

S4 Table. Changes in nitrogen-emission rates between the base year 2000 and 2050 across different Food Producing Units in Latin America and the Caribbean (in %)

FPU	(1) BAU	(1a) BAU liberal	(1.6) Intensification	(3a) Sustainable intensification (Improved NUE)	Sustainable intensification (Precision agriculture)	(3b) Sustainable intensification (Precision agriculture)	(4) Yield gaps closed	Yield	(5) Extensification
Central America and the Caribbean									
MIM_MEX	197	208	186	134	-59	238	197		
YUC_MEX	97	104	99	75	-14	106	87		
CAR_CCA	79	86	94	66	-6	91	82		
CAM_CCA	41	45	41	31	-39	51	43		
YUC_CCA	16	19	8	16	-20	33	35		
UME_MEX	-34	-34	-38	-38	-53	-29	-32		
CUB_CCA	-39	-37	-41	-45	-70	-39	-44		
RIG_MEX	-53	-53	-55	-55	-62	-51	-52		
South America									
NSA_NSA	1164	1239	1432	1202	1156	1211	1209		
NEB_BRA	444	453	488	384	293	415	409		
AMA_COL	381	399	434	392	365	398	393		
PEC_PER	249	255	246	256	226	264	262		
URU_URU	225	257	312	245	209	254	252		
AMA_ECU	197	219	258	199	158	212	223		
SAL_ARG	129	141	154	89	63	104	102		
ORL_NSA	121	139	157	127	58	148	135		
PAR_ARG	117	128	143	83	70	90	92		
CHC_CHL	108	136	120	100	-44	163	138		
NWS_ECU	99	108	107	75	-44	109	97		
PAR_BRA	89	98	100	63	-11	82	73		
PAR_CSA	83	91	107	84	74	87	88		
AMA_CSA	76	92	117	83	70	86	87		
AMA_PER	70	83	95	67	13	86	86		
URU_BRA	63	68	72	46	37	49	50		
NWS_COL	56	69	73	58	25	66	65		
AMA_BRA	56	66	72	42	14	50	47		
ORL_COL	55	55	55	53	42	55	54		
SAN_BRA	51	59	63	32	-24	47	41		
TOC_BRA	27	29	37	19	13	21	19		
TIE_ARG	-6	-6	-6	-6	-6	-6	-6		
RIC_ARG	-12	-11	-14	-13	-26	-9	-11		

FPU = Food Producing Unit. To locate Food Producing Units see S1 Figure and S1 Table. Note: The table is organized in such a way that those Food Producing Units (FPU) where the increase in N-emissions are highest under (1) BAU, appear in the upper rows. BAU refers to the Business-as-Usual scenario. Scenarios are described in Table 1 in the main text.