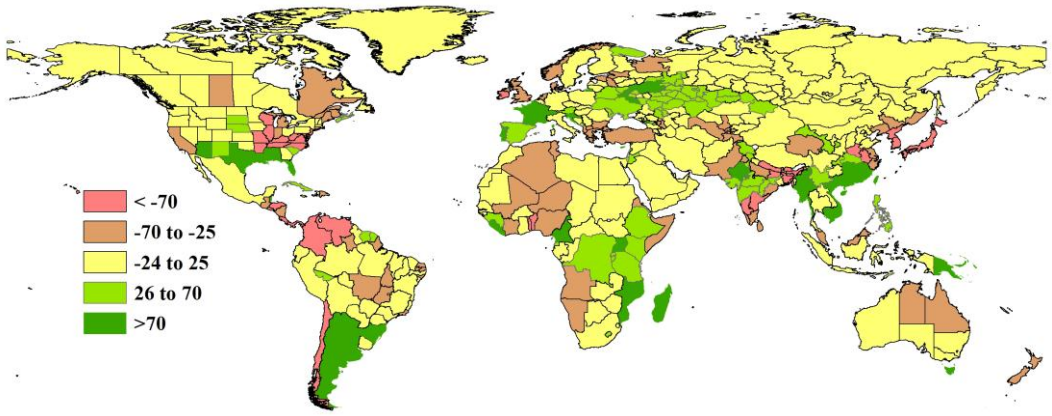
Annex D Environmental Indices and Production Estimates by Country

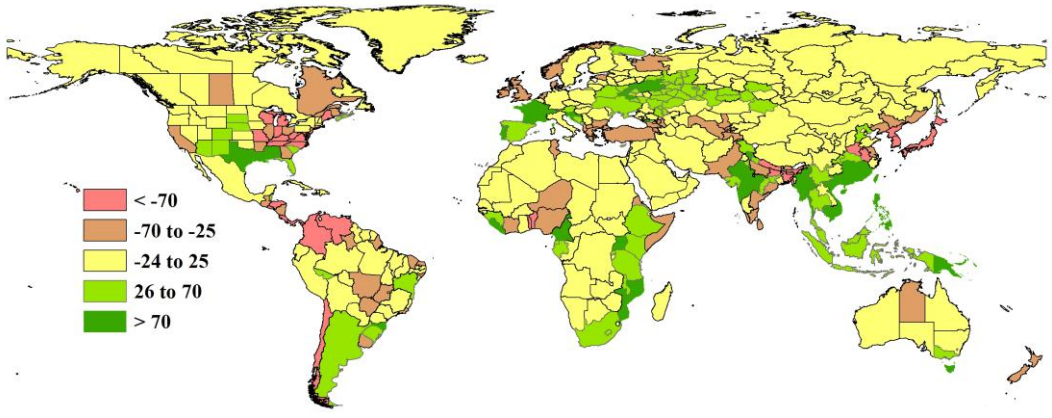
Figures D.1, D.2, and D.3 illustrate accumulated rainfall, temperature accumulation, and accumulated photosynthetically active radiation (PAR) for 173 countries and territories and the first-level administrative units for eight large countries—Australia, Brazil, Canada, China, India, Kazakhstan, Russia, and the United States. The figures each show the values' departure from the five-year average for 2008-12 (a), departure from the twelve-year average (2001-12) (b), and the trend for 2001-13 normalized by dividing it by the twelve-year average (c).

Figure D.1 October 2012-September 2013 rainfall accumulation, for countries and sub-national units (mm)

a. 2013 accumulated rainfall departure from the five-year average



b. 2013 accumulated rainfall departure from the twelve-year average



c. Accumulated rainfall trend for 2001-2013 (refer to figure B.1c for details)

