



Epidemiological Week 16 (Week ending 22nd April, 2018)

Highlights	Cumulative figures as of week 16
<ul style="list-style-type: none"> 196 health facilities across Somalia submitted weekly reports of epidemic-prone diseases in the electronic early warning disease surveillance (EWARN) system in week 16. Total number of consultations increased from 54,978 in week 15 to 55,439 in week 16. A total of 3,996 alerts were received. Of these, 129 were confirmed as true alerts. The highest numbers of diseases reported in week 16 were other acute diarrhoeas (2,285 cases), influenza like illness (1,401 cases) and severe acute respiratory illness (1,106 cases). A total of 192 new cases of suspected AWD/cholera with 1 death were reported in week 16 compared to 178 AWD cases with 1 death in week 15. A cumulative total of 2,460 AWD/cholera cases, including 11 deaths have been reported since December 2017. The number of reported measles cases decreased from 150 in week 15 to 104 cases in week 16. 	<ul style="list-style-type: none"> 917,725 consultations from week 1 to week 16. 2,460 cumulative cases of AWD/Cholera and 11 deaths since December 2017. 4,901 cumulative cases of suspected measles cases since the beginning of 2018. Of the 4,901 measles cases, 3,148 (64%) are under 5 years while 1,753 (36%) are above 5 years.

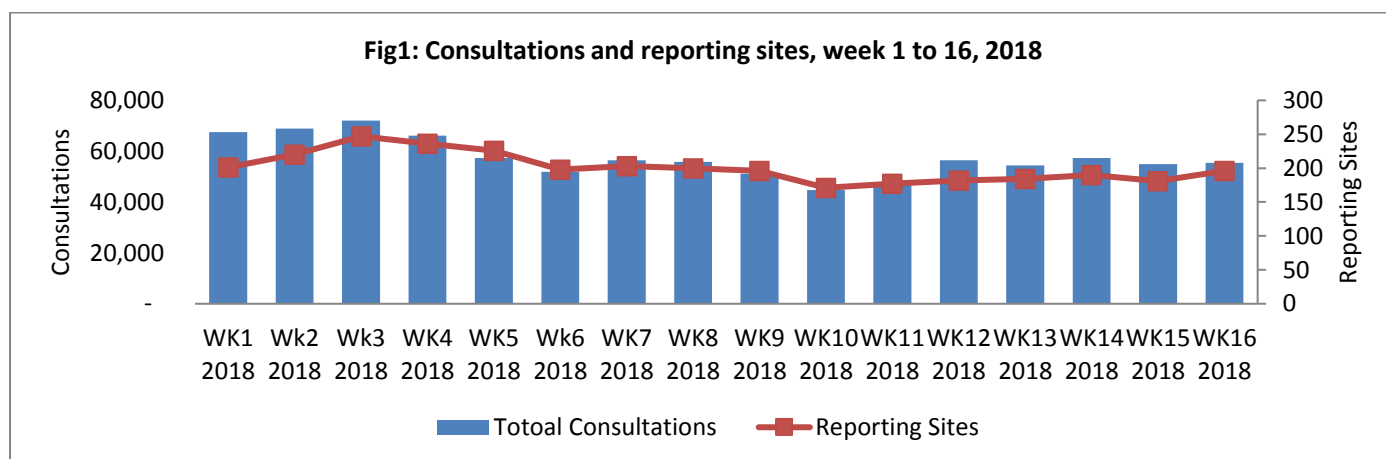
Table 1. Summary of Alerts for epidemic prone diseases

Disease	Wk14 2018	Wk15 2018	Wk16 2018	Cumulative cases (Wk 1 – 16, 2018)
Total consultations	57255	54,978	55,439	917,725
Other Acute Diarrheas	1937	2001	2285	33813
Influenza Like Illness	1472	1518	1401	28,744
Severe Acute Respiratory Illness	1071	824	1106	14,756
Suspected Measles	146	150	104	4901
Confirmed Malaria	223	215	236	3578
Acute Watery Diarrhea	78	58	66	1114
Bloody Diarrhea	67	118	53	879
Whooping Cough	61	33	56	728
Acute Jaundice	2	6	0	61
Suspected Meningitis	2	0	6	46
Diphtheria	0	3	0	26
Neonatal Tetanus	0	0	0	17
Acute Flaccid Paralysis	0	1	0	2
Viral Hemorrhagic Fever	0	0	1	3

Total number of Consultations and Reporting sites

Completeness of Reporting.

