

BASIC VALUES														Version 310308,														Available at <a href="http://www.ppo.bugge.com">www.ppo.bugge.com</a>													
N CHAINS BASED UPON DANISH VALUES														Version 310308,														Available at <a href="http://www.ppo.bugge.com">www.ppo.bugge.com</a>													
AND WITH NORMAL IPCC N2O EMISSION VALUES														Version 310308,														Available at <a href="http://www.ppo.bugge.com">www.ppo.bugge.com</a>													
Crop, fodder/food	WRS	WWH	WWB	WBA	WYE	TRI	SBA	SWH	OAT	MCC	MCW	GRO	GCR	GCR	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>	0.64	0.64	0.54	0.60	0.59	0.53	0.60	0.58	0.73	0.62	1.05	0.83	1.33	11.68	0.44	0.81	-2.75	1.00	Note 16																						
N digestibility, crop/crop part with N	0.84	0.67	0.68	0.66	0.62	0.65	0.65	0.67	0.64	0.62	0.63	0.78	0.80	0.80	0.66	0.78	0.80	0.87	Note 4																						
<NUE/e> addition before cereal	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.04	0.11	29.21	0.00	0.00	-0.81	0.00	Note 34																						
<NUE/e> addition from straw	0.15	0.11	0.09	0.12	0.17	0.13	0.12	0.07	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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>	0.64	0.64	0.54	0.60	0.59	0.53	0.60	0.58	0.73	0.62										Note 16																					
N digestibility, crop part with N	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.83										Note 4																					
<NUE/e> addition before cereal	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										Note 34																					
<NUE/e> addition from straw	0.15	0.11	0.09	0.12	0.17	0.13	0.12	0.07	0.13	0.00										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	0.03	0.11	0.09	0.08	0.15	0.12	0.09	0.12	0.11	0.21	0.04	0.04	0.13	1.28	0.15	0.15	-0.30		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	0.47	11.96	0.00	0.00	-4.05		Note 34																						
Manure/ferti- lizer kind, #	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19																					
Manure handling	None	None	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter	Deep litter																					
Manure+straw, relative	1.000	1.016	1.159	1.000	1.024	1.127	1.000	1.000	1.000	1.013	1.000	1.162	1.000	1.162	1.000	1.000	1.000	1.000	1.000	1.000																					
Vol/NH3 House	0.000	0.080	0.060	0.000	0.140	0.250	0.000	0.100	0.250	0.400	0.000	0.150	0.000	0.150	0.000	0.000	0.000	0.000	0.000	0.000																					
Vol/NH3 Store	0.000	0.022	0.085	0.000	0.027	0.214	0.400	0.000	0.020	0.150	0.175	0.000	0.150	0.000	0.150	0.000	0.000	0.000	0.000	0.000																					
% use of field store	20	70	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85																					
Vol/NH3 Field	0.000	0.250	0.250	0.070	0.250	0.250	0.070	0.250	0.250	0.250	0.070	0.250	0.070	0.250	0.070	0.250	0.250	0.250	0.250	0.250																					
N efficiency	0.000	1.000	0.650	0.450	0.750	0.650	0.650	0.650	0.650	0.650	0.450	0.450	0.450	0.450	0.450	0.450	0.400	0.400	0.400	0.400																					
N-Vol/NH3 efficiency	1.022	0.933	0.867	0.600	0.484	1.000	0.867	0.867	0.867	0.867	0.600	0.484	0.600	0.484	0.600	0.484	0.933	0.533	0.533	0.533																					
Use Kind	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field	Waste moved in field																					
Kind	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle	Cattle																					
#	0	21	22	23	24	31	32	33	34	41	42	43	44	53	54	63	64	71	72	72																					
Fodder to food	N eff	NON	0.264	0.227	0.264	0.146	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310																					
Fodder to food	N eff	ORG	0.264	0.146	0.264	0.146	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310																					
Fodder to food	ND eff	NON	0.351	0.310	0.351	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310																					
Fodder to food	ND eff	ORG	0.351	0.199	0.351	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199																					
Ratios of N2O-N to N according to Fertilizer/manure	IPCC 1996 (current inventories)																																								
Handling/ house/store	N Animal Green																																								
Slurry and liquid manure	0 0.0010 0																																								
Solid manure and deep litter	0 0.0200 0																																								
Application/field	0.0125 0.0125 0.0125																																								
Grazing cattle, rooting pigs, craping poultry	0 0.0200 0																																								
Grazing, others	0 0.0200 0																																								
Volatilisation/NH3	0.0100 0.0100 0.0100																																								
Crop residues	0 0.0000 0.0125																																								
N fixing crops	0 0.0000 0.0125																																								
Leaching	0.0250 0.0250 0.0250																																								
Ratios of N2O-N to N according to Fertilizer/manure	IPCC 2006 (newest values, not yet used for inventories)																																								
Handling/ house/store	N Animal Green																																								
Slurry and liquid manure	0 0.0050 0																																								
Solid manure and deep litter	0 0.0050 0																																								
Application/field	0.0100 0.0100 0.0100																																								
Grazing cattle, rooting pigs, craping poultry	0 0.0200 0																																								
Grazing, others	0 0.0100 0																																								
Volatilisation/NH3	0.0100 0.0100 0.0100																																								
Crop residues	0 0.0000 0.0100																																								
N fixing crops	0 0.0000 0.0000																																								
Leaching	0.0075 0.0075 0.0075																																								

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

Year	Fertilizer/manure #	Store	Amounts	Field	Or-ganic	Nnorm	Crop	Straw	use &	leach	Crop	Cereal	benefit	1/0	1/0	Use	Fodder:	N crop	Food/	Fuel/	Manure	Final	N2O-N	emission	emission	Total	emission	Total
Year	1-10	N leach	1-10	N leach	1-10	Name	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	Name	Uses	#72	#71/	#8	#9	# Name	mounts	Each	Total	Each	Total	
RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO IPCC 1996 IPCC 2006 FIRST YEAR 0.0195 0.0163 TOTAL 0.0344 0.0278																												
TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3 48.1 47.6 TOTAL N AMOUNTS IN KG AND % LEACHED 26.3 26.0 TOTAL N AMOUNTS IN KG AND % LEACHED 26.7 26.4 TOTAL N AMOUNTS IN KG AND % 101.1 100.0																												

Year	N	1	100.0	100.0	2.2	NON	100.00	WRS	1.113	YES	1	1	97.8	21	71.3	21.0	0.0	0.0	0.0	14.5	21	50.2	2.02	2.95	1.92	2.38	1.92	2.38	
Year	1	Vol/NH3	N	YES	0.0	1.022	1.000	1.000	1.113	14.5	1.113	YES	12.0	Cattle	0.84	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.06	0.0125	1.25	1.40	0.06	0.0100	
Year	2	Vol/NH3	Cattle	YES	1.0	0.933	1.016	1.000	0.400	3.8	1.000	YES	34.5	Dairy	2	4.9	0.0	0.0	0.0	3.8	21	15.8	0.49	0.88	0.46	0.68	0.49	0.0050	
Year	3	Vol/NH3	Liquid	YES	1.0	0.933	1.016	1.000	0.400	3.8	1.000	YES	10.0	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.14	0.0125	0.14	0.1000	0.14	0.0100	
Year	4	Vol/NH3	Cattle	YES	1.0	0.933	1.016	1.000	0.400	3.8	1.000	YES	10.0	Dairy	2	1.5	0.0	0.0	0.0	1.2	21	5.0	0.15	0.28	0.15	0.21	0.07	0.0050	
Year	5	Vol/NH3	Liquid	YES	1.0	0.933	1.016	1.000	0.400	1.2	1.000	YES	3.1	Cattle	0.67	0.0	0.0	0.0	0.0	1.2	21	0.4	0.04	0.0125	0.04	0.1000	0.04	0.0100	
Year	6	Vol/NH3	Cattle	YES	1.0	0.933	1.016	1.000	0.400	1.2	1.000	YES	3.1	Dairy	2	1.9	0.4	0.0	0.0	0.4	21	1.5	0.05	0.09	0.02	0.0050	0.02	0.0050	
Year	7	Vol/NH3	Liquid	YES	1.0	0.933	1.016	1.000	0.443	0.4	1.000	YES	1.1	Cattle	0.65	0.0	0.0	0.0	0.0	0.3	21	0.1	0.01	0.0125	0.01	0.1000	0.01	0.0100	
Year	8	Vol/NH3	Liquid	YES	1.0	0.933	1.016	1.000	0.443	0.4	1.000	YES	1.1	Dairy	2	0.6	0.1	0.0	0.0	0.1	21	0.4	0.03	0.03	0.01	0.02	0.01	0.02	
Year	9	Vol/NH3	Cattle	YES	0.0	0.933	1.016	1.000	1.000	YES	1.000	YES	0.3	Cattle	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year	10	Vol/NH3	Liquid	YES	0.0	0.933	1.016	1.000	0.444	0.1	1.000	YES	0.3	Dairy	2	0.66	0.0	0.0	0.0	0.1	21	0.0	0.00	0.0125	0.00	0.0050	0.00	0.0050	
Year	11	Vol/NH3	Cattle	YES	0.0	0.933	1.016	1.000	0.444	0.1	1.000	YES	0.3	Cattle	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year	12	Vol/NH3	Liquid	YES	0.0	0.933	1.016	1.000	0.335	0.0	1.000	YES	0.1	Dairy	2	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0050	0.00	0.0050
Year	13	Vol/NH3	Cattle	YES	0.0	0.933	1.016	1.000	0.335	0.0	1.000	YES	0.1	Cattle	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year	14	Vol/NH3	Liquid	YES	0.0	0.933	1.016	1.000	0.400	0.0	1.000	YES	0.0	Dairy	2	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0050	0.00	0.0050
Year	15	Vol/NH3	Cattle	YES	0.0	0.933	1.016	1.000	0.400	0.0	1.000	YES	0.0	Cattle	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year	16	Vol/NH3	Liquid	YES	0.0	0.933	1.016	1.000	0.443	0.0	1.000	YES	0.0	Dairy	2	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0050	0.00	0.0050
Year	17	Vol/NH3	Cattle	YES	0.0	0.933	1.016	1.000	0.443	0.0	1.000	YES	0.0	Cattle	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0050	0.00	0.0050
Year	18	Vol/NH3	Liquid	YES	0.0	0.933	1.016	1.000	0.444	0.0	1.000	YES	0.0	Dairy	2	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	0.00	0.0100
Year	19	Vol/NH3	Cattle	YES	0.0	0.933	1.016	1.000	0.444	0.0	1.000	YES	0.0	Cattle	2	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0050	0.00	0.0050
Year	20	Vol/NH3	Liquid	YES	0.0	0.933	1.016	1.000	0.444	0.0	1.000	YES	0.0	Dairy	2	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0050	0.00	0.0050

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
Year	Area with crop, ha	0.77	0.27	0.08	0.04	0.01	0.00	0.00	0.00	0.00	0.00	1.17	1.52	Note 50
Possible additional non IPCC N2O-N emissions														
N residues emissions, ratio of N2O-N to N: 0.0000 Value														
Increased soil N emissions, kg N2O-N/ha: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.95 Note 51														
Natural background emissions, kg N2O-N/ha: 1.00 0.77 0.27 0.08 0.04 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.12 Note 51														



N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CATTLE DAIRY Note 43  
 AND CONTINUING WITH CATTLE DEEP LITTER TO PRODUCE CATTLE DAIRY Note 43

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

RATIO OF N2O-N TO N IN FIRST CROP TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED																	
Total N	100.0	100.0	0	100	22	1	1	97.8	21	71.3	21.0	0.0	14.5	23	50.2	39.0	1.69
Year N NH3	0.0	0.0	2.2	NON	100.00	WRS	1.113	YES	12.0	Cattle	0.84	0.0	0.0	0.0	3.0	34.0	0.37
1-10 N leach	1.022	1.000	ORG	1.00	1.113	0.271	14.5	12.0	Dairy	2	3.0	0.0	0.0	0.0	0.09	0.0050	0.22
	23	1	54.7	0	100	11	0	28.7	21	11.1	2.6	0.0	0.0	23	8.5	27.0	0.22
Year 2	16.4	1.159	9.6	NON	100.00	WWH	1.000	YES	14.5	Cattle	0.67	0.0	0.0	0.0	0.5	27.0	0.27
N leach	0.600	1.159	ORG	1.00	1.000	0.614	3.2	14.5	Dairy	2	3.1	0.0	0.0	0.0	0.0	0.0050	0.11
Year 3	2.8	1.159	1.6	NON	100.00	WBA	1.000	YES	2.4	Cattle	0.67	0.0	0.0	0.0	0.1	0.04	0.04
N leach	0.600	1.159	ORG	1.00	1.000	0.614	0.5	2.4	Dairy	2	0.5	0.0	0.0	0.0	0.0	0.0050	0.02
Year 4	1.6	1.159	0.3	NON	100.00	SBA	1.000	YES	0.4	Cattle	0.65	0.0	0.0	0.0	0.0	0.01	0.01
N leach	0.600	1.159	ORG	1.00	1.000	0.642	0.1	0.4	Dairy	2	0.1	0.0	0.0	0.0	0.0	0.0050	0.01
Year 5	0.1	1.159	0.2	NON	100.00	WBA	1.000	YES	0.1	Cattle	0.66	0.0	0.0	0.0	0.0	0.01	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.642	0.0	0.1	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00
Year 6	0.0	1.159	0.0	NON	100.00	WRS	1.113	YES	0.0	Cattle	0.84	0.0	0.0	0.0	0.0	0.00	0.00
N leach	0.600	1.159	ORG	1.00	1.113	0.572	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00
Year 7	0.0	1.159	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.67	0.0	0.0	0.0	0.0	0.00	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.614	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00
Year 8	0.0	1.159	0.0	NON	100.00	WRS	1.000	YES	0.0	Cattle	0.67	0.0	0.0	0.0	0.0	0.00	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.614	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00
Year 9	0.0	1.159	0.0	NON	100.00	SBA	1.000	YES	0.0	Cattle	0.65	0.0	0.0	0.0	0.0	0.00	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.642	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00
Year 10	0.0	1.159	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66	0.0	0.0	0.0	0.0	0.00	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.642	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00

N2O-N in food/beverage/fuel/other 0.0937

Year	N	1	100.0	100.0	0	100	22	1	1	97.8	21	71.3	21.0	0.0	14.5	23	50.2	1.25
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRS	1.113	YES	12.0	Cattle	0.84	0.0	0.0	0.0	3.0	0.05
	N leach	1.022	1.000	ORG	1.00	1.113	0.271	14.5	12.0	Dairy	2	3.0	0.0	0.0	0.0	0.09	0.0050	0.09
Year 2	Vol/NH3	Cattle	YES	16.4	9.6	NON	100.00	WWH	1.000	YES	14.5	Cattle	0.67	0.0	0.0	0.0	0.5	0.27
N leach	0.600	1.159	ORG	1.00	1.000	0.614	3.2	14.5	Dairy	2	3.1	0.0	0.0	0.0	0.0	0.0050	0.11	
Year 3	Vol/NH3	Cattle	YES	2.8	1.6	NON	100.00	WBA	1.000	YES	2.4	Cattle	0.67	0.0	0.0	0.0	0.1	0.04
N leach	0.600	1.159	ORG	1.00	1.000	0.614	0.5	2.4	Dairy	2	0.5	0.0	0.0	0.0	0.0	0.0050	0.02	
Year 4	Vol/NH3	Cattle	YES	1.6	0.3	NON	100.00	SBA	1.000	YES	0.4	Cattle	0.65	0.0	0.0	0.0	0.0	0.01
N leach	0.600	1.159	ORG	1.00	1.000	0.642	0.1	0.4	Dairy	2	0.1	0.0	0.0	0.0	0.0	0.0050	0.01	
Year 5	Vol/NH3	Cattle	YES	0.1	0.2	NON	100.00	WBA	1.000	YES	0.1	Cattle	0.66	0.0	0.0	0.0	0.0	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.642	0.0	0.1	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00	
Year 6	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WRS	1.113	YES	0.0	Cattle	0.84	0.0	0.0	0.0	0.0	0.00
N leach	0.600	1.159	ORG	1.00	1.113	0.572	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00	
Year 7	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Cattle	0.67	0.0	0.0	0.0	0.0	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.614	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00	
Year 8	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WRS	1.000	YES	0.0	Cattle	0.67	0.0	0.0	0.0	0.0	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.614	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00	
Year 9	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	0.0	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.642	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00	
Year 10	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	0.0	0.00
N leach	0.600	1.159	ORG	1.00	1.000	0.642	0.0	0.0	Dairy	2	0.0	0.0	0.0	0.0	0.0	0.0050	0.00	