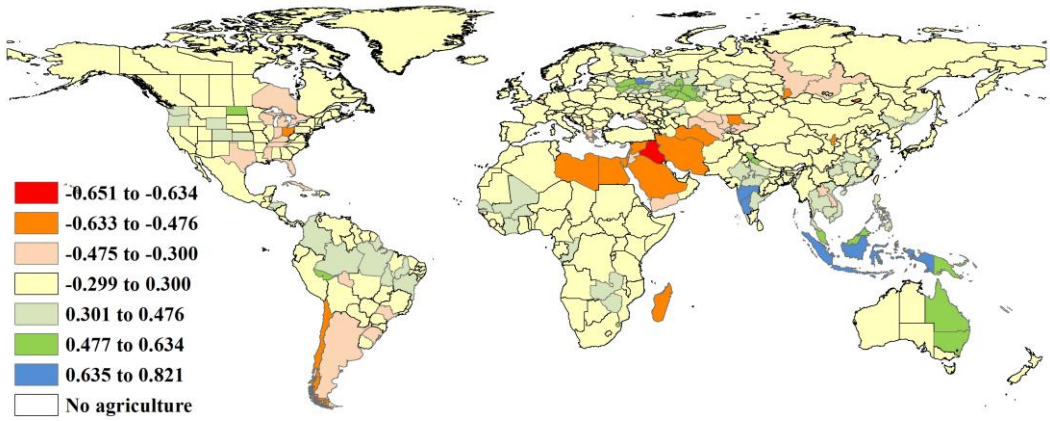
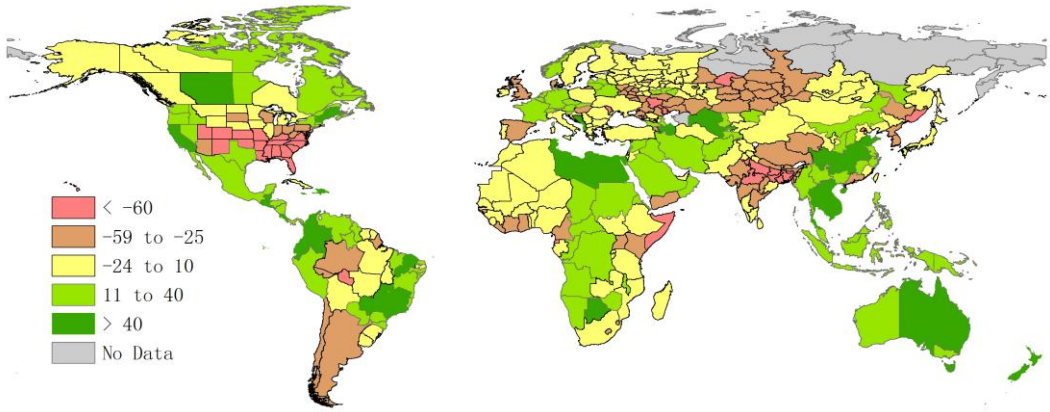
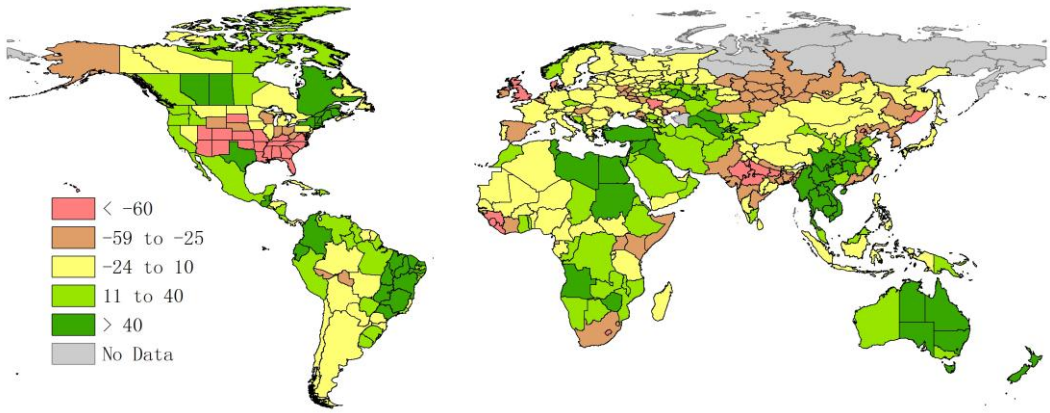


Figure D.2 October 2012-September 2013 temperature accumulation, for countries and sub-national units (°C)

a. 2013 Temperature departure from the five-year average



b. 2013 Temperature departure from the twelve-year average



c. Temperature trend for 2001-2013 (refer to figure B.1c for details)

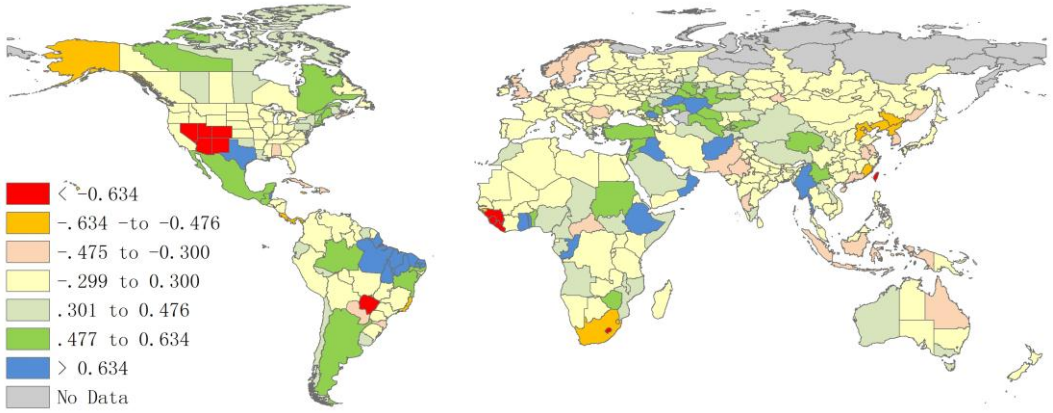
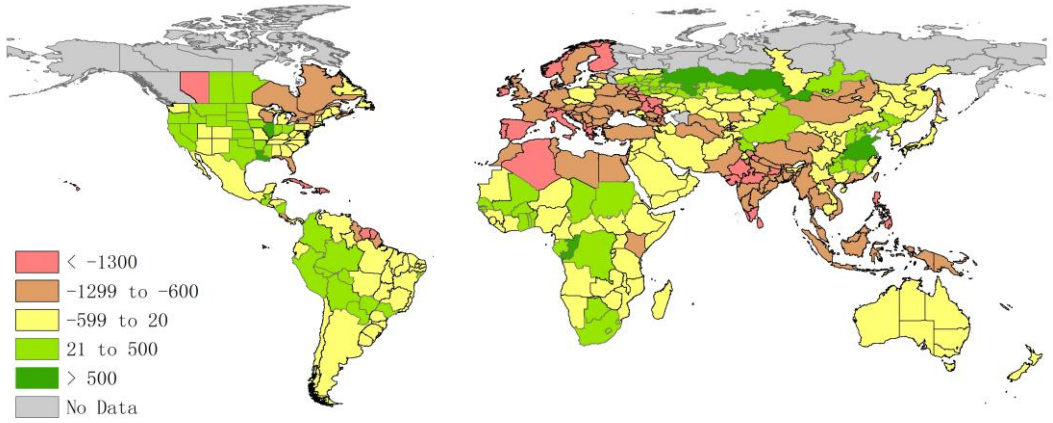
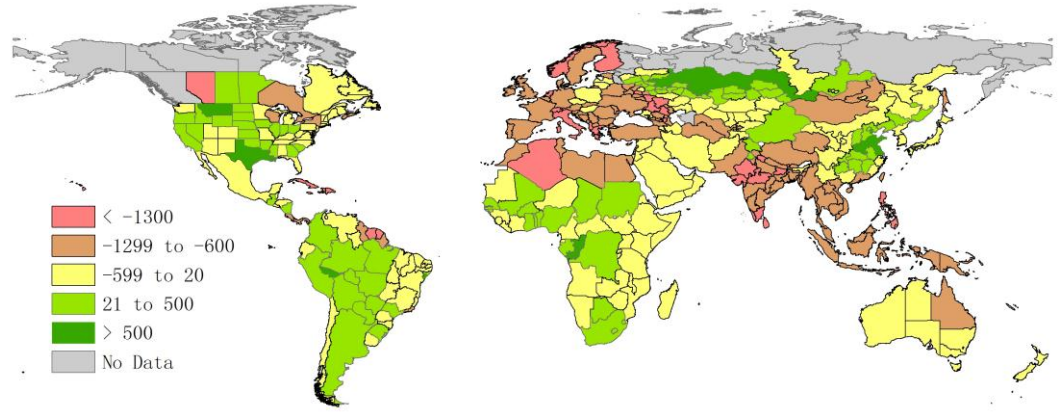