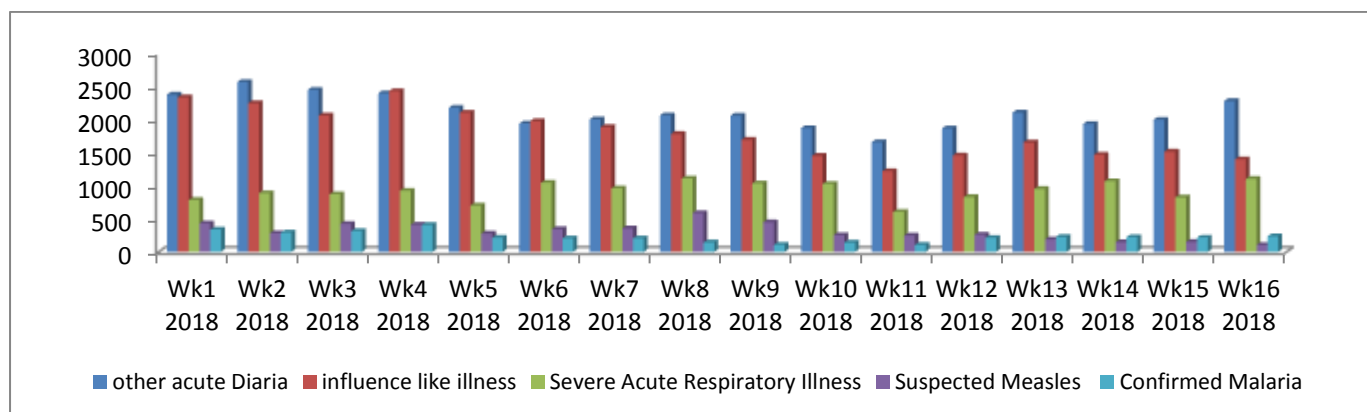
Out of 265 health facilities expected to submit weekly reports of communicable diseases in the EWARN system across Somalia, 196 submitted reports in week 16, a completeness of reporting of 74%. A total of 55,439 consultations were recorded in week 16, 2018.



Proportionate Morbidity

Other acute diarrhoeas (OAD), influenza like illness (ILI), severe acute respiratory illness (SARI), suspected measles and malaria are the commonest causes of morbidity across Somalia in 2018. In week 16, the highest numbers of diseases were other acute diarrhoeas (2,285 cases), influenza like illness (1,401 cases) and severe acute respiratory illness (1,106 cases).

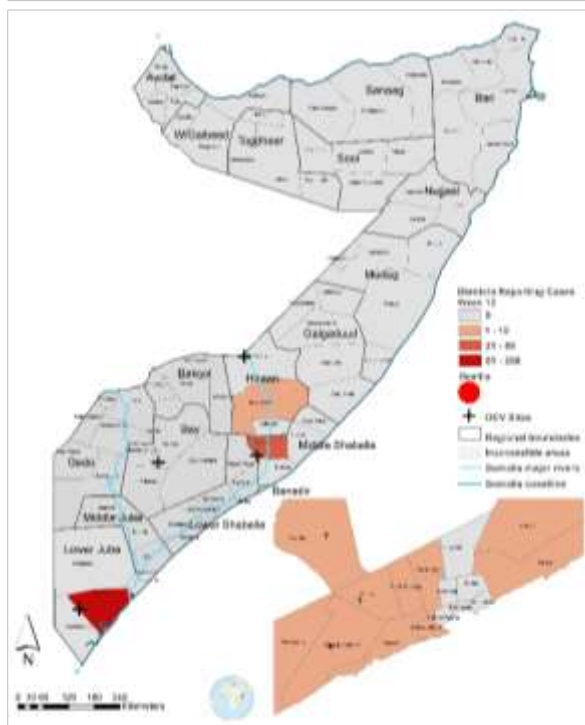
Fig. 2. Commonest Causes of Morbidity during Week 1 to 16



Situation Update of AWD/Cholera

AWD/Cholera situation in different regions of Lower Jubba , Hiiran, Middle Shabelle and Banadir.

Districts Reporting Cases in Week 16



Over the past 2 Weeks, there has been an increase in the number of AWD/Cholera cases reported in two regions (Banadir and Lower Jubba). In week 16, active transmission of AWD/cholera was reported in Kismayo district in Lower Jubba as well as in 10 districts of Banadir region (Darkenly, Daynile, Hodan, Madina, Waberi, HamarWeine, Hamarjabjab, Karan, Waberi and Wardigley districts). In Kismayo, affected communities are reportedly using contaminated water from open water sources. The AWD outbreak that was reported in Beletweyne in December 2017 is responsible for the spread to other regions that are all located at the banks of river Shabelle. The Oral Cholera Vaccination that was implemented in 11 high risk districts in 2017 of the central region has greatly contributed to the reduction in the number of new AWD/cholera cases.