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

Area with crop, ha 0.77 0.14 0.02 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.95 1.22

Possible additional non IPCC N2O-N emissions Value 0.0000  
 N residues emissions, ratio of N2O-N to N: 0.00  
 Increased soil N emissions, kg N2O-N/ha: 1.00  
 Natural background emissions, kg N2O-N/ha: 0.77

Total IPCC and non IPCC N2O 3.98  
 Total anthropogenic 3.98  
 Total including natural 4.93  
 Note 51  
 Note 51  
 Note 51  
 Note 51

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

Year Fertilizer/manure N crop Food/ Fuel/ Manure Final N2O-N emission N2O-N emission  
 # Store Amounts #71/ bev other handling N a- IPCC 1996 IPCC 2006  
 Name 1/0 Store Field 1/0 Name # Uses #21-61 #72 #8 #9 # Name mounts Each Total Each Total

RATIO OF N2O-N TO N IN FIRST CROP TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED															
Total N	IPCC 1996			IPCC 2006			TOTAL N AMOUNTS IN KG AND %			ENDING AS FOOD/FUEL/OTHER/REMOVED					
Year N NH3	100.0	0	100	22	1	1	97.8	21	71.3	21.0	0.0	14.5	24	50.2	46.5
1-10 N leach	0.0302	0.0302	0.0249	0.0249	0.0397	0.0397	12.0 Cattle	0.84	0.84	0.0	0.0	0.0	0.0	0.0	6.7
TOTAL	0.0538	0.0538	0.0397	0.0397	0.0397	0.0397	12.0 Dairy	2	2	3.4	0.0	0.0	24	11.1	6.8

N2O-N in food/beverage/fuel/other 0.0992 0.0731 Note 46

Year N	1	100.0	0	100	22	1	1	97.8	21	71.3	21.0	0.0	14.5	24	50.2	2.02	2.59	2.26	2.02	2.98	4.61	3.38	4.61	2.98	4.61	3.40	3.40	
1	Vol/NH3 N	YES	2.2 NON	100.00 WRS	1.113 YES	1	1	12.0 Cattle	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.02	0.125	0.02	0.02	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
Year N	2	50.2	0	100	11	0	1	46.7	21	14.5	3.4	0.0	0.0	24	11.1	0.09	0.200	0.30	0.09	0.35	1.17	1.17	1.17	0.35	1.17	0.99	0.99	
2	Vol/NH3 Cattle	YES	3.5 NON	100.00 WWH	1.000 YES	0	1	27.0 Cattle	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.04	0.125	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Year N	3	11.1	0	100	11	0	1	10.3	21	3.2	0.8	0.0	0.0	24	2.5	0.17	0.200	0.19	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
3	Vol/NH3 Cattle	YES	0.8 NON	100.00 WWH	1.000 YES	0	1	6.0 Cattle	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.01	0.125	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Year N	4	2.5	0	100	1	0	1	2.3	21	0.7	0.2	0.0	0.0	24	0.5	0.04	0.08	0.15	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
4	Vol/NH3 Cattle	YES	0.2 NON	100.00 SBA	1.000 YES	0	1	1.4 Cattle	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Year N	5	0.5	0	100	10	0	1	0.5	21	0.1	0.0	0.0	0.0	24	0.1	0.01	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
5	Vol/NH3 Cattle	YES	0.0 NON	100.00 WBA	1.000 YES	0	1	0.3 Cattle	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Year N	6	0.1	0	100	22	1	1	0.1	21	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Vol/NH3 Cattle	YES	0.0 NON	100.00 WRS	1.113 YES	1	1	0.0 Cattle	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Year N	7	0.0	0	100	11	0	1	0.0	21	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Vol/NH3 Cattle	YES	0.0 NON	100.00 WWH	1.000 YES	0	1	0.0 Cattle	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Year N	8	0.0	0	100	11	0	1	0.0	21	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Vol/NH3 Cattle	YES	0.0 NON	100.00 WWH	1.000 YES	0	1	0.0 Cattle	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Year N	9	0.0	0	100	1	0	1	0.0	21	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Vol/NH3 Cattle	YES	0.0 NON	100.00 SBA	1.000 YES	0	1	0.0 Cattle	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Year N	10	0.0	0	100	10	0	1	0.0	21	0.0	0.0	0.0	0.0	24	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Vol/NH3 Cattle	YES	0.0 NON	100.00 WBA	1.000 YES	0	1	0.0 Cattle	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N leach	Graz	0.484	1.000	ORG	1.000	0.0	0.0	0.0 Dairy	2	2	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 0.77 0.15 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.97 1.25

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

Kind of source  
 Current crops 0.00  
 Total anthropogenic 0.00  
 Total including natural 0.97

Total IPCC and non IPCC N2O 4.61  
 3.40 Note 51  
 3.40 Note 51  
 4.37 Note 51

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

Year Fertilizer/manure Store Amounts Field Name 1/0 Or-ganic 1/0 Nnorm propor tion, % Crop # Name 1/0 Cereal benefit 1/0 Straw used 1/0 Crop use & leach Fuel/ other #9 N crop Food/ bev #8 #71-61 Food #72 #21-61 Feeder: Uses #21-61 Manure Final N a- handling # Name N2O-N emission IPCC 1996 N2O-N emission IPCC 2006 Total Each Total 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											
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	0.0195	0.0355	0.0165	0.0287	0.0165	0.0287	0.0165	0.0287	0.0165	0.0287	0.0165	0.0287	0.0165	0.0287	0.0165	0.0287	0.0165	0.0287	0.0165	0.0287	0.0165	0.0287
TOTAL	0.0355	0.0287	0.0165	0.0287	0.0355	0.0287	0.0165	0.0287	0.0355	0.0287	0.0165	0.0287	0.0355	0.0287	0.0165	0.0287	0.0355	0.0287	0.0165	0.0287	0.0355	0.0287

N2O-N in food/beverage/fuel/other 0.0541 Note 46

Year	N	1	100.0	100.0	0	100	22	1	1	97.8	22	71.3	18.6	0.0	0.0	14.5	21	52.7	1.31	1.67	1.26	1.41	Note 47	
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRS	1.113	YES	12.0	Cattle	0.84	0.0	0.0	0.0	0.0	4.2	0.06	0.0125	0.06	0.0100	Note 48	
	N leach	1.022	1.000	1.000	ORG	1.00	1.113	14.5	0.271	12.0	Beef	2	3.0	Liquid	0.0	0.0	0.0	0.0	0.30	0.0010	0.09	0.0050	Note 49	
Year	N	21	1	49.3	48.2	0	100	11	0	36.2	22	21.7	4.5	0.0	0.0	4.0	21	17.2	0.50	0.92	0.49	0.71	Note 47	
2	Vol/NH3	Cattle	YES	1.1	12.1	NON	100.00	WWH	1.000	YES	10.5	Cattle	0.67	0.0	0.0	0.0	0.0	1.4	0.15	0.0125	0.15	0.0100	Note 48	
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	4.0	0.400	10.5	Beef	2	3.9	Liquid	0.0	0.0	0.0	0.0	0.26	0.0010	0.08	0.0050	Note 49	
Year	N	21	1	16.1	15.7	0	100	11	0	11.8	22	7.1	1.5	0.0	0.0	1.3	21	5.6	0.17	0.30	0.16	0.23	Note 47	
3	Vol/NH3	Cattle	YES	0.4	3.9	NON	100.00	WWH	1.000	YES	3.4	Cattle	0.67	0.0	0.0	0.0	0.0	0.4	0.4	0.05	0.0125	0.05	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	1.3	0.400	3.4	Beef	2	1.3	Liquid	0.0	0.0	0.0	0.0	0.09	0.0010	0.03	0.0050	Note 49	
Year	N	21	1	5.2	5.1	0	100	1	0	3.8	22	2.1	0.4	0.0	0.0	0.4	21	1.7	0.05	0.10	0.05	0.08	Note 47	
4	Vol/NH3	Cattle	YES	0.1	1.3	NON	100.00	SBA	1.000	YES	1.3	Cattle	0.65	0.0	0.0	0.0	0.0	0.1	0.1	0.02	0.0125	0.02	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.4	0.443	1.3	Beef	2	0.3	Liquid	0.0	0.0	0.0	0.0	0.03	0.0010	0.01	0.0050	Note 49	
Year	N	21	1	1.6	1.6	0	100	10	0	1.2	22	0.7	0.1	0.0	0.0	0.1	21	0.5	0.02	0.03	0.02	0.02	Note 47	
5	Vol/NH3	Cattle	YES	0.0	0.4	NON	100.00	WBA	1.000	YES	0.4	Cattle	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.1	0.444	0.4	Beef	2	0.1	Liquid	0.0	0.0	0.0	0.0	0.01	0.0010	0.00	0.0050	Note 49	
Year	N	21	1	0.5	0.5	0	100	22	1	0.4	22	0.2	0.1	0.0	0.0	0.1	21	0.2	0.00	0.01	0.00	0.01	Note 47	
6	Vol/NH3	Cattle	YES	0.0	0.1	NON	100.00	WRS	1.113	YES	0.1	Cattle	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.113	0.1	0.335	0.1	Beef	2	0.1	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year	N	21	1	0.2	0.2	0	100	11	0	0.1	22	0.1	0.0	0.0	0.0	0.0	21	0.1	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	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.0	0.400	0.0	Beef	2	0.0	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year	N	21	1	0.1	0.1	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	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.0	0.400	0.0	Beef	2	0.0	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year	N	21	1	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	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.0	0.443	0.0	Beef	2	0.0	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49	
Year	N	21	1	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	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Liquid	0.933	1.016	ORG	1.00	1.000	0.0	0.444	0.0	Beef	2	0.0	Liquid	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49	

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

Area with crop, ha 0.77 0.28 0.09 0.04 0.01 0.00 0.00 0.00 0.00 0.00 0.00 1.20 1.55 Note 50

Possible additional non IPCC N2O-N emissions Value 0.0000  
 N residues emissions, ratio of N2O-N to N: 0.00  
 Increased soil N emissions, kg N2O-N/ha: 1.00  
 Natural background emissions, kg N2O-N/ha: 0.77 0.28 0.09 0.04 0.01 0.00 0.00 0.00 0.00 0.00 0.00 1.20 Total including natural 4.24  
 Total IPCC and non IPCC N2O 3.04  
 Total anthropogenic 3.04  
 Total 3.66 Note 51

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

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

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED									
Year N NH3	1	1	100.0	100.0	0	100	22	1	1	97.8	22	71.3	18.6	0.0	0.0	14.5	22	44.2	43.7	
1-10 N leach	1.022	1.000	0.0	0.0	2.2	NON	100.00	WRS	1.113	YES	12.0	Cattle	0.84	0.0	0.0	0.0	Cattle	28.4	28.1	
						ORG	1.00	1.113	0.271	14.5	12.0	Beef	2	0.0	0.0	3.0	Sep	28.5	28.2	
	22	1	50.9	46.6	0	100	11	0	1	34.9	22	19.5	4.0	0.0	0.0	3.9	22	101.1	100.0	
						NON	100.00	WWH	1.000	YES	11.6	Cattle	0.67	0.0	0.0	0.0	Cattle	28.2	28.2	
						ORG	1.00	1.000	0.443	3.9	11.6	Beef	2	0.0	0.0	3.8	Sep	28.2	28.2	
	22	1	14.9	13.6	0	100	11	0	1	10.2	22	5.7	1.2	0.0	0.0	1.1	22	101.1	100.0	
						NON	100.00	WBA	1.000	YES	3.4	Cattle	0.67	0.0	0.0	0.0	Cattle	28.2	28.2	
						ORG	1.00	1.000	0.443	1.1	3.4	Beef	2	0.0	0.0	1.1	Sep	28.2	28.2	
	22	1	4.4	4.0	0	100	1	0	1	3.0	22	1.5	0.3	0.0	0.0	0.3	22	101.1	100.0	
						NON	100.00	SBA	1.000	YES	1.1	Cattle	0.65	0.0	0.0	0.0	Cattle	28.2	28.2	
						ORG	1.00	1.000	0.483	0.3	1.1	Beef	2	0.0	0.0	0.3	Sep	28.2	28.2	
	22	1	1.2	1.1	0	100	10	0	1	0.8	22	0.4	0.1	0.0	0.0	0.1	22	101.1	100.0	
						NON	100.00	WBA	1.000	YES	0.3	Cattle	0.66	0.0	0.0	0.0	Cattle	28.2	28.2	
						ORG	1.00	1.000	0.483	0.1	0.3	Beef	2	0.0	0.0	0.1	Sep	28.2	28.2	
	22	1	0.3	0.3	0	100	22	1	1	0.2	22	0.1	0.0	0.0	0.0	0.0	22	101.1	100.0	
						NON	100.00	WRS	1.113	YES	0.1	Cattle	0.84	0.0	0.0	0.0	Cattle	28.2	28.2	
						ORG	1.00	1.113	0.382	0.0	0.1	Beef	2	0.0	0.0	0.0	Sep	28.2	28.2	
	22	1	0.1	0.1	0	100	11	0	1	0.1	22	0.0	0.0	0.0	0.0	0.0	22	101.1	100.0	
						NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67	0.0	0.0	0.0	Cattle	28.2	28.2	
						ORG	1.00	1.000	0.443	0.0	0.0	Beef	2	0.0	0.0	0.0	Sep	28.2	28.2	
	22	1	0.0	0.0	0	100	11	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	22	101.1	100.0	
						NON	100.00	WWH	1.000	YES	0.0	Cattle	0.67	0.0	0.0	0.0	Cattle	28.2	28.2	
						ORG	1.00	1.000	0.443	0.0	0.0	Beef	2	0.0	0.0	0.0	Sep	28.2	28.2	
	22	1	0.0	0.0	0	100	1	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	22	101.1	100.0	
						NON	100.00	SBA	1.000	YES	0.0	Cattle	0.65	0.0	0.0	0.0	Cattle	28.2	28.2	
						ORG	1.00	1.000	0.483	0.0	0.0	Beef	2	0.0	0.0	0.0	Sep	28.2	28.2	
	22	1	0.0	0.0	0	100	10	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	22	101.1	100.0	
						NON	100.00	WBA	1.000	YES	0.0	Cattle	0.66	0.0	0.0	0.0	Cattle	28.2	28.2	
						ORG	1.00	1.000	0.483	0.0	0.0	Beef	2	0.0	0.0	0.0	Sep	28.2	28.2	

