

Crop, fodder/food	WRS	WWH	WWB	WBA	WYE	TRI	SBA	SWH	OAT	MCC	MCW	GRO	GCR	GHP	GRP	CGR0	CONC
Crop #	22	11	13	10	14	16	1	2	3	5	216	263	260	2520	252	2610	9999
<NUE/e>	0.64	0.64	0.54	0.60	0.59	0.53	0.60	0.58	0.73	0.62	1.05	0.83	1.33	11.68	0.44	0.81	1.00
N digestibility, crop/crop part with N	0.84	0.67	0.68	0.66	0.62	0.65	0.65	0.67	0.64	0.62	0.63	0.78	0.80	0.80	0.66	0.78	0.80
<NUE/e> addition before cereal	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.04	0.11	29.21	0.00	0.00	0.00
<NUE/e> addition from straw	0.15	0.11	0.09	0.12	0.17	0.13	0.12	0.07	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recalculated N norm, kg N/ha	144	157	198	147	117	141	118	118	93	140	160	309	199	21	132	132	-87

Crop, PPO/biodiesel/bioethanol	WRB	WWHB	WWBB	WBB	RYB	TRB	SBB	SWB	OAB	MCB
Crop #	229	119	139	109	149	169	19	29	39	59
<NUE/e>	0.64	0.64	0.54	0.60	0.59	0.53	0.60	0.58	0.73	0.62
N digestibility, crop part with N	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.83
<NUE/e> addition before cereal	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<NUE/e> addition from straw	0.15	0.11	0.09	0.12	0.17	0.13	0.12	0.07	0.13	0.00
Recalculated N norm, kg N/ha	144	157	198	147	117	141	118	118	93	140

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

Manure/ferti- lizer kind, #	None	0	1	2	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	6	6	71	72	72	None	None
Manure handling	None	None	Liquid	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	high N	low N	None	None
#	0	1	21	22	23	24	31	32	33	34	41	42	43	44	53	54	63	64	71	72	72	71	72	72	0	0
Manure+straw, relative	1.000	1.016	1.016	1.159	1.000	1.000	1.024	1.127	1.000	1.000	1.000	1.013	1.000	1.162	1.000	1.162	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000
Vol/NH3 House	0.000	0.080	0.050	0.060	0.000	0.140	0.180	0.250	0.000	0.100	0.250	0.400	0.150	0.000	0.150	0.000	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Vol/NH3 Store	0.000	0.000	0.000	0.300	0.000	0.027	0.214	0.400	0.000	0.020	0.150	0.175	0.150	0.000	0.150	0.000	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
% use of field store	0.000	0.022	0.250	0.250	0.250	0.070	0.250	0.250	0.070	0.250	0.250	0.250	0.250	0.070	0.250	0.070	0.250	0.070	0.250	0.070	0.250	0.250	0.250	0.250	0.250	0.250
N efficiency	0.000	1.000	0.700	0.650	0.450	0.750	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.700	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	0.699	0.867	0.867	0.867	0.600	0.484	0.600	0.484	0.600	0.484	0.600	0.484	0.600	0.933	0.533	0.533	0.533	

Use Kind	Waste moved in field	Cattle Dairy	Cattle Beef	Pig Pork	Poultry Meat	Poultry Eggs	Sheep Milk/mutton	Goat Milk/meat	N crop high N	N crop low N	Food/ beverage	Fuel/ other
#	0	21	22	32	42	43	51	61	71	72	8	9
Fodder to food	N eff	0.264	0.227	0.418	0.510	0.241	0.142	0.096	0.096	0.096	0.096	0.096
Fodder to food	N eff	0.264	0.146	0.269	0.328	0.272	0.142	0.096	0.096	0.096	0.096	0.096
Fodder to food	ND eff	0.351	0.310									
Fodder to food	ND eff	0.351	0.199									

Ratios of N2O-N to N according to Fertilizer/manure	IPCC 1996 (current inventories)	IPCC 2006 (newest values, not yet used for inventories)
Handling/ house/store	N Animal	N Animal
Slurry and liquid manure	0	0
Solid manure and deep litter	0	0
Application/field	0.0125	0.0100
Grazing cattle, rooting pigs, craping poultry	0	0
Grazing, others	0	0
Volatilisation/NH3	0.0100	0.0100
Crop residues	0	0
N fixing crops	0	0
Leaching	0.0250	0.0075

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

Year	Fertilizer/manure #	Store Name	Amounts 1/0	Field 1/0	Or-ganic 1/0	Nnorm propor-tion, %	Crop #	Cereal benefit 1/0	Straw used 1/0	Crop use & leach	Use #	Food Name	Fed	Food Uses #21-61	N crop #71/	Food #72	Fuel/other #9	Manure handling #	Final N a-mounts	N2O-N emission IPCC 1996	N2O-N emission IPCC 2006	Total	
Total N																							
Year N NH3																							
1-10 N leach																							

N2O-N in food/beverage/fuel/other

Year	N	Vol/NH3	N	NO	100.0	0	100	22	1	1	97.8	21	71.3	21.0	0.0	0.0	14.5	21	50.2	2.04	2.98	1.94	2.40
1																							
Year																							
2																							
Year																							
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Year																							
10																							
Year																							

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

Area with crop, ha 0.77 0.27 0.09 0.04 0.01 0.00 0.00 0.00 0.00 0.00 0.00 1.18 1.53

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

Total IPCC and non IPCC N2O 2.98
 Kind of source Current crops
 Total anthropogenic 2.98
 Total including natural 4.16
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