Fig 3 AWD/Cholera cases in Somalia March 2017-April 2018

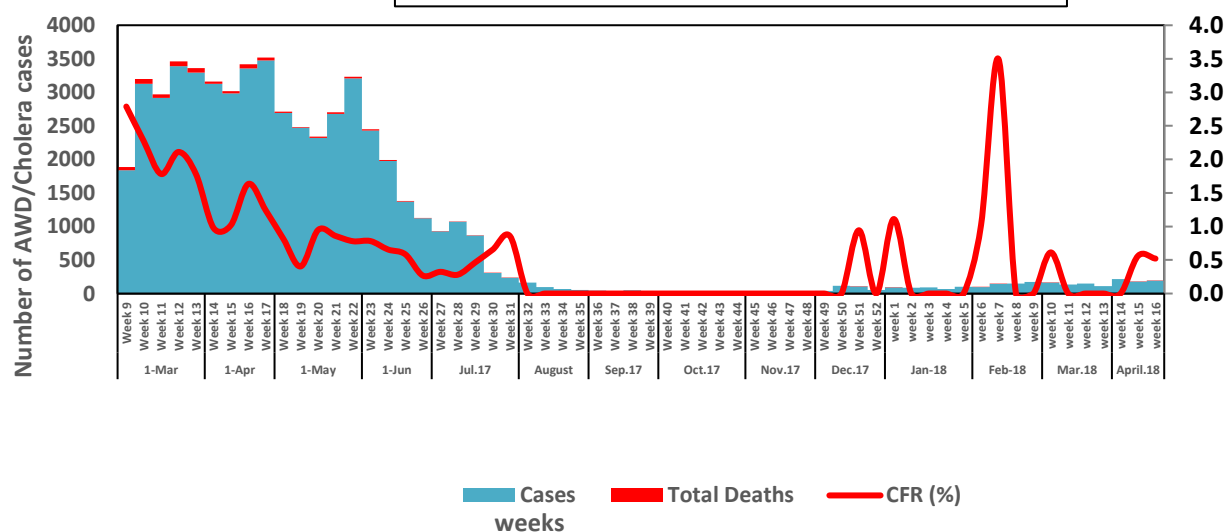


Table 2. Summary of AWD/Cholera cases in different regions									
	Week 15			Week 16			Cumulative as of Epi- Week 49, 2017, Wk 16.		
Region	(9 th -15 th April 2018)			(16 th -22 th April 2018)			2018		
	Cases	Deaths	CFR (%)	Cases	Deaths	CFR (%)	Cases	Deaths	CFR (%)
Hiraan	0	0	0.0	0	0	0.0	565	1	0.2
Banadir	40	0	0.0	52	0	0.0	690	2	0.3
Lower Jubba	138	1	0.7	140	1	0.7	790	6	0.8
Middle Shabelle	0	0	0.0	0	0	0.0	415	2	0.5
Total	178	1	0.6	192	1	0.5	2,460	11	0.4

**The AWD/Deaths reported in this table have not been confirmed by stool analysis.*

Cholera Situation in Hiraan, Lower Jubba, Middle Shabelle and Banadir.

- The AWD/Cholera outbreak in Banadir region started in week 1 of 2018 following reports of a similar outbreak in Hiraan. Banadir region is one of the regions with the highest concentration of internally displaced persons (IDPs) where access to safe water and sanitation facilities are limited. Of the 17 districts that make up Banadir region, 10 have so far reported cases and these are managed in Banadir CTC located in the capital Mogadishu. There have been an increase in number of AWD/Cholera cases from 40 to 52 cases in the past 2 weeks.
- Lower Jubba is one of the cholera hotspots in Somalia located at the border with Kenya in the South. The current AWD/Cholera outbreak in Kismayo district started in week 5 of 2018 in the IDP communities of Farjano where access to safe water and sanitation is also limited. The district is host to returnees from Kenya as well as those displaced by war in Middle Jubba. The reported cases of AWD/Cholera did not receive the vaccine which was implemented in Kismayo in March 2017. The persons may have been absent during the OCV campaign. Over the past week, the number of AWD/Cholera cases increased from 138 and 1 death to 139 and 1 death has been reported in Farjano CTC and Kismayo General Hospital CTU.