N2O-N in food/beverage/fuel/other 0.0833

Year N	1	1	100.0	100.0	0	100	22	1	1	97.8	22	71.3	18.6	0.0	0.0	14.5	22	52.7	52.7
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRS	1.113	YES	12.0	Cattle	0.84	0.0	0.0	0.0	Cattle	2.6	2.6
	N leach	1.022	1.000	0.0	0.0	ORG	1.00	1.113	0.271	14.5	12.0	Beef	2	0.0	0.0	3.0	Sep	0.0	0.0
Year N	22	1	50.9	46.6	0	100	11	0	1	34.9	22	19.5	4.0	0.0	0.0	3.9	22	15.4	15.4
2	Vol/NH3	Cattle	YES	4.3	11.6	NON	100.00	WWH	1.000	YES	11.6	Cattle	0.67	0.0	0.0	0.0	Cattle	0.8	0.8
	N leach	Sep	0.867	1.016	0.0	1.000	0.443	3.9	0.443	3.9	11.6	Beef	2	0.0	0.0	3.8	Sep	0.0	0.0
Year N	22	1	14.9	13.6	0	100	11	0	1	10.2	22	5.7	1.2	0.0	0.0	1.1	22	4.5	4.5
3	Vol/NH3	Cattle	YES	1.3	3.4	NON	100.00	WWH	1.000	YES	3.4	Cattle	0.67	0.0	0.0	0.0	Cattle	0.2	0.2
	N leach	Sep	0.867	1.016	0.0	1.000	0.443	1.1	0.443	1.1	3.4	Beef	2	0.0	0.0	1.1	Sep	0.0	0.0
Year N	22	1	4.4	4.0	0	100	1	0	1	3.0	22	1.5	0.3	0.0	0.0	0.3	22	1.2	1.2
4	Vol/NH3	Cattle	YES	0.4	1.0	NON	100.00	SBA	1.000	YES	1.1	Cattle	0.65	0.0	0.0	0.0	Cattle	0.1	0.1
	N leach	Sep	0.867	1.016	0.0	1.000	0.483	0.3	0.483	0.3	1.1	Beef	2	0.0	0.0	0.3	Sep	0.0	0.0
Year N	22	1	1.2	1.1	0	100	10	0	1	0.8	22	0.4	0.1	0.0	0.0	0.1	22	0.3	0.3
5	Vol/NH3	Cattle	YES	0.1	0.3	NON	100.00	WBA	1.000	YES	0.3	Cattle	0.66	0.0	0.0	0.0	Cattle	0.0	0.0
	N leach	Sep	0.867	1.016	0.0	1.000	0.483	0.1	0.483	0.1	0.3	Beef	2	0.0	0.0	0.1	Sep	0.0	0.0
Year N	22	1	0.3	0.3	0	100	22	1	1	0.2	22	0.1	0.0	0.0	0.0	0.0	22	0.1	0.1
6	Vol/NH3	Cattle	YES	0.0	0.1	NON	100.00	WRS	1.113	YES	0.1	Cattle	0.84	0.0	0.0	0.0	Cattle	0.0	0.0
	N leach	Sep	0.867	1.016	0.0	1.113	0.382	0.0	0.382	0.0	0.1	Beef	2	0.0	0.0	0.0	Sep	0.0	0.0
Year N	22	1	0.1	0.1	0	100	11	0	1	0.1	22	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0
7	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	0.0
	N leach	Sep	0.867	1.016	0.0	1.000	0.443	0.0	0.443	0.0	0.0	Beef	2	0.0	0.0	0.0	Sep	0.0	0.0
Year N	22	1	0.0	0.0	0	100	11	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0
8	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	0.0
	N leach	Sep	0.867	1.016	0.0	1.000	0.443	0.0	0.443	0.0	0.0	Beef	2	0.0	0.0	0.0	Sep	0.0	0.0
Year N	22	1	0.0	0.0	0	100	1	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0
9	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	0.0
	N leach	Sep	0.867	1.016	0.0	1.000	0.483	0.0	0.483	0.0	0.0	Beef	2	0.0	0.0	0.0	Sep	0.0	0.0
Year N	22	1	0.0	0.0	0	100	10	0	1	0.0	22	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0
10	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	0.0
	N leach	Sep	0.867	1.016	0.0	1.000	0.483	0.0	0.483	0.0	0.0	Beef	2	0.0	0.0	0.0	Sep	0.0	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 0.77 0.25 0.07 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 1.13 1.47

Possible additional non IPCC N2O-N emissions Value 0.0000  
 N residues emissions, ratio of N2O-N to N: 0.00  
 Increased soil N emissions, kg N2O-N/ha: 1.00  
 Natural background emissions, kg N2O-N/ha: 0.77 0.25 0.07 0.03 0.01 0.00 0.00 0.00 0.00 0.00 0.00 1.13 Total including natural 4.81  
 Total IPCC and non IPCC N2O 3.68  
 Kind of source Current crops  
 Total anthropogenic 3.68  
 Total including natural 4.81  
 Note 51 2.42 Note 51 2.42 Note 51 3.56 Note 51





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

Year Fertilizer/manure N crop Food/ Fuel/ Manure Final N2O-N emission  
 # Store Amounts #71/ be v other handling N a- N2O-N emission  
 Name 1/0 Store Field 1/0 Or- Nnorm Crop use & Straw Cereal benefit used 1/0 Crop use & # Uses #21-61 IPCC 1996 IPCC 2006  
 1/0 1/0 1/0 1/0 ganic propor # leach 1/0 leach 1/0 Name Fed Food #72 #8 #9 # Name mounts Each Total Each Total

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED									
Year N NH3	100.0	0	100	22	1	1	97.8	22	71.3	18.6	0.0	0.0	14.5	24	52.7	3.51	4.80	3.10	3.54	
1-10 N leach	0.0307	0.0559	0.0254	0.0413	1.113	YES	12.0	Cattle	0.84	0.0	0.0	0.0	0.0	Cattle	0.0	0.07	0.07	0.07	0.07	
TOTAL	0.0307	0.0559	0.0254	0.0413	0.271	14.5	12.0	Beef	2	3.2	0.0	0.0	5.4	24	12.1	1.22	1.22	0.37	0.37	

N2O-N in food/beverage/fuel/other 0.1086

Year N	1	100.0	0	100	22	1	1	97.8	22	71.3	18.6	0.0	0.0	14.5	24	52.7	3.51	4.80	3.10	3.54
1	Vol/NH3	N	YES	0.0	2.2	NON	100.00	WRS	1.113	YES	12.0	Cattle	0.84	0.0	0.0	0.0	0.0	0.02	0.02	0.02
Year N	2	1.022	1.000	1.000	1.113	0.271	14.5	12.0	Beef	2	3.2	0.0	0.0	3.0	Graz	0.0	0.30	0.30	0.09	0.09
2	Vol/NH3	Cattle	YES	0.0	52.7	0	1	49.0	22	15.3	3.2	0.0	0.0	5.4	24	12.1	0.92	1.67	0.80	1.05
Year N	3	0.484	1.000	1.000	1.000	1.000	YES	28.4	Cattle	0.67	0.7	0.0	0.0	0.0	Cattle	0.0	0.04	0.04	0.04	0.04
3	Vol/NH3	Cattle	YES	12.1	12.1	0	1	11.2	22	3.5	0.7	0.0	0.0	1.2	24	2.8	0.21	0.38	0.18	0.24
Year N	4	0.484	1.000	1.000	1.000	1.000	YES	6.5	Cattle	0.67	0.7	0.0	0.0	0.0	Cattle	0.0	0.01	0.01	0.01	0.01
4	Vol/NH3	Cattle	YES	0.0	0.8	NON	100.00	WWH	1.000	YES	1.2	6.5	Beef	2	1.2	Graz	0.16	0.20	0.05	0.05
Year N	5	0.484	1.000	1.000	1.000	1.000	YES	2.8	0	1	0.1	0.0	0.0	0.3	24	0.6	0.05	0.09	0.04	0.05
5	Vol/NH3	Cattle	YES	2.8	2.8	0	1	2.6	22	0.7	0.1	0.0	0.0	0.0	Cattle	0.0	0.00	0.00	0.00	0.00
Year N	6	0.484	1.000	1.000	1.000	1.000	YES	0.2	NON	SBA	1.5	Cattle	2	0.2	Graz	0.0	0.04	0.02	0.01	0.01
6	Vol/NH3	Cattle	YES	0.0	0.2	NON	100.00	SBA	1.000	YES	0.3	1.5	Beef	2	0.2	Graz	0.01	0.02	0.01	0.01
Year N	7	0.484	1.000	1.000	1.000	1.000	YES	0.6	0	1	0.6	0.6	Beef	2	0.6	0.0	0.00	0.00	0.00	0.00
7	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.3	0.3	Cattle	0.66	0.0	0.0	0.00	0.00	0.00	0.00
Year N	8	0.484	1.000	1.000	1.000	1.000	YES	0.1	0	1	0.1	0.1	Beef	2	0.1	0.1	0.01	0.02	0.01	0.01
8	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WRS	1.113	YES	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
Year N	9	0.484	1.000	1.000	1.000	1.000	YES	0.0	0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
9	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
Year N	10	0.484	1.000	1.000	1.000	1.000	YES	0.0	0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
10	Vol/NH3	Cattle	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
N leach	0.484	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

Area with crop, ha 0.77 0.16 0.04 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.98 1.27

Possible additional non IPCC N2O-N emissions Value 0.0000  
 N residues emissions, ratio of N2O-N to N: 0.00  
 Increased soil N emissions, kg N2O-N/ha: 1.00  
 Natural background emissions, kg N2O-N/ha: 0.77

Total IPCC and non IPCC N2O 4.80  
 Total anthropogenic 4.80  
 Total including natural 5.78  
 Note 51 3.54  
 Note 51 3.54  
 Note 51 4.52

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL Straw Crop Crop Fuel/ Fuel/ N2O-N emission  
 AND CONTINUING WITH LIQUID PIG MANURE TO PRODUCE benefit used & use # #71/ bev other IPCC 1996  
 Name 1/0 Store Field 1/0 Or-ganic 1/0 Nnorm propor # Name 1/0 Name Fed Food #72 #8 #9 # Name mounts Final N2O-N emission  
 Fertilizer/manure # Store Amounts 1/0  
 Name 1/0 Store Amounts 1/0  
 Name 1/0 Store Amounts 1/0

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

TOTAL N		TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED													57.1		1.78	2.51	1.63	2.01	Note 45
Year	N NH3	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3													22.4	0.22	0.22	0.22	Note 45		
1-10	N leach	TOTAL N AMOUNTS IN KG AND % LEACHED													20.5	0.51	0.15	0.15	Note 45		
TOTAL		TOTAL N AMOUNTS IN KG AND %													100.0	100.0			Note 45		

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	100.0	0	100	22	1	1	97.8	32	71.3	29.8	0.0	0.0	14.5	31	41.5	1.30	1.68	1.19	1.36	Note 47
1	Vol/NH3 N	YES	0.0	2.2	NON	100.00	WRS	1.113	YES	12.0	Pig	0.84	0.0	0.0	0.0	0.0	0.0	5.8	0.08	0.0125	0.08	0.0100	Note 48
	N leach	1.022	1.000	ORG	1.00	1.113	0.271	14.5	12.0	Pork	3	3	0.0	0.0	0.0	0.0	0.0	9.7	0.30	0.0010	0.09	0.0050	Note 49
Year	N	31	1	35.7	0	100	11	0	1	26.0	32	16.7	7.0	0.0	0.0	2.9	31	9.7	0.37	0.64	0.34	0.50	Note 47
2	Vol/NH3 Pig	YES	1.0	8.7	NON	100.00	WWH	1.000	YES	6.4	Pig	0.67	0.0	0.0	0.0	0.0	0.0	1.4	0.11	0.0125	0.11	0.0100	Note 48
	N leach	1.000	1.000	ORG	1.00	1.000	0.357	2.9	6.4	Pork	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0010	0.05	0.0050	Note 49
Year	N	31	1	8.4	0	100	11	0	1	6.1	32	3.9	1.6	0.0	0.0	0.7	31	2.3	0.09	0.15	0.08	0.12	Note 47
3	Vol/NH3 Pig	YES	0.2	2.0	NON	100.00	WWH	1.000	YES	1.5	Pig	0.67	0.0	0.0	0.0	0.0	0.0	0.3	0.03	0.0125	0.03	0.0100	Note 48
	N leach	1.000	1.000	ORG	1.00	1.000	0.357	0.7	1.5	Pork	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0010	0.01	0.0050	Note 49
Year	N	31	1	2.0	0	100	1	0	1	0.4	32	0.9	0.4	0.0	0.0	0.2	31	0.5	0.02	0.04	0.02	0.03	Note 47
4	Vol/NH3 Pig	YES	0.1	0.5	NON	100.00	SBA	1.000	YES	0.4	Pig	0.65	0.0	0.0	0.0	0.0	0.0	0.1	0.01	0.0125	0.01	0.0100	Note 48
	N leach	1.000	1.000	ORG	1.00	1.000	0.403	0.2	0.4	Pork	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0010	0.00	0.0050	Note 49
Year	N	31	1	0.4	0	100	10	0	1	0.3	32	0.2	0.1	0.0	0.0	0.0	31	0.1	0.00	0.01	0.00	0.01	Note 47
5	Vol/NH3 Pig	YES	0.0	0.1	NON	100.00	WBA	1.000	YES	0.1	Pig	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	1.000	1.000	ORG	1.00	1.000	0.404	0.0	0.1	Pork	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	31	1	0.1	0	100	22	1	1	0.1	32	0.0	0.0	0.0	0.0	0.0	31	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	WRS	1.113	YES	0.0	Pig	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	1.000	1.000	ORG	1.00	1.113	0.287	0.0	0.0	Pork	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	31	1	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
7	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	1.000	1.000	ORG	1.00	1.000	0.357	0.0	0.0	Pork	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	31	1	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
8	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	1.000	1.000	ORG	1.00	1.000	0.357	0.0	0.0	Pork	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	31	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
9	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Pig	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	1.000	1.000	ORG	1.00	1.000	0.403	0.0	0.0	Pork	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49
Year	N	31	1	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
10	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	1.000	1.000	ORG	1.00	1.000	0.404	0.0	0.0	Pork	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0010	0.00	0.0050	Note 49

Year	Year 1													Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1			
Area with crop, ha	0.77													0.22	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.37	Note 50

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



N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE WINTER RAPESEED FOR OIL AND PIG PORK  
 AND CONTINUING WITH PIG DEEP LITTER TO PRODUCE WINTER WHEAT FOR PIG PORK

Year Fertilizer/manure # Store Amounts Field 1/0 Or-ganic 1/0 Nnorm propor-tion, % Crop # N crop Food/#71-#72 Fuel/other #9 Manure handling # Name Final N a-mounts N2O-N emission IPCC 2006 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 1-10 N leach	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3										TOTAL N AMOUNTS IN KG AND % LEACHED									
	0.0269	0.0162																				
TOTAL	0.0353	0.0221	TOTAL N AMOUNTS IN KG AND %										TOTAL N AMOUNTS IN KG AND %									

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	100.0	0	100	22	1	1	97.8	32	71.3	29.8	0.0	0.0	14.5	33	41.5	1.88	2.31	1.17	3.03	1.40	1.89
1	Vol/NH3 N leach	YES	0.0	0.0	2.2	NON	100.00	WRS	1.113	YES	12.0	Pig	0.84	0.0	0.0	0.0	0.0	10.4	0.13	0.0125	0.13	0.36	1.39	0.0100
Year	N	33	1	35.1	21.0	0	100	11	0	1	32	8.8	3.7	0.0	0.0	1.7	33	5.1	0.30	0.0200	0.09	0.14	0.44	0.0050
2	Vol/NH3 Pig N leach	YES	14.0	1.27	5.3	NON	100.00	WWH	1.000	YES	5.2	Pig	0.67	0.0	0.0	0.0	0.0	1.3	0.21	0.0125	0.21	0.45	0.0100	0.0050
Year	N	33	1	4.3	2.6	0	100	11	0	1	32	1.1	0.5	0.0	0.0	0.2	33	0.6	0.04	0.08	0.02	0.02	0.05	0.0050
3	Vol/NH3 Pig N leach	YES	1.7	1.127	0.6	NON	100.00	WWH	1.000	YES	0.6	Pig	0.67	0.0	0.0	0.0	0.0	0.2	0.03	0.0125	0.03	0.36	0.0100	0.0050
Year	N	33	1	0.5	0.3	0	100	1	0	1	32	0.1	0.1	0.0	0.0	0.0	33	0.1	0.00	0.01	0.00	0.00	0.01	0.0050
4	Vol/NH3 Pig N leach	YES	0.2	1.127	0.1	NON	100.00	SBA	1.000	YES	0.1	Pig	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	0.01	0.0100
Year	N	33	1	0.1	0.0	0	100	10	0	1	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	0.00	0.0050
5	Vol/NH3 Pig N leach	YES	0.0	1.127	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	0.00	0.00
Year	N	33	1	0.0	0.0	0	100	22	1	1	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	0.00	0.0050
6	Vol/NH3 Pig N leach	YES	0.0	1.127	0.0	NON	100.00	WRS	1.113	YES	0.0	Pig	0.84	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	0.00	0.00
Year	N	33	1	0.0	0.0	0	100	11	0	1	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	0.00	0.0050
7	Vol/NH3 Pig N leach	YES	0.0	1.127	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	0.00	0.00
Year	N	33	1	0.0	0.0	0	100	11	0	1	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	0.00	0.0050
8	Vol/NH3 Pig N leach	YES	0.0	1.127	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	0.00	0.00
Year	N	33	1	0.0	0.0	0	100	1000	0.443	0.0	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	0.00	0.0050
9	Vol/NH3 Pig N leach	YES	0.0	1.127	0.0	NON	100.00	SBA	1.000	YES	0.0	Pig	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	0.00	0.00
Year	N	33	1	0.0	0.0	0	100	10	0	1	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	0.00	0.0050
10	Vol/NH3 Pig N leach	YES	0.0	1.127	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.00	0.00	0.00
Year	N	33	1	0.0	0.0	0	100	1000	0.483	0.0	32	0.0	0.0	0.0	0.0	0.0	33	0.0	0.00	0.00	0.00	0.00	0.00	0.0050

