

Annex A. Agroclimatic indicators and BIOMSS

Table A.1. January-April 2017 agroclimatic indicators and biomass by global Monitoring and Reporting Unit

65 Global MRUs	RAIN		TEMP		RADPAR		BIOMSS		
	Current (mm)	15YA dep. (%)	Current (°C)	15YA dep. (°C)	Current (MJ/m ²)	15YA dep. (%)	Current (gDM/m ²)	15YA dep. (%)	
1	Equatorial central Africa	512	-1	25.8	-0.1	1196	5	1518	-1
2	East African highlands	165	-27	20.7	-0.3	1332	4	630	-18
3	Gulf of Guinea	201	5	28.8	-0.3	1217	0	631	-1
4	Horn of Africa	253	-30	24.7	-0.7	1314	4	821	-22
5	Madagascar (main)	978	-3	24.8	-0.5	1125	4	1924	-1
6	Southwest Madagascar	427	-16	25.6	-0.5	1225	2	1263	-5
7	North Africa-Mediterranean	126	-20	12.3	0.1	981	2	449	-17
8	Sahel	25	-4	29.4	-0.7	1364	0	84	-4
9	Southern Africa	557	12	23.4	-1.2	1138	-3	1434	8
10	Western Cape (South Africa)	78	-30	19.6	0.1	1296	1	349	-22
11	British Columbia to Colorado	284	38	-3.3	-0.3	737	-6	508	8
12	Northern Great Plains	233	37	1.6	1.7	733	-8	669	20
13	Corn Belt	433	25	2.8	2.3	663	-9	829	17
14	Cotton Belt to Mexican Nordeste	426	15	14.4	2.2	870	-3	1145	11
15	Sub-boreal America	158	21	-7.5	1.6	575	-4	373	8
16	West Coast (North America)	406	43	6.5	-0.5	715	-12	866	22
17	Sierra Madre	62	-12	16.3	0.2	1284	2	260	-8
18	SW U.S. and N. Mex.highlands	133	71	10.0	0.9	1046	-3	449	32
19	Northern S. and Central America	270	10	26.3	-0.4	1124	4	681	1
20	Caribbean	243	26	23.9	-0.8	1056	-3	673	6
21	Central-northern Andes	781	26	16.6	-0.2	1042	1	1474	10
22	Nordeste (Brazil)	328	-30	28.3	0.9	1203	-1	1001	-21
23	Central eastern Brazil	734	-4	26.0	-0.5	1131	2	1781	-3
24	Amazon	1345	23	26.9	-0.8	949	-1	2409	7
25	Central-north Argentina	679	44	24.6	-0.7	1098	2	1676	23
26	Pampas	768	34	23.0	-0.5	1121	-2	1745	15
27	Western Patagonia	84	-39	14.1	0.1	1116	-4	384	-18
28	Semi-arid Southern Cone	189	21	18.7	-0.1	1206	2	618	20
29	Caucasus	200	-28	2.1	-0.7	838	3	650	-14
30	Pamir area	236	-3	2.6	-0.6	952	-2	619	-3
31	Western Asia	168	4	6.9	-0.4	903	-1	561	0
32	Gansu-Xinjiang (China)	83	78	-1.6	0.2	858	-5	352	85
33	Hainan (China)	206	52	21.7	-0.2	865	-5	716	55
34	Huanghuaihai (China)	108	15	7.6	0.9	872	-3	463	19
35	Inner Mongolia (China)	77	60	-2.7	1.5	865	0	336	48
36	Loess region (China)	76	23	3.5	0.4	883	-5	333	16
37	Lower Yangtze (China)	349	-21	11.5	0.4	724	-7	1101	-6
38	Northeast China	78	-1	-4.8	1.9	792	1	349	9
39	Qinghai-Tibet (China)	164	-5	2.3	0.2	1047	-1	408	-2
40	Southern China	219	-7	16.4	0.0	790	-8	766	7
41	Southwest China	134	-17	10.1	-0.1	675	-13	539	-6
42	Taiwan (China)	215	9	17.0	-0.4	894	1	840	21
43	East Asia	103	-43	-1.0	1.0	799	1	411	-18
44	Southern Himalayas	158	-6	19.7	0.2	1061	-2	435	-14

