.32	0.200	0.10
Year	N	44	1	1.0	1.0	0	100	11	0	0	0	1.0	43	0.1	0.0	0.0	0.0	0.0	0.1	0.01	0.04	0.01	
3	Vol/NH3	Poultry	YES	0.0	0.1	NON	100.00	WWH	1.000	NO	0.903	0.9	Poultry	0.67						0.0	0.00	0.125	0.00
	N leach	Scrap	0.484	1.000	1.0	1.0	0	100	1.000	0.903	0.0	0.9	Eggs	4	0.1	0.0	0.0	0.0	0.0	0.02	0.200	0.01	
Year	N	44	1	0.1	0.1	0	100	1	1	0	0	0.1	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.01
4	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	SBA	1.000	NO	1.000	0.1	Poultry	0.65						0.0	0.00	0.125	0.00
	N leach	Scrap	0.484	1.000	1.0	1.0	0	100	1.000	0.903	0.0	0.1	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.200	0.00	
Year	N	44	1	0.0	0.0	0	100	10	10	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	1.000	0.0	Poultry	0.66						0.0	0.00	0.125	0.00
	N leach	Scrap	0.484	1.000	1.0	1.0	0	100	1.000	0.903	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.200	0.00	
Year	N	44	1	0.0	0.0	0	100	59	59	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
6	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	MCB	1.000	NO	1.000	0.0	Poultry	0.83						0.0	0.00	0.125	0.00
	N leach	Scrap	0.484	1.000	1.0	1.0	0	100	1.000	0.903	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.200	0.00	
Year	N	44	1	0.0	0.0	0	100	11	11	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
7	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	1.000	0.0	Poultry	0.67						0.0	0.00	0.125	0.00
	N leach	Scrap	0.484	1.000	1.0	1.0	0	100	1.000	0.903	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.200	0.00	
Year	N	44	1	0.0	0.0	0	100	11	11	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
8	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WWH	1.000	NO	1.000	0.0	Poultry	0.67						0.0	0.00	0.125	0.00
	N leach	Scrap	0.484	1.000	1.0	1.0	0	100	1.000	0.903	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.200	0.00	
Year	N	44	1	0.0	0.0	0	100	11	11	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
9	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	SBA	1.000	NO	1.000	0.0	Poultry	0.65						0.0	0.00	0.125	0.00
	N leach	Scrap	0.484	1.000	1.0	1.0	0	100	1.000	0.903	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.200	0.00	
Year	N	44	1	0.0	0.0	0	100	10	10	0	0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
10	Vol/NH3	Poultry	YES	0.0	0.0	NON	100.00	WBA	1.000	NO	1.000	0.0	Poultry	0.66						0.0	0.00	0.125	0.00
	N leach	Scrap	0.484	1.000	1.0	1.0	0	100	1.000	0.903	0.0	0.0	Eggs	4	0.0	0.0	0.0	0.0	0.0	0.00	0.200	0.00	
Year	N	44	1	0.0	0.0	0	100	1.000	1.000	0.903	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1
Area with crop, ha	0.71	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.07

Possible additional non IPCC N2O-N emissions Value 0.0000
 N residues emissions, ratio of N2O-N to N: 0.00
 Increased soil N emissions, kg N2O-N/ha: 1.00
 Natural background emissions, kg N2O-N/ha: 0.76
 Total IPCC and non IPCC N2O 4.16
 Total anthropogenic 4.16
 Total including natural 4.92
 Note 51 2.27
 Note 51 2.27
 Note 51 3.04

