Appendix 1 Data for crop model

Table A-1-1. Data for crop model for rice.

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
1	RI	AUS	4	2	10.0	4.0	210.0	4.0	Japonica	wetland	C3/II	9.159	3.0	0.40	6.0	0	5	15	30	35	35	30	5	0
2	RI	NZL	5	2	10.0	4.0	210.0	4.0			C3/II	0.000												
3	RI	XOC	2	2	10.0	4.0	210.0	4.0	Japonica	wetland	C3/II	2.502	1.0	0.30	3.0	0	5	15	30	35	35	30	5	0
4	RI	CHN	4	1	4.0	9.0	150.0	4.0	Japonica	wetland	C3/II	6.418	3.0	0.40	6.0	0	5	15	30	35	35	30	5	0
5	RI	HKG	3	1	4.0	9.0	150.0	4.0			C3/II	0.000												
6	RI	JPN	5	1	4.5	10.0	165.0	4.0	Japonica	wetland	C3/II	6.542	3.0	0.40	6.0	0	5	15	30	35	35	30	5	0
7	RI	KOR	5	1	6.5	10.5	120.0	2.0	Japonica	wetland	C3/II	6.820	3.0	0.40	5.0	0	5	15	30	35	35	30	5	0
8	RI	MNG	5	1	5.5	9.0	105.0	1.0			C3/II	0.000												
9	RI	TWN	3	1	2.0	6.0	120.0	2.0	Japonica	wetland	C3/II	0.000				0	5	15	30	35	35	30	5	0
10	RI	XEA	5	1	5.5	9.5	120.0	2.0	Japonica	wetland	C3/II	4.157	2.0	0.35	4.0	0	5	15	30	35	35	30	5	0
11	RI	BRN	1	1	7.0	2.0	240.0	4.0	Indica	wetland	C3/II	0.745	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
12	RI	KHM	2	1	6.5	0.5	210.0	4.0	Indica	wetland	C3/II	2.619	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
13	RI	IDN	1	2	0.5	4.0	105.0	1.0	Japonica	wetland	C3/II	4.740	2.0	0.35	3.7	0	5	15	30	35	35	30	5	0
14	RI	LAO	3	1	7.0	11.5	135.0	3.0	Indica	wetland	C3/II	3.455	2.0	0.38	4.5	0	0	15	30	35	35	30	5	0
15	RI	MYS	1	1	7.0	2.0	240.0	4.0	Indica	wetland	C3/II	3.502	2.0	0.38	4.8	0	0	15	30	35	35	30	5	0
16	RI	PHL	2	1	8.0	12.0	120.0	2.0	Indica	wetland	C3/II	3.752	2.0	0.38	4.0	0	0	15	30	35	35	30	5	0
17	RI	SGP	1	1	7.0	2.0	240.0	4.0			C3/II	0.000												
18	RI	THA	2	1	6.5	0.5	210.0	4.0	Indica	wetland	C3/II	2.962	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
19	RI	VNM	2	1	6.5	9.5	90.0	1.0	Indica	wetland	C3/II	5.035	3.0	0.45	5.0	0	0	15	30	35	35	30	5	0
20	RI	XSE	3	1	6.0	12.0	180.0	4.0	Indica	wetland	C3/II	3.916	2.0	0.38	4.8	0	0	15	30	35	35	30	5	0
21	RI	BGD	3	1	4.0	8.0	120.0	2.0	Indica	wetland	C3/II	4.027	2.0	0.38	4.0	0	0	15	30	35	35	30	5	0
22	RI	IND	3	1	8.0	1.5	195.0	4.0	Indica	wetland	C3/II	3.295	2.0	0.38	4.8	0	0	15	30	35	35	30	5	0
23	RI	NPL	4	1	6.5	11.0	135.0	3.0	Indica	wetland	C3/II	2.683	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
24	RI	PAK	4	1	6.0	10.5	135.0	3.0	Indica	wetland	C3/II	3.333	2.0	0.38	4.5	0	0	15	30	35	35	30	5	0
25	RI	LKA	2	1	4.5	8.5	120.0	2.0	Indica	wetland	C3/II	3.728	2.0	0.38	4.0	0	0	15	30	35	35	30	5	0
26	RI	XSA	4	1	8.0	1.5	195.0	4.0	Indica	wetland	C3/II	3.250	2.0	0.38	4.8	0	0	15	30	35	35	30	5	0
27	RI	CAN	5	1	5.0	9.0	120.0	2.0			C3/II	0.000												
28	RI	USA	5	1	5.0	9.0	120.0	2.0	Indica	wetland	C3/II	7.832	3.0	0.45	5.5	0	0	15	30	35	35	30	5	0
29	RI	MEX	3	1	5.5	11.5	180.0	4.0	Indica	wetland	C3/II	4.467	2.0	0.38	4.8	0	0	15	30	35	35	30	5	0
30	RI	XNA	4	1	5.5	11.5	180.0	4.0			C3/II	0.000												
31	RI	ARG	4	2	11.0	5.0	210.0	4.0	Indica	wetland	C3/II	6.816	3.0	0.45	6.5	0	0	15	30	35	35	30	5	0
32	RI	BOL	3	2	10.5	2.0	135.0	3.0	Indica	wetland	C3/II	2.299	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
33	RI	BRA	2	2	3.5	10.0	195.0	4.0	Indica	wetland	C3/II	3.979	2.0	0.38	4.8	0	0	15	30	35	35	30	5	0
34	RI	CHL	4	2	10.5	3.5	180.0	4.0	Indica	wetland	C3/II	5.533	3.0	0.45	6.5	0	0	15	30	35	35	30	5	0
35	RI	COL	1	1	3.5	7.0	105.0	1.0	Indica	wetland	C3/II	6.078	3.0	0.45	5.0	0	0	15	30	35	35	30	5	0
36	RI	ECU	1	2	1.0	5.0	120.0	2.0	Indica	wetland	C3/II	4.206	2.0	0.38	4.0	0	0	15	30	35	35	30	5	0
37	RI	PRY	3	2	10.5	2.0	135.0	3.0	Indica	wetland	C3/II	3.439	2.0	0.38	4.5	0	0	15	30	35	35	30	5	0
38	RI	PER	2	2	1.5	6.0	135.0	3.0	Indica	wetland	C3/II	7.131	3.0	0.45	6.0	0	0	15	30	35	35	30	5	0
39	RI	URY	4	2	11.0	5.0	210.0	4.0	Indica	wetland	C3/II	7.691	3.0	0.45	6.5	0	0	15	30	35	35	30	5	0
40	RI	VEN	2	1	5.0	10.0	150.0	4.0	Japonica	wetland	C3/II	5.058	3.0	0.40	6.0	0	5	15	30	35	35	30	5	0
41	RI	XSM	1	1	5.5	9.5	120.0	2.0	Japonica	wetland	C3/II	4.244	2.0	0.35	4.0	0	5	15	30	35	35	30	5	0
42	RI	CRI	2	1	6.5	9.5	90.0	1.0	Japonica	wetland	C3/II	3.974	2.0	0.35	3.7	0	5	15	30	35	35	30	5	0
43	RI	GTM	2	1	4.5	10.0	165.0	4.0	Japonica	wetland	C3/II	2.643	1.0	0.30	3.0	0	5	15	30	35	35	30	5	0
44	RI	HND	3	1	4.5	9.5	150.0	4.0	Japonica	wetland	C3/II	5.054	3.0	0.40	6.0	0	5	15	30	35	35	30	5	0
45	RI	NIC	2	1	6.5	9.5	90.0	1.0	Japonica	wetland	C3/II	3.864	2.0	0.35	3.7	0	5	15	30	35	35	30	5	0
46	RI	PAN	2	1	4.5	9.0	135.0	3.0	Japonica	wetland	C3/II	2.653	1.0	0.30	3.0	0	5	15	30	35	35	30	5	0

Table A-1-1. Data for crop model for rice (continued).