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

Value 0.0000 0.00 0.00 0.01 0.00

Kind of source Current crops Total anthropogenic Total including natural

Total IPCC and non IPCC N2O 3.03 3.03 3.93

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

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE TO PRODUCE  
 AND CONTINUING WITH MANURE FROM ROOTING PIGS TO PRODUCE TO PRODUCE

Year Fertilizer/manure N Store Amounts Field 1/0 Store 1/0 Or-ganic 1/0 Nnorm propor 1/0 Crop # Name Use Fodder: Crop use & leach Straw used 1/0 Cereal benefit 1/0 N crop Food/ #71/ #72 #73 Fuel/ other #9 Manure Final handling N a- # Name mounts Each Total N2O-N emission IPCC 1996 Each Total N2O-N emission IPCC 2006 Each Total N2O-N emission IPCC 2006 Total

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED									
Year N NH3	ACCORDING TO IPCC 1996					IPCC 2006					TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3					6.0				
1-10 N leach	FIRST YEAR					0.0281					0.0228					34.5				
TOTAL	0.0464					0.0351					TOTAL N AMOUNTS IN KG AND % LEACHED					100.0				

N2O-N in food/beverage/fuel/other 0.0670 0.0506 Note 46

Year N	1	100.0	100.0	0	100	22	1	1	97.8	32	71.3	29.8	0.0	0.0	14.5	34	41.5	59.5	3.06	3.98	2.69	3.01	Note 45
1	Vol/NH3 N	YES	0.0	2.2	NON	100.00	WRS	1.113	YES	12.0	Pig	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0125	1.85	1.96	Note 47
	N leach	1.022	1.000	ORG	1.00	1.113	0.271	14.5	12.0	Pork	3	3.0	Root	0.0	0.0	0.0	0.0	0.0	0.30	0.0200	0.02	0.0100	Note 48
Year N	2	34	1	41.5	0	100	11	0	1	38.6	32	17.3	7.2	0.0	0.0	4.3	34	10.1	0.74	1.19	0.09	0.0200	Note 49
2	Vol/NH3 Pig	YES	0.0	2.9	NON	100.00	WWH	1.000	YES	17.0	Pig	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0125	0.03	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000	0.551	4.3	17.0	Pork	3	4.2	Root	0.0	0.0	0.0	0.0	0.42	0.0200	0.13	0.0200	Note 49
Year N	3	34	1	10.1	0	100	11	0	1	9.4	32	4.2	1.8	0.0	0.0	1.0	34	2.5	0.18	0.29	0.16	0.19	Note 47
3	Vol/NH3 Pig	YES	0.0	0.7	NON	100.00	WWH	1.000	YES	4.1	Pig	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0125	0.01	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000	0.551	1.0	4.1	Pork	3	1.0	Root	0.0	0.0	0.0	0.0	0.10	0.0200	0.03	0.0200	Note 49
Year N	4	34	1	2.5	0	100	1	0	1	2.3	32	1.0	0.4	0.0	0.0	0.3	34	0.6	0.04	0.07	0.04	0.05	Note 47
4	Vol/NH3 Pig	YES	0.0	0.2	NON	100.00	SBA	1.000	YES	1.1	Pig	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000	0.583	0.3	1.1	Pork	3	0.2	Root	0.0	0.0	0.0	0.0	0.03	0.0200	0.01	0.0200	Note 49
Year N	5	34	1	0.6	0	100	10	0	1	0.5	32	0.2	0.1	0.0	0.0	0.1	34	0.1	0.01	0.02	0.01	0.01	Note 47
5	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.2	Pig	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000	0.583	0.1	0.2	Pork	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	6	34	1	0.1	0	100	22	1	1	0.1	32	0.1	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	0.00	Note 47
6	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	WRS	1.113	YES	0.0	Pig	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.113	0.502	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	7	34	1	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	0.00	Note 47
7	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000	0.551	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	8	34	1	0.0	0	100	11	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	0.00	Note 47
8	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	WWH	1.000	YES	0.0	Pig	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000	0.551	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	9	34	1	0.0	0	100	1	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	0.00	Note 47
9	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	SBA	1.000	YES	0.0	Pig	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000	0.583	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0200	0.00	0.0200	Note 49
Year N	10	34	1	0.0	0	100	10	0	1	0.0	32	0.0	0.0	0.0	0.0	0.0	34	0.0	0.00	0.00	0.00	0.00	Note 47
10	Vol/NH3 Pig	YES	0.0	0.0	NON	100.00	WBA	1.000	YES	0.0	Pig	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0125	0.00	0.0100	Note 48
	N leach	Root	0.699	1.000	ORG	1.00	1.000	0.583	0.0	0.0	Pork	3	0.0	0.0	0.0	0.0	0.0	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 0.77 0.18 0.04 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.01 1.31 Note 50

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 0.77 0.18 0.04 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

Natural background emissions, kg N2O-N/ha: 3.98 3.98 5.00 3.98 5.00 3.98 5.00 3.98 5.00 3.98 5.00 3.98 5.00 3.98 5.00 3.98 5.00 3.98 5.00 3.98 5.00 3.98 5.00 3.98

Total IPCC and non IPCC N2O 3.01 Note 45 3.01 Note 45 4.02 Note 51 4.02 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE CEREAL Straw Crop N2O-N emission  
 AND CONTINUING WITH LIQUID POULTRY MANURE TO PRODUCE benefit used & leach 1/0 1/0 1/0  
 WINTER RAPESEED FOR OIL AND FUEL/ OTHER/REMOVED  
 WINTER WHEAT FOR LEACHING AND % VOLATILISATION/NH3

Year	Fertilizer/manure #	Store 1/0	Amounts Store	Field 1/0	Or-ganic 1/0	Nnorm propor 1/0	Crop # Name	Use Name	Fodder: Fed	N crop #71-61	Fuel/ bev #72	Manure handling #	Final N a-	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total
Total N	1	1	100.0	100.0	2.2 NON	100.00 WRS	1	1	1.113 YES	12.0 Poultry	14.5	41	61.9	1.69	2.39	1.53
Year 1-10 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 1-10 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 2 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 3 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 4 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 5 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 6 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 7 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 8 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 9 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 10 N leach	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17

N2O-N in food/beverage/fuel/other

Year	Vol/NH3	N	100.0	100.0	2.2 NON	100.00 WRS	1	1	1.113 YES	12.0 Poultry	14.5	41	61.9	1.69	2.39	1.53
Year 1	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 2	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 3	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 4	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 5	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 6	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 7	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 8	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 9	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17
Year 10	1.022	1.000	0.0	0.0	ORG	1.00 1.113	0.271	14.5	0.84	3.0 Liquid	0.0	3.5	16.6	0.17	0.17	0.17

Area with crop, ha

Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Area with crop, ha	0.77	0.17	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.27

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

Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Total IPCC and non IPCC N2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39
Kind of source	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39
Total anthropogenic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39
Total including natural	1.00	0.77	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	3.37

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

Table with columns: Year, Fertilizer/manure #, Store, Amounts, Field, Or-ganic, Nnorm, Crop, Straw, Crop use, Use, Feeder, N crop, Fuel, Manure, Final, N2O-N emission, IPCC 2006, Total, N2O-N emission, IPCC 1996, Total, N2O-N emission, IPCC 2006, Total.

Summary table for N2O-N in food/beverage/fuel/other. Columns: Year, N, NH3, N leach, and various emission factors.

Main data table for N2O-N in food/beverage/fuel/other. Columns: Year, N, NH3, N leach, and various emission factors for 10 years.

Summary table for N2O-N in food/beverage/fuel/other. Columns: Year, Area with crop, ha, Possible additional non IPCC N2O-N emissions, N residues emissions, ratio of N2O-N to N, Increased soil N emissions, kg N2O-N/ha, Natural background emissions, kg N2O-N/ha, Total IPCC and non IPCC N2O, Kind of source, Total anthropogenic, Total including natural.







N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop Fuel/ Fuel/ N2O-N emission N2O-N emission  
 AND CONTINUING WITH LIQUID POULTRY MANURE TO PRODUCE use & use #71/ bev other IPCC 1996 IPCC 2006  
 Name 1/0 Store Field 1/0 Or- Nnorm Crop # Name Fed Food #72 #8 #9 # Name mounts Each Total Each Total

Year	Fertilizer/manure #	Store 1/0	Amounts Store 1/0	Field 1/0	Or- ganic 1/0	Nnorm propor 1/0	Crop # Name	Use Name	Fodder: Fed	N crop #72	Food #8	Fuel/ bev #9	Manure handling #	Final N a-	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006		
Total N	1	1	100.0	100.0	2.2 NON	100.0	22	1	1	1.113 YES	14.5	43.8	43.8	43.8	2.01	3.00	1.91	2.41
Year 1-10	N leach	1.022	1.000	1.000	ORG	1.00	1.113	14.5	0.84	0.271	0.0	0.0	0.0	0.0	0.28	0.28	0.28	0.28
	N leach	41	48.7	47.7	ORG	100	11	0	4	0	0.0	0.0	41	15.1	0.51	0.95	0.47	0.71
	Poultry YES		1.0	11.9 NON	100.00	WWH	1.000	YES	0.67	1.000	0.0	0.0	0.0	1.5	0.14	0.125	0.14	0.100
	Liquid	0.867	1.000	13.3	ORG	1.00	1.000	0	4	0.443	0.0	0.0	41	4.2	0.14	0.27	0.09	0.0050
	Poultry YES		0.3	3.3 NON	100.00	WWH	1.000	YES	0.67	1.000	0.0	0.0	0.0	0.4	0.04	0.125	0.04	0.100
	Liquid	0.867	1.000	3.7	ORG	1.00	1.000	1.1	4	0.443	0.0	0.0	0.0	1.1	0.08	0.08	0.02	0.0050
	Poultry YES		3.8	0.9 NON	100.00	SBA	1.000	YES	0.65	1.000	0.0	0.0	0.0	0.1	0.04	0.08	0.04	0.05
	Liquid	0.867	1.000	1.0	ORG	1.00	1.000	0.3	4	0.483	0.0	0.0	0.0	0.1	0.01	0.125	0.01	0.100
	Poultry YES		1.0	1.0	ORG	100	10	0	4	0	0.0	0.0	41	0.3	0.03	0.02	0.01	0.0050
	Liquid	0.867	1.000	0.2 NON	100.00	WBA	1.000	YES	0.66	1.000	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.2 NON	100.00	WBA	1.000	YES	0.66	1.000	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Liquid	0.867	1.000	0.3	ORG	1.00	1.000	0.1	4	0.483	0.0	0.0	41	0.0	0.01	0.00	0.00	0.0050
	Poultry YES		0.3	0.1 NON	100.00	WRS	22	1	0.84	1.113	0.0	0.0	0.0	0.1	0.00	0.00	0.00	0.0050
	Liquid	0.867	1.000	0.1	ORG	1.00	1.113	0.0	4	0.382	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.1	0.1	ORG	100	11	0	4	0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.0050
	Liquid	0.867	1.000	0.0	ORG	100.00	WWH	0	4	1.000	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.0	ORG	1.00	1.000	0	4	0.443	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Liquid	0.867	1.000	0.0	ORG	100	11	1	4	0.443	0.0	0.0	41	0.0	0.00	0.00	0.00	0.0050
	Poultry YES		0.0	0.0	ORG	100.00	WWH	1	4	1.000	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Liquid	0.867	1.000	0.0	ORG	1.00	1.000	0	4	0.443	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.0	ORG	100	10	1	4	1.000	0.0	0.0	41	0.0	0.00	0.00	0.00	0.0050
	Liquid	0.867	1.000	0.0	ORG	100.00	WBA	10	4	0.483	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.0	ORG	100.00	WBA	1.000	0.66	1.000	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Liquid	0.867	1.000	0.0	ORG	1.00	1.000	0	4	0.483	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100

N2O-N in food/beverage/fuel/other

Year	N	1	100.0	100.0	2.2 NON	100.0	22	1	1	1.113 YES	14.5	43.8	43.8	43.8	2.01	3.00	1.91	2.41
1	Vol/NH3 N	YES	0.0	12.0 Poultry	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.1	1.31	1.69	1.26	1.43
	N leach	1.022	1.000	12.0 Eggs	4	3.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.08	0.125	0.08	0.100
	Poultry YES		48.7	35.8	43	0	11	1	4	0	0.0	0.0	41	0.0	0.30	0.0010	0.09	0.0050
	Liquid	0.867	1.000	11.9 Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	0.51	0.95	0.47	0.71
	Poultry YES		1.0	11.9 Eggs	4	3.9	0.010	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.14	0.125	0.14	0.100
	Liquid	0.867	1.000	10.0	4	1.1	0.027	0.0	0.0	0.0	0.0	0.0	41	0.0	0.30	0.0010	0.09	0.0050
	Poultry YES		13.6	3.3 Poultry	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.14	0.27	0.13	0.20
	Liquid	0.867	1.000	3.3 Eggs	4	1.1	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.04	0.125	0.04	0.100
	Poultry YES		0.3	3.3 Poultry	0.67	1.0	1.000	1.1	4	1.000	0.0	0.0	0.0	0.0	0.08	0.08	0.02	0.0050
	Liquid	0.867	1.000	3.7	4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.04	0.08	0.04	0.05
	Poultry YES		3.8	1.0 Poultry	0.65	1.0	1.000	0.3	4	1.000	0.0	0.0	0.0	0.1	0.01	0.125	0.01	0.100
	Liquid	0.867	1.000	1.0 Eggs	4	0.2	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0010	0.01	0.0050
	Poultry YES		1.0	0.7	4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.01	0.02	0.01	0.01
	Liquid	0.867	1.000	0.3 Poultry	0.66	0.0	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.3 Poultry	4	0.66	1.000	0.1	4	1.000	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Liquid	0.867	1.000	0.3 Eggs	4	0.1	0.0010	0.0	0.0	0.0	0.0	0.0	41	0.0	0.01	0.00	0.00	0.0050
	Poultry YES		0.3	0.2	4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.00	0.00	0.0050
	Liquid	0.867	1.000	0.0 Poultry	0.84	0.0	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.0 Eggs	4	0.84	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Liquid	0.867	1.000	0.0 Eggs	4	0.0	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.1	0.1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.0050
	Liquid	0.867	1.000	0.0 Poultry	0.67	0.0	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.0 Eggs	4	0.67	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Liquid	0.867	1.000	0.0 Eggs	4	0.0	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.0050
	Liquid	0.867	1.000	0.0 Poultry	0.65	0.0	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.0 Eggs	4	0.65	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Liquid	0.867	1.000	0.0 Eggs	4	0.0	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.00	0.00	0.00	0.0050
	Liquid	0.867	1.000	0.0 Poultry	0.66	0.0	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Poultry YES		0.0	0.0 Eggs	4	0.66	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100
	Liquid	0.867	1.000	0.0 Eggs	4	0.0	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.100