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

AND CONTINUING WITH GOAT DEEP LITTER TO PRODUCE TO PRODUCE WINTER WHEAT FOR GOAT MILK/MEAT

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	Food Fed	N crop #71/ #72	Fuel/ other #9	Manure handling #	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	
Total N	1	1	100.0	100.0	2.2	NON	100.00	0	0	0	77.8	Goat	20.0	1.9	0.0	0.0	63	18.1	1.61	3.61	1.14
Year 1	1	YES	0.0	0.0	1.000	NON	100.00	1.000	NO	0	0.83	Goat	0.83	0.0	0.0	0.0	0.0	2.7	0.05	0.125	1.14
Year 2	1	YES	1.000	1.000	0.796	ORG	1.000	0.796	0.0	0.0	6	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	1.95	0.0200	0.58
Year 3	1	YES	17.9	17.9	15.2	NON	100.00	0	NO	0	11.4	Goat	1.4	0.1	0.0	0.0	63	1.2	0.17	0.49	0.13
Year 4	1	YES	2.7	2.7	3.8	NON	100.00	1.000	NO	0	10.0	Goat	0.67	0.0	0.0	0.0	0.0	0.2	0.07	0.125	0.07
Year 5	1	YES	1.162	1.162	1.0	ORG	1.000	0.880	0.0	0.0	10.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.25	0.0200	0.08
Year 6	1	YES	1.2	1.2	1.0	ORG	1.000	0	0	0	0.8	Goat	0.1	0.0	0.0	0.0	63	0.1	0.01	0.03	0.01
Year 7	1	YES	0.2	0.2	0.3	NON	100.00	1.000	NO	0	0.7	Goat	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00
Year 8	1	YES	1.162	1.162	0.1	ORG	1.000	0.880	0.0	0.0	0.1	Milk/meat	6	0.0	0.0	0.0	63	0.0	0.02	0.0200	0.01
Year 9	1	YES	0.0	0.0	0.1	NON	100.00	1.000	NO	0	0.0	Goat	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00
Year 10	1	YES	1.162	1.162	0.0	ORG	1.000	0.880	0.0	0.0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Total	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.66	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 1	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 2	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.66	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 3	1	YES	1.162	1.162	0.0	ORG	1.000	0.880	0.0	0.0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 4	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.83	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 5	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 6	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.83	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 7	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 8	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.67	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 9	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 10	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.67	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Total	1	YES	1.162	1.162	0.0	ORG	1.000	0.880	0.0	0.0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00

N2O-N in food/beverage/fuel/other

Year	Vol/NH3	N	YES	100.0	100.0	0	100	59	0	0	97.8	61	20.0	1.9	0.0	0.0	0.0	18.1	1.61	3.61	1.14
Year 1	1	YES	0.0	0.0	2.2	NON	100.00	1.000	NO	0	77.8	Goat	0.83	0.0	0.0	0.0	0.0	2.7	0.05	0.125	1.14
Year 2	1	YES	1.022	1.000	15.2	ORG	1.000	0.796	0.0	0.0	6	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	1.95	0.0200	0.58
Year 3	1	YES	17.9	17.9	3.8	NON	100.00	1.000	NO	0	11.4	Goat	1.4	0.1	0.0	0.0	63	1.2	0.17	0.49	0.13
Year 4	1	YES	2.7	2.7	10.0	ORG	1.000	0.880	0.0	0.0	10.0	Goat	0.67	0.0	0.0	0.0	0.0	0.2	0.07	0.125	0.07
Year 5	1	YES	1.162	1.162	1.0	ORG	1.000	0.880	0.0	0.0	10.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.25	0.0200	0.08
Year 6	1	YES	1.2	1.2	0.3	NON	100.00	1.000	NO	0	0.8	Goat	0.1	0.0	0.0	0.0	63	0.1	0.01	0.03	0.01
Year 7	1	YES	0.2	0.2	0.1	ORG	1.000	0.880	0.0	0.0	0.7	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00
Year 8	1	YES	1.162	1.162	0.1	ORG	1.000	0.880	0.0	0.0	0.1	Milk/meat	6	0.0	0.0	0.0	63	0.0	0.02	0.0200	0.01
Year 9	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00
Year 10	1	YES	1.162	1.162	0.0	ORG	1.000	0.880	0.0	0.0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Total	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.66	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 1	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 2	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.66	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 3	1	YES	1.162	1.162	0.0	ORG	1.000	0.880	0.0	0.0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 4	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.83	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 5	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 6	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.83	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 7	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 8	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.67	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Year 9	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00
Year 10	1	YES	0.0	0.0	0.0	NON	100.00	1.000	NO	0	0.0	Goat	0.67	0.0	0.0	0.0	63	0.0	0.00	0.0125	0.00
Total	1	YES	1.162	1.162	0.0	ORG	1.000	0.880	0.0	0.0	0.0	Milk/meat	6	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00

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

Area with crop, ha 0.71 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.78 1.09