		RAIN		TEMP		RADPAR		BIOMSS	
		Current (mm)	15YA dep. (%)	Current (°C)	15YA dep. (°C)	Current (MJ/m ²)	15YA dep. (%)	Current (gDM/m ²)	5YA dep. (%)
65 Global MRUs									
45	Southern Asia	93	-9	26.6	0.0	1260	2	240	-28
46	Southern Japan and Korea	283	-27	6.9	-0.1	816	0	927	-11
47	Southern Mongolia	109	309	-6.3	2.1	816	-4	427	209
48	Punjab to Gujarat	43	-19	23.3	0.0	1192	1	189	-12
49	Maritime Southeast Asia	1212	13	25.4	-0.7	951	-5	2237	5
50	Mainland Southeast Asia	228	49	26.3	-0.5	1139	-2	633	18
51	Eastern Siberia	122	-2	-8.7	2.3	596	-3	332	11
52	Eastern Central Asia	47	-4	-11.7	2.3	703	1	226	8
53	Northern Australia	941	15	26.5	-0.7	1056	-4	1783	6
54	Queensland to Victoria	242	7	21.8	0.3	1208	-1	765	5
55	Nullarbor to Darling	119	19	20.3	-1.3	1254	-4	488	16
56	New Zealand	242	-8	14.7	-0.3	962	-7	881	-1
57	Boreal Eurasia	224	17	-3.9	1.0	414	-3	466	4
58	Ukraine to Ural mountains	194	17	-1.3	0.7	468	-7	630	4
59	Med. Europe and Turkey	170	-34	7.8	0.0	823	3	618	-26
60	W. Europe (non Mediterranean)	207	-10	4.7	-0.3	563	-3	777	-6
61	Boreal America	171	-27	-9.4	-0.5	498	3	302	-4
62	Ural to Altai mountains	105	-4	-7.0	1.0	602	0	420	5
63	Australian desert	134	39	22.1	-0.8	1268	-3	558	36
64	Sahara to Afghan deserts	113	44	17.7	-0.5	1138	-3	355	27
65	Sub-arctic America	101	128	-20.0	3.9	205	2	67	140

Table A.2. January-April 2017 agroclimatic indicators and biomass by country

31 Countries	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Argentina	696	40	22.3	-0.6	1124	-1	1587	19
Australia	296	14	22.1	0.0	1208	-2	762	7
Bangladesh	367	76	22.9	-1.1	1050	-5	900	48
Brazil	903	6	26.0	-0.4	1079	1	1861	-2
Cambodia	208	30	28.0	-1.0	1180	0	744	26
Canada	230	17	-5.6	1.4	597	-6	425	11
China	186	-13	7.8	0.5	775	-6	556	5
Egypt	46	-18	15.4	-0.9	1055	-1	221	27
Ethiopia	171	-9	21.2	-0.4	1317	4	642	-5
France	149	-36	6.6	-0.8	622	0	586	-31
Germany	202	-4	4.1	-0.2	493	-5	866	2
India	86	-16	24.5	0.2	1215	1	226	-28
Indonesia	1236	7	25.5	-0.7	940	-4	2326	2
Iran	185	-9	6.9	-0.6	975	-2	612	-7
Kazakhstan	111	-2	-5.7	0.4	662	-1	450	2
Mexico	80	-9	20.3	0.4	1220	3	299	-3
Myanmar	96	5	24.0	-0.2	1159	-3	368	5
Nigeria	147	-1	29.0	-0.4	1292	0	361	-10
Pakistan	142	-15	16.0	-0.1	1066	-1	382	-8
Philippines	880	69	25.2	-0.9	1014	-5	1527	33
Poland	213	23	2.2	-0.2	437	-13	817	6
Romania	267	33	2.8	-0.4	640	1	822	12

31 Countries	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Russian F.	152	6	-4.5	1.2	529	-3	479	5
South Africa	284	-11	20.2	-0.7	1188	-2	975	-7
Thailand	302	61	26.6	-0.7	1144	-1	681	9
Turkey	239	-22	3.6	-0.5	860	3	753	-11
Ukraine	211	20	1.9	0.3	544	-3	784	10
United Kingdom	279	-1	6.2	-0.2	420	-9	966	-1
United States	368	25	7.1	1.8	782	-6	835	17
Uzbekistan	248	21	4.9	-1.2	813	0	727	11
Vietnam	186	14	22.6	-0.1	892	-8	668	17

See note table A.1.

