

# 1 crop

## 1.1 Area reference

	BRA	CAZ	CHA	EUR	IND	LAM	MEA	NEU	OAS	REF	SSA	U
1	60.8609	100.7768	129.0832	129.9395	165.7251	92.8620	74.3130	34.0761	138.2514	213.1799	171.7172	18

Table 1: External cropland area information for calibration

## 1.2 Total factor

	BRA	CAZ	CHA	EUR	IND	LAM	MEA	NEU	OAS	REF	SSA	USA
1	0.7889	0.2876	0.7212	0.7837	1.0737	0.5624	1.0126	0.9175	0.5948	0.6128	0.4409	0.6607
2	1.0111	1.1119	1.0409	0.9699	0.9850	1.0793	1.0165	1.0716	1.1409	1.1012	1.1851	1.0706
3	0.9987	1.0472	0.9924	1.0151	1.0007	0.9487	0.9631	0.9679	0.9374	1.0366	1.0379	1.0122
4	1.0000	1.0247	1.0012	1.0017	0.9999	1.0275	1.0389	1.0160	1.0139	0.9906	0.9762	1.0035
5	1.0000	1.0097	0.9998	1.0003	1.0000	0.9703	0.9624	0.9924	0.9875	1.0012	1.0104	1.0001
6	1.0000	0.9977	1.0000	1.0000	1.0000	1.0350	1.0390	1.0037	1.0114	1.0009	1.0002	1.0000
7	1.0000	1.0005	1.0000	1.0000	1.0000	0.9663	0.9624	0.9983	0.9885	0.9984	1.0021	1.0000
8	1.0000	0.9999	1.0000	1.0000	1.0000	1.0348	1.0390	1.0008	1.0118	1.0018	0.9959	1.0000
9	1.0000	1.0000	1.0000	1.0000	1.0000	0.9663	0.9624	0.9996	0.9884	0.9985	0.9925	1.0000
10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0347	1.0389	1.0002	1.0117	1.0019	1.0063	1.0000
11	1.0000	1.0000	1.0000	1.0000	1.0000	0.9664	0.9625	1.0000	0.9885	0.9979	0.9942	1.0000
12	1.0000	1.0000	1.0007	1.0000	1.0000	1.0347	1.0389	1.0000	1.0118	1.0024	1.0080	1.0000
13	1.0000	1.0000	1.0048	1.0000	1.0000	0.9664	0.9625	1.0000	0.9883	0.9972	0.9906	1.0000
14	1.0000	1.0000	1.0040	1.0000	1.0000	1.0348	1.0389	1.0000	1.0109	1.0025	1.0102	1.0000
15	1.0000	1.0000	1.0030	1.0000	1.0000	0.9663	0.9625	1.0000	0.9891	0.9980	0.9882	1.0000
16	1.0000	1.0000	1.0017	1.0000	1.0000	1.0348	1.0389	1.0000	1.0112	1.0021	1.0172	1.0001
17	1.0000	1.0000	1.0010	1.0000	1.0000	0.9663	0.9624	1.0000	0.9889	0.9978	0.9894	1.0000
18	1.0000	1.0000	0.9988	1.0000	1.0000	1.0348	1.0390	1.0000	1.0112	1.0018	1.0067	1.0000
19	1.0000	1.0000	1.0002	1.0000	1.0000	0.9663	0.9624	1.0000	0.9890	0.9983	0.9958	1.0000
20	1.0000	1.0000	1.0009	1.0000	1.0000	1.0349	1.0389	1.0000	1.0111	1.0023	0.9951	1.0000