Possible additional non IPCC N2O-N emissions Value 0.0000
 N residues emissions, ratio of N2O-N to N: 0.00
 Increased soil N emissions, kg N2O-N/ha: 1.00
 Natural background emissions, kg N2O-N/ha: 0.78
 Total including natural 4.91
 Total IPCC and non IPCC N2O 4.13
 Note 51 2.06
 Note 51 2.06
 Note 51 2.84

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL Straw Crop Crop Fuel/ Fuel/ N2O-N emission N2O-N emission
 AND CONTINUING WITH GREEN MANURE LOW N TO PRODUCE benefit used & use # #71/ beV other #9 IPCC 1996 IPCC 2006
 Name 1/0 Store Field 1/0 Or- Nnorm Crop Crop Use Fodder: N crop Food/ Food/ Manure Final N2O-N emission N2O-N emission
 # Store Amounts ganic propor # Name Name Name Fed Uses #21-61 #71/ beV #8 #9 # Name mounts Each Total Each Total
 Name 1/0 Store Field 1/0 Or- Nnorm Crop Crop Use Fodder: N crop Food/ Food/ Manure Final N2O-N emission N2O-N emission
 # Store Amounts ganic propor # Name Name Name Fed Uses #21-61 #71/ beV #8 #9 # Name mounts Each Total Each Total

Year		Fertilizer/manure	Or- ganic	Nnorm	Crop	Crop	Use	Fodder:	N crop	Food/	Fuel/	Manure	Final	N2O-N emission	N2O-N emission
Name 1/0 Store Field 1/0 Or- ganic propor # Name Name Name Fed Uses #21-61 #71/ beV #8 #9 # Name mounts Each Total Each Total															
Total N		RATIO OF N2O-N TO N IN FIRST CROP TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED													
Year N NH3		IPCC 1996 IPCC 2006													
1-10 N leach		TOTAL N AMOUNTS IN KG AND % LEACHED													
TOTAL		TOTAL N AMOUNTS IN KG AND %													

Year		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED																		
Name 1/0 Store Field 1/0 Or- ganic propor # Name Name Name Fed Uses #21-61 #71/ beV #8 #9 # Name mounts Each Total Each Total																				
Year 1		100.0	0	100	59	0	0	97.8	72	0.0	0.0	20.0	0.0	0.0	72	20.0	1.31	3.27	1.06	1.67
N leach		2.2	NON	100.00	MCB	1.000	NO	77.8	N crop	0.83	0.0	0.0	Green	0.0	0.0	0.0	0.02	0.0125	0.02	0.0100
Year 2		20.0	0	100	11	0	0	15.0	21	1.6	0.4	0.0	0.0	0.0	21	1.2	0.20	0.59	0.17	0.32
N leach		5.0	NON	100.00	WWH	1.000	NO	13.4	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.1	0.05	0.125	0.05	0.0100
Year 3		1.1	0	100	11	0	0	0.8	21	0.2	0.0	0.0	0.0	0.0	21	0.1	0.01	0.03	0.01	0.02
N leach		0.3	NON	100.00	WWH	1.000	NO	0.7	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100
Year 4		0.1	0	100	1	0	0	0.1	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.01	0.0050
N leach		0.0	NON	100.00	SBA	1.000	NO	0.1	Cattle	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100
Year 5		0.0	0	100	10	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.0000
N leach		0.0	NON	100.00	WBA	1.000	NO	0.0	Cattle	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100
Year 6		0.0	0	100	59	0	0	0.0	72	0.0	0.0	0.0	0.0	0.0	72	0.0	0.00	0.00	0.00	0.0000
N leach		0.0	NON	100.00	MCB	1.000	NO	0.0	N crop	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100
Year 7		0.0	0	100	11	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.0000
N leach		0.0	NON	100.00	WWH	1.000	NO	0.0	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100
Year 8		0.0	0	100	11	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.0000
N leach		0.0	NON	100.00	WWH	1.000	NO	0.0	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100
Year 9		0.0	0	100	1	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.0000
N leach		0.0	NON	100.00	SBA	1.000	NO	0.0	Cattle	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100
Year 10		0.0	0	100	10	0	0	0.0	21	0.0	0.0	0.0	0.0	0.0	21	0.0	0.00	0.00	0.00	0.0000
N leach		0.0	NON	100.00	WBA	1.000	NO	0.0	Cattle	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100
Year		TOTAL N AMOUNTS IN KG AND %																		
Area with crop, ha		Total/year 1																		
		0.71	0.07	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	0.79	1.10		

