

Annex A. Agroclimatic indicators

Table A.1 Apr 2021 - Jul 2021 agroclimatic indicators and biomass by global Monitoring and Reporting Unit (MRU)

65 Global MRUs		RAIN Current (mm)	RAIN 15YA dep. (%)	TEMP Current (°C)	TEMP 15YA dep. (°C)	RADPAR Current(MJ/m ²)	RADPAR 15YA dep. (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA dep. (%)
C01	Equatorial central Africa	496	-20	22.3	-0.1	1183	3	559	-4
C02	East African highlands	727	-5	18.5	-0.4	1177	-1	504	-9
C03	Gulf of Guinea	392	-36	27.7	0.7	1250	5	759	0
C04	Horn of Africa	314	1	20.2	-0.3	1179	1	547	-5
C05	Madagascar (main)	290	18	19.4	-0.2	942	0	456	0
C06	Southwest Madagascar	34	-51	21.2	0.1	995	2	404	-6
C07	North Africa-Mediterranean	123	26	21.3	0.5	1532	-2	610	-3
C08	Sahel	307	3	29.9	-0.2	1312	0	618	-7
C09	Southern Africa	87	-24	17.1	-0.4	1034	3	318	-9
C10	Western Cape (South Africa)	256	14	13.2	0.0	696	2	243	-2
C11	British Columbia to Colorado	286	-12	11.1	1.1	1442	4	491	0
C12	Northern Great Plains	375	3	16.9	0.1	1353	1	644	5
C13	Corn Belt	452	3	15.6	-0.2	1243	0	534	0
C14	Cotton Belt to Mexican Nordeste	618	44	22.0	-1.2	1373	-2	801	-2
C15	Sub-boreal America	304	-16	10.8	0.5	1191	2	418	-3
C16	West Coast (North America)	85	-55	16.4	1.2	1574	6	503	-23
C17	Sierra Madre	807	12	20.5	-0.2	1452	-1	632	0
C18	SW U.S. and N. Mexican highlands	214	17	20.6	0.6	1583	0	688	10
C19	Northern South and Central America	1105	2	24.1	-0.3	1241	0	757	1
C20	Caribbean	550	-5	25.7	-0.1	1453	3	966	4
C21	Central-northern Andes	529	-8	13.7	-0.2	1057	1	318	-3
C22	Nordeste (Brazil)	130	-44	24.4	0.7	1102	5	593	-6
C23	Central eastern Brazil	133	-55	21.9	0.8	1023	6	418	-12
C24	Amazon	561	-14	24.0	0.2	1091	3	585	-2
C25	Central-north Argentina	170	-5	15.7	0.1	758	4	288	2

C26	Pampas	282	-29	14.5	-0.2	701	10	258	6
C27	Western Patagonia	556	-29	7.7	0.4	497	6	118	7
C28	Semi-arid Southern Cone	93	-20	10.5	0.4	725	2	177	5
C29	Caucasus	254	-17	17.2	1.0	1497	2	526	-1
C30	Pamir area	337	-1	16.8	-0.3	1583	2	538	1
C31	Western Asia	117	14	23.5	0.9	1568	1	487	-3
C32	Gansu-Xinjiang (China)	266	7	16.0	-0.3	1440	0	646	1
C33	Hainan (China)	746	-17	27.2	0.7	1385	6	924	5
C34	Huanghuaihai (China)	493	50	21.8	-0.3	1269	-4	708	8
C35	Inner Mongolia (China)	282	32	15.9	-0.3	1344	-3	580	10
C36	Loess region (China)	299	7	17.1	-0.1	1345	-1	618	2
C37	Lower Yangtze (China)	1128	0	22.2	0.3	1086	0	653	3
C38	Northeast China	425	30	15.6	0.1	1274	1	551	2
C39	Qinghai-Tibet (China)	957	-14	10.2	-0.1	1178	0	333	-1
C40	Southern China	1178	-12	23.3	0.7	1217	9	742	12
C41	Southwest China	893	1	18.5	0.0	1033	-4	524	-1
C42	Taiwan (China)	793	-18	26.3	1.0	1320	5	785	-1
C43	East Asia	552	3	14.8	0.5	1227	3	507	8
C44	Southern Himalayas	904	-13	26.2	-0.2	1247	0	664	-2
C45	Southern Asia	812	3	28.9	-0.6	1224	-1	712	3
C46	Southern Japan and the southern fringe of the Korea peninsula	872	2	18.3	0.6	1201	2	578	4
C47	Southern Mongolia	180	-11	7.7	-0.3	1510	2	446	6
C48	Punjab to Gujarat	443	18	31.9	-0.5	1372	-4	756	19
C49	Maritime Southeast Asia	1107	-10	24.6	0.2	1170	6	767	6
C50	Mainland Southeast Asia	1223	6	26.7	0.0	1245	4	828	6
C51	Eastern Siberia	326	1	9.9	0.0	1145	2	399	8
C52	Eastern Central Asia	369	40	9.8	-1.0	1229	-5	391	-9
C53	Northern Australia	344	-11	23.9	0.5	1114	5	587	1
C54	Queensland to Victoria	226	16	12.3	-0.2	650	1	219	0
C55	Nullarbor to Darling	366	67	14.2	0.2	588	-6	242	2
C56	New Zealand	337	-11	9.5	0.6	453	4	132	8
C57	Boreal Eurasia	344	3	10.0	0.2	1109	3	369	9
C58	Ukraine to Ural mountains	345	12	14.7	0.7	1163	0	525	10