Figure D.3 October 2012-September 2013 accumulated PAR, for countries and sub-national units (W/m^2)

a. 2013 accumulated PAR departure from the five-year average



b. 2013 accumulated PAR departure from the twelve-year average



c. Accumulated PAR trend for 2001-2013 (Refer to figure B.1c for details)

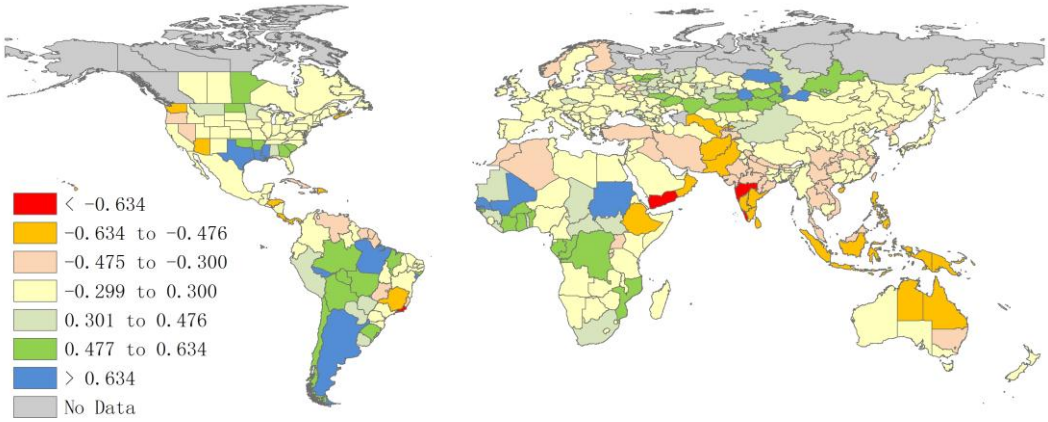
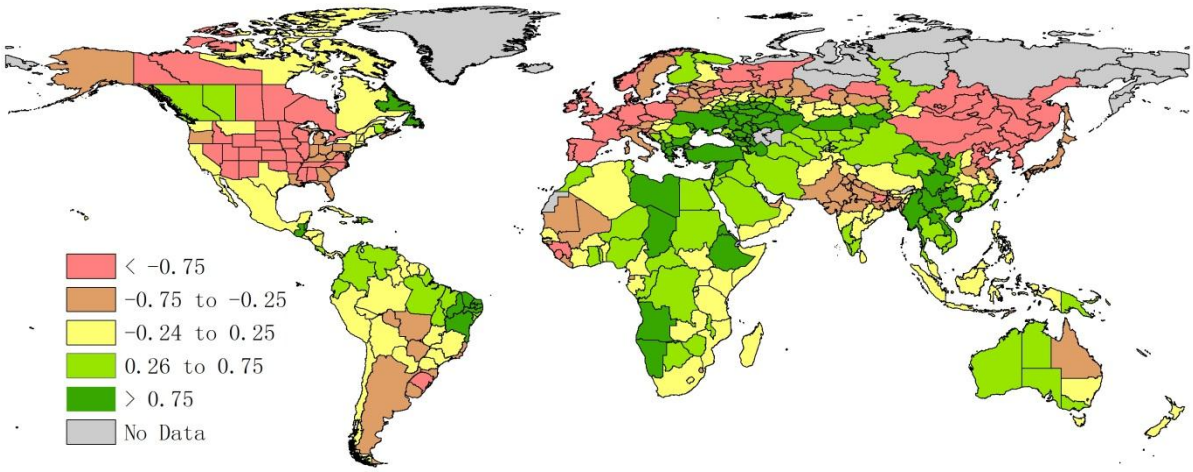
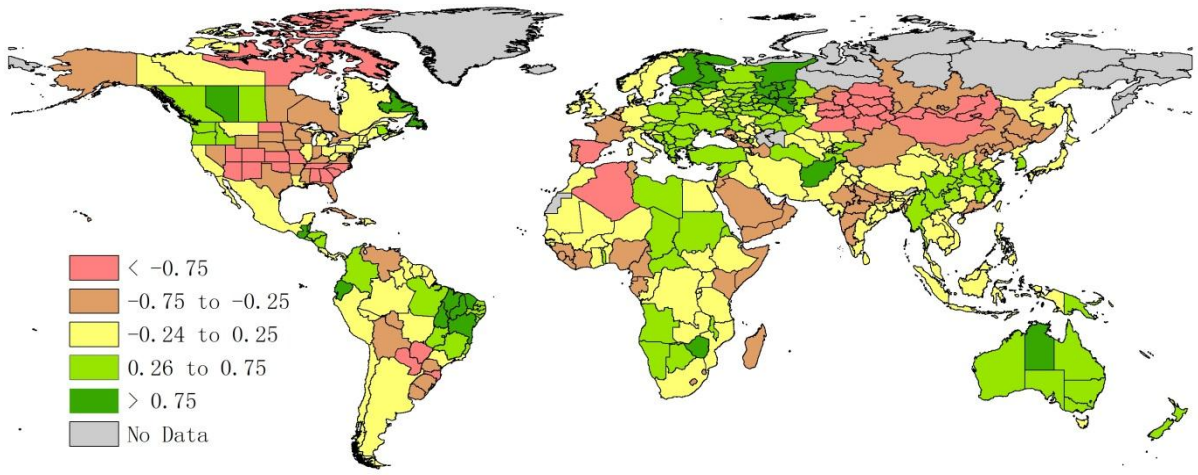