Table A.3. Argentina, January-April 2017 agroclimatic indicators and biomass (by province)

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Buenos Aires	532	22	20.4	-0.1	1132	-4	1475	15
Chaco	1010	70	24.8	-1.2	1130	-2	2054	34
Cordoba	493	7	21.8	-0.4	1159	1	1438	2
Corrientes	1155	81	24.2	-1.2	1123	-4	2121	33
Entre Rios	789	28	22.6	-0.8	1132	-3	1686	11
La Pampa	652	73	21.1	-0.2	1192	-2	1594	35
Misiones	1106	58	24.2	-0.8	1107	-1	2078	21
Santiago Del Estero	668	45	24.6	-0.7	1092	0	1681	23
San Luis	500	24	20.9	-0.4	1202	3	1569	20
Salta	757	41	23.4	-0.5	1056	4	1684	19
Santa Fe	750	32	23.2	-0.7	1132	-3	1747	15
Tucuman	566	13	22.9	-0.4	1075	7	1607	14

See note table A.1.

Table A.4. Australia, January-April 2017 agroclimatic indicators and biomass (by state)

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
New South Wales	212	-6	22.5	0.4	1226	-1	701	-5
South Australia	149	47	20.1	0.0	1207	-4	608	38
Victoria	173	1	19.0	0.2	1170	-3	735	13
W. Australia	172	29	20.9	-1.3	1249	-4	541	18

See note table A.1.

Table A.5. Brazil, January-April 2017 agroclimatic indicators and biomass (by state)

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Ceara	556	-15	28.0	0.2	1099	-5	1549	-6
Goiás	694	-18	25.4	-0.5	1205	6	1866	-8
Mato Grosso Do Sul	756	9	26.2	-1.3	1163	2	2037	12
Mato Grosso	1112	7	26.7	-0.7	1069	3	2376	5
Minas Gerais	444	-32	24.9	0.1	1196	4	1267	-22
Parana	643	-4	23.6	-0.5	1099	2	1856	4
Rio Grande Do Sul	951	57	23.5	-0.2	1090	-3	1959	19
Santa Catarina	616	-13	22.5	0.4	1022	-3	1671	-9
Sao Paulo	736	-2	24.6	-0.5	1125	3	1876	-1

See note table A.1.

Table A.6. Canada, January-April 2017 agroclimatic indicators and biomass (by province)

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Alberta	125	13	-5.8	0.6	573	-6	437	7
Manitoba	117	10	-6.9	2.4	650	-3	405	14
Saskatchewan	104	3	-6.6	1.9	623	-4	412	11

See note table A.1.

Table A.7. India, January-April 2017 agroclimatic indicators and biomass (by state)

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Arunachal Pradesh	478	-12	15.4	0.1	849	-4	1162	-2
Andhra Pradesh	33	-41	28.1	-0.2	1285	2	146	-34
Assam	503	31	22.3	0.3	918	-4	1159	16
Bihar	38	-47	23.5	-0.6	1148	-2	174	-45
Chhattisgarh	15	-81	25.9	0.2	1268	5	77	-77
Daman and Diu	7	36	25.5	-0.7	1314	1	35	35
Delhi	82	-7	22.1	0.3	1144	1	303	-20
Gujarat	7	8	26.3	0.2	1291	1	43	19
Goa	1	-95	25.9	0.2	1344	2	8	-93
Himachal Pradesh	271	4	5.3	0.8	1055	-3	553	-12
Haryana	130	21	20.8	0.1	1121	1	416	-2
Jharkhand	36	-54	24.2	0.2	1208	1	159	-54
Kerala	242	1	26.7	-0.3	1223	-3	692	-6
Karnataka	47	-39	26.8	-0.1	1338	3	185	-35
Meghalaya	687	43	19.4	0.7	973	-6	1225	27
Maharashtra	5	-86	27.1	0.4	1326	5	26	-85
Manipur	317	18	17.2	-0.1	1040	-4	904	24
Madhya Pradesh	21	-63	24.9	0.4	1254	3	97	-58
Mizoram	295	21	19.0	-0.8	1089	-4	902	34
Nagaland	355	13	16.8	0.7	953	-4	1030	9
Orissa	31	-65	26.3	0.2	1247	4	148	-60
Puducherry	77	729	27.9	-0.3	1258	0	277	407