C59	Mediterranean Europe and Turkey	175	-18	16.9	-0.2	1464	0	579	-2
C60	W. Europe (non Mediterranean)	389	8	13.7	-0.8	1222	0	486	-2
C61	Boreal America	362	4	5.8	-0.3	969	-3	241	-3
C62	Ural to Altai mountains	296	6	13.7	0.3	1258	4	521	8
C63	Australian desert	185	33	15.5	0.3	676	-1	271	6
C64	Sahara to Afghan deserts	42	38	28.4	0.5	1618	-1	323	-16
C65	Sub-arctic America	157	24	-3.7	0.1	1150	-6	159	-5

Table A.2 Apr 2021 - Jul 2021 agroclimatic indicators and biomass by country

Country code	Country name	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure(°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
ARG	Argentina	231	-10	13.5	0.0	677	7	236	8
AUS	Australia	237	22	13.6	-0.1	677	0	235	1
BGD	Bangladesh	1432	-7	29.1	0.4	1259	0	793	-5
BRA	Brazil	247	-40	22.2	0.6	1042	6	472	-7
KHM	Cambodia	1088	3	26.9	0.0	1227	5	836	6
CAN	Canada	355	-8	11.3	0.5	1198	2	411	8
CHN	China	825	0	19.6	0.1	1175	0	603	1
EGY	Egypt	0	-94	23.8	0.3	1619	2	118	-60
ETH	Ethiopia	755	-4	19.1	-0.5	1203	-3	512	-11
FRA	France	478	25	13.5	-1.1	1227	-1	467	-7
DEU	Germany	477	40	12.7	-1.3	1148	-4	427	-8
IND	India	746	-7	29.0	-0.6	1249	-1	686	4
IDN	Indonesia	1042	-11	24.5	0.3	1141	6	740	6
IRN	Iran	91	-1	22.8	1.4	1628	0	434	-1
KAZ	Kazakhstan	290	23	15.6	0.1	1351	2	598	7
MEX	Mexico	712	17	23.4	-0.1	1459	-1	730	2
MMR	Myanmar	1147	-18	25.6	0.5	1186	1	747	6
NGA	Nigeria	351	-42	28.3	0.5	1256	4	684	-5
PAK	Pakistan	245	-4	25.1	-0.7	1547	-1	671	6
PHL	Philippines	1253	-7	26.0	0.2	1341	4	895	3
POL	Poland	330	1	14.2	-0.4	1179	1	496	6
ROU	Romania	314	-16	15.4	-0.8	1325	1	585	0
RUS	Russia	340	10	13.9	0.6	1178	1	490	7
ZAF	South Africa	57	-36	12.4	-0.3	925	5	213	-15
THA	Thailand	1260	36	26.4	-0.4	1238	5	836	6
TUR	Turkey	154	-35	16.7	0.4	1525	2	511	-7
GBR	United Kingdom	360	-6	10.7	-0.7	1024	4	326	1
UKR	Ukraine	374	24	15.4	-0.7	1219	-2	555	-1
USA	United States	459	20	18.3	-0.4	1363	0	645	2
UZB	Uzbekistan	125	-7	23.2	0.9	1600	2	533	-7
VNM	Vietnam	1137	1	25.1	0.2	1272	7	827	8
AFG	Afghanistan	195	12	19.7	0.2	1625	1	390	-1
AGO	Angola	160	-16	19.7	-0.1	1217	1	270	-16