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
 3.90
 3.90
 4.68

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

Note 43
 Note 43
 Note 44
 Note 44
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 Note 51

SUMMARY CATTLE DAIRY

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		6.31 6.29	1.25 3.70
Year N NH3	IPCC 1996	IPCC 2006		7.37 7.35	0.07 0.07
1-10 N leach	0.1649	0.0872	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	86.56 86.36	0.65 0.65
TOTAL	0.1851	0.0987	TOTAL N AMOUNTS IN KG AND % LEACHED	100.23 100.00	
			TOTAL N AMOUNTS IN KG AND %		

N2O-N/N in food/beverage/fuel/other		0.5872		0.3131	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.80		1.12	Note 50
		0.80		4.50	2.77 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED CATTLE MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		6.25 6.24	1.25 3.83
Year N NH3	IPCC 1996	IPCC 2006		7.68 7.66	0.08 0.08
1-10 N leach	0.1711	0.0871	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	86.30 86.10	0.65 0.65
TOTAL	0.1917	0.0986	TOTAL N AMOUNTS IN KG AND % LEACHED	100.24 100.00	
			TOTAL N AMOUNTS IN KG AND %		

N2O-N/N in food/beverage/fuel/other		0.6131		0.3154	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.79		1.10	Note 50
		0.79		4.62	2.76 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER CATTLE DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		6.07 5.94	1.23 3.94
Year N NH3	IPCC 1996	IPCC 2006		10.83 10.60	0.11 0.11
1-10 N leach	0.1774	0.0872	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	85.33 83.46	0.64 0.64
TOTAL	0.1972	0.0987	TOTAL N AMOUNTS IN KG AND % LEACHED	102.23 100.00	
			TOTAL N AMOUNTS IN KG AND %		

N2O-N/N in food/beverage/fuel/other		0.6492		0.3249	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.76		1.06	Note 50
		0.76		4.70	2.73 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING CATTLE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		6.16 6.16	1.52 4.10
Year N NH3	IPCC 1996	IPCC 2006		3.26 3.26	0.03 0.03
1-10 N leach	0.1779	0.0976	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	90.58 90.58	0.68 0.68
TOTAL	0.2049	0.1116	TOTAL N AMOUNTS IN KG AND % LEACHED	100.00 100.00	
			TOTAL N AMOUNTS IN KG AND %		

N2O-N/N in food/beverage/fuel/other		0.6657		0.3627	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.76		1.06	Note 50
		0.76		4.86	2.99 Note 51

SUMMARY CATTLE BEEF

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		5.58 5.57	1.26
Year N NH3	IPCC 1996	IPCC 2006		7.64 7.62	0.08
1-10 N leach	0.1650	0.0874	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	87.02 86.81	0.65
TOTAL	0.1863	0.0995	TOTAL N AMOUNTS IN KG AND % LEACHED	100.24 100.00	

N2O-N/N in food/beverage/fuel/other		0.6673		0.3566	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.80		1.12	Note 50
		0.80		4.53	2.79 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED CATTLE MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		5.53 5.52	1.26
Year N NH3	IPCC 1996	IPCC 2006		7.97 7.95	0.08
1-10 N leach	0.1715	0.0873	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	86.75 86.53	0.65
TOTAL	0.1931	0.0994	TOTAL N AMOUNTS IN KG AND % LEACHED	100.25 100.00	

N2O-N/N in food/beverage/fuel/other		0.6982		0.3593	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.79		1.11	Note 50
		0.76		4.66	2.78 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER CATTLE DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		5.37 5.24	1.23
Year N NH3	IPCC 1996	IPCC 2006		11.27 11.01	0.11
1-10 N leach	0.1781	0.0873	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	85.71 83.74	0.64
TOTAL	0.1989	0.0995	TOTAL N AMOUNTS IN KG AND % LEACHED	102.35 100.00	

N2O-N/N in food/beverage/fuel/other		0.7411		0.3706	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.76		1.06	Note 50
		0.76		4.74	2.75 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING CATTLE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		5.44 5.44	1.54
Year N NH3	IPCC 1996	IPCC 2006		3.32 3.32	0.03
1-10 N leach	0.1786	0.0983	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	91.24 91.24	0.68
TOTAL	0.2070	0.1131	TOTAL N AMOUNTS IN KG AND % LEACHED	100.00 100.00	