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
47	RI	SLV	3	1	6.5	11.0	135.0	3.0	Japonica	wetland	C3/II	7.599	3.0	0.40	5.5	0	5	15	30	35	35	30	5	0
48	RI	XCA	3	1	5.0	11.0	180.0	4.0	Japonica	wetland	C3/II	4.112	2.0	0.35	4.5	0	5	15	30	35	35	30	5	0
49	RI	DOM	2	1	6.0	9.5	105.0	1.0	Japonica	wetland	C3/II	4.775	2.0	0.35	3.7	0	5	15	30	35	35	30	5	0
50	RI	JAM	2	1	6.0	9.5	105.0	1.0	Japonica	wetland	C3/II	2.763	1.0	0.30	2.5	0	5	15	30	35	35	30	5	0
51	RI	PRI	2	1	6.0	9.5	105.0	1.0	Japonica	wetland	C3/II	0.000												
52	RI	TTO	2	1	7.0	11.0	120.0	2.0	Japonica	wetland	C3/II	1.053	1.0	0.30	2.5	0	5	15	30	35	35	30	5	0
53	RI	XCB	3	1	4.5	10.0	165.0	4.0	Japonica	wetland	C3/II	3.439	2.0	0.35	4.5	0	5	15	30	35	35	30	5	0
54	RI	AUT	5	1	3.0	9.0	180.0	4.0			C3/II	0.000												
55	RI	BEL	5	1	3.0	9.0	180.0	4.0			C3/II	0.000												
56	RI	CYP	4	1	4.5	9.5	150.0	4.0			C3/II	0.000												
57	RI	CZE	5	1	4.5	9.5	150.0	4.0			C3/II	0.000												
58	RI	DNK	5	1	3.0	9.0	180.0	4.0			C3/II	0.000												
59	RI	EST	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
60	RI	FIN	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
61	RI	FRA	5	1	3.0	9.0	180.0	4.0	Japonica	wetland	C3/II	5.452	3.0	0.40	6.0	0	5	15	30	35	35	30	5	0
62	RI	DEU	5	1	3.0	9.0	180.0	4.0			C3/II	0.000												
63	RI	GRC	5	1	5.0	9.5	135.0	3.0	Japonica	wetland	C3/II	7.361	3.0	0.40	5.5	0	5	15	30	35	35	30	5	0
64	RI	HUN	5	1	4.5	9.5	150.0	4.0	Japonica	wetland	C3/II	3.655	2.0	0.35	4.5	0	5	15	30	35	35	30	5	0
65	RI	IRL	5	1	3.0	9.0	180.0	4.0			C3/II	0.000												
66	RI	ITA	5	1	4.5	9.5	150.0	4.0	Japonica	wetland	C3/II	6.365	3.0	0.40	6.0	0	5	15	30	35	35	30	5	0
67	RI	LVA	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
68	RI	LTU	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
69	RI	LUX	5	1	3.0	9.0	180.0	4.0			C3/II	0.000												
70	RI	MLT	5	1	4.5	9.5	150.0	4.0			C3/II	0.000												
71	RI	NLD	5	1	3.0	9.0	180.0	4.0			C3/II	0.000												
72	RI	POL	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
73	RI	PRT	5	1	4.0	9.0	150.0	4.0	Japonica	wetland	C3/II	5.777	3.0	0.40	6.0	0	5	15	30	35	35	30	5	0
74	RI	SVK	5	1	4.5	9.5	150.0	4.0			C3/II	0.000												
75	RI	SVN	5	1	4.5	9.5	150.0	4.0			C3/II	0.000												
76	RI	ESP	5	1	5.0	9.5	135.0	3.0	Japonica	wetland	C3/II	6.948	3.0	0.40	5.5	0	5	15	30	35	35	30	5	0
77	RI	SWE	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
78	RI	GBR	5	1	3.0	9.0	180.0	4.0			C3/II	0.000												
79	RI	CHE	5	1	4.5	9.5	150.0	4.0			C3/II	0.000												
80	RI	NOR	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
81	RI	XEF	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
82	RI	ALB	5	1	4.5	10.0	165.0	4.0			C3/II	0.000												
83	RI	BGR	5	1	3.5	7.5	120.0	2.0	Japonica	wetland	C3/II	5.603	3.0	0.40	5.0	0	5	15	30	35	35	30	5	0
84	RI	BLR	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
85	RI	HRV	5	1	4.5	9.5	150.0	4.0			C3/II	0.000												
86	RI	ROU	5	1	4.5	9.5	150.0	4.0	Japonica	wetland	C3/II	3.878	2.0	0.35	4.5	0	5	15	30	35	35	30	5	0
87	RI	RUS	5	1	4.5	8.5	120.0	2.0	Japonica	wetland	C3/II	4.483	2.0	0.35	4.0	0	5	15	30	35	35	30	5	0
88	RI	UKR	5	1	4.5	8.5	120.0	2.0	Japonica	wetland	C3/II	5.031	3.0	0.40	5.0	0	5	15	30	35	35	30	5	0
89	RI	XEE	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
90	RI	XER	5	1	4.5	9.5	150.0	4.0	Indica	wetland	C3/II	5.967	3.0	0.45	6.5	0	0	15	30	35	35	30	5	0
91	RI	KAZ	5	1	4.5	8.5	120.0	2.0	Indica	wetland	C3/II	3.346	2.0	0.38	4.0	0	0	15	30	35	35	30	5	0
92	RI	KGZ	5	1	4.5	8.5	120.0	2.0	Indica	wetland	C3/II	2.881	1.0	0.30	2.5	0	0	15	30	35	35	30	5	0
93	RI	XSU	5	1	4.5	8.5	120.0	2.0	Indica	wetland	C3/II	2.973	1.0	0.30	2.5	0	0	15	30	35	35	30	5	0

Table A-1-1. Data for crop model for rice (continued).

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
94	RI	ARM	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
95	RI	AZE	5	1	4.5	8.5	120.0	2.0	Indica	wetland	C3/II	3.474	2.0	0.38	4.0	0	0	15	30	35	35	30	5	0
96	RI	GEO	5	1	4.5	8.5	120.0	2.0			C3/II	0.000												
97	RI	BHR	4	1	7.0	11.0	120.0	2.0			C3/II	0.000												
98	RI	IRN	4	1	5.5	8.5	90.0	1.0	Indica	wetland	C3/II	4.204	2.0	0.38	3.8	0	0	15	30	35	35	30	5	0
99	RI	ISR	4	1	5.5	10.0	135.0	3.0			C3/II	0.000												
100	RI	KWT	4	1	7.0	11.0	120.0	2.0			C3/II	0.000												
101	RI	JOR	4	1	7.0	11.0	120.0	2.0			C3/II	0.000												
102	RI	OMN	3	1	7.0	11.0	120.0	2.0			C3/II	0.000												
103	RI	QAT	3	1	7.0	11.0	120.0	2.0			C3/II	0.000												
104	RI	SAU	3	1	7.0	11.0	120.0	2.0			C3/II	0.000												
105	RI	TUR	5	1	4.5	9.5	150.0	4.0	Indica	wetland	C3/II	7.168	3.0	0.45	6.5	0	0	15	30	35	35	30	5	0
106	RI	ARE	3	1	7.0	11.0	120.0	2.0			C3/II	0.000												
107	RI	XWS	4	1	5.0	10.0	150.0	4.0			C3/II	2.993	1.0	0.30										
108	RI	EGY	4	1	5.5	10.0	135.0	3.0	Japonica	wetland	C3/II	9.858	3.0	0.40	5.5	0	5	15	30	35	35	30	5	0
109	RI	MAR	4	1	4.5	10.0	165.0	4.0	Japonica	wetland	C3/II	7.041	3.0	0.40	6.0	0	5	15	30	35	35	30	5	0
110	RI	TUN	4	1	4.5	10.0	165.0	4.0	Japonica	wetland	C3/II	0.000				0	5	15	30	35	35	30	5	0
111	RI	XNF	4	1	4.5	10.0	165.0	4.0	Japonica	wetland	C3/II	1.808	1.0	0.30	3.0	0	5	15	30	35	35	30	5	0
112	RI	BEN	2	1	6.0	9.5	105.0	1.0	Indica	wetland	C3/II	2.850	1.0	0.30	2.5	0	0	15	30	35	35	30	5	0
113	RI	BFA	2	1	6.5	11.0	135.0	3.0	Indica	wetland	C3/II	2.236	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
114	RI	CMR	1	1	8.0	0.5	165.0	4.0	Indica	wetland	C3/II	1.097	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
115	RI	CIV	2	1	5.0	10.5	165.0	4.0	Indica	wetland	C3/II	1.782	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
116	RI	GHA	2	1	4.5	9.0	135.0	3.0	Indica	wetland	C3/II	1.992	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
117	RI	GIN	2	1	4.5	9.5	150.0	4.0	Indica	wetland	C3/II	1.825	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
118	RI	NGA	2	1	5.0	8.5	105.0	1.0	Indica	wetland	C3/II	1.513	1.0	0.30	2.5	0	0	15	30	35	35	30	5	0
119	RI	SEN	2	1	6.5	12.0	165.0	4.0	Indica	wetland	C3/II	2.635	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
120	RI	TGO	2	1	5.0	11.0	180.0	4.0	Indica	wetland	C3/II	2.370	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
121	RI	XWF	2	1	6.0	10.5	135.0	3.0	Indica	wetland	C3/II	1.964	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
122	RI	XCF	1	1	11.0	4.5	195.0	4.0	Indica	wetland	C3/II	1.421	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
123	RI	XAC	1	1	2.0	6.0	120.0	2.0	Indica	wetland	C3/II	0.749	1.0	0.30	2.5	0	0	15	30	35	35	30	5	0
124	RI	ETH	2	1	5.0	0.5	255.0	4.0	Indica	wetland	C3/II	1.864	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
125	RI	KEN	1	1	5.0	0.5	255.0	4.0	Indica	wetland	C3/II	3.152	2.0	0.38	4.8	0	0	15	30	35	35	30	5	0
126	RI	MDG	3	2	10.5	5.0	225.0	4.0	Indica	wetland	C3/II	2.739	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
127	RI	MWI	2	2	12.0	5.0	180.0	4.0	Indica	wetland	C3/II	1.842	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
128	RI	MUS	3	2	10.5	5.0	225.0	4.0			C3/II	0.000												
129	RI	MOZ	3	2	5.0	11.0	180.0	4.0	Indica	wetland	C3/II	0.913	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
130	RI	RWA	1	2	11.5	6.5	240.0	4.0	Indica	wetland	C3/II	4.353	2.0	0.38	4.8	0	0	15	30	35	35	30	5	0
131	RI	TZA	2	2	5.0	11.0	180.0	4.0	Indica	wetland	C3/II	2.111	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
132	RI	UGA	1	1	6.0	11.0	150.0	4.0	Indica	wetland	C3/II	1.353	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
133	RI	ZMB	3	2	11.5	5.0	195.0	4.0	Indica	wetland	C3/II	1.221	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
134	RI	ZWE	3	2	11.5	5.0	195.0	4.0	Indica	wetland	C3/II	1.968	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
135	RI	XEC	2	1	6.0	9.5	105.0	1.0	Indica	wetland	C3/II	3.245	2.0	0.38	3.8	0	0	15	30	35	35	30	5	0
136	RI	BWA	3	2	11.5	5.0	195.0	4.0			C3/II	0.000												
137	RI	NAM	3	2	11.5	5.0	195.0	4.0			C3/II	0.000												
138	RI	ZAF	4	2	11.5	5.0	195.0	4.0	Indica	wetland	C3/II	2.755	1.0	0.30	3.0	0	0	15	30	35	35	30	5	0
139	RI	XSC	4	2	11.5	5.0	195.0	4.0	Indica	wetland	C3/II	3.041	2.0	0.38	4.8	0	0	15	30	35	35	30	5	0
140	RI	XTW	2	1	6.0	9.5	105.0	1.0	Indica	wetland	C3/II	0.000												

Table A-1-2. Data for crop model for wheat.