Figure D.4 Temperature and rainfall anomaly indices, for countries and sub-national units

a. Average temperature index anomaly, January-June (°C)



b. Average temperature index anomaly, April-September 2013 (°C)



c. Average rainfall index anomaly, April – September 2013 (percent)

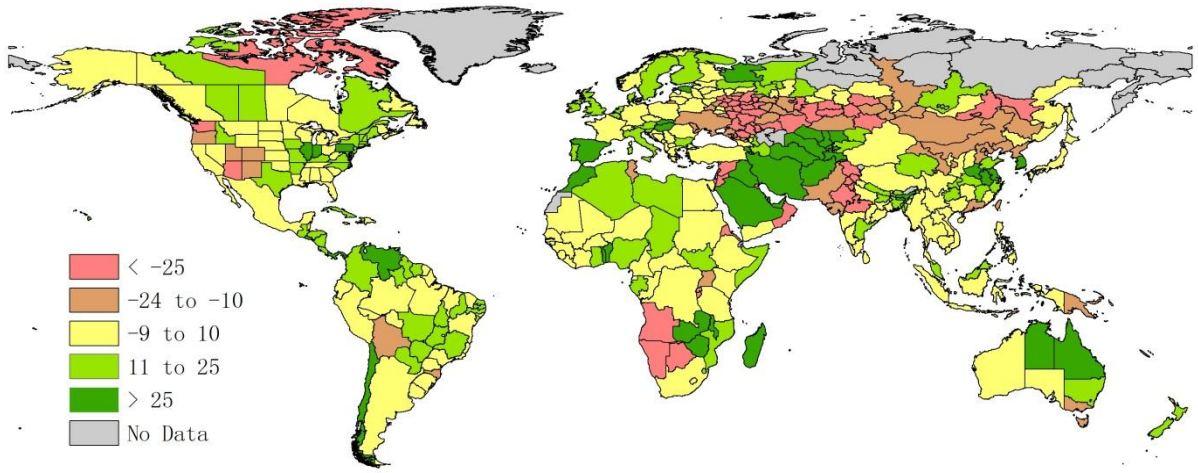


Table D.1 2013 Yield (maize, rice, soybean, wheat), and percent difference with 2012, by country (tons/ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
AFRICA								
Egypt	8.47	-9.3	9.64	-0.7	3.17	-1.2	6.27	-3.8
Ethiopia	2.78	-7.8	2.97	2.3	1.70	-8.8	1.98	-2.6
Nigeria	1.78	-1.9	1.79	-0.8	0.97	-5.5	1.41	26.2
S-Africa	3.64	-5.3			1.70	-0.0	3.17	5.1
WEST ASIA								
Iran	7.03	3.5	5.00	0.0	2.47	-1.3	1.94	-1.7
Turkey	7.26	-1.7	8.12	10.5	3.76	2.9	2.84	6.4
Central Asia								
Kazakhstan	3.05	175.7	2.99	30.6	1.97	-2.8	1.38	40.1
Uzbekistan	6.45	14.5	2.53	41.2				
EAST ASIA								
China	5.94	0.7	6.04	0.4	1.86	0.1	4.13	-0.1
SOUTH ASIA								
Bangladesh	6.05	0.8	3.60	23.0	1.53	3.8	2.59	0.5
India	2.47	3.0	3.61	4.1	1.13	6.2	3.08	-2.9
Pakistan	3.92	0.8	3.55	2.0			2.81	3.7
SE ASIA								
Cambodia	2.32	-3.1	2.81	-6.4	1.61	0.7		
Indonesia	4.64	-5.1	4.96	-3.4	1.43	-4.9		
Myanmar	3.77	-4.5	3.73	-7.9	1.36	10.9	1.80	0.1
Philippines	2.80	-2.0	3.67	-4.6				
Thailand	4.37	-1.9	2.80	-6.8	1.88	4.3		
Vietnam	4.30	0.2	5.60	-0.5	1.46	0.7		
EUROPE-RUSSIA								
France	9.21	1.4	5.93	-0.6	2.86	3.1	7.36	-3.2
Germany	10.20	4.1					7.37	0.6
Poland	6.23	-0.5					4.29	4.0
Romania	3.58	63.6	4.84	7.6	1.64	23.1	3.16	18.7
U. Kingdom							8.10	21.6
Ukraine	4.48	-6.5	5.96	-3.9	1.85	8.6	3.10	10.7
W. Russia	4.29	1.1	5.29	-3.7	1.39	5.8	2.00	12.9
N. AMERICA								
Canada	8.61	3.0			2.84	-2.7	2.58	-9.4
Mexico	2.96	-7.3	5.35	-4.6	1.52	-12.6	5.50	-0.8
United States	8.30	5.4	8.86	5.0	2.77	1.4	3.12	-0.4
S. AMERICA								
Argentina	5.84	-16.0	6.73	1.0	2.59	-11.5	3.78	8.6
Brazil	3.95	-16.5	5.15	7.1	2.51	-4.1	2.56	10.6
OCEANIA								
Australia	6.11	-5.3	9.18	3.0	2.06	-7.6	2.00	-7.9

Note: Δ% indicates percent difference with 2012.