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

Area with crop, ha 0.77 0.26 0.07 0.03 0.01 0.00 0.00 0.00 0.00 0.00 1.14 1.47

Possible additional non IPCC N2O-N emissions Value 0.0000

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

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

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

Total IPCC and non IPCC N2O 3.00

Kind of source 2.41 Note 51

0.00 Current crops 2.41 Note 51

0.00 Total anthropogenic 3.54 Note 51

1.14 Total including natural 4.14





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

Year Fertilizer/manure N crop Food/ Fuel/ Manure Final N2O-N emission N2O-N emission  
 # Store Amounts #71/ be v other handling N a- IPCC 1996 IPCC 2006  
 Name 1/0 Store Field 1/0 Or- Nnorm Crop Cereal Straw Crop use & # Uses #21-61 N2O-N emission  
 1/0 1/0 1/0 1/0 ganic propor # benefit used leach use # Fed Food #72 #8 #9 # Name mounts Each Total Each Total

Total N	RATIO OF N2O-N TO N IN FIRST CROP										TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED									
Year N NH3	100.0	0	100	22	1	1	97.8	43	71.3	17.2	0.0	0.0	14.5	44	54.1	3.54	4.84	3.13	3.57	
1-10 N leach	0.0311	0.0564	0.0258	0.0416	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3															
TOTAL	0.0311	0.0564	0.0258	0.0416	TOTAL N AMOUNTS IN KG AND % LEACHED															
	0.0311	0.0564	0.0258	0.0416	TOTAL N AMOUNTS IN KG AND %															

N2O-N in food/beverage/fuel/other 0.1110 0.0819 Note 46

Year N	1	100.0	0	100	22	1	1	97.8	43	71.3	17.2	0.0	0.0	14.5	44	54.1	2.34	2.66	2.10
1	Vol/NH3 N	YES	2.2	NON	100.00	WRS	1.113	YES	1.113	0.84	0.0	0.0	0.0	0.0	Poultry	0.0	0.02	0.125	0.02
	N leach	1.022	1.000	1.000	1.113	0.271	14.5	12.0	Eggs	4	3.0	Scrap	0.0	0.0	0.30	0.0200	0.09	0.0200	0.09
Year N	2	44	1	54.1	0	100	11	50.3	43	15.6	3.8	0.0	0.0	5.6	44	11.9	0.93	1.70	0.81
2	Vol/NH3	Poultry YES	0.0	3.8	NON	100.00	WWH	1.000	YES	1.000	0.67	0.0	0.0	0.0	Poultry	0.0	0.04	0.125	0.04
	N leach	Scrap 0.484	1.000	1.000	1.000	0.689	5.6	29.1	Eggs	4	5.4	Scrap	0.0	0.0	0.73	0.0200	0.22	0.0200	0.22
Year N	3	44	1	11.9	0	100	11	11.0	43	3.4	0.8	0.0	0.0	1.2	44	2.6	0.21	0.37	0.18
3	Vol/NH3	Poultry YES	0.0	0.8	NON	100.00	WWH	1.000	YES	1.000	0.67	0.0	0.0	0.0	Poultry	0.0	0.01	0.125	0.01
	N leach	Scrap 0.484	1.000	1.000	1.000	0.689	1.2	6.4	Eggs	4	1.2	Scrap	0.0	0.0	0.16	0.0200	0.05	0.0200	0.05
Year N	4	44	1	2.6	0	100	1	2.4	43	0.7	0.2	0.0	0.0	0.3	44	0.5	0.04	0.08	0.04
4	Vol/NH3	Poultry YES	0.0	0.2	NON	100.00	SBA	1.000	YES	1.000	0.65	0.0	0.0	0.0	Poultry	0.0	0.00	0.125	0.00
	N leach	Scrap 0.484	1.000	1.000	1.000	0.711	0.3	1.4	Eggs	4	0.2	Scrap	0.0	0.0	0.04	0.0200	0.01	0.0200	0.01
Year N	5	44	1	0.5	0	100	10	0.5	43	0.1	0.0	0.0	0.0	0.1	44	0.1	0.01	0.02	0.01
5	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WBA	1.000	YES	1.000	0.66	0.0	0.0	0.0	Poultry	0.0	0.00	0.125	0.00
	N leach	Scrap 0.484	1.000	1.000	1.000	0.712	0.1	0.3	Eggs	4	0.0	Scrap	0.0	0.0	0.01	0.0200	0.00	0.0200	0.00
Year N	6	44	1	0.1	0	100	22	0.1	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00
6	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WRS	1.113	YES	1.113	0.84	0.0	0.0	0.0	Poultry	0.0	0.00	0.125	0.00
	N leach	Scrap 0.484	1.000	1.000	1.113	0.655	0.0	0.1	Eggs	4	0.0	Scrap	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00
Year N	7	44	1	0.0	0	100	11	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00
7	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	YES	1.000	0.67	0.0	0.0	0.0	Poultry	0.0	0.00	0.125	0.00
	N leach	Scrap 0.484	1.000	1.000	1.000	0.689	0.0	0.0	Eggs	4	0.0	Scrap	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00
Year N	8	44	1	0.0	0	100	11	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00
8	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WWH	1.000	YES	1.000	0.67	0.0	0.0	0.0	Poultry	0.0	0.00	0.125	0.00
	N leach	Scrap 0.484	1.000	1.000	1.000	0.689	0.0	0.0	Eggs	4	0.0	Scrap	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00
Year N	9	44	1	0.0	0	100	1	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00
9	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	SBA	1.000	YES	1.000	0.65	0.0	0.0	0.0	Poultry	0.0	0.00	0.125	0.00
	N leach	Scrap 0.484	1.000	1.000	1.000	0.711	0.0	0.0	Eggs	4	0.0	Scrap	0.0	0.0	0.00	0.0200	0.00	0.0200	0.00
Year N	10	44	1	0.0	0	100	10	0.0	43	0.0	0.0	0.0	0.0	0.0	44	0.0	0.00	0.00	0.00
10	Vol/NH3	Poultry YES	0.0	0.0	NON	100.00	WBA	1.000	YES	1.000	0.66	0.0	0.0	0.0	Poultry	0.0	0.00	0.125	0.00
	N leach	Scrap 0.484	1.000	1.000	1.000	0.712	0.0	0.0	Eggs	4	0.0	Scrap	0.0	0.0	0.00	0.0200	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 0.77 0.16 0.04 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.98 1.27 Note 50

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

Total IPCC and non IPCC N2O  
 4.84  
 4.84  
 5.82

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

Note 51  
 3.57 Note 51  
 3.57 Note 51  
 4.55 Note 51

N CHAIN STARTING WITH N FERTILIZER TO PRODUCE Cereal Straw Crop N crop Food/ Fuel/ Manure Final N2O-N emission  
 AND CONTINUING WITH SHEEP DEEP LITTER TO PRODUCE benefit used & leach use # Uses #21-61 #71/ bev #72 #8 #9 other # N2O-N emission  
 SHEEP MILK/MUTTON SHEEP MILK/MUTTON

Year	Fertilizer/manure #	Store	Amounts	Field	Or-ganic	Nnorm	Crop	Straw	Use	Fodder:	N crop	Food/	Fuel/	Manure	Final	N2O-N emission										
Name	1/0	1/0	Name	1/0	1/0	%	leach	1/0	Name	Uses	#71/	#72	#8	# Name	N a-	Total										
TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED																										
Total N	1	1	100.0	100.0	2.2	NON	100.00	WRS	1.113	YES	1	1	1	97.8	51	71.3	10.1	0.0	0.0	14.5	53	61.2	35.1	39.4	35.1	
Year N NH3	0.0	0.0	0.0	0.0	0.0	NON	100.00	WRS	1.113	YES	1	1	1	12.0	Sheep	0.84	0.84	0.0	0.0	0.0	0.0	0.0	9.2	15.8	14.0	14.0
Year N leach	1.022	1.000	1.000	1.000	0.0	ORG	1.00	1.113	0.271	14.5	0	1	1	60.4	Milk/multi	5	5	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Year N NH3	53	1	60.4	60.4	0.0	NON	100.00	WWH	1.000	YES	1	1	1	60.4	51	23.3	3.3	0.0	0.0	6.7	53	20.0	20.0	57.3	50.9	
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.000	0.614	6.7	0	1	1	30.4	Sheep	0.67	0.67	0.0	0.0	0.0	0.0	0.0	3.0	112.5	100.0	
Year N NH3	53	1	19.7	19.7	0.0	NON	100.00	WRS	1.000	YES	1	1	1	19.7	51	7.6	1.1	0.0	0.0	2.2	53	6.5	6.5	57.3	50.9	
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.000	0.614	6.7	0	1	1	30.4	Milk/multi	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0	
Year N NH3	53	1	6.5	6.5	0.0	NON	100.00	SBA	1.000	YES	1	1	1	6.5	51	2.3	0.3	0.0	0.0	0.7	53	2.0	2.0	57.3	50.9	
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.000	0.642	0.7	0	1	1	3.4	Sheep	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.3	112.5	100.0	
Year N NH3	53	1	2.0	2.0	0.0	NON	100.00	WBA	1.000	YES	1	1	1	2.0	51	0.7	0.1	0.0	0.0	0.2	53	0.6	0.6	57.3	50.9	
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.000	0.642	0.7	0	1	1	3.4	Milk/multi	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0	
Year N NH3	53	1	0.6	0.6	0.0	NON	100.00	WRS	1.113	YES	1	1	1	0.6	51	0.3	0.0	0.0	0.0	0.1	53	0.2	0.2	57.3	50.9	
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.113	0.572	0.1	0	1	1	0.3	Sheep	0.84	0.84	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0	
Year N NH3	53	1	0.2	0.2	0.0	NON	100.00	WRS	1.113	YES	1	1	1	0.2	51	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.000	0.614	0.0	0	1	1	0.1	Sheep	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0	
Year N NH3	53	1	0.1	0.1	0.0	NON	100.00	WRS	1.000	YES	1	1	1	0.1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.000	0.614	0.0	0	1	1	0.0	Sheep	0.67	0.67	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0	
Year N NH3	53	1	0.0	0.0	0.0	NON	100.00	WRS	1.000	YES	1	1	1	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.000	0.642	0.0	0	1	1	0.0	Sheep	0.65	0.65	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0	
Year N NH3	53	1	0.0	0.0	0.0	NON	100.00	WRS	1.000	YES	1	1	1	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.000	0.642	0.0	0	1	1	0.0	Sheep	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0	
Year N NH3	53	1	0.0	0.0	0.0	NON	100.00	WBA	1.000	YES	1	1	1	0.0	Sheep	0.66	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0
Year N leach	0.600	1.162	1.162	1.162	0.0	ORG	1.00	1.000	0.642	0.0	0	1	1	0.0	Deep	5	5	0.0	0.0	0.0	0.0	0.0	0.0	112.5	100.0	

N2O-N in food/beverage/fuel/other

Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>97.8 <th>51 <th>71.3 <th>10.1 <th>0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>97.8 <th>51 <th>71.3 <th>10.1 <th>0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>97.8 <th>51 <th>71.3 <th>10.1 <th>0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>97.8 <th>51 <th>71.3 <th>10.1 <th>0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>97.8 <th>51 <th>71.3 <th>10.1 <th>0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	97.8 <th>51 <th>71.3 <th>10.1 <th>0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	51 <th>71.3 <th>10.1 <th>0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	71.3 <th>10.1 <th>0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	10.1 <th>0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	14.5 <th>53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th></th>	53 <th>61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th></th>	61.2 <th>2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th></th>	2.30 <th>2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th></th>	2.71 <th>1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th></th>	1.28 <th>2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th></th>	2.71 <th>1.28 <th>3.00 <th>3.00 </th></th></th>	1.28 <th>3.00 <th>3.00 </th></th>	3.00 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>12.0 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>12.0 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>12.0 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>12.0 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>12.0 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	12.0 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	0.84 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.0 <th>9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th></th>	9.2 <th>0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th></th>	0.11 <th>0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th></th>	0.11 <th>0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th></th>	0.0125 <th>0.16 <th>0.16 <th>3.00 </th></th></th>	0.16 <th>0.16 <th>3.00 </th></th>	0.16 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>60.4 <th>Milk/multi <th>5</th> <th>5</th> <th>3.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>60.4 <th>Milk/multi <th>5</th> <th>5</th> <th>3.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>60.4 <th>Milk/multi <th>5</th> <th>5</th> <th>3.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>60.4 <th>Milk/multi <th>5</th> <th>5</th> <th>3.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>60.4 <th>Milk/multi <th>5</th> <th>5</th> <th>3.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	60.4 <th>Milk/multi <th>5</th> <th>5</th> <th>3.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	Milk/multi <th>5</th> <th>5</th> <th>3.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	5	5	3.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	0.0 <th>0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.30 <th>0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0200 <th>0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.09 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>30.4 <th>Sheep <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>30.4 <th>Sheep <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>30.4 <th>Sheep <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>30.4 <th>Sheep <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>30.4 <th>Sheep <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	30.4 <th>Sheep <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	Sheep <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	0.67 <th>0.67 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	0.67 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.0 <th>3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	3.0 <th>0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.03 <th>0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.03 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>19.7 <th>51 <th>7.6</th> <th>1.1</th> <th>0.0 <th>0.0 <th>2.2</th> <th>53</th> <th>6.5</th> <th>0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>19.7 <th>51 <th>7.6</th> <th>1.1</th> <th>0.0 <th>0.0 <th>2.2</th> <th>53</th> <th>6.5</th> <th>0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>19.7 <th>51 <th>7.6</th> <th>1.1</th> <th>0.0 <th>0.0 <th>2.2</th> <th>53</th> <th>6.5</th> <th>0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>19.7 <th>51 <th>7.6</th> <th>1.1</th> <th>0.0 <th>0.0 <th>2.2</th> <th>53</th> <th>6.5</th> <th>0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>19.7 <th>51 <th>7.6</th> <th>1.1</th> <th>0.0 <th>0.0 <th>2.2</th> <th>53</th> <th>6.5</th> <th>0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	19.7 <th>51 <th>7.6</th> <th>1.1</th> <th>0.0 <th>0.0 <th>2.2</th> <th>53</th> <th>6.5</th> <th>0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	51 <th>7.6</th> <th>1.1</th> <th>0.0 <th>0.0 <th>2.2</th> <th>53</th> <th>6.5</th> <th>0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	7.6	1.1	0.0 <th>0.0 <th>2.2</th> <th>53</th> <th>6.5</th> <th>0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	0.0 <th>2.2</th> <th>53</th> <th>6.5</th> <th>0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	2.2	53	6.5	0.76 <th>0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0200 <th>0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.23 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>30.4 <th>Milk/multi <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>30.4 <th>Milk/multi <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>30.4 <th>Milk/multi <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>30.4 <th>Milk/multi <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>30.4 <th>Milk/multi <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	30.4 <th>Milk/multi <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	Milk/multi <th>0.67 <th>0.67 <th>0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	0.67 <th>0.67 <th>0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.67 <th>0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	2.1 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.0 <th>0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.01 <th>0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.01 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>6.5 <th>51 <th>2.3</th> <th>0.3</th> <th>0.0 <th>0.0 <th>0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>6.5 <th>51 <th>2.3</th> <th>0.3</th> <th>0.0 <th>0.0 <th>0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>6.5 <th>51 <th>2.3</th> <th>0.3</th> <th>0.0 <th>0.0 <th>0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>6.5 <th>51 <th>2.3</th> <th>0.3</th> <th>0.0 <th>0.0 <th>0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>6.5 <th>51 <th>2.3</th> <th>0.3</th> <th>0.0 <th>0.0 <th>0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	6.5 <th>51 <th>2.3</th> <th>0.3</th> <th>0.0 <th>0.0 <th>0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	51 <th>2.3</th> <th>0.3</th> <th>0.0 <th>0.0 <th>0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	2.3	0.3	0.0 <th>0.0 <th>0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.7 <th>53</th> <th>2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	2.0 <th>0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.25 <th>0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0200 <th>0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.07 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>3.4 <th>Sheep <th>0.65 <th>0.65 <th>0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>3.4 <th>Sheep <th>0.65 <th>0.65 <th>0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>3.4 <th>Sheep <th>0.65 <th>0.65 <th>0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>3.4 <th>Sheep <th>0.65 <th>0.65 <th>0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>3.4 <th>Sheep <th>0.65 <th>0.65 <th>0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	3.4 <th>Sheep <th>0.65 <th>0.65 <th>0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	Sheep <th>0.65 <th>0.65 <th>0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	0.65 <th>0.65 <th>0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.65 <th>0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.6 <th>53</th> <th>0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.3 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>2.0 <th>51 <th>0.7</th> <th>0.1 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>2.0 <th>51 <th>0.7</th> <th>0.1 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>2.0 <th>51 <th>0.7</th> <th>0.1 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>2.0 <th>51 <th>0.7</th> <th>0.1 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>2.0 <th>51 <th>0.7</th> <th>0.1 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	2.0 <th>51 <th>0.7</th> <th>0.1 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	51 <th>0.7</th> <th>0.1 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.7	0.1 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.2 <th>53</th> <th>0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.6 <th>0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.04 <th>0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.06 <th>0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.02 <th>0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.06 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>0.6 <th>51 <th>0.3</th> <th>0.0 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>0.6 <th>51 <th>0.3</th> <th>0.0 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>0.6 <th>51 <th>0.3</th> <th>0.0 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>0.6 <th>51 <th>0.3</th> <th>0.0 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>0.6 <th>51 <th>0.3</th> <th>0.0 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	0.6 <th>51 <th>0.3</th> <th>0.0 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	51 <th>0.3</th> <th>0.0 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.3	0.0 <th>0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.2 <th>53</th> <th>0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.2 <th>0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.03 <th>0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0200 <th>0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.01 <th>0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0200 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>0.3 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>0.3 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>0.3 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>0.3 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>0.3 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	0.3 <th>Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	Sheep <th>0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	0.84 <th>0.84 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.84 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.0 <th>53</th> <th>0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.0 <th>0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.01 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1 <th>1 <th>0.2 <th>51 <th>0.1 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1 <th>1 <th>0.2 <th>51 <th>0.1 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1 <th>1 <th>0.2 <th>51 <th>0.1 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1 <th>1 <th>0.2 <th>51 <th>0.1 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1 <th>0.2 <th>51 <th>0.1 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	0.2 <th>51 <th>0.1 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	51 <th>0.1 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	0.1 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.0 <th>53</th> <th>0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.1 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
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Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1</th> <th>1</th> <th>0.0 <th>51 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1</th> <th>1</th> <th>0.0 <th>51 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1</th> <th>1</th> <th>0.0 <th>51 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1	1	0.0 <th>51 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	51 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1</th> <th>1</th> <th>0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1</th> <th>1</th> <th>0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1</th> <th>1</th> <th>0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1	1	0.0 <th>Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	Sheep <th>0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	0.66 <th>0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	0.66 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00
Year	N	1	100.0 <th>100.0 <th>22 <th>1</th> <th>1</th> <th>1</th> <th>0.0 <th>Milk/multi <th>5 <th>5 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	100.0 <th>22 <th>1</th> <th>1</th> <th>1</th> <th>0.0 <th>Milk/multi <th>5 <th>5 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	22 <th>1</th> <th>1</th> <th>1</th> <th>0.0 <th>Milk/multi <th>5 <th>5 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th>	1	1	1	0.0 <th>Milk/multi <th>5 <th>5 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	Milk/multi <th>5 <th>5 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th></th>	5 <th>5 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th></th>	5 <th>0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th></th>	0.0 <th>0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th></th>	0.0 <th>53</th> <th>0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th></th>	53	0.0 <th>0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th></th>	0.00 <th>0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th></th>	0.0125 <th>0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th></th>	0.00 <th>0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th></th>	0.0125 <th>0.43 <th>0.43 <th>3.00 </th></th></th>	0.43 <th>0.43 <th>3.00 </th></th>	0.43 <th>3.00 </th>	3.00

Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Area with crop, ha	0.77	0.23	0.07	0.03	0.01	0.00	0.00	0.00	0.00	0.00	1.44
P											

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

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nhorm propor 1/0	Crop # Name	Straw used 1/0	Cereal benefit 1/0	Use # Name	Fodder: Uses #21-61 Fed	N crop #71/ #72	Food #8	Fuel/ other #9	Manure handling # Name	Final N a- mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	
Total N																				
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 0.0327 0.0131 TOTAL 0.0630 0.0276 TOTAL N AMOUNTS IN KG AND % LEACHED TOTAL N AMOUNTS IN KG AND %																				

N2O-N in food/beverage/fuel/other 0.1489

Year	Vol/NH3 N	leach	Store Name	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nhorm propor 1/0	Crop # Name	Straw used 1/0	Cereal benefit 1/0	Use # Name	Fodder: Uses #21-61 Fed	N crop #71/ #72	Food #8	Fuel/ other #9	Manure handling # Name	Final N a- mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total
Year 1	1	1	100.0	0	100	22	1	1	1	1.113	YES	0.84	0.0	0.0	14.5	54	61.2	2.48	2.81	1.02
Year 2	1	1	100.0	0	100	11	0	1	0	0.271	14.5	5	0.0	0.0	3.0	Graz	0.0	0.02	0.125	1.02
Year 3	1	1	100.0	0	100	11	0	1	0	1.000	YES	0.67	0.0	0.0	6.3	54	15.2	1.09	1.96	0.09
Year 4	1	1	100.0	0	100	11	0	1	0	0.689	6.3	5	0.0	0.0	6.2	Graz	0.0	0.04	0.125	0.09
Year 5	1	1	100.0	0	100	11	0	1	0	1.000	YES	0.67	0.0	0.0	1.6	54	3.8	0.27	0.49	0.09
Year 6	1	1	100.0	0	100	10	0	1	0	0.689	1.6	5	0.0	0.0	1.5	Graz	0.0	0.01	0.125	0.09
Year 7	1	1	100.0	0	100	10	0	1	0	1.000	YES	0.66	0.0	0.0	0.3	Graz	0.0	0.05	0.200	0.09
Year 8	1	1	100.0	0	100	22	0	1	0	0.712	0.1	5	0.0	0.0	0.1	Graz	0.0	0.01	0.020	0.09
Year 9	1	1	100.0	0	100	11	0	1	0	1.113	YES	0.84	0.0	0.0	0.0	54	0.1	0.00	0.125	0.09
Year 10	1	1	100.0	0	100	11	0	1	0	0.655	0.0	5	0.0	0.0	0.0	Graz	0.0	0.00	0.200	0.09

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

Area with crop, ha 0.77 0.18 0.05 0.02 0.00 0.00 0.00 0.00 0.00 0.00 1.02 1.32

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

Total IPCC and non IPCC N2O 5.40  
 Total anthropogenic 5.40  
 Total including natural 6.42

Note 43  
 Note 43  
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N CHAIN STARTING WITH NO MANURE TO PRODUCE CLOVER GRASS WITHOUT MANURE FOR HIGH N CROP  
 AND CONTINUING WITH GREEN MANURE HIGH N TO PRODUCE WINTER WHEAT FOR CATTLE DAIRY

Year	Fertilizer/manure #	Store 1/0	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor 1/0	Crop #	Cereal benefit 1/0	Straw used 1/0	Crop leach 1/0	Use #	Food Fed	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
RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO IPCC 1996 IPCC 2006 FIRST YEAR 0.0036 0.0036 TOTAL 0.0340 0.0269																				

Year	N	Vol/NH3	None	0	1	0.0	0.0	NON	100.00	CGRO	2610	1	1	270.2	71	0.0	0.0	4089.5	0.0	0.0	1095.3	Green	4089.5	71	1211	27.1	85	139	81	110	Note 45
1	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 47	
2	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 48	
3	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 49	
4	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 48	
5	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 49	
6	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 47	
7	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 48	
8	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 47	
9	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 48	
10	N	leach	1.000	1.000	1.000	1.000	1.000	ORG	1.00	1.296	-14.137	0.0	0.0	0.0	high N	71	0.8	0.0	0.0	0.0	81.4	High	0.0	0.00	0.0125	14.71	14.71	0.00	0.0100	Note 48	

Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1
Area with crop, ha	17.07	23.75	7.47	3.14	0.74	15.94	2.15	0.68	0.28	0.07	71.28	4.17
Possible additional non IPCC N2O-N emissions	Value	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N residues emissions, ratio of N2O-N to N:	Value	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Increased soil N emissions, kg N2O-N/ha:	Value	1.00	17.07	7.47	3.14	0.74	15.94	2.15	0.68	0.28	71.28	4.17
Natural background emissions, kg N2O-N/ha:	Value	1.00	17.07	7.47	3.14	0.74	15.94	2.15	0.68	0.28	71.28	4.17

Total IPCC and non IPCC N2O 139 110 Note 51 110 Note 51 181 Note 51

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

Year	Fertilizer/manure #	Store 1/0	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor 1/0	Crop #	Cereal benefit 1/0	Straw used 1/0	Crop leach 1/0	Use #	Feeder: Uses #21-61	N crop #71/	Food #72	Fuel/other #9	Manure handling #	Final N a-	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total		
Total N	0	1	0.0	0.0	0	100	2610	1	1	270.2	72	0.0	0.0	4089.5	0.0	72	4089.5	19.1	73	138	67	97
Year 1-10 N leach	None YES	1.000	0.0	0.0	NON	100.00	CGRO	1.296	YES	-3819.3	N crop	0.8	1095.3	Green	0.0	0.0	0.0	0.0	0.0	0.0	15	15
Year 1-10 N leach	72 Green YES	1.000	4089.5	4089.5	ORG	1.00	1.296	-14.137	0.0	0.0	low N	72	81.4	Low	0.0	0.0	0.0	0.0	0.0	0.0	15	15
Year 1-10 N leach	21 Low YES	0.533	0.0	1022.4	NON	100.00	WWH	1.000	YES	3067.1	Cattle	1051.3	338.9	0.0	0.0	21	803.8	64.3	10.87	96.01	38.52	61.96
Year 1-10 N leach	21 Cattle YES	1.000	751.3	734.8	ORG	1.00	1.000	0.657	338.9	1676.9	Dairy	2	331.7	Liquid	0.0	21	252.8	0.0	41.92	10.87	12.58	10.82
Year 1-10 N leach	21 Liquid YES	0.933	16.5	183.7	NON	100.00	WWH	1.000	YES	159.6	Cattle	0.67	59.6	Liquid	0.0	21	20.2	2.20	3.99	0.00	2.20	0.0100
Year 1-10 N leach	21 Cattle YES	1.000	236.3	231.1	ORG	1.00	1.000	0.400	60.9	173.3	Dairy	2	96.5	0.0	0.0	21	74.5	0.0	2.43	4.53	2.27	3.38
Year 1-10 N leach	21 Liquid YES	0.933	5.2	57.8	NON	100.00	SBA	1.000	YES	56.8	Cattle	0.65	15.3	Liquid	0.0	21	6.0	0.69	0.125	0.69	0.69	0.0100
Year 1-10 N leach	21 Cattle YES	1.000	69.6	68.1	ORG	1.00	1.000	0.443	20.0	51.1	Dairy	2	28.4	0.0	0.0	21	21.8	0.71	1.33	0.66	0.66	0.99
Year 1-10 N leach	21 Liquid YES	0.933	1.5	17.0	NON	100.00	WBA	1.000	YES	16.8	Cattle	0.66	3.9	Liquid	0.0	21	1.7	0.20	0.0125	0.20	0.20	0.0100
Year 1-10 N leach	21 Cattle YES	1.000	20.4	19.9	ORG	1.00	1.000	0.444	5.9	16.8	Dairy	2	0.0	0.0	0.0	72	211.3	1.00	1.06	0.96	1.02	
Year 1-10 N leach	21 Liquid YES	0.933	1.016	5.0	NON	100.00	ERROR	1.296	YES	-196.4	N crop	0.8	60.6	Green	0.0	72	0.0	0.05	0.0125	0.05	0.05	0.0000
Year 1-10 N leach	72 Green YES	1.000	211.3	211.3	ORG	1.00	1.296	-13.128	0.0	0.0	low N	72	4.5	Low	0.0	0.0	0.0	0.00	0.0000	0.00	0.00	0.0000
Year 1-10 N leach	21 Green YES	0.533	0.0	52.8	NON	100.00	WWH	1.000	YES	158.5	21	54.3	12.8	0.0	0.0	21	41.5	2.23	4.96	1.99	3.20	
Year 1-10 N leach	21 Low YES	0.533	1.000	38.0	ORG	1.00	1.000	0.657	17.5	86.6	Cattle	0.67	17.1	Liquid	0.0	21	3.3	0.56	0.0125	0.56	0.56	0.0100
Year 1-10 N leach	21 Cattle YES	1.000	38.8	38.0	ORG	1.00	1.000	0.400	3.1	28.5	Dairy	2	4.0	0.0	0.0	21	13.1	0.41	0.73	0.38	0.56	
Year 1-10 N leach	21 Liquid YES	0.933	0.9	9.5	NON	100.00	WWH	1.000	YES	8.2	Cattle	0.67	3.1	Liquid	0.0	21	1.0	0.11	0.0125	0.11	0.11	0.0100
Year 1-10 N leach	21 Cattle YES	1.000	12.2	11.9	ORG	1.00	1.000	0.400	3.1	9.0	Dairy	2	1.1	0.0	0.0	21	3.8	0.13	0.23	0.12	0.17	
Year 1-10 N leach	21 Liquid YES	0.933	0.3	3.0	NON	100.00	SBA	1.000	YES	2.9	Cattle	0.65	0.8	Liquid	0.0	21	0.3	0.04	0.0125	0.04	0.04	0.0100
Year 1-10 N leach	21 Cattle YES	1.000	3.6	3.5	ORG	1.00	1.000	0.443	1.0	2.9	Dairy	2	0.3	0.0	0.0	21	1.1	0.04	0.07	0.02	0.02	
Year 1-10 N leach	21 Liquid YES	0.933	0.1	0.9	NON	100.00	WBA	1.000	YES	0.9	Cattle	0.66	0.2	Liquid	0.0	21	0.1	0.01	0.0125	0.01	0.01	0.0100
Year 1-10 N leach	21 Cattle YES	1.000	1.016	0.9	ORG	1.00	1.000	0.444	0.3	0.9	Dairy	2	0.2	Liquid	0.0	21	0.0	0.02	0.0010	0.01	0.01	0.0050

N2O-N in food/beverage/fuel/other 0.1679 0.1181 Note 46

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		17.07	13.57	4.27	1.79	0.42	15.94	0.70	0.22	0.09	0.02	54.10	3.17
Area with crop, ha		17.07	13.57	4.27	1.79	0.42	15.94	0.70	0.22	0.09	0.02	54.10	3.17

Possible additional non IPCC N2O-N emissions Value 0.0000  
 N residues emissions, ratio of N2O-N to N: 0.00  
 Increased soil N emissions, kg N2O-N/ha: 1.00  
 Natural background emissions, kg N2O-N/ha: 17.07

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE TO PRODUCE TO PRODUCE WINTER WHEAT FOR NOTHING FOR FOOD FOOD

Year	Fertilizer/manure #	Store 1/0	Amounts Store	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Straw used 1/0	Use #	Fodder: Uses #21-61 Fed	N crop #71/ #72	Fuel/ bev #8	Fuel/ other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total
Total N	1	1	100.0	100.0	0	100	1	0	1	8	0.0	64.3	10.8	0	75.1	1.35	1.94	1.11
Year 1-10 N leach	YES	1.022	1.000	0.0	2.2 NON	100.00	WWH	1.000	YES	0.67	0.0	0.0	0.0	NONE	2.2	0.02	0.02	0.02
Year 1-10 N leach	None	0	0.0	0.0	0.0	100	11	0	1	8	0.0	0.0	0.0	0	22.7	0.57	0.17	0.17
Year 2 N leach	None	1.000	1.000	0.0	0.0 NON	100.00	NO	1.000	YES	0.67	0.0	0.0	0.0	NONE	0.0	0.00	0.00	0.00
Year 3 N leach	None	1.000	1.000	0.0	0.0 NON	100.00	NO	1.000	YES	0.67	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 4 N leach	None	1.000	1.000	0.0	0.0 NON	100.00	NO	1.000	YES	0.65	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 5 N leach	None	1.000	1.000	0.0	0.0 NON	100.00	NO	1.000	YES	0.66	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 6 N leach	None	1.000	1.000	0.0	0.0 NON	100.00	NO	1.000	YES	0.66	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 7 N leach	None	1.000	1.000	0.0	0.0 NON	100.00	NO	1.000	YES	0.67	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 8 N leach	None	1.000	1.000	0.0	0.0 NON	100.00	NO	1.000	YES	0.67	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 9 N leach	None	1.000	1.000	0.0	0.0 NON	100.00	NO	1.000	YES	0.65	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 10 N leach	None	1.000	1.000	0.0	0.0 NON	100.00	NO	1.000	YES	0.66	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00

