

S2 Table. Regional overview on area of rain-fed cultivated land where different inputs and management strategies in addition to adequate fertilizer application (F) are required to close the yield gaps. The strategies consist of soil quality management (S), managing accessibility to markets (A), weather induced yield variability management (V), and management of pests, diseases, and weeds (P). The different management strategies can have combinations of the individual elements (F, S, A, V, and P).

Regions	F	S	A	AS	V	VS	VA	VAS	P	PS	PA	PAS	PV	PVS	PVA	PVAS	Total
in million hectares																	
Africa																	
East Africa	6.35	25.34	4.23	12.09	1.16	5.53	0.83	2.36	0.48	2.05	0.13	0.5	0.07	0.11	0.01	0.03	61.27
Middle Africa	0.98	15.84	0.67	13.21	0.07	1.72	0.05	2.15	0.07	1.34	0.03	1.37	0	0.03	0	0	37.53
North Africa	4.17	7.68	1.45	4.02	3.52	5.06	0.08	0.56	0.03	0.05	0.14	0.19	0	0	0	0	26.95
South Africa	1.4	3.49	0.4	0.98	2.31	5.55	0.32	1.31	0	0	0	0	0	0	0	0	15.76
West Africa	8.81	56.91	1.7	10.29	0.04	1.83	0.05	1.47	0.12	2.13	0.01	0.49	0	0	0	0	83.85
America																	
Caribbean	1.99	3.11	0.06	0.05	0.08	0.17	0.01	0.02	0.04	0.08	0	0	0	0	0	0	5.61
Central America	7.1	9.08	1.12	1.58	0.73	1.01	0.08	0.19	2.8	3.71	0.48	0.69	0.06	0.04	0	0.02	28.69
North America	42.75	40.58	4.42	2.79	77.04	21.28	3.28	0.55	0.49	1.42	0.01	0.05	0.01	0.02	0	0	194.69
South America	17.56	53.17	2.31	10.35	7.61	5.99	1.17	1.36	1.4	11.47	0.47	2.13	0.05	0.48	0.02	0.08	115.62
Asia																	
Central Asia	0.84	0.47	0.14	0.06	11.62	2.62	7.9	2.65	0	0	0	0	0	0	0	0	26.30
East Asia	32.98	26.73	6.28	4.51	6.09	2.29	1.63	0.32	1.37	7.03	0.17	0.37	0.02	0.02	0.01	0.01	89.83
South Asia	39.7	70.09	2.26	4.38	7.11	9.67	2.01	1.68	0.34	0.95	0.02	0.09	0	0.02	0.01	0.03	138.36
S.-East Asia	5.2	28.61	3.25	8.83	0.08	0.14	0.03	0.17	2.88	19.87	1.01	10.56	0.02	0.03	0.02	0.12	80.82
West Asia	13.38	8.42	0.49	0.38	3.79	2.38	0.13	0.1	0.03	0.06	0	0	0.01	0	0	0	29.17
Europe																	
East Europe	54.09	41.67	1.42	1.3	77.19	12.12	2.84	1.18	0.04	0.04	0	0	0.01	0	0	0	191.90
North Europe	3.87	12.1	0.03	0.09	0.03	0.13	0.01	0.03	0.33	0.68	0	0	0	0	0	0	17.30
South Europe	10.87	8.8	0.24	0.1	6.05	4.73	0.17	0.05	0.97	0.77	0.01	0.01	0.02	0.01	0	0	32.80
West Europe	12.63	12.35	0.02	0.02	0.56	0.47	0	0	2.6	2.32	0	0	0.23	0.08	0	0	31.28
Oceania																	
Australia & New Zealand	5.16	5.17	0.54	0.96	15.14	12.28	1.69	2.42	0.18	0.26	0	0.01	0	0	0	0	43.81
World	269.82	429.6	31.01	75.98	220.23	94.95	22.29	18.56	14.18	54.23	2.49	16.47	0.51	0.86	0.06	0.3	1,251.54