Table 2: Calibration factors calculated in each iteration

### 1.3 TC factor

	SSA	MEA	OAS	CHA	NEU	EUR	REF	LAM	BRA	USA	CAZ	IND
1	1.0000	1.3033	1.0000	1.0000	1.2098	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0348
2	1.0133	1.2921	1.1686	1.0000	1.1682	1.0000	1.0000	1.0200	1.0000	1.0091	1.0108	1.0000
3	1.0000	1.2811	1.1106	1.0000	1.1617	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.3036	1.1474	1.0000	1.1648	1.0000	1.0000	1.0162	1.0000	1.0059	1.0000	1.0000
5	1.0000	1.2802	1.1444	1.0000	1.1633	1.0000	1.0000	1.0142	1.0000	1.0025	1.0000	1.0000
6	1.0000	1.3037	1.1474	1.0000	1.1640	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000
7	1.0000	1.2802	1.1457	1.0000	1.1637	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
8	1.0000	1.3037	1.1474	1.0000	1.1638	1.0000	1.0000	1.0163	1.0000	1.0024	1.0000	1.0000
9	1.0000	1.2802	1.1455	1.0000	1.1637	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
10	1.0000	1.3036	1.1474	1.0000	1.1639	1.0000	1.0000	1.0163	1.0000	1.0024	1.0000	1.0000
11	1.0000	1.2803	1.1456	1.0000	1.1638	1.0000	1.0000	1.0102	1.0000	1.0024	1.0000	1.0000
12	1.0000	1.3036	1.1474	1.0000	1.1638	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000
13	1.0000	1.2803	1.1454	1.0000	1.1638	1.0000	1.0000	1.0102	1.0000	1.0024	1.0000	1.0000
14	1.0000	1.3036	1.1473	1.0000	1.1638	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000
15	1.0000	1.2803	1.1464	1.0000	1.1638	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
16	1.0000	1.3036	1.1472	1.0000	1.1637	1.0000	1.0000	1.0164	1.0000	1.0025	1.0000	1.0000
17	1.0000	1.2802	1.1462	1.0000	1.1638	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
18	1.0000	1.3037	1.1472	1.0066	1.1638	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000
19	1.0000	1.2802	1.1463	1.0058	1.1638	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
20	1.0000	1.3036	1.1472	1.0000	1.1638	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000

Table 3: Contribution of tc to calibration factors calculated in each iteration

## 1.4 Area factor

	BRA	CAZ	CHA	EUR	IND	LAM	MEA	NEU	OAS	REF	SSA	USA
1	0.7889	0.2876	0.7212	0.7837	1.0376	0.5624	0.7770	0.7584	0.5948	0.6128	0.4409	0.6607
2	1.0111	1.1000	1.0409	0.9699	0.9850	1.0582	0.7867	0.9173	0.9763	1.1012	1.1696	1.0610
3	0.9987	1.0472	0.9924	1.0151	1.0007	0.9487	0.7518	0.8332	0.8440	1.0366	1.0379	1.0122
4	1.0000	1.0247	1.0012	1.0017	0.9999	1.0111	0.7970	0.8722	0.8836	0.9906	0.9762	0.9976
5	1.0000	1.0097	0.9998	1.0003	1.0000	0.9567	0.7518	0.8531	0.8629	1.0012	1.0104	0.9976
6	1.0000	0.9977	1.0000	1.0000	1.0000	1.0183	0.7970	0.8623	0.8815	1.0009	1.0002	0.9976
7	1.0000	1.0005	1.0000	1.0000	1.0000	0.9566	0.7518	0.8578	0.8628	0.9984	1.0021	0.9976
8	1.0000	0.9999	1.0000	1.0000	1.0000	1.0182	0.7970	0.8599	0.8818	1.0018	0.9959	0.9976
9	1.0000	1.0000	1.0000	1.0000	1.0000	0.9567	0.7518	0.8590	0.8628	0.9985	0.9925	0.9976
10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0181	0.7970	0.8593	0.8817	1.0019	1.0063	0.9976
11	1.0000	1.0000	1.0000	1.0000	1.0000	0.9567	0.7518	0.8592	0.8628	0.9979	0.9942	0.9976
12	1.0000	1.0000	1.0007	1.0000	1.0000	1.0180	0.7970	0.8593	0.8819	1.0024	1.0080	0.9976
13	1.0000	1.0000	1.0048	1.0000	1.0000	0.9567	0.7518	0.8593	0.8628	0.9972	0.9906	0.9976
14	1.0000	1.0000	1.0040	1.0000	1.0000	1.0181	0.7970	0.8593	0.8812	1.0025	1.0102	0.9976
15	1.0000	1.0000	1.0030	1.0000	1.0000	0.9567	0.7518	0.8593	0.8628	0.9980	0.9882	0.9976
16	1.0000	1.0000	1.0017	1.0000	1.0000	1.0181	0.7970	0.8593	0.8815	1.0021	1.0172	0.9976
17	1.0000	1.0000	1.0010	1.0000	1.0000	0.9567	0.7518	0.8593	0.8627	0.9978	0.9894	0.9976
18	1.0000	1.0000	0.9923	1.0000	1.0000	1.0181	0.7970	0.8592	0.8814	1.0018	1.0067	0.9976
19	1.0000	1.0000	0.9945	1.0000	1.0000	0.9567	0.7518	0.8593	0.8628	0.9983	0.9958	0.9976
20	1.0000	1.0000	1.0009	1.0000	1.0000	1.0182	0.7970	0.8593	0.8813	1.0023	0.9951	0.9976

Table 4: Contribution of area to calibration factors calculated in each iteration