N2O-N/N in food/beverage/fuel/other		0.7606		0.4155	Note 46
Area with crop, ha		Total/year 1			
Natural background emissions, kg N2O-N/ha:		0.76		1.07	Note 50
		0.76		4.90	3.02 Note 51

SUMMARY PIG PORK

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID PIG MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		9.02	1.20
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	6.88	0.07
1-10 N leach	0.1650	0.0867	TOTAL N AMOUNTS IN KG AND % LEACHED	84.10	0.63
TOTAL	0.1797	0.0951	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other				0.3985	0.2108
Area with crop, ha		Total/year 1		1.09	Note 50
Natural background emissions, kg N2O-N/ha:		0.78		0.78	Note 51
		0.78		4.37	2.68
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED PIG MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		8.80	1.18
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	8.63	0.09
1-10 N leach	0.1698	0.0868	TOTAL N AMOUNTS IN KG AND % LEACHED	82.81	0.62
TOTAL	0.1825	0.0943	TOTAL N AMOUNTS IN KG AND %	100.24	100.00
N2O-N/N in food/beverage/fuel/other				0.4148	0.2143
Area with crop, ha		Total/year 1		1.06	Note 50
Natural background emissions, kg N2O-N/ha:		0.76		0.76	Note 51
		0.76		4.41	2.64
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER PIG DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		8.69	1.16
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	10.85	0.11
1-10 N leach	0.1739	0.0870	TOTAL N AMOUNTS IN KG AND % LEACHED	81.61	0.61
TOTAL	0.1849	0.0939	TOTAL N AMOUNTS IN KG AND %	101.15	100.00
N2O-N/N in food/beverage/fuel/other				0.4255	0.2161
Area with crop, ha		Total/year 1		1.05	Note 50
Natural background emissions, kg N2O-N/ha:		0.75		0.75	Note 51
		0.75		4.45	2.63
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM ROOTING PIGS	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		9.04	1.44
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	3.08	0.03
1-10 N leach	0.1753	0.0950	TOTAL N AMOUNTS IN KG AND % LEACHED	87.87	0.66
TOTAL	0.1971	0.1066	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other				0.4360	0.2357
Area with crop, ha		Total/year 1		1.08	Note 50
Natural background emissions, kg N2O-N/ha:		0.77		0.77	Note 51
		0.77		4.71	2.90

SUMMARY POULTRY MEAT

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY MEAT POULTRY MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		10.81 10.81	1.18
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	5.71 5.71	0.06
1-10 N leach	0.1646	0.0861	TOTAL N AMOUNTS IN KG AND % LEACHED	83.48 83.48	0.63
TOTAL	0.1776	0.0934	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45

N2O-N/N in food/beverage/fuel/other 0.3287 0.1728 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1 0.76 1.07
 0.76 2.63 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY MEAT POULTRY MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		10.63 10.63	1.15
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	7.53 7.53	0.08
1-10 N leach	0.1688	0.0865	TOTAL N AMOUNTS IN KG AND % LEACHED	81.84 81.84	0.61
TOTAL	0.1787	0.0921	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45

N2O-N/N in food/beverage/fuel/other 0.3362 0.1733 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1 0.75 1.05
 0.75 2.59 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER POULTRY DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY MEAT POULTRY MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		10.43 10.42	1.13
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	8.53 8.52	0.09
1-10 N leach	0.1715	0.0868	TOTAL N AMOUNTS IN KG AND % LEACHED	81.12 81.05	0.61
TOTAL	0.1795	0.0914	TOTAL N AMOUNTS IN KG AND %	100.08 100.00	Note 45 Note 45

N2O-N/N in food/beverage/fuel/other 0.3443 0.1752 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1 0.73 1.03
 0.73 2.56 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM SCRAPING POULTRY	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY MEAT POULTRY MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		10.67 10.67	1.37
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.92 2.92	0.03
1-10 N leach	0.1735	0.0932	TOTAL N AMOUNTS IN KG AND % LEACHED	86.41 86.41	0.65
TOTAL	0.1914	0.1024	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45