N2O-N in food/beverage/fuel/other

Year	Vol/NH3	N	100.0	100.0	0	100	1	0	1	8	0.0	64.3	10.8	0	75.1	1.35	1.94	1.11
Year 1	Vol/NH3	N	100.0	100.0	0	100	1	0	1	8	0.0	64.3	10.8	0	75.1	1.35	1.94	1.11
Year 2	Vol/NH3	None	0	0.0	0.0	100	11	0	1	8	0.0	0.0	0.0	0	22.7	0.57	0.17	0.17
Year 3	Vol/NH3	None	1.000	1.000	0.0	100	11	0	1	8	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 4	Vol/NH3	None	1.000	1.000	0.0	100	11	0	1	8	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 5	Vol/NH3	None	1.000	1.000	0.0	100	10	0	1	8	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 6	Vol/NH3	None	1.000	1.000	0.0	100	11	0	1	8	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 7	Vol/NH3	None	1.000	1.000	0.0	100	11	0	1	8	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 8	Vol/NH3	None	1.000	1.000	0.0	100	11	0	1	8	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 9	Vol/NH3	None	1.000	1.000	0.0	100	1	0	1	8	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00
Year 10	Vol/NH3	None	1.000	1.000	0.0	100	10	0	1	8	0.0	0.0	0.0	0	0.0	0.00	0.00	0.00

Year Area with crop, ha

Year	Area with crop, ha	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Total/year 1
Year	Area with crop, ha	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	1.00
Possible additional non N residues emissions, ratio of N2O-N to N:	Value	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Increased soil N emissions, kg N2O-N/ha:	Value	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural background emissions, kg N2O-N/ha:	Value	1.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	2.58

Total IPCC and non IPCC N2O

N CHAIN STARTING WITH N FERTILIZER AND CONTINUING WITH NO MANURE TO PRODUCE TO PRODUCE WINTER WHEAT FOR NOTHING FOR FUEL FUEL

Year	Fertilizer/manure #	Store 1/0	Amounts Store	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Straw used 1/0	Cereal benefit 1/0	Use #	Fodder: Uses #21-61 Fed	N crop #71/ #72	Food #8	Fuel/ other #9	Manure handling # Name	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	Each	Total	Note
Total N	1	1	100.0	100.0	0	100	1	0	0	97.8	9	0.0	0.0	0.0	75.1	75.1	1.35	1.94	1.11	1.30	Note 45	
Year 1-10 N leach	0	0	0.0	0.0	0.0259	0.0174	0	1.000	0.343	22.7	0.67	0.0	0.0	0.0	0.0	2.2	0.02	0.02	0.02	0.02	Note 45	
RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL																						
Year 1	1	1	100.0	100.0	0	100	1	0	0	97.8	9	0.0	0.0	0.0	75.1	75.1	1.35	1.94	1.11	1.30	Note 47	
Year 2	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 48	
Year 3	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 49	
Year 4	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 48	
Year 5	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 49	
Year 6	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 47	
Year 7	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 48	
Year 8	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 49	
Year 9	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 47	
Year 10	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 48	
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 49	

N2O-N in food/beverage/fuel/other

Year	Vol/NH3	N	Yes	100.0	0	100	1	0	0	97.8	9	0.0	0.0	0.0	75.1	0	0.0	1.35	1.94	1.11	1.30	Note
1	0	0	0.0	0.0	0.0	100	0	0	0	22.7	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.125	0.02	0.100	Note 48
Year	0	0	0.0	0.0	0.0	100	0	0	0	22.7	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0000	0.17	0.0000	Note 49
2	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.000	Note 47
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.0100	Note 48
3	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.000	Note 47
4	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.0100	Note 48
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49
5	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0100	Note 48
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0000	Note 49
6	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.0100	Note 48
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49
7	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.000	Note 47
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.0100	Note 48
8	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.000	Note 47
9	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0100	Note 48
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49
10	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.000	Note 47
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.125	0.00	0.0100	Note 48
Year	0	0	0.0	0.0	0.0	100	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0000	0.00	0.0000	Note 49

Year	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
Year	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	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	0.00	0.00	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	1.94
Increased soil N emissions, kg N2O-N/ha:	1.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	1.94	1.30
Natural background emissions, kg N2O-N/ha:	1.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	2.58	1.94



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

Year Fertilizer/manure # Store 1/0 Name 1/0 Store 1/0 Name 1/0 Crop # N crop #71/ #72 Fuel/ other #9 Manure Final N a- # Name mounts Each Total N2O-N emission IPCC 1996 IPCC 2006 N2O-N emission Total Each Total Note 44 Note 44 Note 44

Year	Fertilizer/manure #	Store 1/0	Name 1/0	Store 1/0	Name 1/0	Crop #	N crop #71/ #72	Fuel/ other #9	Manure Final N a- # Name mounts	Each	Total	N2O-N emission IPCC 1996	IPCC 2006	N2O-N emission Total	Each	Total	Note 44	Note 45
Total N	1	100.0	100.0	0	100	261	0	0.0	14195	62.3	285	417	317	395	317	395	Note 45	Note 45
Year 1-10 N leach	YES	0.0	2.2	NON	100.00	CGR	1.000	YES	5463	24.0	55	55	55	55	55	55	Note 45	Note 45
Year 1	1	1.022	1.000	ORG	1.00	1.000	-10.946	0.0	3129	13.7	78	78	23	23	23	23	Note 45	Note 45
Year 2	21	783.9	766.7	0	100	261	1	575.0	21	15754.7	116.84	131.53	173.38	188.07	173.38	188.07	Note 44	Note 44
Year 3	17.2	191.7	191.7	NON	100.00	CGR	3.500	YES	22787	100.0	0.0294	0.0294	0.0294	0.0294	0.0294	0.0294	Note 46	Note 46
Year 4	14726.2	1.016	14402.2	0	100	11	-37.169	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 47	Note 47
Year 5	324.0	3600.6	3600.6	NON	100.00	WWH	1.000	YES	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 47	Note 47
Year 6	1.016	1.016	1.016	ORG	1.00	1.000	0.400	1193.6	8	1168.3	0.0	0.0	0.0	0.0	0.0	0.0	Note 47	Note 47
Year 7	0.0	0.0	0.0	0	100	11	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 47	Note 47
Year 8	1.000	1.000	1.000	ORG	1.00	1.000	0.357	0.0	8	0.67	0.0	0.0	0.0	0.0	0.0	0.0	Note 47	Note 47
Year 9	0.0	0.0	0.0	0	100	11	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Note 47	Note 47
Year 10	1.000	1.000	1.000	ORG	1.00	1.000	0.357	0.0	8	0.67	0.0	0.0	0.0	0.0	0.0	0.0	Note 47	Note 47

N2O-N in food/beverage/fuel/other

Year	Vol/NH3	N	YES	1000	YES	1	97.8	21	1168.3	329.7	0.0	0.0	0.0	838.7	18.18	18.87	21.02	0.69	0.0100	Note 48	
Year 1	1	1.022	1.000	ORG	1.00	1.000	-1070.5	Cattle	0.8	1169.8	Cattle	125.0	Liquid	67.1	0.69	0.0125	0.69	0.0050	Note 48	Note 48	
Year 2	21	783.9	766.7	0	100	261	1	575.0	21	15754.7	116.84	131.53	173.38	188.07	173.38	188.07	173.38	0.0050	Note 48	Note 48	
Year 3	17.2	191.7	191.7	NON	100.00	CGR	3.500	YES	-21372.3	Cattle	6877.8	Liquid	1260.4	14.69	0.0125	14.69	0.0050	Note 48	Note 48	Note 48	
Year 4	14726.2	1.016	14402.2	0	100	11	-37.169	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0050	Note 48	Note 48	Note 48	
Year 5	324.0	3600.6	3600.6	NON	100.00	WWH	1.000	YES	3128.7	Food/ beverage	8	0.0	NONE	0.0	0.0	0.0	0.0	0.0000	Note 48	Note 48	Note 48
Year 6	1.016	1.016	1.016	ORG	1.00	1.000	0.400	1193.6	8	1168.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	Note 48	Note 48	Note 48
Year 7	0.0	0.0	0.0	0	100	11	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	Note 48	Note 48	Note 48
Year 8	1.000	1.000	1.000	ORG	1.00	1.000	0.357	0.0	8	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	Note 48	Note 48	Note 48
Year 9	0.0	0.0	0.0	0	100	11	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	Note 48	Note 48	Note 48
Year 10	1.000	1.000	1.000	ORG	1.00	1.000	0.357	0.0	8	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	Note 48	Note 48	Note 48

Year Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Total Total/year 1  
 Area with crop, ha 4.88 119.49 83.64 0.00 0.00 0.00 0.00 0.00 0.00 0.00 208.01 42.64  
 Possible additional non IPCC N2O-N emissions Value 0.0000  
 N residues emissions, ratio of N2O-N to N: 0.00  
 Increased soil N emissions, kg N2O-N/ha: 1.00  
 Natural background emissions, kg N2O-N/ha: 4.88 119.49 83.64 0.00 0.00 0.00 0.00 0.00 0.00 208.01 Total including natural 626  
 Total IPCC and non IPCC N2O 417 395 Note 51  
 Kind of source 417 395 Note 51  
 Current crops 417 395 Note 51  
 Total anthropogenic 417 395 Note 51  
 Total including natural 626 603 Note 51

SUMMARY CATTLE DAIRY

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43		
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		48.13	2.95	1.92	2.38
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	26.26	2.02	0.26	Note 45
1-10 N leach	0.0195	0.0163	TOTAL N AMOUNTS IN KG AND % LEACHED	26.68	0.67	0.20	Note 45
TOTAL	0.0344	0.0278	TOTAL N AMOUNTS IN KG AND %	101.08			Note 45
N2O-N/N in food/beverage/fuel/other					0.0613	0.0495	Note 46
Area with crop, ha			Total/year 1	1.17			
Natural background emissions, kg N2O-N/ha:				1.52			Note 50
				1.17	4.12	3.55	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43		
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		46.70	2.60	1.87	2.35
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	26.85	0.27	0.27	Note 45
1-10 N leach	0.0246	0.0162	TOTAL N AMOUNTS IN KG AND % LEACHED	27.51	0.69	0.21	Note 45
TOTAL	0.0414	0.0274	TOTAL N AMOUNTS IN KG AND %	101.06			Note 45
N2O-N/N in food/beverage/fuel/other					0.0761	0.0502	Note 46
Area with crop, ha			Total/year 1	1.11			Note 50
Natural background emissions, kg N2O-N/ha:				1.44			Note 51
				1.11	4.66	3.46	
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER CATTLE DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43		
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		42.48	2.87	1.69	2.28
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	37.09	0.37	0.37	Note 45
1-10 N leach	0.0298	0.0163	TOTAL N AMOUNTS IN KG AND % LEACHED	29.46	0.74	0.22	Note 45
TOTAL	0.0464	0.0266	TOTAL N AMOUNTS IN KG AND %	109.03			Note 45
N2O-N/N in food/beverage/fuel/other					0.0937	0.0538	Note 46
Area with crop, ha			Total/year 1	0.95			Note 50
Natural background emissions, kg N2O-N/ha:				1.22			Note 51
				0.95	4.93	3.23	
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING CATTLE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43		
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		46.54	3.38	2.98	3.40
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	6.71	0.07	0.07	Note 45
1-10 N leach	0.0302	0.0249	TOTAL N AMOUNTS IN KG AND % LEACHED	46.75	1.17	0.35	Note 45
TOTAL	0.0538	0.0397	TOTAL N AMOUNTS IN KG AND %	100.00			Note 45
N2O-N/N in food/beverage/fuel/other					0.0992	0.0731	Note 46
Area with crop, ha			Total/year 1	0.97			Note 50
Natural background emissions, kg N2O-N/ha:				1.25			Note 51
				0.97	5.58	4.37	



SUMMARY CATTLE BEEF

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		45.60	2.47
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	27.87	0.28
1-10 N leach	0.0195	0.0165	TOTAL N AMOUNTS IN KG AND % LEACHED	27.67	0.21
TOTAL	0.0355	0.0287	TOTAL N AMOUNTS IN KG AND %	101.15	100.00

N2O-N/N in food/beverage/fuel/other 0.0667 0.0541 Note 46

Area with crop, ha  
 Natural background emissions, kg N2O-N/ha:  
 Total/year 1  
 1.20 1.55  
 1.20

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		44.17	2.42
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	28.44	0.28
1-10 N leach	0.0249	0.0164	TOTAL N AMOUNTS IN KG AND % LEACHED	28.52	0.21
TOTAL	0.0429	0.0283	TOTAL N AMOUNTS IN KG AND %	101.13	100.00

N2O-N/N in food/beverage/fuel/other 0.0833 0.0549 Note 46

Area with crop, ha  
 Natural background emissions, kg N2O-N/ha:  
 Total/year 1  
 1.13 1.47  
 0.95

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER CATTLE DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		40.00	2.35
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	39.09	0.39
1-10 N leach	0.0304	0.0164	TOTAL N AMOUNTS IN KG AND % LEACHED	39.46	0.23
TOTAL	0.0480	0.0274	TOTAL N AMOUNTS IN KG AND %	109.55	100.00

N2O-N/N in food/beverage/fuel/other 0.1030 0.0587 Note 46

Area with crop, ha  
 Natural background emissions, kg N2O-N/ha:  
 Total/year 1  
 0.96 1.24  
 0.96

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

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

Area with crop, ha  
 Natural background emissions, kg N2O-N/ha:  
 Total/year 1  
 0.98 1.27  
 0.98

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		44.17	3.54
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	6.98	0.07
1-10 N leach	0.0307	0.0254	TOTAL N AMOUNTS IN KG AND % LEACHED	48.85	0.37
TOTAL	0.0559	0.0413	TOTAL N AMOUNTS IN KG AND %	100.00	100.00

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

Area with crop, ha  
 Natural background emissions, kg N2O-N/ha:  
 Total/year 1  
 0.98 1.27  
 0.98

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		44.17	3.54
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	6.98	0.07
1-10 N leach	0.0307	0.0254	TOTAL N AMOUNTS IN KG AND % LEACHED	48.85	0.37
TOTAL	0.0559	0.0413	TOTAL N AMOUNTS IN KG AND %	100.00	100.00

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

Area with crop, ha  
 Natural background emissions, kg N2O-N/ha:  
 Total/year 1  
 0.98 1.27  
 0.98

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	CATTLE BEEF CATTLE BEEF	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		44.17	3.54
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	6.98	0.07
1-10 N leach	0.0307	0.0254	TOTAL N AMOUNTS IN KG AND % LEACHED	48.85	0.37
TOTAL	0.0559	0.0413	TOTAL N AMOUNTS IN KG AND %	100.00	100.00

SUMMARY PIG PORK

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID PIG MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		57.15	1.63
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	22.37	0.22
1-10 N leach	0.0195	0.0159	TOTAL N AMOUNTS IN KG AND % LEACHED	20.48	0.15
TOTAL	0.0293	0.0234	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other				0.0440	0.0352
Area with crop, ha		Total/year 1		1.06	Note 50
Natural background emissions, kg N2O-N/ha:		1.37		1.06	Note 51
				3.57	3.07
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED PIG MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		52.67	1.50
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	28.12	0.28
1-10 N leach	0.0235	0.0160	TOTAL N AMOUNTS IN KG AND % LEACHED	20.18	0.15
TOTAL	0.0328	0.0225	TOTAL N AMOUNTS IN KG AND %	100.97	100.00
N2O-N/N in food/beverage/fuel/other				0.0533	0.0366
Area with crop, ha		Total/year 1		0.95	Note 50
Natural background emissions, kg N2O-N/ha:		1.23		0.95	Note 51
				3.76	2.88
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER PIG DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		50.46	1.40
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	36.03	0.36
1-10 N leach	0.0269	0.0162	TOTAL N AMOUNTS IN KG AND % LEACHED	18.02	0.14
TOTAL	0.0353	0.0221	TOTAL N AMOUNTS IN KG AND %	104.51	100.00
N2O-N/N in food/beverage/fuel/other				0.0600	0.0375
Area with crop, ha		Total/year 1		0.90	Note 50
Natural background emissions, kg N2O-N/ha:		1.17		0.90	Note 51
				3.93	2.79
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM ROOTING PIGS	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	PIG PORK PIG PORK	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		59.45	2.69
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	6.03	0.06
1-10 N leach	0.0281	0.0228	TOTAL N AMOUNTS IN KG AND % LEACHED	34.52	0.26
TOTAL	0.0464	0.0351	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other				0.0670	0.0506
Area with crop, ha		Total/year 1		1.01	Note 50
Natural background emissions, kg N2O-N/ha:		1.31		1.01	Note 51
				5.00	4.02