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
1	WH	AUS	4	2	6.0	11.0	150.0	4.0	Wheat	winter	C3/I	1.193	1.0	0.30	2.5	5	15	25	25	20	10	0	0	0
2	WH	NZL	5	2	6.0	11.0	150.0	4.0	Wheat	winter	C3/I	7.835	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
3	WH	XOC	2	2	6.0	11.0	150.0	4.0	Wheat	winter	C3/I	1.473	1.0	0.30	2.5	5	15	25	25	20	10	0	0	0
4	WH	CHN	4	1	10.0	6.0	270.0	4.0	Wheat	winter	C3/I	4.654	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
5	WH	HKG	3	1	10.0	6.0	270.0	4.0	Wheat	winter	C3/I	0.000				5	15	25	25	20	10	0	0	0
6	WH	JPN	5	1	10.0	6.0	270.0	4.0	Wheat	winter	C3/I	4.132	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
7	WH	KOR	5	1	10.0	6.0	270.0	4.0	Wheat	winter	C3/I	3.740	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
8	WH	MNG	5	1	3.0	7.0	120.0	3.0	Wheat	winter	C3/I	1.140	1.0	0.30	2.5	5	15	25	25	20	10	0	0	0
9	WH	TWN	3	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	0.000				5	15	25	25	20	15	5	0	0
10	WH	XEA	5	1	10.0	6.0	270.0	4.0	Wheat	winter	C3/I	2.441	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
11	WH	BRN	1	1	11.0	4.0	180.0				C3/I	0.000												
12	WH	KHM	2	1	11.0	4.0	180.0				C3/I	0.000												
13	WH	IDN	1	2	6.0	11.0	150.0				C3/I	0.000												
14	WH	LAO	3	1	11.0	4.0	180.0				C3/I	0.000												
15	WH	MYS	1	1	11.0	4.0	180.0				C3/I	0.000												
16	WH	PHL	2	1	11.0	4.0	180.0				C3/I	0.000												
17	WH	SGP	1	1	11.0	4.0	180.0				C3/I	0.000												
18	WH	THA	2	1	11.0	4.0	180.0	4.0	Wheat	tropics	C3/I	1.040	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
19	WH	VNM	2	1	11.0	4.0	180.0				C3/I	0.000												
20	WH	XSE	3	1	11.0	4.0	180.0	4.0	Wheat	tropics	C3/I	1.657	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
21	WH	BGD	3	1	11.0	4.0	180.0	4.0	Wheat	tropics	C3/I	1.852	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
22	WH	IND	3	1	11.0	4.0	180.0	4.0	Wheat	tropics	C3/I	2.710	2.0	0.30	3.8	5	15	25	25	20	15	5	0	0
23	WH	NPL	4	1	11.0	4.0	180.0	4.0	Wheat	sub-tropics	C3/I	2.152	2.0	0.35	3.8	5	15	25	25	20	15	5	0	0
24	WH	PAK	4	1	11.0	4.5	195.0	4.0	Wheat	sub-tropics	C3/I	2.562	2.0	0.35	3.8	5	15	25	25	20	15	5	0	0
25	WH	LKA	2	1	11.0	4.0	180.0				C3/I	0.000												
26	WH	XSA	4	1	11.0	4.0	180.0	4.0	Wheat	tropics	C3/I	1.473	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
27	WH	CAN	5	1	5.0	9.0	120.0	2.0	Wheat	spring	C3/I	2.595	2.0	0.30	3.0	5	15	20	20	15	5	0	0	0
28	WH	USA	5	1	9.5	6.5	300.0	4.0	Wheat	winter	C3/I	2.774	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
29	WH	MEX	3	1	11.0	5.0	210.0	4.0	Wheat	sub-tropics	C3/I	5.108	3.0	0.45	5.0	5	15	25	25	20	15	5	0	0
30	WH	XNA	4	1	5.0	9.0	120.0				C3/I	0.000												
31	WH	ARG	4	2	6.0	9.5	105.0	1.0	Wheat	sub-tropics	C3/I	2.479	2.0	0.35	3.0	5	15	25	25	20	15	5	0	0
32	WH	BOL	3	2	4.5	10.0	165.0	3.0	Wheat	tropics	C3/I	1.108	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
33	WH	BRA	2	2	4.5	10.0	165.0	3.0	Wheat	tropics	C3/I	2.121	2.0	0.30	3.8	5	15	25	25	20	15	5	0	0
34	WH	CHL	4	2	6.0	9.5	105.0	1.0	Wheat	sub-tropics	C3/I	4.607	3.0	0.45	4.0	5	15	25	25	20	15	5	0	0
35	WH	COL	1	1	4.5	10.0	165.0	3.0	Wheat	tropics	C3/I	1.745	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
36	WH	ECU	1	2	4.5	10.0	165.0	3.0	Wheat	tropics	C3/I	0.781	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
37	WH	PRY	3	2	6.0	9.5	105.0	1.0	Wheat	sub-tropics	C3/I	2.263	2.0	0.35	3.0	5	15	25	25	20	15	5	0	0
38	WH	PER	2	2	4.5	10.0	165.0	3.0	Wheat	tropics	C3/I	1.325	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
39	WH	URY	4	2	6.0	9.5	105.0	1.0	Wheat	sub-tropics	C3/I	2.934	2.0	0.35	3.0	5	15	25	25	20	15	5	0	0
40	WH	VEN	2	1	4.5	10.0	165.0	3.0	Wheat	tropics	C3/I	0.302	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
41	WH	XSM	1	1	4.5	10.0	165.0				C3/I	0.000												
42	WH	CRI	2	1	11.0	5.0	210.0				C3/I	0.000												
43	WH	GTM	2	1	11.0	5.0	210.0	4.0	Wheat	tropics	C3/I	2.003	2.0	0.30	3.8	5	15	25	25	20	15	5	0	0
44	WH	HND	3	1	11.0	5.0	210.0	4.0	Wheat	tropics	C3/I	0.553	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
45	WH	NIC	2	1	11.0	5.0	210.0				C3/I	0.000												
46	WH	PAN	2	1	11.0	5.0	210.0				C3/I	0.000												

Table A-1-2. Data for crop model for wheat (continued).

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
47	WH	SLV	3	1	11.0	5.0	210.0				C3/I	0.000												
48	WH	XCA	3	1	11.0	5.0	210.0				C3/I	0.000												
49	WH	DOM	2	1	11.0	5.0	210.0				C3/I	0.000												
50	WH	JAM	2	1	11.0	5.0	210.0				C3/I	0.000												
51	WH	PRI	2	1	11.0	5.0	210.0				C3/I	0.000												
52	WH	TTO	2	1	4.5	10.0	165.0				C3/I	0.000												
53	WH	XCB	3	1	11.0	5.0	210.0				C3/I	0.000												
54	WH	AUT	5	1	10.0	8.0	330.0	4.0	Wheat	winter	C3/I	5.125	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
55	WH	BEL	5	1	10.5	7.5	300.0	4.0	Wheat	winter	C3/I	8.301	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
56	WH	CYP	4	1	10.0	6.0	270.0	4.0	Wheat	winter	C3/I	1.751	1.0	0.30	2.5	5	15	25	25	20	10	0	0	0
57	WH	CZE	5	1	9.0	7.5	345.0	4.0	Wheat	winter	C3/I	5.041	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
58	WH	DNK	5	1	10.0	8.0	330.0	4.0	Wheat	winter	C3/I	7.140	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
59	WH	EST	5	1	9.0	7.5	345.0	4.0	Wheat	winter	C3/I	3.025	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
60	WH	FIN	5	1	9.5	6.5	300.0	4.0	Wheat	winter	C3/I	3.710	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
61	WH	FRA	5	1	10.5	7.5	300.0	4.0	Wheat	winter	C3/I	6.699	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
62	WH	DEU	5	1	10.0	8.0	330.0	4.0	Wheat	winter	C3/I	7.416	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
63	WH	GRC	5	1	10.0	6.0	270.0	4.0	Wheat	winter	C3/I	2.491	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
64	WH	HUN	5	1	10.0	6.5	285.0	4.0	Wheat	winter	C3/I	4.214	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
65	WH	IRL	5	1	10.5	7.5	300.0	4.0	Wheat	winter	C3/I	8.893	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
66	WH	ITA	5	1	10.0	6.5	285.0	4.0	Wheat	winter	C3/I	3.671	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
67	WH	LVA	5	1	9.0	7.5	345.0	4.0	Wheat	winter	C3/I	3.411	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
68	WH	LTU	5	1	9.0	7.5	345.0	4.0	Wheat	winter	C3/I	3.515	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
69	WH	LUX	5	1	10.5	7.5	300.0	4.0	Wheat	winter	C3/I	6.077	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
70	WH	MLT	5	1	10.0	6.5	285.0	4.0	Wheat	winter	C3/I	4.283	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
71	WH	NLD	5	1	10.0	8.0	330.0	4.0	Wheat	winter	C3/I	8.065	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
72	WH	POL	5	1	9.5	7.5	330.0	4.0	Wheat	winter	C3/I	3.751	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
73	WH	PRT	5	1	11.5	6.5	240.0	4.0	Wheat	winter	C3/I	2.289	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
74	WH	SVK	5	1	9.0	7.5	345.0	4.0	Wheat	winter	C3/I	4.174	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
75	WH	SVN	5	1	9.5	7.5	330.0	4.0	Wheat	winter	C3/I	4.299	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
76	WH	ESP	5	1	11.5	6.5	240.0	4.0	Wheat	winter	C3/I	3.231	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
77	WH	SWE	5	1	9.5	6.5	300.0	4.0	Wheat	winter	C3/I	5.943	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
78	WH	GBR	5	1	10.5	7.5	300.0	4.0	Wheat	winter	C3/I	7.847	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
79	WH	CHE	5	1	10.0	6.5	285.0	4.0	Wheat	winter	C3/I	5.930	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
80	WH	NOR	5	1	9.5	6.5	300.0	4.0	Wheat	winter	C3/I	4.475	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
81	WH	XEF	5	1	9.5	6.5	300.0	4.0	Wheat	winter	C3/I	0.000				5	15	25	25	20	10	0	0	0
82	WH	ALB	5	1	9.5	7.0	315.0	4.0	Wheat	winter	C3/I	3.548	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
83	WH	BGR	5	1	9.5	7.0	315.0	4.0	Wheat	winter	C3/I	3.256	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
84	WH	BLR	5	1	9.0	7.5	345.0	4.0	Wheat	winter	C3/I	3.357	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
85	WH	HRV	5	1	9.5	7.5	330.0	4.0	Wheat	winter	C3/I	4.902	3.0	0.50	5.5	5	15	25	25	20	10	0	0	0
86	WH	ROU	5	1	9.5	7.5	330.0	4.0	Wheat	winter	C3/I	2.602	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
87	WH	RUS	5	1	5.0	8.5	105.0	1.0	Wheat	spring	C3/I	2.165	2.0	0.30	2.6	5	15	20	20	15	5	0	0	0
88	WH	UKR	5	1	9.0	7.5	345.0	4.0	Wheat	winter	C3/I	2.848	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
89	WH	XEE	5	1	9.0	7.5	345.0	4.0	Wheat	winter	C3/I	2.244	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
90	WH	XER	5	1	9.5	7.5	330.0	4.0	Wheat	winter	C3/I	3.577	2.0	0.40	4.0	5	15	25	25	20	10	0	0	0
91	WH	KAZ	5	1	5.0	8.5	105.0	1.0	Wheat	spring	C3/I	1.135	1.0	0.20	1.8	5	15	20	20	15	5	0	0	0
92	WH	KGZ	5	1	5.0	8.5	105.0	1.0	Wheat	spring	C3/I	2.002	2.0	0.30	2.6	5	15	20	20	15	5	0	0	0
93	WH	XSU	5	1	5.0	8.5	105.0	1.0	Wheat	sub-tropics	C3/I	3.683	2.0	0.35	3.0	5	15	20	20	15	5	0	0	0