Country code	Country name	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure(°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
BLR	Belarus	317	0	14.5	0.4	1136	2	504	13
HUN	Hungary	249	-5	16.6	-0.8	1329	1	632	2
ITA	Italy	350	-7	16.5	-0.5	1388	-2	616	1
KEN	Kenya	546	-12	19.3	-0.2	1146	3	570	-1
LKA	Sri Lanka	1250	40	26.5	-0.3	1288	1	851	2
MAR	Morocco	123	36	20.2	0.0	1561	-2	623	-2
MNG	Mongolia	373	45	9.3	-1.2	1304	-5	391	-10
MOZ	Mozambique	111	-15	19.5	-0.5	976	1	492	-2
ZMB	Zambia	32	-54	17.7	-0.5	1162	3	315	-12
KGZ	Kyrgyzstan	528	12	10.7	-0.2	1508	2	467	2

Note: Departures are expressed in relative terms (percentage) for all variables, except for temperature, for which absolute departure in degrees Celsius is given. Zero means no change from the average value; relative departures are calculated as $(C-R)/R*100$, with C=current value and R=reference value, which is the fifteen-year average (15YA) for the same period between Jan - Apr.

Table A.3 Argentina, Apr 2021 - Jul 2021 agroclimatic indicators and biomass (by province)

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure(°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Buenos Aires	196	-8	12.0	0.4	596	4	201	0
Chaco	277	-10	16.3	-0.3	714	15	297	-6
Cordoba	145	25	13.1	0.1	714	4	234	6
Corrientes	370	-20	15.3	-0.5	676	12	273	8
Entre Rios	349	4	13.6	-0.3	640	7	243	1
La Pampa	125	-4	12.1	0.5	629	5	192	6
Misiones	325	-46	15.8	-0.6	763	16	296	2
Santiago Del Estero	194	15	15.6	0.0	728	6	273	4
San Luis	84	0	12.0	0.4	718	3	213	6
Salta	219	11	13.8	-0.1	809	1	280	-1
Santa Fe	263	8	14.4	-0.3	691	11	270	16
Tucuman	138	21	12.3	0.1	812	-3	246	-5

Table A.4 Australia, Apr 2021 - Jul 2021 agroclimatic indicators and biomass (by state)

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure(°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
New South Wales	196	12	11.6	-0.4	682	1	211	-3
South Australia	255	24	13.7	0.2	547	0	217	5
Victoria	294	13	10.8	-0.1	467	-2	159	1
W. Australia	329	61	15.4	0.2	649	-5	245	1

Table A.5 Brazil, Apr 2021 - Jul 2021 agroclimatic indicators and biomass (by state)

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Ceara	173	-57	26.1	1.0	1227	6	768	2
Goias	17	-92	23.3	1.9	1124	5	238	-48
Mato Grosso Do Sul	93	-66	21.5	0.9	942	10	408	-6
Mato Grosso	95	-62	24.0	0.7	1118	4	391	-19
Minas Gerais	52	-77	19.8	0.7	1016	10	389	-12
Parana	263	-48	16.2	-0.4	852	14	316	-3
Rio Grande Do Sul	348	-39	14.4	-0.4	702	10	266	-18
Santa Catarina	328	-44	13.6	-0.8	767	12	278	4
Sao Paulo	79	-75	19.1	0.6	947	13	381	-3

Table A.6 Canada, Apr 2021 - Jul 2021 agroclimatic indicators and biomass (by province)

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Alberta	270	-23	11.6	0.7	1306	4	476	-6
Manitoba	304	-16	12.8	0.7	1225	2	500	-3
Saskatchewan	302	-9	12.6	0.5	1278	3	504	-2

Table A.7 India, Apr 2021 - Jul 2021 agroclimatic indicators and biomass (by state)

