

Annex C Environmental Indices and Crop Indicators for Major Production Zones

Table C.1 Environmental indices for Major Production Zones

Major production zone	2013 value	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
NORTH AMERICA								
Rainfall (mm)	241	234	229	-10.077	-0.42		7	12
Temperature (°C)	854	908	907	0.823	0.083		-54	-53
PAR (W/m ²)	8070	7832	7938	4.438	0.772	**	238	132
SOUTH AMERICA								
Rainfall (mm)	358	352	330	-12.557	-0.424		6	28
Temperature (°C)	1483	1460	1466	0.056	0.013		23	17
PAR (W/m ²)	9760	9699	9842	3.416	0.725	**	61	-82
CENTRAL EUROPE – W.RUSSIA								
Rainfall (mm)	151	112	114	14.393	0.454		39	37
Temperature (°C)	382	387	395	6.261	0.373		-5	-13
PAR (W/m ²)	4505	5004	5066	1.09	0.097		-499	-561
SOUTH AND SOUTHEAST ASIA								
Rainfall (mm)	618	590	616	11.646	0.828	**	28	2
Temperature (°C)	2170	2175	2175	-0.139	-0.059		-5	-5
PAR (W/m ²)	9633	10790	10770	-4.021	-0.492	*	-1157	-1137

Note: Temperature is temperature accumulation over a threshold of 5.0°C between October 2012 and September 2013; rainfall is TRMM-derived rainfall; PAR is accumulated photosynthetically active radiation (W/m²). 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.