Table A-1-2. Data for crop model for wheat (continued).

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
94	WH	ARM	5	1	5.0	8.5	105.0	1.0	Wheat	sub-tropics	C3/I	2.201	2.0	0.35	3.0	5	15	20	20	15	5	0	0	0
95	WH	AZE	5	1	5.0	8.5	105.0	1.0	Wheat	sub-tropics	C3/I	2.667	2.0	0.35	3.0	5	15	20	20	15	5	0	0	0
96	WH	GEO	5	1	5.0	8.5	105.0	1.0	Wheat	sub-tropics	C3/I	1.533	1.0	0.25	2.0	5	15	20	20	15	5	0	0	0
97	WH	BHR	4	1	10.0	6.0	270.0				C3/I	0.000												
98	WH	IRN	4	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	2.027	2.0	0.35	3.8	5	15	25	25	20	15	5	0	0
99	WH	ISR	4	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	1.514	1.0	0.25	2.5	5	15	25	25	20	15	5	0	0
100	WH	KWT	4	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	2.162	2.0	0.35	3.8	5	15	25	25	20	15	5	0	0
101	WH	JOR	4	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	0.831	1.0	0.25	2.5	5	15	25	25	20	15	5	0	0
102	WH	OMN	3	1	10.0	6.0	270.0	4.0	Wheat	tropics	C3/I	2.973	2.0	0.30	3.8	5	15	25	25	20	15	5	0	0
103	WH	QAT	3	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	2.487	2.0	0.35	3.8	5	15	25	25	20	15	5	0	0
104	WH	SAU	3	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	5.798	3.0	0.45	5.0	5	15	25	25	20	15	5	0	0
105	WH	TUR	5	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	2.228	2.0	0.35	3.8	5	15	25	25	20	15	5	0	0
106	WH	ARE	3	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	2.867	2.0	0.35	3.8	5	15	25	25	20	15	5	0	0
107	WH	XWS	4	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	1.738	1.0	0.25	2.5	5	15	25	25	20	15	5	0	0
108	WH	EGY	4	1	10.0	6.0	270.0	4.0	Wheat	sub-tropics	C3/I	6.467	3.0	0.45	5.0	5	15	25	25	20	15	5	0	0
109	WH	MAR	4	1	11.5	5.0	195.0	4.0	Wheat	sub-tropics	C3/I	1.324	1.0	0.25	2.5	5	15	25	25	20	15	5	0	0
110	WH	TUN	4	1	11.5	5.0	195.0	4.0	Wheat	sub-tropics	C3/I	1.675	1.0	0.25	2.5	5	15	25	25	20	15	5	0	0
111	WH	XNF	4	1	11.5	5.0	195.0	4.0	Wheat	sub-tropics	C3/I	1.255	1.0	0.25	2.5	5	15	25	25	20	15	5	0	0
112	WH	BEN	2	1	11.5	3.0					C3/I	0.000												
113	WH	BFA	2	1	11.5	3.0					C3/I	0.000												
114	WH	CMR	1	1	11.5	3.0	135.0	2.0	Wheat	tropics	C3/I	1.244	1.0	0.20	2.3	5	15	25	25	20	15	5	0	0
115	WH	CIV	2	1	11.5	3.0	135.0				C3/I	0.000												
116	WH	GHA	2	1	11.5	3.0	135.0				C3/I	0.000												
117	WH	GIN	2	1	11.5	3.0					C3/I	0.000												
118	WH	NGA	2	1	11.5	3.0	135.0	2.0	Wheat	tropics	C3/I	1.492	1.0	0.20	2.3	5	15	25	25	20	15	5	0	0
119	WH	SEN	2	1	11.5	3.0	135.0				C3/I	0.000												
120	WH	TGO	2	1	11.5	3.0					C3/I	0.000												
121	WH	XWF	2	1	11.5	3.0	135.0	2.0	Wheat	tropics	C3/I	1.923	1.0	0.20	2.3	5	15	25	25	20	15	5	0	0
122	WH	XCF	1	1	11.5	3.0	135.0	2.0	Wheat	tropics	C3/I	1.633	1.0	0.20	2.3	5	15	25	25	20	15	5	0	0
123	WH	XAC	1	1	11.5	3.0	135.0	2.0	Wheat	tropics	C3/I	1.466	1.0	0.20	2.3	5	15	25	25	20	15	5	0	0
124	WH	ETH	2	1	3.5	7.0	105.0	1.0	Wheat	tropics	C3/I	1.713	1.0	0.20	1.0	5	15	25	25	20	15	5	0	0
125	WH	KEN	1	1	3.0	9.0	180.0	4.0	Wheat	tropics	C3/I	2.518	2.0	0.30	3.8	5	15	25	25	20	15	5	0	0
126	WH	MDG	3	2	5.0	9.0	120.0	2.0	Wheat	tropics	C3/I	2.297	2.0	0.30	3.4	5	15	25	25	20	15	5	0	0
127	WH	MWI	2	2	5.0	9.0	120.0	2.0	Wheat	tropics	C3/I	1.706	1.0	0.20	2.3	5	15	25	25	20	15	5	0	0
128	WH	MUS	3	2	5.0	9.0	120.0				C3/I	0.000												
129	WH	MOZ	3	2	4.5	8.5	120.0	2.0	Wheat	tropics	C3/I	1.011	1.0	0.20	2.3	5	15	25	25	20	15	5	0	0
130	WH	RWA	1	2	3.0	9.0	180.0	4.0	Wheat	tropics	C3/I	1.014	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
131	WH	TZA	2	2	3.0	7.0	120.0	2.0	Wheat	tropics	C3/I	1.955	1.0	0.20	2.3	5	15	25	25	20	15	5	0	0
132	WH	UGA	1	1	3.0	9.0	180.0	4.0	Wheat	tropics	C3/I	1.752	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
133	WH	ZMB	3	2	5.0	9.0	120.0	2.0	Wheat	tropics	C3/I	5.794	3.0	0.40	4.5	5	15	25	25	20	15	5	0	0
134	WH	ZWE	3	2	5.0	9.5	135.0	2.0	Wheat	tropics	C3/I	3.203	2.0	0.30	3.4	5	15	25	25	20	15	5	0	0
135	WH	XEC	2	1	3.0	8.0	150.0	3.0	Wheat	tropics	C3/I	2.440	2.0	0.30	3.8	5	15	25	25	20	15	5	0	0
136	WH	BWA	3	2	6.0	11.0	150.0	3.0	Wheat	tropics	C3/I	1.115	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
137	WH	NAM	3	2	5.5	10.5	150.0	3.0	Wheat	tropics	C3/I	5.717	3.0	0.40	5.0	5	15	25	25	20	15	5	0	0
138	WH	ZAF	4	2	6.0	11.0	150.0	3.0	Wheat	tropics	C3/I	2.871	2.0	0.30	3.8	5	15	25	25	20	15	5	0	0
139	WH	XSC	4	2	5.5	12.0	195.0	4.0	Wheat	tropics	C3/I	0.330	1.0	0.20	2.5	5	15	25	25	20	15	5	0	0
140	WH	XTW	2	1	3.0	8.0	150.0				C3/I	0.000												

Table A-1-3. Data for crop model for maize.