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Andhra Pradesh	500	5	29.7	-1.0	1203	-1	713	3
Assam	1812	-24	25.6	0.8	1145	7	721	4
Bihar	862	5	30.7	-1.0	1287	-3	657	-15
Chhattisgarh	456	-34	29.5	-0.9	1241	1	646	-4
Daman and Diu	925	-15	29.4	0.2	1443	0	559	16
Delhi	301	15	32.2	-1.2	1428	-2	803	1
Gujarat	657	2	31.0	-0.2	1358	-2	611	36
Goa	2431	16	26.5	-0.2	1167	-6	630	-1
Himachal Pradesh	494	-17	20.2	-0.9	1427	-2	544	-12
Haryana	288	20	32.3	-0.9	1440	0	829	7
Jharkhand	603	-14	29.9	-0.7	1265	0	640	-9
Kerala	1656	0	25.2	-0.3	1254	7	827	6
Karnataka	886	28	26.2	-0.6	1117	-1	699	3
Meghalaya	1471	-31	25.9	1.1	1198	9	745	6
Maharashtra	1000	26	28.6	-1.0	1196	-4	702	16
Manipur	998	-45	22.5	0.6	1187	7	669	4

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Madhya Pradesh	478	-23	30.8	-0.6	1209	-6	583	1
Mizoram	1334	-17	24.7	0.2	1220	0	759	-1
Nagaland	1427	-29	22.0	0.4	1180	8	650	6
Orissa	536	-29	29.4	-0.6	1249	3	683	-5
Puducherry	893	-17	29.3	-0.5	1351	6	894	12
Punjab	334	17	31.9	-0.7	1439	-1	783	-7
Rajasthan	415	36	32.6	-0.6	1306	-7	726	20
Sikkim	488	-24	17.2	0.0	1398	4	471	-10
Tamil Nadu	503	6	28.0	-0.4	1240	3	778	4
Tripura	1366	-22	27.9	0.6	1240	2	816	0
Uttarakhand	413	-27	22.3	-1.1	1430	1	586	-7
Uttar Pradesh	549	7	31.7	-1.1	1306	-5	704	-3
West Bengal	1002	-11	29.9	-0.1	1280	0	703	-12

Table A.8 Kazakhstan, Apr 2021 - Jul 2021 agroclimatic indicators and biomass (by oblast)

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPA Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Akmolinskaya	236	16	14.7	-0.1	1275	1	555	6
Karagandinskaya	249	33	14.2	-0.3	1365	2	552	4
Kustanayskaya	180	-19	16.0	1.0	1313	6	631	17
Pavlodarskaya	259	21	14.5	-0.5	1276	2	539	1
Severo kazachstanskaya	230	-10	14.4	0.7	1224	5	528	14
Vostochno kazachstanskaya	368	33	12.6	-1.2	1414	2	523	-3
Zapadno kazachstanskaya	367	107	19.2	1.3	1333	1	731	15

Table A.9 Russia, Apr 2021 - Jul 2021 agroclimatic indicators and biomass (by oblast, kray and republic)

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Bashkortostan Rep.	234	-30	14.5	1.8	1236	7	538	21
Chelyabinskaya Oblast	179	-39	14.5	1.6	1259	9	549	22
Gorodovikovsk	416	48	18.7	0.2	1288	-4	681	2
Krasnodarskiy Kray	381	4	14.0	-0.6	1225	-2	491	-3
Kurganskaya Oblast	198	-27	14.3	1.4	1222	10	530	23
Kirovskaya Oblast	331	4	13.5	1.8	1104	6	474	23
Kurskaya Oblast	378	28	14.6	-0.1	1145	-3	509	3
Lipetskaya Oblast	359	25	14.9	0.4	1151	-2	517	5
Mordoviya Rep.	429	37	14.8	1.3	1119	-2	514	12

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Novosibirskaya Oblast	309	10	12.3	-0.2	1140	3	438	4
Nizhegorodskaya O.	343	11	14.5	1.5	1125	2	517	20
Orenburgskaya Oblast	258	2	16.6	1.5	1307	4	650	19
Omskaya Oblast	288	4	13.2	0.7	1134	4	461	12
Permskaya Oblast	332	2	13.4	1.9	1101	6	456	20
Penzenskaya Oblast	467	57	15.1	1.1	1121	-4	514	8
Rostovskaya Oblast	377	41	17.8	0.1	1265	-4	627	-2
Ryazanskaya Oblast	404	33	14.9	0.9	1101	-3	503	8
Stavropolskiy Krai	468	10	17.9	0.4	1326	0	601	-6
Sverdlovskaya Oblast	217	-31	13.7	2.1	1184	13	488	27
Samarskaya Oblast	386	30	16.2	1.7	1189	-1	577	14
Saratovskaya Oblast	432	72	16.8	1.0	1209	-4	604	7
Tambovskaya Oblast	420	47	15.5	0.8	1171	-2	539	7
Tyumenskaya Oblast	226	-18	13.6	1.5	1139	8	474	20
Tatarstan Rep.	361	17	14.8	1.7	1146	2	522	18
Ulyanovskaya Oblast	404	33	15.3	1.4	1125	-3	527	11
Udmurtiya Rep.	338	11	13.9	1.8	1105	4	476	19
Volgogradskaya O.	348	56	17.7	0.5	1236	-4	632	4
Voronezhskaya Oblast	368	28	15.9	0.4	1205	-2	564	4