## 2 past

### 2.1 Area reference

	BRA	CAZ	CHA	EUR	IND	LAM	MEA	NEU	OAS	REF	SSA	
1	189.3671	390.6984	390.9978	70.1666	11.9004	349.8172	393.9642	20.8063	178.3776	343.0556	692.2032	2

Table 5: External cropland area information for calibration

## 2.2 Total factor

	BRA	CAZ	CHA	EUR	IND	LAM	MEA	NEU	OAS	REF	SSA	USA
1	1.0000	1.0000	0.9733	1.0000	4.8869	0.9887	1.3033	1.2430	0.9861	0.9916	0.9955	1.0000
2	0.9894	0.9841	0.9302	0.9658	1.3581	1.0026	1.2921	1.1682	1.1520	0.9218	0.9757	1.0012
3	0.9906	0.9863	0.9433	0.9912	1.1281	0.9830	1.2811	1.1280	1.0948	0.9567	0.9865	0.9958
4	0.9904	0.9921	0.9407	0.9978	1.0550	0.9989	1.3036	1.0782	1.1311	0.9605	0.9877	1.0059
5	0.9904	0.9943	0.9412	0.9995	1.0252	0.9969	1.2802	1.0985	1.1281	0.9605	0.9871	1.0025
6	0.9904	0.9946	0.9410	0.9999	1.0119	0.9991	1.3037	1.0197	1.1311	0.9596	0.9872	1.0024
7	0.9904	0.9946	0.9412	1.0000	1.0057	0.9929	1.2802	1.0172	1.1294	0.9608	0.9884	1.0024
8	0.9904	0.9946	0.9412	1.0000	1.0027	0.9990	1.3037	1.0110	1.1311	0.9595	0.9873	1.0024
9	0.9904	0.9946	0.9412	1.0000	1.0013	0.9929	1.2802	1.0039	1.1292	0.9608	0.9871	1.0024
10	0.9904	0.9946	0.9517	1.0000	1.0006	0.9990	1.3036	1.0235	1.1311	0.9595	0.9869	1.0024
11	0.9904	0.9946	0.9645	1.0000	1.0003	0.9930	1.2803	1.0162	1.1293	0.9608	0.9871	1.0024
12	0.9904	0.9946	0.9745	1.0000	1.0002	0.9991	1.3036	1.0153	1.1311	0.9595	0.9874	1.0024
13	0.9904	0.9946	0.9811	1.0000	1.0001	0.9924	1.2803	1.0285	1.1291	0.9609	0.9872	1.0024
14	0.9904	0.9946	0.9860	1.0000	1.0000	0.9991	1.3036	0.9852	1.1310	0.9595	0.9871	1.0024
15	0.9904	0.9946	0.9898	1.0000	1.0000	0.9929	1.2803	1.0218	1.1301	0.9608	0.9872	1.0024
16	0.9904	0.9946	0.9925	1.0000	1.0000	0.9991	1.3036	1.0070	1.1309	0.9595	0.9877	1.0025
17	0.9904	0.9946	0.9946	1.0000	1.0000	0.9929	1.2802	1.0162	1.1299	0.9608	0.9874	1.0024
18	0.9904	0.9946	1.0008	1.0000	1.0000	0.9991	1.3037	1.0162	1.1309	0.9595	0.9878	1.0024
19	0.9904	0.9946	1.0000	1.0000	1.0000	0.9929	1.2802	1.0162	1.1300	0.9608	0.9872	1.0024
20	0.9904	0.9946	0.9960	1.0000	1.0000	0.9991	1.3036	1.0162	1.1309	0.9595	0.9871	1.0024