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
1	MZ	AUS	4	2	10.5	4.5	210.0	4.0	Maize	lowland	C4/III	5.200	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
2	MZ	NZL	5	2	10.5	4.5	210.0	4.0	Maize	lowland	C4/III	11.222	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
3	MZ	XOC	2	2	10.5	4.5	210.0	4.0	Maize	lowland	C4/III	2.844	2.0	0.35	3.3	0	0	5	45	65	65	65	45	5
4	MZ	CHN	4	1	3.0	7.5	135.0	3.0	Maize	sub-tropics	C4/IV	5.350	3.0	0.45	4.0	0	0	5	45	65	65	65	45	5
5	MZ	HKG	3	1	3.0	7.5	135.0					0.000												
6	MZ	JPN	5	1	5.0	9.0	120.0	3.0	Maize	lowland	C4/III	2.527	2.0	0.35	3.3	0	0	5	45	65	65	65	45	5
7	MZ	KOR	5	1	5.0	9.0	120.0	3.0	Maize	lowland	C4/III	4.901	3.0	0.45	4.0	0	0	5	45	65	65	65	45	5
8	MZ	MNG	5	1	5.0	9.0	120.0					0.000												
9	MZ	TWN	3	1	3.0	7.5	135.0					0.000												
10	MZ	XEA	5	1	5.0	9.0	120.0	3.0	Maize	lowland	C4/III	3.219	2.0	0.35	3.3	0	0	5	45	65	65	65	45	5
11	MZ	BRN	1	1	5.0	8.0	90.0					0.000												
12	MZ	KHM	2	1	5.0	8.0	90.0	1.0	Maize	sub-tropics	C4/IV	3.671	2.0	0.30	2.3	0	5	40	50	50	50	40	5	0
13	MZ	IDN	1	2	11.5	3.5	150.0	4.0	Maize	sub-tropics	C4/IV	3.736	2.0	0.33	3.5	0	5	40	50	50	50	40	5	0
14	MZ	LAO	3	1	5.0	8.0	90.0	1.0	Maize	sub-tropics	C4/IV	4.595	3.0	0.40	3.0	0	5	40	50	50	50	40	5	0
15	MZ	MYS	1	1	5.0	8.0	90.0	1.0	Maize	sub-tropics	C4/IV	4.476	3.0	0.40	3.0	0	5	40	50	50	50	40	5	0
16	MZ	PHL	2	1	5.0	8.0	90.0	1.0	Maize	sub-tropics	C4/IV	2.504	2.0	0.30	2.3	0	5	40	50	50	50	40	5	0
17	MZ	SGP	1	1	5.0	8.0	90.0					0.000												
18	MZ	THA	2	1	5.0	8.0	90.0	1.0	Maize	sub-tropics	C4/IV	3.987	2.0	0.30	2.3	0	5	40	50	50	50	40	5	0
19	MZ	VNM	2	1	5.0	8.0	90.0	1.0	Maize	sub-tropics	C4/IV	3.894	2.0	0.30	2.3	0	5	40	50	50	50	40	5	0
20	MZ	XSE	3	1	5.0	8.0	90.0	1.0	Maize	sub-tropics	C4/IV	2.927	2.0	0.30	2.3	0	5	40	50	50	50	40	5	0
21	MZ	BGD	3	1	6.0	12.0	180.0	6.0	Maize	sub-tropics	C4/IV	5.766	3.0	0.45	5.5	0	5	40	50	50	50	40	5	0
22	MZ	IND	3	1	6.0	12.0	180.0	6.0	Maize	sub-tropics	C4/IV	2.221	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
23	MZ	NPL	4	1	6.0	12.0	180.0	6.0	Maize	sub-tropics	C4/IV	2.096	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
24	MZ	PAK	4	1	6.0	12.0	180.0	6.0	Maize	sub-tropics	C4/IV	3.293	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
25	MZ	LKA	2	1	6.0	12.0	180.0	6.0	Maize	sub-tropics	C4/IV	1.771	1.0	0.25	3.0	0	5	40	50	50	50	40	5	0
26	MZ	XSA	4	1	6.0	12.0	180.0	6.0	Maize	sub-tropics	C4/IV	2.423	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
27	MZ	CAN	5	1	5.5	10.5	150.0	2.0	Maize	highland	C4/IV	8.682	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
28	MZ	USA	5	1	5.0	10.5	165.0	5.0	Maize	sub-tropics	C4/IV	9.492	3.0	0.45	5.0	0	0	5	45	65	65	65	45	5
29	MZ	MEX	3	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	3.172	2.0	0.35	3.8	0	5	40	50	50	50	40	5	0
30	MZ	XNA	4	1	5.5	11.0	165.0					0.000												
31	MZ	ARG	4	2	10.0	4.0	210.0	6.0	Maize	sub-tropics	C4/IV	6.674	3.0	0.45	5.5	0	5	40	50	50	50	40	5	0
32	MZ	BOL	3	2	11.0	4.0	180.0	2.0	Maize	highland	C4/IV	2.345	2.0	0.27	3.0	0	5	40	50	50	50	40	5	0
33	MZ	BRA	2	2	11.0	4.0	180.0	6.0	Maize	sub-tropics	C4/IV	3.749	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
34	MZ	CHL	4	2	10.0	4.0	210.0	2.0	Maize	highland	C4/IV	10.085	3.0	0.35	4.0	0	5	40	50	50	50	40	5	0
35	MZ	COL	1	1	11.0	4.0	180.0	2.0	Maize	highland	C4/IV	2.691	2.0	0.27	3.0	0	5	40	50	50	50	40	5	0
36	MZ	ECU	1	2	11.0	4.0	180.0	2.0	Maize	highland	C4/IV	2.144	2.0	0.27	3.0	0	5	40	50	50	50	40	5	0
37	MZ	PRY	3	2	10.0	4.0	210.0	6.0	Maize	sub-tropics	C4/IV	2.539	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
38	MZ	PER	2	2	11.0	4.0	180.0	2.0	Maize	highland	C4/IV	2.839	2.0	0.27	3.0	0	5	40	50	50	50	40	5	0
39	MZ	URY	4	2	10.0	4.0	210.0	6.0	Maize	sub-tropics	C4/IV	4.697	3.0	0.45	5.5	0	5	40	50	50	50	40	5	0
40	MZ	VEN	2	1	11.0	4.0	180.0	6.0	Maize	sub-tropics	C4/IV	3.544	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
41	MZ	XSM	1	1	11.0	4.0	180.0	6.0	Maize	sub-tropics	C4/IV	1.347	1.0	0.25	3.0	0	5	40	50	50	50	40	5	0
42	MZ	CRI	2	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	2.004	2.0	0.35	3.8	0	5	40	50	50	50	40	5	0
43	MZ	GTM	2	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	2.100	2.0	0.35	3.8	0	5	40	50	50	50	40	5	0
44	MZ	HND	3	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	1.640	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
45	MZ	NIC	2	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	1.390	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
46	MZ	PAN	2	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	1.693	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0

Table A-1-3. Data for crop model for maize (continued).

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
47	MZ	SLV	3	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	3.127	2.0	0.35	3.8	0	5	40	50	50	50	40	5	0
48	MZ	XCA	3	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	2.162	2.0	0.35	3.8	0	5	40	50	50	50	40	5	0
49	MZ	DOM	2	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	1.407	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
50	MZ	JAM	2	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	1.226	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
51	MZ	PRI	2	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	1.838	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
52	MZ	TTO	2	1	11.0	4.0	180.0	6.0	Maize	sub-tropics	C4/IV	2.500	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
53	MZ	XCB	3	1	5.5	11.0	165.0	5.0	Maize	sub-tropics	C4/IV	1.336	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
54	MZ	AUT	5	1	4.5	9.0	135.0	1.0	Maize	highland	C4/IV	10.076	3.0	0.35	3.5	0	0	5	45	65	65	65	45	5
55	MZ	BEL	5	1	4.5	10.0	165.0	2.0	Maize	highland	C4/IV	11.749	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
56	MZ	CYP	4	1	5.0	9.5	135.0					0.000												
57	MZ	CZE	5	1	4.5	9.0	135.0	1.0	Maize	highland	C4/IV	7.031	3.0	0.35	3.5	0	0	5	45	65	65	65	45	5
58	MZ	DNK	5	1	5.0	10.0	150.0					0.000												
59	MZ	EST	5	1	5.0	10.0	150.0					0.000												
60	MZ	FIN	5	1	5.0	10.0	150.0					0.000												
61	MZ	FRA	5	1	4.5	10.0	165.0	2.0	Maize	highland	C4/IV	9.229	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
62	MZ	DEU	5	1	4.5	10.0	165.0	2.0	Maize	highland	C4/IV	9.096	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
63	MZ	GRC	5	1	4.5	9.5	150.0	4.0	Maize	lowland	C4/III	10.146	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
64	MZ	HUN	5	1	4.5	9.5	150.0	4.0	Maize	lowland	C4/III	6.005	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
65	MZ	IRL	5	1	4.5	10.0	165.0					0.000												
66	MZ	ITA	5	1	4.0	9.5	165.0	4.0	Maize	lowland	C4/III	9.204	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
67	MZ	LVA	5	1	5.0	10.0	150.0					0.000												
68	MZ	LTU	5	1	5.0	10.0	150.0	2.0	Maize	highland	C4/IV	3.792	2.0	0.27	3.0	0	0	5	45	65	65	65	45	5
69	MZ	LUX	5	1	4.5	10.0	165.0	2.0	Maize	highland	C4/IV	6.687	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
70	MZ	MLT	5	1	4.0	9.5	165.0					0.000												
71	MZ	NLD	5	1	4.5	10.0	165.0	2.0	Maize	highland	C4/IV	10.839	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
72	MZ	POL	5	1	4.5	9.0	135.0	1.0	Maize	highland	C4/IV	5.517	3.0	0.35	3.5	0	0	5	45	65	65	65	45	5
73	MZ	PRT	5	1	3.5	10.0	195.0	2.0	Maize	highland	C4/IV	5.640	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
74	MZ	SVK	5	1	4.5	9.0	135.0	1.0	Maize	highland	C4/IV	5.870	3.0	0.35	3.5	0	0	5	45	65	65	65	45	5
75	MZ	SVN	5	1	4.5	9.5	150.0	4.0	Maize	lowland	C4/III	7.262	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
76	MZ	ESP	5	1	3.5	10.0	195.0	4.0	Maize	lowland	C4/III	9.884	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
77	MZ	SWE	5	1	5.0	10.0	150.0					0.000												
78	MZ	GBR	5	1	4.5	10.0	165.0					0.000												
79	MZ	CHE	5	1	4.5	10.0	165.0	2.0	Maize	highland	C4/IV	9.440	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
80	MZ	NOR	5	1	5.0	10.0	150.0					0.000												
81	MZ	XEF	5	1	4.5	10.0	165.0					0.000												
82	MZ	ALB	5	1	4.5	9.5	150.0	4.0	Maize	lowland	C4/III	4.895	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
83	MZ	BGR	5	1	4.5	9.5	150.0	2.0	Maize	highland	C4/IV	3.382	2.0	0.27	3.0	0	0	5	45	65	65	65	45	5
84	MZ	BLR	5	1	5.0	10.0	150.0	2.0	Maize	highland	C4/IV	4.464	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
85	MZ	HRV	5	1	4.5	9.5	150.0	4.0	Maize	lowland	C4/III	6.481	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
86	MZ	ROU	5	1	4.5	8.5	120.0	1.0	Maize	highland	C4/IV	2.835	2.0	0.25	2.5	0	0	5	45	65	65	65	45	5
87	MZ	RUS	5	1	5.0	10.0	150.0	4.0	Maize	lowland	C4/III	3.468	2.0	0.35	3.3	0	0	5	45	65	65	65	45	5
88	MZ	UKR	5	1	5.0	10.0	150.0	4.0	Maize	lowland	C4/III	4.109	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
89	MZ	XEE	5	1	5.0	10.0	150.0	4.0	Maize	lowland	C4/III	2.371	2.0	0.35	3.3	0	0	5	45	65	65	65	45	5
90	MZ	XER	5	1	4.5	9.5	150.0	2.0	Maize	highland	C4/IV	4.400	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
91	MZ	KAZ	5	1	5.0	10.0	150.0	4.0	Maize	lowland	C4/III	4.915	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
92	MZ	KGZ	5	1	5.0	10.0	150.0	4.0	Maize	lowland	C4/III	5.995	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
93	MZ	XSU	5	1	5.0	10.0	150.0	4.0	Maize	lowland	C4/III	4.944	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5

Table A-1-3. Data for crop model for maize (continued).