Table D.2 2013 harvested area (maize, rice, soybean, wheat), by country (thousand ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
AFRICA								
Egypt	819	9.2	632	-5.7	10	-2.3	1373	1.7
Ethiopia	1988	-1.2	30	-1.3	15	-21.0	1461	1.6
Nigeria	5235	0.7	2632	-2.0	524	19.2	95	5.0
S-Africa	3139	-3.4			459	-8.2	600	0.8
WEST ASIA								
Iran	179	-0.6	470	-2.1	75	-6.3	7040	0.6
Turkey	606	-2.7	110	-8.5	29	-8.2	7380	-2.0
Central Asia								
Kazakhstan	97	-0.2	95	-2.0	77	-8.3	13014	-3.3
Uzbekistan	36	-2.6	47	-29.1			1399	0.2
EAST ASIA								
China	34616	1.6	34287	0.2	7165	-3.7	25839	-0.1
SOUTH ASIA								
Bangladesh	253	-25.7	11798	0.8	42	-0.7	387	-3.3
India	8668	-1.3	43029	-2.2	10490	-2.9	29463	-1.3
Pakistan	997	9.5	2619	-3.0			8658	-0.1
SE ASIA								
Cambodia	325	-1.5	3218	3.8	73	-2.9		
Indonesia	3984	0.6	13575	1.0	594	4.7		
Myanmar	396	4.1	8312	2.0	162	-2.8	99	-3.7
Philippines	2569	-0.9	4734	0.9				
Thailand	1101	1.9	12940	2.7	95	-5.1		
Vietnam	1120	0.1	7687	-0.9	151	25.1		
EUROPE-RUSSIA								
France	1712	-0.4	21	2.7	40	5.4	5323	0.4
Germany	499	-2.2					3068	0.2
Poland	439	-19.4					2094	0.2
Romania	2468	-9.3	12	6.0	75	-3.9	1969	-1.2
U. Kingdom							1760	-11.6
Ukraine	4883	11.7	28	7.4	1261	-10.7	6144	9.1
Russia	1770	-8.6	199	4.1	1281	-6.8	23466	10.3
N. AMERICA								
Canada	1301	-7.1			1605	-3.8	10147	6.8
Mexico	6714	-3.0	33	3.5	149	4.6	535	31.4
USA.	35419	1.9	984	-8.2	29980	-0.1	18608	-5.5
S. AMERICA								
Argentina	4237	14.6	246	4.7	19363	10.2	3320	5.1
Brazil	16058	6.6	2416	1.9	27939	11.5	1966	4.0
OCEANIA								
Australia	66	-5.4	89	-13.3	28	-27.2	14460	4.0
Sub total	141692	1.6	150244	-0.2	101683	3.9	189667	1.1
other **countries**	40577	8.1	13192	2.3	7239	-17.3	28530	-1.6
World	**182269**	**3.0**	**163436**	**0.0**	**108922**	**2.2**	**218197**	**0.7**

Note: Δ% indicates percent difference with 2012. The world areas for the four crops are extrapolated from FAO statistics.

Table D.3 Environmental indices by country: Accumulated rainfall (mm), October-September

	2013 rainfall (mm)	Twelve-year average (2001-12)	Five-year average (2008-12)	2001-13 normalized trend	Coefficient of correlation	Significance level of trend	Difference between 2013 and twelve-year average	Difference between 2013 and five-year average
Argentina	321	283	249	-19.753	-0.395		38	72
Australia	159	149	167	22.564	0.521	*	10	-8
Bangladesh	655	757	783	2.741	0.117		-102	-128
Brazil	375	383	384	0.953	0.121		-8	-9
Cambodia	800	638	646	11.451	0.302		162	154
Canada	104	123	120	-6.618	-0.217		-19	-16
China	308	273	280	8.883	0.46		35	28
Egypt	14	9	5	-75.444	-0.529	*	5	9
Ethiopia	370	339	331	2.968	0.11		31	39
France	385	292	278	-0.942	-0.02		93	107
Germany	231	251	247	-9.331	-0.275		-20	-16
India	456	453	473	15.435	0.621	*	3	-17
Indonesia	921	866	928	16.151	0.778	**	55	-7
Iran	101	110	90	-27.227	-0.504	*	-9	11
Kazakhstan	97	66	60	-3.773	-0.078		31	37
Mexico	293	281	279	3	0.146		12	14
Myanmar	776	677	666	0.708	0.039		99	110
Nigeria	365	409	415	-2.482	-0.136		-44	-50
Pakistan	153	196	193	-1.429	-0.022		-43	-40
Philippines	988	872	944	14.505	0.456		116	44
Poland	147	145	150	0.041	0.001		2	-3
Romania	113	126	132	2.357	0.058		-13	-19
Russia	120	92	93	14.891	0.431		28	27
South Africa	148	117	124	9.325	0.143		31	24
Thailand	576	539	563	10.581	0.47		37	13
Turkey	138	186	189	-8.134	-0.206		-48	-51
UK	260	290	290	-5.938	-0.225		-30	-30
USA	242	235	228	-8.617	-0.432		7	14
Ukraine	173	119	119	9.353	0.172		54	54
Uzbekistan	50	85	81	-25.6	-0.3		-35	-31
Viet Nam	780	662	701	13.822	0.409		118	79

Note: Table displays rainfall accumulation (mm) between October 2012 and September 2013. The normalized trend is the 2001-2013 trend normalized by dividing it by the twelve-year average. Significance level of the trend is * for p<=0.05 and ** for p<=0.01. See also figures D.1a –c for a graphical representation of some of the variables in this table.