Table A.10 United States, Apr 2021 - Jul 2021 agroclimatic indicators and biomass (by state)

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Arkansas	533	22	21.1	-1.5	1356	-2	763	-5
California	31	-70	18.5	1.2	1696	4	487	-24
Idaho	129	-47	13.7	1.7	1546	5	571	13
Indiana	491	6	17.8	-0.7	1317	0	654	-2
Illinois	582	28	18.2	-0.8	1299	-2	659	-4
Iowa	456	7	17.5	-0.2	1288	-1	648	0
Kansas	383	9	20.2	-1.2	1387	-2	758	-4
Michigan	412	6	14.3	0.4	1236	0	513	2
Minnesota	359	-11	15.5	0.8	1265	3	579	-1
Missouri	548	33	19.3	-1.3	1319	-3	697	-7
Montana	288	-13	13.8	1.2	1423	3	598	2
Nebraska	276	-21	18.3	-0.1	1421	2	733	-6

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
North Dakota	317	-11	16.0	1.4	1326	3	626	13
Ohio	412	-5	17.1	-0.5	1307	1	630	-1
Oklahoma	507	40	21.4	-1.9	1348	-5	766	-7
Oregon	116	-50	14.3	1.5	1498	8	598	-15
South Dakota	342	-5	17.4	0.7	1373	2	686	7
Texas	626	93	23.6	-1.5	1339	-7	827	-4
Washington	130	-50	14.5	1.4	1443	8	543	-23
Wisconsin	401	-4	15.2	0.6	1248	1	560	6

Table A.11 China, Apr 2021 - Jul 2021 agroclimatic indicators and biomass (by province)

	RAIN Current (mm)	RAIN 15YA Departure (%)	TEMP Current (°C)	TEMP 15YA Departure (°C)	RADPAR Current (MJ/m ²)	RADPAR 15YA Departure (%)	BIOMSS Current (gDM/m ²)	BIOMSS 15YA Departure (%)
Anhui	1013	34	22.1	0.0	1092	-6	646	8
Chongqing	922	6	19.7	-0.4	967	-9	536	-8
Fujian	1081	-20	22.3	0.9	1140	9	695	14
Gansu	318	-10	14.1	0.1	1315	0	554	6
Guangdong	1168	-26	25.2	1.0	1261	13	833	16
Guangxi	1346	-5	23.6	0.5	1138	6	725	8
Guizhou	920	-15	18.9	0.0	924	-4	492	-1
Hebei	375	63	18.8	-0.6	1335	-4	637	8
Heilongjiang	423	35	15.4	0.3	1277	3	553	5
Henan	533	38	21.9	-0.4	1225	-5	703	10
Hubei	788	-1	20.5	-0.3	1056	-8	596	-6
Hunan	1042	-9	21.5	0.0	1029	-2	618	1
Jiangsu	847	33	22.0	0.3	1157	-3	673	0
Jiangxi	1209	-7	22.7	0.5	1087	3	669	7
Jilin	380	8	16.0	0.2	1300	1	581	3
Liaoning	426	31	17.0	-0.3	1262	-3	584	13
Inner Mongolia	312	46	15.3	-0.3	1325	-2	561	15
Ningxia	144	-17	17.0	0.2	1450	3	677	5
Shaanxi	491	11	17.9	-0.1	1245	-3	624	-1
Shandong	419	33	21.5	-0.3	1283	-5	716	9
Shanxi	268	14	17.2	-0.2	1360	-2	619	-1
Sichuan	943	13	17.1	-0.1	1076	-5	490	-4
Yunnan	1007	4	18.5	0.4	1134	5	546	8
Zhejiang	1477	40	21.2	0.5	1029	-2	588	1