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
94	MZ	ARM	5	1	5.0	10.0	150.0	2.0	Maize	highland	C4/IV	4.667	3.0	0.35	4.0	0	0	5	45	65	65	65	45	5
95	MZ	AZE	5	1	5.0	10.0	150.0	4.0	Maize	lowland	C4/III	4.658	3.0	0.45	4.5	0	0	5	45	65	65	65	45	5
96	MZ	GEO	5	1	5.0	10.0	150.0	4.0	Maize	lowland	C4/III	2.189	2.0	0.35	3.3	0	0	5	45	65	65	65	45	5
97	MZ	BHR	4	1	5.0	9.5	135.0					0.000												
98	MZ	IRN	4	1	5.0	9.5	135.0	3.0	Maize	sub-tropics	C4/IV	7.479	3.0	0.45	4.0	0	5	40	50	50	50	40	5	0
99	MZ	ISR	4	1	5.0	9.5	135.0	3.0	Maize	sub-tropics	C4/IV	18.241	3.0	0.45	4.0	0	5	40	50	50	50	40	5	0
100	MZ	KWT	4	1	5.0	9.5	135.0	4.0	Maize	lowland	C4/III	18.833	3.0	0.45	4.5	0	5	40	50	50	50	40	5	0
101	MZ	JOR	4	1	5.0	9.5	135.0	4.0	Maize	lowland	C4/III	19.880	3.0	0.45	4.5	0	5	40	50	50	50	40	5	0
102	MZ	OMN	3	1	5.0	9.5	135.0					0.000												
103	MZ	QAT	3	1	5.0	9.5	135.0	4.0	Maize	lowland	C4/III	16.048	3.0	0.45	4.5	0	5	40	50	50	50	40	5	0
104	MZ	SAU	3	1	5.0	9.5	135.0	4.0	Maize	lowland	C4/III	5.689	3.0	0.45	4.5	0	5	40	50	50	50	40	5	0
105	MZ	TUR	5	1	5.0	9.5	135.0	3.0	Maize	sub-tropics	C4/IV	7.049	3.0	0.45	4.0	0	5	40	50	50	50	40	5	0
106	MZ	ARE	3	1	5.0	9.5	135.0					0.000												
107	MZ	XWS	4	1	5.0	9.5	135.0	3.0	Maize	sub-tropics	C4/IV	2.614	2.0	0.33	3.0	0	5	40	50	50	50	40	5	0
108	MZ	EGY	4	1	5.0	9.5	135.0	4.0	Maize	lowland	C4/III	8.132	3.0	0.45	4.5	0	5	40	50	50	50	40	5	0
109	MZ	MAR	4	1	2.0	6.0	120.0	2.0	Maize	sub-tropics	C4/IV	0.729	1.0	0.20	2.0	0	5	40	50	50	50	40	5	0
110	MZ	TUN	4	1	3.5	8.0	135.0					0.000												
111	MZ	XNF	4	1	3.5	8.5	150.0	4.0	Maize	lowland	C4/III	2.875	2.0	0.35	3.3	0	5	40	50	50	50	40	5	0
112	MZ	BEN	2	1	6.0	10.0	120.0	2.0	Maize	sub-tropics	C4/IV	1.124	1.0	0.20	2.0	0	5	40	50	50	50	40	5	0
113	MZ	BFA	2	1	6.5	9.5	90.0	1.0	Maize	sub-tropics	C4/IV	1.595	1.0	0.20	1.5	0	5	40	50	50	50	40	5	0
114	MZ	CMR	1	1	5.5	10.5	150.0	4.0	Maize	sub-tropics	C4/IV	2.074	2.0	0.33	3.5	0	5	40	50	50	50	40	5	0
115	MZ	CIV	2	1	3.0	6.0	90.0	1.0	Maize	sub-tropics	C4/IV	2.124	2.0	0.30	2.3	0	5	40	50	50	50	40	5	0
116	MZ	GHA	2	1	4.0	9.5	165.0	5.0	Maize	sub-tropics	C4/IV	1.593	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
117	MZ	GIN	2	1	6.5	10.0	105.0	1.0	Maize	sub-tropics	C4/IV	1.593	1.0	0.20	1.5	0	5	40	50	50	50	40	5	0
118	MZ	NGA	2	1	3.5	7.0	105.0	1.0	Maize	sub-tropics	C4/IV	1.827	1.0	0.20	1.5	0	5	40	50	50	50	40	5	0
119	MZ	SEN	2	1	6.0	9.5	105.0	1.0	Maize	sub-tropics	C4/IV	1.443	1.0	0.20	1.5	0	5	40	50	50	50	40	5	0
120	MZ	TGO	2	1	6.0	10.0	120.0	2.0	Maize	sub-tropics	C4/IV	1.171	1.0	0.20	2.0	0	5	40	50	50	50	40	5	0
121	MZ	XWF	2	1	6.0	9.0	90.0	1.0	Maize	sub-tropics	C4/IV	1.383	1.0	0.20	1.5	0	5	40	50	50	50	40	5	0
122	MZ	XCF	1	1	10.0	1.0	120.0	2.0	Maize	sub-tropics	C4/IV	0.981	1.0	0.20	2.0	0	5	40	50	50	50	40	5	0
123	MZ	XAC	1	1	3.5	7.5	120.0	2.0	Maize	sub-tropics	C4/IV	0.696	1.0	0.20	2.0	0	5	40	50	50	50	40	5	0
124	MZ	ETH	2	1	4.0	8.0	120.0	3.0	Maize	lowland	C4/III	2.249	2.0	0.35	3.3	0	5	40	50	50	50	40	5	0
125	MZ	KEN	1	1	3.0	10.5	225.0	4.0	Maize	lowland	C4/III	1.642	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
126	MZ	MDG	3	2	11.0	3.5	165.0	5.0	Maize	sub-tropics	C4/IV	1.433	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
127	MZ	MWI	2	2	4.0	8.5	135.0	3.0	Maize	sub-tropics	C4/IV	1.929	1.0	0.20	2.0	0	5	40	50	50	50	40	5	0
128	MZ	MUS	3	2	4.0	7.0	90.0	1.0	Maize	lowland	C4/III	8.381	3.0	0.40	3.0	0	5	40	50	50	50	40	5	0
129	MZ	MOZ	3	2	10.5	2.0	135.0	3.0	Maize	sub-tropics	C4/IV	0.874	1.0	0.20	2.0	0	5	40	50	50	50	40	5	0
130	MZ	RWA	1	2	10.5	0.0	75.0	1.0	Maize	sub-tropics	C4/IV	0.908	1.0	0.20	1.5	0	5	40	50	50	50	40	5	0
131	MZ	TZA	2	2	11.5	4.0	165.0	5.0	Maize	sub-tropics	C4/IV	1.329	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
132	MZ	UGA	1	1	5.0	9.0	120.0	3.0	Maize	lowland	C4/III	1.500	1.0	0.25	2.5	0	5	40	50	50	50	40	5	0
133	MZ	ZMB	3	2	8.0	1.0	180.0	6.0	Maize	sub-tropics	C4/IV	1.991	1.0	0.25	3.0	0	5	40	50	50	50	40	5	0
134	MZ	ZWE	3	2	11.0	5.0	210.0	6.0	Maize	sub-tropics	C4/IV	0.604	1.0	0.25	3.0	0	5	40	50	50	50	40	5	0
135	MZ	XEC	2	1	9.5	0.5	120.0	2.0	Maize	sub-tropics	C4/IV	0.783	1.0	0.20	2.0	0	5	40	50	50	50	40	5	0
136	MZ	BWA	3	2	11.0	5.0	210.0	6.0	Maize	sub-tropics	C4/IV	0.207	1.0	0.25	3.0	0	5	40	50	50	50	40	5	0
137	MZ	NAM	3	2	11.0	4.0	180.0	6.0	Maize	sub-tropics	C4/IV	2.078	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
138	MZ	ZAF	4	2	11.0	5.0	210.0	6.0	Maize	sub-tropics	C4/IV	3.581	2.0	0.35	4.3	0	5	40	50	50	50	40	5	0
139	MZ	XSC	4	2	11.0	5.5	225.0	6.0	Maize	sub-tropics	C4/IV	0.643	1.0	0.25	3.0	0	5	40	50	50	50	40	5	0
140	MZ	XTW	2	1	9.5	0.5	120.0					0.000												

Table A-1-4. Data for crop model for soybeans.