SUMMARY POULTRY MEAT

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY MEAT POULTRY MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	61.95	1.53
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	16.62	0.17
1-10 N leach	0.0192	0.0154	TOTAL N AMOUNTS IN KG AND % LEACHED	21.43	0.16
TOTAL	0.0279	0.0216	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other				0.0386	0.0299
Area with crop, ha		Total/year 1		1.27	
Natural background emissions, kg N2O-N/ha:		0.98		0.98	Note 50
		0.98		3.37	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY 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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	58.41	1.38
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	23.16	0.23
1-10 N leach	0.0227	0.0157	TOTAL N AMOUNTS IN KG AND % LEACHED	18.42	0.14
TOTAL	0.0295	0.0204	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other				0.0434	0.0300
Area with crop, ha		Total/year 1		1.18	
Natural background emissions, kg N2O-N/ha:		0.91		0.91	Note 50
		0.91		3.44	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER POULTRY DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY 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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	55.18	1.29
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	25.96	0.26
1-10 N leach	0.0250	0.0160	TOTAL N AMOUNTS IN KG AND % LEACHED	19.16	0.14
TOTAL	0.0308	0.0197	TOTAL N AMOUNTS IN KG AND %	100.29	100.00
N2O-N/N in food/beverage/fuel/other				0.0479	0.0307
Area with crop, ha		Total/year 1		1.09	
Natural background emissions, kg N2O-N/ha:		0.84		0.84	Note 50
		0.84		3.49	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM SCRAPING POULTRY	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY 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	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED	61.02	2.26
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	5.05	0.05
1-10 N leach	0.0266	0.0213	TOTAL N AMOUNTS IN KG AND % LEACHED	33.93	0.25
TOTAL	0.0408	0.0299	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other				0.0573	0.0420
Area with crop, ha		Total/year 1		1.16	
Natural background emissions, kg N2O-N/ha:		0.90		0.90	Note 50
		0.90		4.39	Note 51

SUMMARY POULTRY EGGS

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		43.79	43.79
Year N NH3	IPCC 1996	IPCC 2006		2.01	3.00
1-10 N leach	0.0196	0.0166	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	0.28	1.91
TOTAL	0.0350	0.0280	TOTAL N AMOUNTS IN KG AND % LEACHED	0.72	0.28
			TOTAL N AMOUNTS IN KG AND %	100.00	0.21

N2O-N/N in food/beverage/fuel/other	Area with crop, ha	Natural background emissions, kg N2O-N/ha:	Total/year 1	Note
			1.14	0.0549
			1.14	Note 46
			4.14	Note 50
				Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SEPARATED POULTRY MANURE	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		39.59	39.59
Year N NH3	IPCC 1996	IPCC 2006		2.24	3.19
1-10 N leach	0.0250	0.0171	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	0.38	1.64
TOTAL	0.0372	0.0255	TOTAL N AMOUNTS IN KG AND % LEACHED	0.57	0.38
			TOTAL N AMOUNTS IN KG AND %	100.00	0.17

N2O-N/N in food/beverage/fuel/other	Area with crop, ha	Natural background emissions, kg N2O-N/ha:	Total/year 1	Note
			1.01	0.0552
			1.01	Note 46
			4.20	Note 50
				Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER POULTRY DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		36.31	36.14
Year N NH3	IPCC 1996	IPCC 2006		2.31	3.30
1-10 N leach	0.0285	0.0176	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	0.41	1.46
TOTAL	0.0385	0.0238	TOTAL N AMOUNTS IN KG AND % LEACHED	0.59	0.41
			TOTAL N AMOUNTS IN KG AND %	100.47	0.18

N2O-N/N in food/beverage/fuel/other	Area with crop, ha	Natural background emissions, kg N2O-N/ha:	Total/year 1	Note
			0.89	0.0562
			0.89	Note 46
			4.19	Note 50
				Note 51

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM SCRAPING POULTRY	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	POULTRY EGGS POULTRY EGGS	Note
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		43.61	43.61
Year N NH3	IPCC 1996	IPCC 2006		3.54	4.84
1-10 N leach	0.0311	0.0258	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	0.07	3.13
TOTAL	0.0564	0.0416	TOTAL N AMOUNTS IN KG AND % LEACHED	1.23	0.07
			TOTAL N AMOUNTS IN KG AND %	100.00	0.37

N2O-N/N in food/beverage/fuel/other	Area with crop, ha	Natural background emissions, kg N2O-N/ha:	Total/year 1	Note
			0.98	0.0819
			0.98	Note 46
			5.82	Note 50
				Note 51

## SUMMARY SHEEP AND GOATS

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER SHEEP DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	SHEEP MILK/MUTTON SHEEP MILK/MUTTON	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED			
Year N NH3	IPCC 1996	IPCC 2006			
1-10 N leach	0.0316	0.0172	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	39.43 35.05 4.04 5.63	2.41 3.00
TOTAL	0.0656	0.0350	TOTAL N AMOUNTS IN KG AND % LEACHED	15.79 14.04 0.16	0.16
N2O-N/N in food/beverage/fuel/other			TOTAL N AMOUNTS IN KG AND % LEACHED	57.26 50.91 1.43	0.43
Area with crop, ha			TOTAL N AMOUNTS IN KG AND %	112.47 100.00	
Natural background emissions, kg N2O-N/ha:			Total/year 1		0.0761
			1.11		Note 46
			1.11		Note 50
				6.74	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING SHEEP	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	SHEEP MILK/MUTTON SHEEP MILK/MUTTON	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED			
Year N NH3	IPCC 1996	IPCC 2006			
1-10 N leach	0.0327	0.0131	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	36.31 36.31 3.93 5.40	1.87 2.37
TOTAL	0.0630	0.0276	TOTAL N AMOUNTS IN KG AND % LEACHED	7.89 7.89 0.08	0.08
N2O-N/N in food/beverage/fuel/other			TOTAL N AMOUNTS IN KG AND % LEACHED	55.81 55.81 1.40	0.42
Area with crop, ha			TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Natural background emissions, kg N2O-N/ha:			Total/year 1		0.0653
			1.02		Note 46
			1.02		Note 50
				6.42	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER GOAT DEEP LITTER	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	GOAT MILK/MEAT GOAT MILK/MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED			
Year N NH3	IPCC 1996	IPCC 2006			
1-10 N leach	0.0324	0.0175	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	29.00 26.04 3.38 4.78	1.95 2.68
TOTAL	0.0557	0.0313	TOTAL N AMOUNTS IN KG AND % LEACHED	44.11 39.61 0.44	0.44
N2O-N/N in food/beverage/fuel/other			TOTAL N AMOUNTS IN KG AND % LEACHED	38.25 34.35 0.96	0.29
Area with crop, ha			TOTAL N AMOUNTS IN KG AND %	111.36 100.00	
Natural background emissions, kg N2O-N/ha:			Total/year 1		0.0925
			1.03		Note 46
			1.03		Note 50
				5.81	Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER MANURE FROM GRAZING GOATS	TO PRODUCE TO PRODUCE	WINTER RAPESEED FOR OIL AND WINTER WHEAT FOR	GOAT MILK/MEAT GOAT MILK/MEAT	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED			
Year N NH3	IPCC 1996	IPCC 2006			
1-10 N leach	0.0335	0.0207	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	32.72 32.72 4.12 5.68	2.80 3.33
TOTAL	0.0662	0.0388	TOTAL N AMOUNTS IN KG AND % LEACHED	8.30 8.30 0.08	0.08
N2O-N/N in food/beverage/fuel/other			TOTAL N AMOUNTS IN KG AND % LEACHED	58.98 58.98 1.47	0.44
Area with crop, ha			TOTAL N AMOUNTS IN KG AND %	100.00 100.00	
Natural background emissions, kg N2O-N/ha:			Total/year 1		0.1018
			1.04		Note 46
			1.04		Note 50
				6.72	Note 51

SUMMARY N FIXATION FOR N CROP

N CHAIN STARTING WITH AND CONTINUING WITH	NO MANURE GREEN MANURE HIGH N	TO PRODUCE TO PRODUCE	CLOVER GRASS WITHOUT MANURE FOR WINTER WHEAT FOR	HIGH N CROP CATTLE DAIRY	Note 43 Note 43
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL	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 %	1211 27.13 1838 41.19 1414 31.68 4462 100.00	81 139 85 110 Note 45 Note 45 Note 45
N2O-N/N in food/beverage/fuel/other	IPCC 1996 0.0036 0.0340	IPCC 2006 0.0036 0.0269			
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					

N amount in reference crop year 2 after use of N crop as green manure, kg	1839.82
N amount in reference crop year 1 after synthetic N fertilizer, kg	71.29
Relative value of green manure, %	2580.69

N CHAIN STARTING WITH AND CONTINUING WITH	NO MANURE GREEN MANURE LOW N	TO PRODUCE TO PRODUCE	CLOVER GRASS WITHOUT MANURE FOR WINTER WHEAT FOR	LOW N CROP CATTLE DAIRY	Note 43 Note 43
Total N Year N NH3 1-10 N leach	RATIO OF N2O-N TO N IN FIRST CROP ACCORDING TO FIRST YEAR TOTAL	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 %	820 19.06 1474 34.26 2009 46.69 4303 100.00	67 138 73 97 Note 45 Note 45 Note 45
N2O-N/N in food/beverage/fuel/other	IPCC 1996 0.0036 0.0337	IPCC 2006 0.0036 0.0237			
Area with crop, ha					
Natural background emissions, kg N2O-N/ha:					

N amount in reference crop year 2 after use of N crop as green manure, kg	1051.32
N amount in reference crop year 1 after synthetic N fertilizer, kg	71.29
Relative value of green manure, %	1474.68

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

N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER NO MANURE	TO PRODUCE TO PRODUCE	WINTER WHEAT FOR NOTHING FOR	FOOD FOOD	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		75.08	1.35
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.0259	0.0174	TOTAL N AMOUNTS IN KG AND % LEACHED	22.72	0.57
TOTAL	0.0259	0.0174	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other			Total/year 1	0.0259	0.0174
Area with crop, ha			0.64	1.00	Note 50
Natural background emissions, kg N2O-N/ha:			0.64	2.58	1.94 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER NO MANURE	TO PRODUCE TO PRODUCE	WINTER WHEAT FOR NOTHING FOR	FUEL FUEL	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		75.08	1.35
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	2.20	0.02
1-10 N leach	0.0259	0.0174	TOTAL N AMOUNTS IN KG AND % LEACHED	22.72	0.57
TOTAL	0.0259	0.0174	TOTAL N AMOUNTS IN KG AND %	100.00	100.00
N2O-N/N in food/beverage/fuel/other			Total/year 1	0.0259	0.0174
Area with crop, ha			0.64	1.00	Note 50
Natural background emissions, kg N2O-N/ha:			0.64	2.58	1.94 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	CLOVER GRASS FOR CLOVER GRASS FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		42854	46.15
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	31724	34.16
1-10 N leach	0.0162	0.0186	TOTAL N AMOUNTS IN KG AND % LEACHED	18282	19.69
TOTAL	1.9161	1.8085	TOTAL N AMOUNTS IN KG AND %	92859	100.00
N2O-N/N in food/beverage/fuel/other			Total/year 1	0.0522	0.0493
Area with crop, ha			1007.57	206.55	Note 50
Natural background emissions, kg N2O-N/ha:			1007.57	3246	3120 Note 51
N CHAIN STARTING WITH AND CONTINUING WITH	N FERTILIZER LIQUID CATTLE MANURE	TO PRODUCE TO PRODUCE	CLOVER GRASS FOR CLOVER GRASS FOR	CATTLE DAIRY CATTLE DAIRY	Note 43 Note 43
Total N	RATIO OF N2O-N TO N IN FIRST CROP	TOTAL N AMOUNTS IN KG AND % ENDING AS FOOD/FUEL/OTHER/REMOVED		14195	62.30
Year N NH3	IPCC 1996	IPCC 2006	TOTAL N AMOUNTS IN KG AND % VOLATILISATION/NH3	5463	23.97
1-10 N leach	0.0162	0.0186	TOTAL N AMOUNTS IN KG AND % LEACHED	3129	13.73
TOTAL	0.3573	0.3382	TOTAL N AMOUNTS IN KG AND %	22787	100.00
N2O-N/N in food/beverage/fuel/other			Total/year 1	0.0294	0.0278
Area with crop, ha			208.01	42.64	Note 50
Natural background emissions, kg N2O-N/ha:			208.01	626	603 Note 51

SUMMARY CATTLE RATIO OF N2O-N TO N IN FIRST CROP  
 ACCORDING TO IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 FIRST YEAR 0.0195 0.0307 0.0162 0.0254  
 TOTAL 0.0344 0.0559 0.0266 0.0413

N2O-N emission N2O-N emission  
 IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 2.95 4.80 2.28 3.54

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

MIN MAX MIN MAX  
 0.0613 0.1086 0.0495 0.0801

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

MIN MAX  
 0.95 1.20  
 MIN MAX  
 0.95 1.27

4.12 5.78 3.23 4.52

SUMMARY PIGS RATIO OF N2O-N TO N IN FIRST CROP  
 ACCORDING TO IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 FIRST YEAR 0.0195 0.0281 0.0159 0.0228  
 TOTAL 0.0293 0.0464 0.0221 0.0351

N2O-N emission N2O-N emission  
 IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 2.51 3.98 1.89 3.01

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

MIN MAX MIN MAX  
 0.0440 0.0670 0.0352 0.0506

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

MIN MAX  
 0.90 1.06  
 MIN MAX  
 0.90 1.06

3.57 5.00 2.79 4.02

SUMMARY POULTRY RATIO OF N2O-N TO N IN FIRST CROP  
 ACCORDING TO IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 FIRST YEAR 0.0192 0.0311 0.0154 0.0258  
 TOTAL 0.0279 0.0564 0.0197 0.0416

N2O-N emission N2O-N emission  
 IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 2.39 4.84 1.69 3.57

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

MIN MAX MIN MAX  
 0.0386 0.1110 0.0299 0.0819

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

MIN MAX  
 0.84 1.14  
 MIN MAX  
 0.84 1.14

3.37 5.82 2.53 4.55

SUMMARY SHEEP AND GOATS RATIO OF N2O-N TO N IN FIRST CROP  
 ACCORDING TO IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 FIRST YEAR 0.0316 0.0335 0.0131 0.0207  
 TOTAL 0.0557 0.0662 0.0276 0.0388

N2O-N emission N2O-N emission  
 IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 4.78 5.68 2.37 3.33

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

MIN MAX MIN MAX  
 0.1427 0.1736 0.0653 0.1018

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

MIN MAX  
 1.02 1.11  
 MIN MAX  
 1.02 1.11

5.81 6.74 3.39 4.37

SUMMARY FODDER RATIO OF N2O-N TO N IN FIRST CROP  
 ACCORDING TO IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 FIRST YEAR 0.0192 0.0335 0.0131 0.0258  
 TOTAL 0.0279 0.0662 0.0197 0.0416

N2O-N emission N2O-N emission  
 IPCC 1996 IPCC 2006  
 MIN MAX MIN MAX  
 2.39 5.68 1.69 3.57

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

MIN MAX MIN MAX  
 0.0386 0.1736 0.0299 0.1018

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

MIN MAX  
 0.84 1.20  
 MIN MAX  
 0.84 1.27

3.37 6.74 2.53 4.55