N2O-N/N in food/beverage/fuel/other 0.3588 0.1920 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1 1.04 1.04
 0.75 2.79 Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY 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		10.67 10.67	1.37
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.92 2.92	0.03
1-10 N leach	0.1735	0.0932	TOTAL N AMOUNTS IN KG AND % LEACHED	86.41 86.41	0.65
TOTAL	0.1914	0.1024	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	Note 45 Note 45

N2O-N/N in food/beverage/fuel/other 0.3588 0.1920 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1 1.04 1.04
 0.75 2.79 Note 51

SUMMARY POULTRY EGGS

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		5.28 5.28	1.26
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	7.83 7.83	0.08
1-10 N leach	0.1651	0.0876	TOTAL N AMOUNTS IN KG AND % LEACHED	86.89 86.89	0.65
TOTAL	0.1860	0.0993	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other 0.7045 0.3763 Note 46

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

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		5.14 5.14	1.21
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	10.65 10.65	0.11
1-10 N leach	0.1716	0.0881	TOTAL N AMOUNTS IN KG AND % LEACHED	84.20 84.20	0.63
TOTAL	0.1875	0.0973	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other 0.7290 0.3782 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1
 0.77 1.08
 0.77

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER POULTRY DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		4.99 4.98	1.17
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	12.13 12.11	0.12
1-10 N leach	0.1758	0.0887	TOTAL N AMOUNTS IN KG AND % LEACHED	83.00 82.90	0.62
TOTAL	0.1885	0.0959	TOTAL N AMOUNTS IN KG AND %	100.12 100.00	

N2O-N/N in food/beverage/fuel/other 0.7556 0.3842 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1
 0.74 1.04
 0.74

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM SCRAPING POULTRY	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		5.17 5.17	1.55
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	3.34 3.34	0.03
1-10 N leach	0.1789	0.0986	TOTAL N AMOUNTS IN KG AND % LEACHED	91.49 91.49	0.69
TOTAL	0.2078	0.1136	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other 0.8033 0.4392 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1
 0.76 1.07
 0.76

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		5.17 5.17	1.55
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	3.34 3.34	0.03
1-10 N leach	0.1789	0.0986	TOTAL N AMOUNTS IN KG AND % LEACHED	91.49 91.49	0.69
TOTAL	0.2078	0.1136	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other 0.8033 0.4392 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1
 0.76 1.07
 0.76

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		5.17 5.17	1.55
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	3.34 3.34	0.03
1-10 N leach	0.1789	0.0986	TOTAL N AMOUNTS IN KG AND % LEACHED	91.49 91.49	0.69
TOTAL	0.2078	0.1136	TOTAL N AMOUNTS IN KG AND %	100.00 100.00	

N2O-N/N in food/beverage/fuel/other 0.8033 0.4392 Note 46

Area with crop, ha
 Natural background emissions, kg N2O-N/ha:
 Total/year 1
 0.76 1.07
 0.76

N2O-N/N in food/beverage/fuel/other 0.8033 0.4392 Note 46

SUMMARY SHEEP AND GOATS

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SHEEP DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	SHEEP MILK/MUTTON SHEEP MILK/MUTTON	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED			
Year N NH3	IPCC 1996	IPCC 2006			
1-10 N leach	0.1796	0.0883			
TOTAL	0.2147	0.1054			

N2O-N/N in food/beverage/fuel/other		1.3583		0.6665	Note 46
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
		Total/year 1			
		0.79			Note 50
		0.79			Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING SHEEP	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	SHEEP MILK/MUTTON SHEEP MILK/MUTTON	Note 43 Note 43
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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	IPCC 1996	IPCC 2006			
1-10 N leach	0.1809	0.0834			
TOTAL	0.2140	0.0993			

N2O-N/N in food/beverage/fuel/other		1.3908		0.6453	Note 46
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
		Total/year 1			
		0.77			Note 50
		0.77			Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER GOAT DEEP LITTER	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	GOAT MILK/MEAT GOAT MILK/MEAT	Note 43 Note 43
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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	IPCC 1996	IPCC 2006			
1-10 N leach	0.1804	0.0886			
TOTAL	0.2067	0.1031			