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
1	SB	AUS	4	2	10.5	4.5	210.0	3.0	Soybeans	sub-tropics	C3/II	2.358	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
2	SB	NZL	5	2	10.5	4.5	210.0					0.000												
3	SB	XOC	2	2	10.5	4.5	210.0					0.000												
4	SB	CHN	4	1	5.0	9.0	120.0	2.0	Soybeans	sub-tropics	C3/II	1.608	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
5	SB	HKG	3	1	5.0	9.0	120.0					0.000												
6	SB	JPN	5	1	5.0	9.0	120.0	2.0	Soybeans	sub-tropics	C3/II	1.677	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
7	SB	KOR	5	1	5.0	9.0	120.0	2.0	Soybeans	sub-tropics	C3/II	1.665	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
8	SB	MNG	5	1	5.0	9.0	120.0					0.000												
9	SB	TWN	3	1	5.0	9.0	120.0					0.000												
10	SB	XEA	5	1	5.0	9.0	120.0	2.0	Soybeans	sub-tropics	C3/II	1.150	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
11	SB	BRN	1	1	5.0	8.0	90.0					0.000												
12	SB	KHM	2	1	5.0	8.0	90.0	1.0	Soybeans	tropics	C3/II	1.508	2.0	0.23	2.3	0	0	15	30	35	35	30	5	0
13	SB	IDN	1	2	11.5	3.5	150.0	3.0	Soybeans	tropics	C3/II	1.297	2.0	0.23	3.0	0	0	15	30	35	35	30	5	0
14	SB	LAO	3	1	5.0	8.0	90.0	1.0	Soybeans	tropics	C3/II	1.296	2.0	0.23	2.3	0	0	15	30	35	35	30	5	0
15	SB	MYS	1	1	5.0	8.0	90.0					0.000												
16	SB	PHL	2	1	5.0	8.0	90.0	1.0	Soybeans	tropics	C3/II	1.361	2.0	0.23	2.3	0	0	15	30	35	35	30	5	0
17	SB	SGP	1	1	5.0	8.0	90.0					0.000												
18	SB	THA	2	1	5.0	8.0	90.0	1.0	Soybeans	tropics	C3/II	1.584	2.0	0.23	2.3	0	0	15	30	35	35	30	5	0
19	SB	VNM	2	1	5.0	8.0	90.0	1.0	Soybeans	tropics	C3/II	1.421	2.0	0.23	2.3	0	0	15	30	35	35	30	5	0
20	SB	XSE	3	1	5.0	8.0	90.0	1.0	Soybeans	tropics	C3/II	1.303	2.0	0.23	2.3	0	0	15	30	35	35	30	5	0
21	SB	BGD	3	1	6.5	10.5	120.0	3.0	Soybeans	tropics	C3/II	1.496	2.0	0.23	3.0	0	0	15	30	35	35	30	5	0
22	SB	IND	3	1	6.5	10.5	120.0	3.0	Soybeans	tropics	C3/II	1.113	2.0	0.23	3.0	0	0	15	30	35	35	30	5	0
23	SB	NPL	4	1	6.5	10.5	120.0	2.0	Soybeans	sub-tropics	C3/II	0.900	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0
24	SB	PAK	4	1	6.5	10.5	120.0	2.0	Soybeans	sub-tropics	C3/II	0.767	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0
25	SB	LKA	2	1	6.5	10.5	120.0	3.0	Soybeans	tropics	C3/II	1.923	2.0	0.23	3.0	0	0	15	30	35	35	30	5	0
26	SB	XSA	4	1	6.5	10.5	120.0	2.0	Soybeans	sub-tropics	C3/II	0.846	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0
27	SB	CAN	5	1	5.5	10.0	135.0	3.0	Soybeans	sub-tropics	C3/II	2.659	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
28	SB	USA	5	1	5.5	10.5	150.0	3.0	Soybeans	sub-tropics	C3/II	2.787	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
29	SB	MEX	3	1	5.5	10.5	150.0	3.0	Soybeans	sub-tropics	C3/II	1.643	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
30	SB	XNA	4	1	5.5	10.5	150.0					0.000												
31	SB	ARG	4	2	11.5	4.5	180.0	3.0	Soybeans	sub-tropics	C3/II	2.824	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
32	SB	BOL	3	2	11.0	4.0	180.0	3.0	Soybeans	tropics	C3/II	1.657	2.0	0.23	3.0	0	0	15	30	35	35	30	5	0
33	SB	BRA	2	2	11.0	4.0	180.0	3.0	Soybeans	tropics	C3/II	2.670	3.0	0.30	4.0	0	0	15	30	35	35	30	5	0
34	SB	CHL	4	2	11.5	4.5	180.0	3.0	Soybeans	sub-tropics	C3/II	0.000				0	5	15	30	35	35	30	5	0
35	SB	COL	1	1	11.0	4.0	180.0	3.0	Soybeans	tropics	C3/II	2.052	3.0	0.30	4.0	0	0	15	30	35	35	30	5	0
36	SB	ECU	1	2	11.0	4.5	195.0	3.0	Soybeans	sub-tropics	C3/II	1.720	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
37	SB	PRY	3	2	11.0	4.5	195.0	3.0	Soybeans	sub-tropics	C3/II	2.263	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
38	SB	PER	2	2	11.0	4.0	180.0	3.0	Soybeans	sub-tropics	C3/II	1.606	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
39	SB	URY	4	2	11.5	4.5	180.0	3.0	Soybeans	sub-tropics	C3/II	2.106	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
40	SB	VEN	2	1	11.0	4.0	180.0	3.0	Soybeans	tropics	C3/II	1.697	2.0	0.23	3.0	0	0	15	30	35	35	30	5	0
41	SB	XSM	1	1	11.0	4.0	180.0	3.0	Soybeans	tropics	C3/II	0.952	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0
42	SB	CRI	2	1	5.5	10.5	150.0					0.000												
43	SB	GTM	2	1	5.5	10.5	150.0	3.0	Soybeans	tropics	C3/II	2.652	3.0	0.30	4.0	0	0	15	30	35	35	30	5	0
44	SB	HND	3	1	5.5	10.5	150.0	3.0	Soybeans	tropics	C3/II	2.215	3.0	0.30	4.0	0	0	15	30	35	35	30	5	0
45	SB	NIC	2	1	5.5	10.5	150.0	3.0	Soybeans	tropics	C3/II	2.065	3.0	0.30	4.0	0	0	15	30	35	35	30	5	0
46	SB	PAN	2	1	5.5	10.5	150.0	3.0	Soybeans	tropics	C3/II	0.363	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0

Table A-1-4. Data for crop model for soybeans (continued).

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
47	SB	SLV	3	1	5.5	10.5	150.0	3.0	Soybeans	tropics	C3/II	1.996	2.0	0.23	3.0	0	0	15	30	35	35	30	5	0
48	SB	XCA	3	1	5.5	10.5	150.0	3.0	Soybeans	tropics	C3/II	1.892	2.0	0.23	3.0	0	0	15	30	35	35	30	5	0
49	SB	DOM	2	1	5.5	10.5	150.0					0.000												
50	SB	JAM	2	1	5.5	10.5	150.0					0.000												
51	SB	PRI	2	1	5.5	10.5	150.0					0.000												
52	SB	TTO	2	1	11.0	4.0	180.0					0.000												
53	SB	XCB	3	1	5.5	10.5	150.0	3.0	Soybeans	tropics	C3/II	0.000				0	0	15	30	35	35	30	5	0
54	SB	AUT	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	2.686	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
55	SB	BEL	5	1	5.0	10.0	150.0					0.000												
56	SB	CYP	4	1	5.0	9.0	120.0					0.000												
57	SB	CZE	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	1.924	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
58	SB	DNK	5	1	5.0	10.0	150.0					0.000												
59	SB	EST	5	1	5.0	10.0	150.0					0.000												
60	SB	FIN	5	1	5.0	10.0	150.0					0.000												
61	SB	FRA	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	2.738	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
62	SB	DEU	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	1.000	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0
63	SB	GRC	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	2.000	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
64	SB	HUN	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	2.211	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
65	SB	IRL	5	1	5.0	10.0	150.0					0.000												
66	SB	ITA	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	3.148	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
67	SB	LVA	5	1	5.0	10.0	150.0					0.000												
68	SB	LTU	5	1	5.0	10.0	150.0					0.000												
69	SB	LUX	5	1	5.0	10.0	150.0					0.000												
70	SB	MLT	5	1	5.0	10.5	165.0					0.000												
71	SB	NLD	5	1	5.0	10.0	150.0					0.000												
72	SB	POL	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	1.416	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
73	SB	PRT	5	1	5.0	10.5	165.0					0.000												
74	SB	SVK	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	1.742	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
75	SB	SVN	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	2.630	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
76	SB	ESP	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	2.689	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
77	SB	SWE	5	1	5.0	10.0	150.0					0.000												
78	SB	GBR	5	1	5.0	10.0	150.0					0.000												
79	SB	CHE	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	2.705	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
80	SB	NOR	5	1	5.0	10.0	150.0					0.000												
81	SB	XEF	5	1	5.0	10.5	165.0					0.000												
82	SB	ALB	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	2.000	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
83	SB	BGR	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	1.165	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
84	SB	BLR	5	1	5.0	10.0	150.0					0.000												
85	SB	HRV	5	1	5.0	10.5	165.0	3.0	Soybeans	sub-tropics	C3/II	2.576	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
86	SB	ROU	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	1.717	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
87	SB	RUS	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	0.985	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0
88	SB	UKR	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	1.332	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
89	SB	XEE	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	1.376	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
90	SB	XER	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	2.395	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
91	SB	KAZ	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	1.692	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
92	SB	KGZ	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	0.859	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0
93	SB	XSU	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	0.082	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0

Table A-1-4. Data for crop model for soybeans (continued).