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Punjab	149	-1	19.2	0.3	1055	0	491	-12
Rajasthan	27	-8	23.5	-0.2	1211	1	123	-11
Sikkim	252	17	5.9	0.5	1095	-1	540	3
Tamil Nadu	121	12	28.0	-0.3	1265	-1	417	10
Tripura	484	61	22.3	-0.8	1018	-5	1121	48
Uttarakhand	178	-16	11.7	1.9	1092	-2	510	-14
Uttar Pradesh	40	-52	23.3	0.5	1174	1	173	-51
West Bengal	107	-17	24.6	0.0	1127	-2	405	-16

See note table A.1.

Table A.8. Kazakhstan, January-April 2017 agroclimatic indicators and biomass (by Oblast)

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Akmolinskaya	84	-6	-7.6	0.8	622	0	400	1
Karagandinskaya	107	12	-7.5	0.2	677	-2	427	3
Kustanayskaya	104	1	-7.2	0.3	613	3	443	2
Pavlodarskaya	73	6	-7.0	1.1	617	-1	392	13
Severo kazachstanskaya	91	-3	-7.5	1.0	585	3	404	3
Vostochno kazachstanskaya	109	-11	-8.2	0.9	711	-2	363	-1
Zapadno kazachstanskaya	124	-1	-3.5	0.1	597	-1	578	5

See note table A.1.

Table A.9. Russia, January-April 2017 agroclimatic indicators and biomass (by Oblast, Kray and Republic)

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Bashkortostan Rep.	175	13	-6.4	0.3	520	-1	431	-2
Chelyabinskaya Oblast	99	-11	-6.4	0.8	554	3	441	5
Gorodovikovsk	331	27	3.3	0.2	609	0	916	9
Krasnodarskiy Kray	133	-33	-1.7	1.6	599	2	512	-4
Kurganskaya Oblast	94	-3	-7.2	0.5	560	6	439	6
Kirovskaya Oblast	217	31	-5.5	0.5	399	-8	451	-1
Kurskaya Oblast	133	-21	0.1	1.0	524	-2	669	0
Lipetskaya Oblast	164	-3	-0.8	1.3	501	-6	671	9
Mordoviya Rep.	191	19	-2.6	1.3	490	-1	576	5
Novosibirskaya Oblast	108	8	-8.0	1.7	534	-2	412	13
Nizhegorodskaya Oblast	190	19	-3.1	0.9	431	-6	557	4
Orenburgskaya Oblast	143	0	-5.8	0.0	583	0	471	-3
Omskaya Oblast	102	4	-8.1	1.3	532	0	411	10

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Permskaya Oblast	180	14	-7.0	0.3	425	-4	410	-1
Penzenskaya Oblast	189	16	-2.6	1.3	502	-5	577	4
Rostovskaya Oblast	178	-15	1.9	0.6	576	-2	711	-3
Ryazanskaya Oblast	183	9	-1.6	1.4	454	-7	624	7
Stavropolskiy Kray	210	7	3.4	0.1	642	1	792	4
Sverdlovskaya Oblast	99	-14	-6.8	0.7	488	4	438	6
Samarskaya Oblast	183	26	-4.5	0.5	532	-3	508	-2
Saratovskaya Oblast	174	17	-2.3	1.0	544	-6	604	4
Tambovskaya Oblast	186	10	-1.5	1.4	504	-6	639	7
Tyumenskaya Oblast	101	3	-7.9	0.8	526	3	424	8
Tatarstan Rep.	172	19	-4.9	0.5	487	-4	480	-2
Ulyanovskaya Oblast	172	21	-3.7	1.1	507	-4	532	2
Udmurtiya Rep.	193	25	-5.9	0.4	428	-6	438	-2
Volgogradskaya Oblast	197	21	0.0	0.8	557	-5	726	9
Voronezhskaya Oblast	181	10	-0.1	1.3	514	-7	722	12

See note table A.1.