Table 6: Calibration factors calculated in each iteration

### 2.3 TC factor

	SSA	MEA	OAS	CHA	NEU	EUR	REF	LAM	BRA	USA	CAZ	IND
1	1.0000	1.3033	1.0000	1.0000	1.2098	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0348
2	1.0133	1.2921	1.1686	1.0000	1.1682	1.0000	1.0000	1.0200	1.0000	1.0091	1.0108	1.0000
3	1.0000	1.2811	1.1106	1.0000	1.1617	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.3036	1.1474	1.0000	1.1648	1.0000	1.0000	1.0162	1.0000	1.0059	1.0000	1.0000
5	1.0000	1.2802	1.1444	1.0000	1.1633	1.0000	1.0000	1.0142	1.0000	1.0025	1.0000	1.0000
6	1.0000	1.3037	1.1474	1.0000	1.1640	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000
7	1.0000	1.2802	1.1457	1.0000	1.1637	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
8	1.0000	1.3037	1.1474	1.0000	1.1638	1.0000	1.0000	1.0163	1.0000	1.0024	1.0000	1.0000
9	1.0000	1.2802	1.1455	1.0000	1.1637	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
10	1.0000	1.3036	1.1474	1.0000	1.1639	1.0000	1.0000	1.0163	1.0000	1.0024	1.0000	1.0000
11	1.0000	1.2803	1.1456	1.0000	1.1638	1.0000	1.0000	1.0102	1.0000	1.0024	1.0000	1.0000
12	1.0000	1.3036	1.1474	1.0000	1.1638	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000
13	1.0000	1.2803	1.1454	1.0000	1.1638	1.0000	1.0000	1.0102	1.0000	1.0024	1.0000	1.0000
14	1.0000	1.3036	1.1473	1.0000	1.1638	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000
15	1.0000	1.2803	1.1464	1.0000	1.1638	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
16	1.0000	1.3036	1.1472	1.0000	1.1637	1.0000	1.0000	1.0164	1.0000	1.0025	1.0000	1.0000
17	1.0000	1.2802	1.1462	1.0000	1.1638	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
18	1.0000	1.3037	1.1472	1.0066	1.1638	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000
19	1.0000	1.2802	1.1463	1.0058	1.1638	1.0000	1.0000	1.0101	1.0000	1.0024	1.0000	1.0000
20	1.0000	1.3036	1.1472	1.0000	1.1638	1.0000	1.0000	1.0164	1.0000	1.0024	1.0000	1.0000

Table 7: Contribution of tc to calibration factors calculated in each iteration

## 2.4 Area factor

	BRA	CAZ	CHA	EUR	IND	LAM	MEA	NEU	OAS	REF	SSA	USA
1	1.0000	1.0000	0.9733	1.0000	4.7225	0.9887	1.0000	1.0275	0.9861	0.9916	0.9955	1.0000
2	0.9894	0.9736	0.9302	0.9658	1.3581	0.9830	1.0000	1.0000	0.9858	0.9218	0.9629	0.9921
3	0.9906	0.9863	0.9433	0.9912	1.1281	0.9830	1.0000	0.9710	0.9858	0.9567	0.9865	0.9958
4	0.9904	0.9921	0.9407	0.9978	1.0550	0.9830	1.0000	0.9257	0.9858	0.9605	0.9877	1.0000
5	0.9904	0.9943	0.9412	0.9995	1.0252	0.9830	1.0000	0.9443	0.9858	0.9605	0.9871	1.0000
6	0.9904	0.9946	0.9410	0.9999	1.0119	0.9830	1.0000	0.8760	0.9858	0.9596	0.9872	1.0000
7	0.9904	0.9946	0.9412	1.0000	1.0057	0.9830	1.0000	0.8741	0.9858	0.9608	0.9884	1.0000
8	0.9904	0.9946	0.9412	1.0000	1.0027	0.9830	1.0000	0.8687	0.9858	0.9595	0.9873	1.0000
9	0.9904	0.9946	0.9412	1.0000	1.0013	0.9830	1.0000	0.8627	0.9858	0.9608	0.9871	1.0000
10	0.9904	0.9946	0.9517	1.0000	1.0006	0.9830	1.0000	0.8794	0.9858	0.9595	0.9869	1.0000
11	0.9904	0.9946	0.9645	1.0000	1.0003	0.9830	1.0000	0.8732	0.9858	0.9608	0.9871	1.0000
12	0.9904	0.9946	0.9745	1.0000	1.0002	0.9830	1.0000	0.8724	0.9858	0.9595	0.9874	1.0000
13	0.9904	0.9946	0.9811	1.0000	1.0001	0.9824	1.0000	0.8837	0.9858	0.9609	0.9872	1.0000
14	0.9904	0.9946	0.9860	1.0000	1.0000	0.9830	1.0000	0.8466	0.9858	0.9595	0.9871	1.0000
15	0.9904	0.9946	0.9898	1.0000	1.0000	0.9829	1.0000	0.8780	0.9858	0.9608	0.9872	1.0000
16	0.9904	0.9946	0.9925	1.0000	1.0000	0.9830	1.0000	0.8654	0.9858	0.9595	0.9877	1.0000
17	0.9904	0.9946	0.9946	1.0000	1.0000	0.9830	1.0000	0.8732	0.9858	0.9608	0.9874	1.0000
18	0.9904	0.9946	0.9942	1.0000	1.0000	0.9830	1.0000	0.8732	0.9858	0.9595	0.9878	1.0000
19	0.9904	0.9946	0.9942	1.0000	1.0000	0.9830	1.0000	0.8732	0.9858	0.9608	0.9872	1.0000
20	0.9904	0.9946	0.9960	1.0000	1.0000	0.9830	1.0000	0.8732	0.9858	0.9595	0.9871	1.0000

Table 8: Contribution of area to calibration factors calculated in each iteration