N2O-N/N in food/beverage/fuel/other		2.0063		1.0008	Note 46
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
		Total/year 1			
		0.78			Note 50
		0.78			Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING GOATS	TO PRODUCE TO PRODUCE	MAIZE COBS FOR BIOETHANOL AND WINTER WHEAT FOR	GOAT MILK/MEAT GOAT MILK/MEAT	Note 43 Note 43
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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	IPCC 1996	IPCC 2006			
1-10 N leach	0.1818	0.0924			
TOTAL	0.2170	0.1101			

N2O-N/N in food/beverage/fuel/other		2.0761		1.0532	Note 46
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
		Total/year 1			
		0.77			Note 50
		0.77			Note 51

SUMMARY FOOD, FUEL, AND WASTE

N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	FOOD FOOD	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	20.00	1.06
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.1637		TOTAL N AMOUNTS IN KG AND % LEACHED	77.80	0.58
TOTAL	0.1637		TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	FUEL FUEL	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	20.00	1.06
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.1637		TOTAL N AMOUNTS IN KG AND % LEACHED	77.80	0.58
TOTAL	0.1637		TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	WASTE DUMPED ELSEWHERE WITHOUT LEACHING WASTE, DUMPED ELSEWHERE	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	20.00	1.06
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.1637		TOTAL N AMOUNTS IN KG AND % LEACHED	77.80	0.58
TOTAL	0.1637		TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	WASTE DUMPED IN FIELD AND LOST TO LEACH WASTE DUMPED IN FIELD	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	0.00	1.06
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.1887		TOTAL N AMOUNTS IN KG AND % LEACHED	97.80	0.73
TOTAL	0.1887		TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	No use	No use
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	0.00	1.06
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.1887		TOTAL N AMOUNTS IN KG AND % LEACHED	97.80	0.73
TOTAL	0.1887		TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	No use	No use
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	0.00	1.06
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.1887		TOTAL N AMOUNTS IN KG AND % LEACHED	97.80	0.73
TOTAL	0.1887		TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other					
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					
N CHAIN STARTING WITH AND CONTINUING WITH		N FERTILIZER NO MANURE	MAIZE COBS FOR BIOETHANOL AND NOTHING FOR	No use	No use
Total N	RATIO OF N2O-N TO N IN FIRST CROP		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	0.00	1.06
Year N NH3	IPCC 1996		TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.1887		TOTAL N AMOUNTS IN KG AND % LEACHED	97.80	0.73
TOTAL	0.1887		TOTAL N AMOUNTS IN KG AND %	100.00	100.00

SUMMARY CATTLE	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996	IPCC 2006	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
	FIRST YEAR	MIN	MAX	MIN	MAX
	TOTAL	0.1649	0.1786	0.0871	0.0983
		0.1851	0.2070	0.0986	0.1131

N2O-N/N in food/beverage/fuel/other					
Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX	
	0.76	0.80	0.76	1.07	

SUMMARY PIGS	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996	IPCC 2006	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
	FIRST YEAR	MIN	MAX	MIN	MAX
	TOTAL	0.1650	0.1753	0.0867	0.0950
		0.1797	0.1971	0.0939	0.1066

N2O-N/N in food/beverage/fuel/other					
Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX	
	0.75	0.78	0.75	0.78	

SUMMARY POULTRY	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996	IPCC 2006	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
	FIRST YEAR	MIN	MAX	MIN	MAX
	TOTAL	0.1646	0.1789	0.0861	0.0986
		0.1776	0.2078	0.0914	0.1136

N2O-N/N in food/beverage/fuel/other					
Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX	
	0.73	0.79	0.73	0.79	

SUMMARY SHEEP AND GOATS	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996	IPCC 2006	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
	FIRST YEAR	MIN	MAX	MIN	MAX
	TOTAL	0.1796	0.1818	0.0834	0.0924
		0.2067	0.2170	0.0993	0.1101

N2O-N/N in food/beverage/fuel/other					
Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX	
	0.77	0.79	0.77	0.79	

SUMMARY FODDER	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO	IPCC 1996	IPCC 2006	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006
	FIRST YEAR	MIN	MAX	MIN	MAX
	TOTAL	0.1646	0.1818	0.0834	0.0986
		0.1776	0.2170	0.0914	0.1136

N2O-N/N in food/beverage/fuel/other					
Natural background emissions in kg N2O-N/ha, area with crop in ha, and total emissions in kg N2O-N/ha:	MIN	MAX	MIN	MAX	
	0.73	0.80	0.73	1.07	