Table D.4 Environmental indices by country: Temperature (°C), October-September accumulation

	2013 temperature (℃)	Twelve-year average (2001-12)	Five-year average (2008-12)	2001-13 normalized trend	Coefficient of correlation	Significance level of trend	Difference between 2013 and twelve-year average	Difference between 2013 and five-year average
Argentina	1284	1280	1312	4.11	0.55	*	4	-28
Australia	940	899	891	-0.018	-0.003		41	49
Bangladesh	2359	2417	2423	-0.416	-0.167		-58	-64
Brazil	1844	1807	1827	1.714	0.416		37	17
Cambodia	2592	2527	2522	0.519	0.151		65	70
Canada	197	156	161	13.795	0.316		41	36
China	1041	1022	1016	-0.762	-0.128		19	25
Egypt	2222	2166	2174	-0.084	-0.016		56	48
Ethiopia	1435	1406	1427	3.764	0.836	**	29	8
France	836	841	818	-3.578	-0.218		-5	18
Germany	681	682	661	-3.849	-0.227		-1	20
India	2036	2080	2083	-0.638	-0.181		-44	-47
Indonesia	2249	2241	2230	-0.852	-0.441		8	19
Iran	955	921	939	2.826	0.21		34	16
Kazakhstan	470	472	490	11.083	0.562	*	-2	-20
Mexico	1456	1430	1438	1.951	0.578	*	26	18
Myanmar	1970	1913	1933	3.065	0.654	**	57	37
Nigeria	2242	2243	2246	1.192	0.322		-1	-4
Pakistan	1955	1991	1979	-1.785	-0.398		-36	-24
Philippines	2342	2333	2324	-0.219	-0.125		9	18
Poland	429	448	435	-2.658	-0.164		-19	-6
Romania	328	333	325	-8.24	-0.303		-5	3
Russia	304	316	326	9.81	0.446		-12	-22
South Africa	785	811	787	-6.234	-0.592	*	-26	-2
Thailand	2377	2305	2295	0.548	0.139		72	82
Turkey	860	806	854	11.128	0.593	*	54	6
UK	517	578	558	-6.839	-0.369		-61	-41
USA	833	890	887	-0.345	-0.037		-57	-54
Ukraine	361	378	380	2.405	0.149		-17	-19
Uzbekistan	1400	1338	1354	4.681	0.576	*	62	46
Viet Nam	2197	2121	2118	0.841	0.208		76	79

Note: Table displays temperature accumulation (°C) over a threshold of 5.0 °C between October 2012 and September 2013. The normalized trend is the 2001-2013 trend normalized by dividing it by the twelve-year average. Significance level of the trend is * for p<=0.05 and ** for p<=0.01. See also figures D.2a –c for a graphical representation of some of the variables in this table.

Table D.5 Environmental indices by country: PAR (W/m^2), October-September accumulation

	2013 PAR (W/m^2)	Twelve-year average (2001-12)	Five-year average (2008-12)	2001-13 normalized trend	Coefficient of correlation	Significance level of trend	Difference between 2013 and twelve-year average	Difference between 2013 and five-year average
Argentina	10125	9984	10273	6.897	0.786	**	141	-148
Australia	8079	8482	8352	-3.085	-0.408		-403	-273
Bangladesh	9911	11134	11198	-2.685	-0.299		-1223	-1287
Brazil	9745	9780	9855	1.116	0.386		-35	-110
Cambodia	11126	11742	11713	-1.888	-0.272		-616	-587
Canada	3889	4935	5034	-3.322	-0.19		-1046	-1145
China	6907	6953	6913	-1.463	-0.46		-46	-6
Egypt	14185	14914	15035	-0.373	-0.087		-729	-850
Ethiopia	10075	10606	10546	-3.402	-0.562	*	-531	-471
France	7255	8300	8501	1.506	0.111		-1045	-1246
Germany	5989	6624	6726	2.904	0.196		-635	-737
India	9079	10305	10317	-4.287	-0.466		-1226	-1238
Indonesia	10310	11313	11262	-3.572	-0.551	*	-1003	-952
Iran	8800	9307	9274	-3.108	-0.391		-507	-474
Kazakhstan	6448	6449	6600	5.601	0.574	*	-1	-152
Mexico	9177	9387	9478	1.296	0.273		-210	-301
Myanmar	8853	9681	9726	-2.019	-0.259		-828	-873
Nigeria	10765	10714	10746	0.73	0.247		51	19
Pakistan	11160	12096	12071	-3.864	-0.547	*	-936	-911
Philippines	10445	11926	11777	-5.669	-0.486	*	-1481	-1332
Poland	4493	5003	5025	2.401	0.141		-510	-532
Romania	3870	4785	4906	2.065	0.099		-915	-1036
Russia	4991	5084	5145	2.273	0.323		-93	-154
South Africa	7202	7085	7086	2.509	0.302		117	116
Thailand	10502	11231	11182	-2.968	-0.406		-729	-680
Turkey	9031	9713	9681	-2.656	-0.368		-682	-650
UK	4856	6085	6135	-2.795	-0.165		-1229	-1279
USA	8064	8067	8161	2.723	0.645	**	-3	-97
Ukraine	3902	4925	4984	-0.391	-0.018		-1023	-1082
Uzbekistan	10724	11447	11377	-3.258	-0.517	*	-723	-653
Viet Nam	9423	10390	10254	-4.652	-0.471		-967	-831

Note: Table displays accumulated photosynthetically active radiation (PAR) (W/m^2) over the growing season(s) between October 2012 and September 2013. The normalized trend is the 2001-2013 trend normalized by dividing it by the twelve-year average. Significance level of the trend is * for p<=0.05 and ** for p<=0.01. See also figures D.3a –c for a graphical representation of some of the variables in this table.

Table D.6 Kazakhstan, 2013 yield (maize, rice, soybean, wheat), by province (tons/ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Akmolinskaya							1.12	61.3
Karagandinskaya							0.87	32.8
Kustanayskaya							1.22	99.2
Pavlodarskaya							0.57	50.8
Severo-kazachstanskaya							1.62	40.9
Vostochno-kazachstanskaya							1.08	-0.9
Zapadno-kazachstanskaya							0.77	31.4

Note: Δ% is percent difference with 2012.