Table A.10. United States, January-April 2017 agroclimatic indicators and biomass (by state)

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Arkansas	622	28	12.7	2.5	783	-7	1542	17
California	389	76	8.0	-0.1	834	-10	827	37
Idaho	321	76	-2.0	-0.8	729	-9	619	14
Indiana	481	24	6.8	3.0	694	-10	1151	22
Illinois	419	21	6.5	2.9	688	-12	1080	17
Iowa	313	23	2.9	2.3	668	-16	881	17
Kansas	322	67	7.2	1.8	820	-7	801	17
Michigan	364	23	1.0	2.3	599	-15	737	20
Minnesota	242	38	-1.9	2.1	673	-8	617	17
Missouri	633	71	8.6	2.7	725	-10	1243	19
Montana	215	74	-2.0	-0.3	723	-5	632	32
Nebraska	205	28	3.6	1.5	781	-8	710	12
North Dakota	152	29	-3.6	1.2	717	-4	545	27
Ohio	494	38	6.3	3.2	682	-8	1121	24
Oklahoma	420	48	11.1	1.7	845	-6	1050	19
Oregon	373	42	2.5	-1.4	621	-13	807	13
South Dakota	214	49	0.6	1.4	759	-5	736	31
Texas	318	35	15.8	2.0	933	-2	873	23
Washington	368	43	1.2	-1.9	577	-11	769	15
Wisconsin	388	48	-0.2	2.1	632	-12	695	14

See note table A.1.

Table A.11. China, January-April 2017 agroclimatic indicators and biomass (by province)

	RAIN		TEMP		RADPAR		BIOMSS	
	Current (mm)	15YA Departure (%)	Current (°C)	15YA Departure (°C)	Current (MJ/m ²)	15YA Departure (%)	Current (gDM/m ²)	5YA Departure (%)
Anhui	251	-27	10.0	0.5	813	-3	913	-9
Chongqing	126	-37	9.4	-0.1	544	-17	519	-29
Fujian	358	-24	13.0	0.3	754	-6	1150	-4
Gansu	64	18	2.1	0.2	908	-5	278	21
Guangdong	355	0	16.5	0.1	727	-6	1092	15
Guangxi	249	-16	15.8	0.3	616	-12	840	-3
Guizhou	137	-30	10.7	0.2	528	-23	562	-18
Hebei	78	59	3.0	1.1	877	-2	347	45
Heilongjiang	68	-7	-6.5	2.2	753	0	329	7
Henan	126	-3	8.7	0.6	833	-6	525	1
Hubei	256	-11	9.5	0.3	713	-9	880	-2
Hunan	358	-18	10.9	0.1	613	-13	1147	-6
Jiangsu	151	-26	9.1	0.8	857	-1	640	-16
Jiangxi	419	-26	12.3	0.5	713	-7	1265	-8
Jilin	91	9	-3.8	1.6	827	2	400	18
Liaoning	103	13	0.3	1.5	871	2	439	16
Inner Mongolia	71	50	-4.8	1.9	830	0	314	47
Ningxia	34	8	1.8	0.5	933	-3	169	7
Shaanxi	94	18	5.1	0.2	803	-7	380	11
Shandong	117	45	7.1	1.0	880	-3	517	41
Shanxi	77	32	2.0	0.8	890	-4	351	23
Sichuan	107	-1	8.9	-0.2	746	-9	441	0
Yunnan	108	-10	12.9	-0.5	945	-8	467	4
Zhejiang	329	-28	10.5	0.6	768	-3	1119	-7

See note table A.1.