CNO	PID	CID	LAT	N-S	PM	HM	N	GC	CROPS	TYPE	ADAP.G.	YIELD07	INP	HI	LAI	Dependence of rate of leaf photosynthesis (pm) on temperature (°C)								
Country No.	Prod. code	Country code	Lati-tude	N:1 S:2	Plant month	Harvest month	Grow-ing day	N index	Crop	Type	Adapta-bility group	Yield in 2007	Input level	Har-vest index	Leaf area index	5	10	15	20	25	30	35	40	45
94	SB	ARM	5	1	5.0	10.0	150.0					0.000												
95	SB	AZE	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	0.464	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0
96	SB	GEO	5	1	5.0	10.0	150.0	3.0	Soybeans	sub-tropics	C3/II	2.638	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
97	SB	BHR	4	1	5.0	9.0	120.0					0.000												
98	SB	IRN	4	1	5.0	9.0	120.0	2.0	Soybeans	sub-tropics	C3/II	2.327	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
99	SB	ISR	4	1	5.0	9.0	120.0					0.000												
100	SB	KWT	4	1	5.0	9.0	120.0					0.000												
101	SB	JOR	4	1	5.0	9.0	120.0					0.000												
102	SB	OMN	3	1	5.0	9.0	120.0					0.000												
103	SB	QAT	3	1	5.0	9.0	120.0					0.000												
104	SB	SAU	3	1	5.0	9.0	120.0					0.000												
105	SB	TUR	5	1	5.0	9.0	120.0	2.0	Soybeans	sub-tropics	C3/II	3.718	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
106	SB	ARE	3	1	5.0	9.0	120.0					0.000												
107	SB	XWS	4	1	5.0	9.0	120.0	2.0	Soybeans	sub-tropics	C3/II	1.789	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
108	SB	EGY	4	1	5.0	9.0	120.0	2.0	Soybeans	sub-tropics	C3/II	3.243	3.0	0.30	4.0	0	5	15	30	35	35	30	5	0
109	SB	MAR	4	1	2.5	6.5	120.0	2.0	Soybeans	sub-tropics	C3/II	1.000	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0
110	SB	TUN	4	1	3.5	7.5	120.0					0.000												
111	SB	XNF	4	1	3.5	7.5	120.0					0.000												
112	SB	BEN	2	1	6.5	10.0	105.0	2.0	Soybeans	tropics	C3/II	0.678	1.0	0.15	1.8	0	0	15	30	35	35	30	5	0
113	SB	BFA	2	1	7.0	10.5	105.0	2.0	Soybeans	tropics	C3/II	1.665	2.0	0.23	2.7	0	0	15	30	35	35	30	5	0
114	SB	CMR	1	1	6.0	9.0	90.0	1.0	Soybeans	tropics	C3/II	0.609	1.0	0.15	1.5	0	0	15	30	35	35	30	5	0
115	SB	CIV	2	1	7.5	11.5	120.0	3.0	Soybeans	tropics	C3/II	1.016	2.0	0.23	3.0	0	0	15	30	35	35	30	5	0
116	SB	GHA	2	1	5.5	10.0	135.0					0.000												
117	SB	GIN	2	1	6.5	11.0	135.0					0.000												
118	SB	NGA	2	1	6.0	9.5	105.0	2.0	Soybeans	tropics	C3/II	0.947	1.0	0.15	1.8	0	0	15	30	35	35	30	5	0
119	SB	SEN	2	1	6.5	11.0	135.0					0.000												
120	SB	TGO	2	1	5.5	10.0	135.0	3.0	Soybeans	tropics	C3/II	0.420	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0
121	SB	XWF	2	1	6.5	11.0	135.0	3.0	Soybeans	tropics	C3/II	0.885	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0
122	SB	XCF	1	1	11.5	3.5	150.0	3.0	Soybeans	tropics	C3/II	0.687	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0
123	SB	XAC	1	1	3.5	6.5	90.0	1.0	Soybeans	tropics	C3/II	0.483	1.0	0.15	1.5	0	0	15	30	35	35	30	5	0
124	SB	ETH	2	1	3.0	6.0	90.0	1.0	Soybeans	tropics	C3/II	0.972	1.0	0.15	1.5	0	0	15	30	35	35	30	5	0
125	SB	KEN	1	1	3.0	7.0	120.0	3.0	Soybeans	tropics	C3/II	0.816	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0
126	SB	MDG	3	2	12.0	4.0	150.0	3.0	Soybeans	tropics	C3/II	0.473	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0
127	SB	MWI	2	2	11.5	4.0	165.0	3.0	Soybeans	tropics	C3/II	0.844	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0
128	SB	MUS	3	2	12.0	4.0	150.0					0.000												
129	SB	MOZ	3	2	12.0	4.0	150.0					0.000												
130	SB	RWA	1	2	3.5	8.0	135.0	3.0	Soybeans	tropics	C3/II	0.753	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0
131	SB	TZA	2	2	12.0	4.0	150.0	3.0	Soybeans	tropics	C3/II	0.376	1.0	0.15	2.0	0	0	15	30	35	35	30	5	0
132	SB	UGA	1	1	7.5	11.0	105.0	2.0	Soybeans	tropics	C3/II	1.202	2.0	0.23	2.7	0	0	15	30	35	35	30	5	0
133	SB	ZMB	3	2	0.5	3.5	90.0	1.0	Soybeans	sub-tropics	C3/II	1.233	2.0	0.23	2.7	0	5	15	30	35	35	30	5	0
134	SB	ZWE	3	2	11.5	4.0	165.0	3.0	Soybeans	sub-tropics	C3/II	1.574	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
135	SB	XEC	2	2	10.0	1.0	120.0	2.0	Soybeans	sub-tropics	C3/II	0.757	1.0	0.15	2.0	0	5	15	30	35	35	30	5	0
136	SB	BWA	3	2	11.5	4.0	165.0					0.000												
137	SB	NAM	3	2	11.5	4.0	165.0					0.000												
138	SB	ZAF	4	2	12.0	4.0	150.0	3.0	Soybeans	sub-tropics	C3/II	1.529	2.0	0.23	3.0	0	5	15	30	35	35	30	5	0
139	SB	XSC	4	2	12.0	4.0	150.0					0.000												
140	SB	XTW	2	1	10.0	1.0	120.0					0.000												

Note: Original data source: Fischer et al. (2002), Planting and harvest months in Africa are based on FAO's cropping calendar.

Table A-1-5. Maximum active incoming shortwave radiation and gross dry matter production.

Variable	Unit	LAT	Latitude	N-S	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
RSE	cal cm^{-2} day^{-1}	1	0	1	343	360	369	364	349	337	343	357	368	365	349	337
RSE	cal cm^{-2} day^{-1}	2	10	1	299	332	359	375	377	374	375	377	369	345	311	291
RSE	cal cm^{-2} day^{-1}	3	20	1	249	293	337	375	394	400	399	386	357	313	264	238
RSE	cal cm^{-2} day^{-1}	4	30	1	191	245	303	363	400	417	411	384	333	270	210	179
RSE	cal cm^{-2} day^{-1}	5	40	1	131	190	260	339	396	422	413	369	298	220	151	118
RSE	cal cm^{-2} day^{-1}	1	0	2	343	357	368	365	349	337	343	360	369	364	349	337
RSE	cal cm^{-2} day^{-1}	2	10	2	375	377	369	345	311	291	299	332	359	375	377	374
RSE	cal cm^{-2} day^{-1}	3	20	2	399	386	357	313	264	238	249	293	337	375	394	400
RSE	cal cm^{-2} day^{-1}	4	30	2	411	384	333	270	210	179	191	245	303	363	400	417
RSE	cal cm^{-2} day^{-1}	5	40	2	413	369	298	220	151	118	131	190	260	339	396	422
YC	kg ha^{-1} day^{-1}	1	0	1	413	424	429	426	417	410	413	422	429	427	418	410
YC	kg ha^{-1} day^{-1}	2	10	1	376	401	422	437	440	440	440	439	431	411	385	370
YC	kg ha^{-1} day^{-1}	3	20	1	334	371	407	439	460	468	465	451	425	387	348	325
YC	kg ha^{-1} day^{-1}	4	30	1	281	333	385	437	471	489	483	456	412	356	299	269
YC	kg ha^{-1} day^{-1}	5	40	1	219	283	353	427	480	506	497	455	390	314	241	204
YC	kg ha^{-1} day^{-1}	1	0	2	413	422	429	427	418	410	413	424	429	426	417	410
YC	kg ha^{-1} day^{-1}	2	10	2	440	439	431	411	385	370	376	401	422	437	440	440
YC	kg ha^{-1} day^{-1}	3	20	2	465	451	425	387	348	325	334	371	407	439	460	468
YC	kg ha^{-1} day^{-1}	4	30	2	483	456	412	356	299	269	281	333	385	437	471	489
YC	kg ha^{-1} day^{-1}	5	40	2	497	455	390	314	241	204	219	283	353	427	480	506
YO	kg ha^{-1} day^{-1}	1	0	1	219	226	230	228	221	216	218	225	230	228	222	216
YO	kg ha^{-1} day^{-1}	2	10	1	197	212	225	234	236	235	236	235	230	218	203	193
YO	kg ha^{-1} day^{-1}	3	20	1	170	193	215	235	246	250	249	242	226	203	178	164
YO	kg ha^{-1} day^{-1}	4	30	1	137	168	200	232	251	261	258	243	216	182	148	130
YO	kg ha^{-1} day^{-1}	5	40	1	99	137	178	223	253	268	263	239	200	155	112	91
YO	kg ha^{-1} day^{-1}	1	0	2	218	225	230	228	222	216	219	226	230	228	221	216
YO	kg ha^{-1} day^{-1}	2	10	2	236	235	230	218	203	193	197	212	225	234	236	235
YO	kg ha^{-1} day^{-1}	3	20	2	249	242	226	203	178	164	170	193	215	235	246	250
YO	kg ha^{-1} day^{-1}	4	30	2	258	243	216	182	148	130	137	168	200	232	251	261
YO	kg ha^{-1} day^{-1}	5	40	2	263	239	200	155	112	91	99	137	178	223	253	268

Note: RSE: Maximum active incoming shortwave radiation, YC: Gross dry matter production on clear days, YO: Gross dry matter production on overcast days
LAT: level of latitude, Latitude: for example, from 5 to 15 degrees are categorized to 10 degree.
N-S: 1: North hemisphere, 2: South hemisphere
Source: Doorenbos and Kassam (FAO) (1979)