Table D.7 Kazakhstan, 2013 area under production (maize, rice, soybean, wheat), by province (thousand ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Akmolinskaya							3767	26.4
Karagandinskaya							214	2.1
Kustanayskaya							2104	3.8
Pavlodarskaya							963	-38.8
Severo-kazachstanskaya							4832	-10.1
Vostochno-kazachstanskaya							451	4.2
Zapadno-kazachstanskaya							47	13.6
Sub total							**12378**	
Other provinces							636	
Kazakhstan							**13014**	**-3.34**

Note: Δ% is percent difference with 2012.

Table D.8 India, 2013 yield, by state (tons/ha)

	Maize		Rice (paddy)		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Andhra Pradesh	4.74	11.8	3.09	-1.9				
Assam	0.71	-1.9	1.81	1.8			1.15	0.6
Delhi							4.26	-2.1
Goa			2.52	-2.3				
Gujarat	1.58	3.6	2.00	-6.6			3.08	2.2
Haryana	2.15	-19.4	2.92	-4.2			4.83	-4.1
Himachal Pradesh	2.35	-3.4	1.69	-0.7			1.60	-4.3
Karnataka	3.23	6.8	2.75	-1.4			0.98	14.6
Kerala			2.59	-5.3				
Maharashtra	2.84	2.9	1.81	-1.8			1.68	7.9
Manipur	1.83	3.5	2.55	-3.4				
Meghalaya	1.54	0.9	1.94	-2.3				
Mizoram			1.27	-10.1				
Nagaland	1.97	0.7	2.11	0.2				
Orissa	2.32	12.6	1.54	5.9				
Punjab	3.82	-4.2	3.78	1.1			4.80	-2.1
Rajasthan	1.70	6.6	1.95	3.4			3.05	-3.8

	Maize		Rice (paddy)		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Sikkim	1.66	-0.1	1.74	0.8				
Tamil Nadu	5.32	-12.0	3.48	-11.2				
Tripura			2.68	-0.7				
West Bengal	3.85	3.5	2.66	-0.9			2.76	-0.02
Arunachal Pradesh	1.45	-1.7	1.99	-3.7				
Bihar	2.31	-3.2	1.67	-22.6			2.08	-5.8
Chhattisgarh	1.74	5.0	1.63	2.1			1.18	-3.7
Dadra and Nagar Haveli			1.77	0.7				
Jharkhand	1.36	-9.1	1.94	-9.1			1.80	-5.6
Madhya Pradesh	1.38	-7.5	1.23	-8.6			2.08	-12.0
Puducherry			2.61	2.9				
Uttar Pradesh	1.57	-5.5	2.24	-4.9			3.11	0.0
Uttarakhand	1.49	1.9	2.01	-5.4			2.35	-1.3

Note: Δ% is percent difference with 2012.

Table D.9 India, 2013 area under production, by state (thousand ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Andhra Pradesh	804	-6.9	4424	8.0				
Assam	21	-3.5	2554	0.7			49	-7.4
Delhi							23	15.6
Gujarat	509	-1.5	822	-1.7			1313	-2.9
Haryana	10	5.6	1240	0.4			2519	-0.1
Himachal Pradesh	295	0.4					357	0.09
Karnataka	1319	-2.3	1478	4.4			240	6.7
Maharashtra	886	0.6	1531	-0.8			1075	27.5
Manipur	21	5.9	218	-2.5				
Meghalaya	17	-0.2	109	-0.3				
Nagaland	68	-0.07						
Orissa	110	7.0	4115	2.8				
Punjab	130	2.8	2825	0.2			3519	-0.3
Rajasthan	1094	4.7					2707	-7.8
Sikkim	40	0.3						
Tamil Nadu	256	-8.9	1905	0.05				
Tripura			265	-0.3				
West Bengal	93	-4.7	5189	-4.5			316	0.2
Arunachal Pradesh	46	-1.5						
Bihar	660	-2.2	3078	-7.4			2123	-0.9
Chhattisgarh	103	-0.6	3738	-0.9			110	1.1
Jharkhand	215	-0.03	1095	-25.5			128	-19.6
Madhya Pradesh	847	-1.9	1632	-1.8			4615	-5.6
Uttar Pradesh	771	-2.1	5802	-2.4			9684	-0.5
Uttarakhand	28	0.7	285	1.7			374	1.4
Sub total	8343		42305				29152	
Other states	325		724				311	
India	**8668**	**-1.3**	**43029**	**-2.2**			**29463**	**-1.3**

Note: Δ% is percent difference with 2012.

Table D.10 Canada, 2013 yield by province (tons/ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Alberta							2.41	-14.3
Manitoba							2.29	-19.8
Saskatchewan							2.68	-4.9

Note: Δ% is percent difference with 2012.

Table D.11 Canada, 2013 area under production, by province (thousand ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Alberta							3566	19.9
Manitoba							1344	-2.3
Saskatchewan							4526	0.1
Sub total							9436	
Other provinces							711	
Canada							**10147**	**6.8**

Note: Δ% is percent difference with 2012.

Table D.12 United States, 2013 yield and percent difference with 2012, by state (tons/ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Arkansas	6.50	-41.8	8.42	24.0	2.42	-16.2		
California			9.06	-6.1				
Idaho								
Illinois	8.51	29.2			2.98	2.9		
Indiana	7.61	22.5			3.04	3.9		
Iowa	10.05	16.9			3.29	9.8		
Kansas	5.57	-7.5			1.72	16.4		
Michigan	7.12	-14.6			3.09	6.9		
Minnesota	9.41	-9.1			2.96	2.2		
Missouri	5.95	26.3	7.44	44.8	2.11	6.3		
Montana								
Nebraska	8.20	-8.1			3.42	22.5		
North Dakota	5.59	-26.9			2.17	-4.9		
Ohio	7.64	-1.1			3.24	6.9		
Oklahoma								
Oregon								
South Dakota	5.93	-6.5			2.12	5.0		
Texas	4.52	-44.6	8.43	-22.0		-20.1		
Washington								
Wisconsin	10.12	33.3			3.31	18.8		

Note: Δ% is percent difference with 2012.

Table D.13 United States, 2013 area under production, by state (thousand ha)

	Maize		Rice		Soybean		Wheat*	
	2013	**Δ%**	**2013**	**Δ%**	**2013**	**Δ%**	**2013**	**Δ%**
Arkansas	386	37.3	469	-10.1	1460	14.2	280	54.0
California			234	2.9			276	53.3
Idaho							535	6.7
Illinois	4823	-2.7			3659	1.3	254	-2.7
Indiana	2396	-1.8			2067	-0.6		
Iowa	5351	-3.5			3645	-3.1		
Kansas	1889	18.2			1463	-5.1	3315	-10.0
Michigan	1164	20.3			752	-6.6	272	24.4
Minnesota	3477	3.1			2628	-7.1	457	-13.7
Missouri	1276	-4.5	63	-14.0	2226	4.6	355	27.1
Montana							2152	-4.8
Nebraska	4383	19.0			1853	-8.2	474	-10.0
North Dakota	1450	3.5			1712	-10.6	2712	-13.6
Ohio	1593	7.8			1774	-4.3	245	34.4
Oklahoma							1920	10.3
Oregon							376	6.0
South Dakota	2546	18.7			1875	-1.7	805	-10.8
Texas	950	51.5	65	19.7			776	-36.1
Washington							895	1.7
Wisconsin	1151	-13.8			592	-14.0		
Sub total	32835		831		25706		16099	
Other states	2584		153		4274		2509	
United States	**35419**	**1.9**	**984**	**-8.2**	**29980**	**-0.1**	**18608**	**-5.5**

Note: Δ% is percent difference with 2012.
* Wheat area in the table includes areas of winter wheat, durum wheat, and spring wheat.

Table D.14 Argentina 2013 yield, by province (tons/ha)

	Maize		Rice (paddy)		Soybean		Wheat	
	2013	**Δ%**	**2013**	**Δ%**	**2013**	**Δ%**	**2013**	**Δ%**
Buenos Aires	6.71	-17.5			2.54	-19.6	2.89	-17.5
Córdoba	5.69	-54.3			2.22	-18.8	9.17	65.3
Santa Fe	7.42	-24.8			2.92	-17.6	7.72	63.5

Note: Δ% is percent difference with 2012.

Table D.15 Argentina, 2013 area under production, by province (thousand ha)

	Maize		Rice		Soybean		Wheat	
	2013	**Δ%**	**2013**	**Δ%**	**2013**	**Δ%**	**2013**	**Δ%**
Buenos Aires	1298	7.9			6537	12.8	2142	80.9
Córdoba	1369	58.1			5161	6.2	153	-67.5
Santa Fe	626	13.1			3201	6.4	188	-61.6
Sub total	3293				14899		2483	
Other provinces	944				4464		837	
Argentina	**4237**	**14.6**			**19363**	**10.2**	**3320**	**5.1**

Note: Δ% is percent difference with 2012.

Table D.16 Brazil, 2013 yield, by state (tons/ha)

	Maize		Rice (paddy)		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Mato Grosso	5.91	3.5	3.15	-2.3	2.95	-5.6		
Mato Grosso Do Sul	4.91	-5.7	6.18	-2.7	2.91	14.9	0.92	-41.6
Minas Gerais	5.82	-2.8	1.94	0.08	2.93	-2.1	3.30	-10.8
Parana	5.77	5.2	5.29	4.2	3.35	36.5	1.75	-35.3
Rio Grande Do Sul	5.28	87.3	7.46	1.1	2.70	93.8	2.59	37.1
Santa Catarina	6.87	25.6	6.82	-7.3	3.04	27.5	3.00	43.3
Sao Paulo	5.25	-5.0	5.30	21.8	3.15	13.8	2.52	-18.8

Note: Δ% is percent difference with 2012.

Table D.17 Brazil, 2013 area, by state (thousand ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Goias*	1229	0.7	44	-25.1	2937	10.2	4	-58.5
Mato Grosso*	3417	24.7	158	11.4	7932	13.6		
Mato Grosso Do Sul*	1538	23.6	16	-6.8	1987	9.6	10	-32.8
Minas Gerais*	1214	-1.4	20	-34.6	1151	11.9	36	66.7
Parana*	3033	1.1	33	-5.4	4755	6.8	977	25.8
Rio Grande Do Sul*	984	-2.3	1084	4.3	4728	13.8	1040	5.1
Santa Catarina*	484	-6.5	150	0.8	521	15.5	73	9.0
Sao Paulo*	876	1.7	18	-7.0	615	15.4	35	-13.3
Sub total	12775		1523		24626		2175	
Other states	3283		893		3313		-209	
Brazil	**16058**	**6.6**	**2416**	**1.9**	**27939**	**11.5**	**1966**	**3.9**

Source: Database aggregates, the Brazilian Institute of Geographic and Statistics (IBGE) (107).
Note: Δ% is percent difference with 2012.

Table D.18 Australia, 2013 yield, by state (tons/ha).

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Western Australia							1.95	-30.0
South Australia							1.97	7.4
New South Wales							2.38	17.5
Victoria							2.11	-13.4

Note: Δ% is percent difference with 2012.

Table D.19 Australia, 2013 area, by state (thousand ha)

	Maize		Rice		Soybean		Wheat	
	2013	Δ%	2013	Δ%	2013	Δ%	2013	Δ%
Western Australia							4116	3.9
South Australia							2667	7.7
New South Wales							3997	-5.1
Victoria							1973	22.9
Sub total							12754	
Other states							1706	
Australia							14460	4.0

Note: Δ% is percent difference with 2012.