Table 3. Number of AWD/Cholera week 16 compared to cumulative cases

Region	District	Week 16						Cumulative		
		Cases			Deaths			Week 49/17-week 16/18		
		<2 yrs	2-5 years	≥ 5 yrs	<2 yrs	2 -5yrs	≥ 5 yrs	cases	Deaths	CFR (%)
Banadir	Darkenley	3	2	5	0	0	0	98	0	0.0
	Daynile	2	0	3	0	0	0	114	2	1.8
	HamarJabja	0	2	1	0	0	0	23	0	0.0
	Hawlwadag	0	0	0	0	0	0	21	0	0.0
	Hodan	6	5	5	0	0	0	181	0	0.0
	Karaan	0	1	0	0	0	0	16	0	0.0
	Madina	5	2	3	0	0	0	149	0	0.0
	waberi	1	1	0	0	0	0	32	0	0.0
	Shibis	0	0	0	0	0	0	3	0	0.0
	HamarWeine	0	1	0	0	0	0	11	0	0.0
	Heliwaa	0	0	0	0	0	0	7	0	0.0
	Wardigley	1	1	1	0	0	0	23	0	0.0
	Yaqshid	1	0	0	0	0	0	12	0	0.0
Middle Shabelle	Jowhar	0	0	0	0	0	0	415	2	0.5
Hiran	Beletweyne	0	0	0	0	0	0	522	1	0.2
	BuloBarde	0	0	0	0		0	43	0	0.0
Lower Jubba	Kismayo	52	36	51	0	0	1	790	6	0.8
Total		71	51	69	1	0	0	2,460	11	0.4

Response Activities Implemented During Week 16

Response activities implemented during the week

❖ Coordination and Leadership.

- Weekly update meeting at Banadir HOSP-CTC was organized by 21-April-2018, CTC team, Surveillance team and Banadir HOSP-CTC.
- Updates of Weekly meeting minutes
- This week New AWD/Cholera Registers started from Banadir HOSP-CTC
- Weekly supervision and case monitoring, at 1 districts of Banadir Region.

Case management and Oral Cholera Vaccination

- Routine on job training for health workers at health facility level staffs, 2 health workers at 2 HFs.
- Surveillance case definitions and AWD/Cholera case managements, prevention and control methods.

Surveillance and Laboratory Investigations

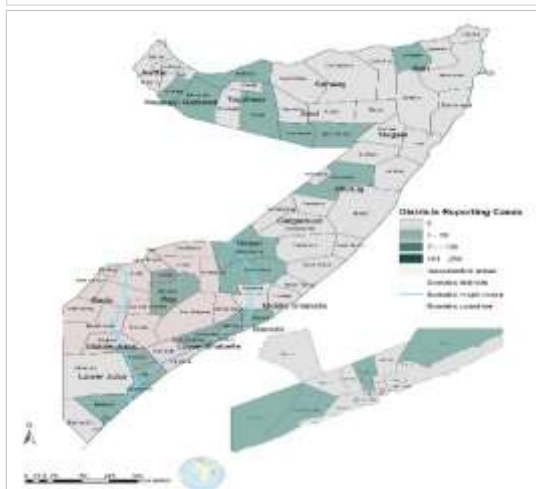
- Routine data collection using EWARN system, 36 health facilities at timeliness, 36/41
- AWD/Cholera data base updates,
- 8 pts collected stool samples to NPHRL and the results are pending
- Total of 140 acute watery diarrhoea cases have been managed in the Kismayo hospital and Farjano CTUs and so far one death case has been recorded in Kismayo Hospital CTU with arrival death status.
- Total , male 74, female 66 have been reported both CTUs while 89 cases were under 5 years and 50 cases were among the admission cases including one death case
- Verification exercises have been conduct in AWD hotspot areas mainly in IDP camps and the CTU to assess the situation.
- Shallow wells treatment have been started in Fanole, Gulwade and farjnao
- Drums of chlorine have been given to CTUs to use toilets disinfection and the use hand washing,

Water Sanitation and Hygiene

- This week, total of 300 hygiene kits have been distributed to some IDP communities in effected locations
- Case tracing for the AWD control at household level is on-going
- Hygiene promotion session have provided to IDPs communityon hand washing after loilate and protection of food contamination
- Hygiene promotion of AWD prevention and control mechanism is on-going in the affected location, Farjano Dalxiska area

Measles Situation

Districts Reporting Measles Cases Wk 16



The number of suspected measles cases decreased from 150 cases in week 15 to 104 cases in week 16. Cumulatively, 4,901 cases of suspected measles have been reported across Somalia since the beginning of 2018. Of the 4,901 measles cases, 3,148 (64%) are under 5 years while 1,753 (36%) are above 5 years. The most affected regions include Galgadud (1,052 cases), Bay (657 cases) Banadir (783 cases), Mudug (453 cases), and Sool (354 cases (See Table 4 below).

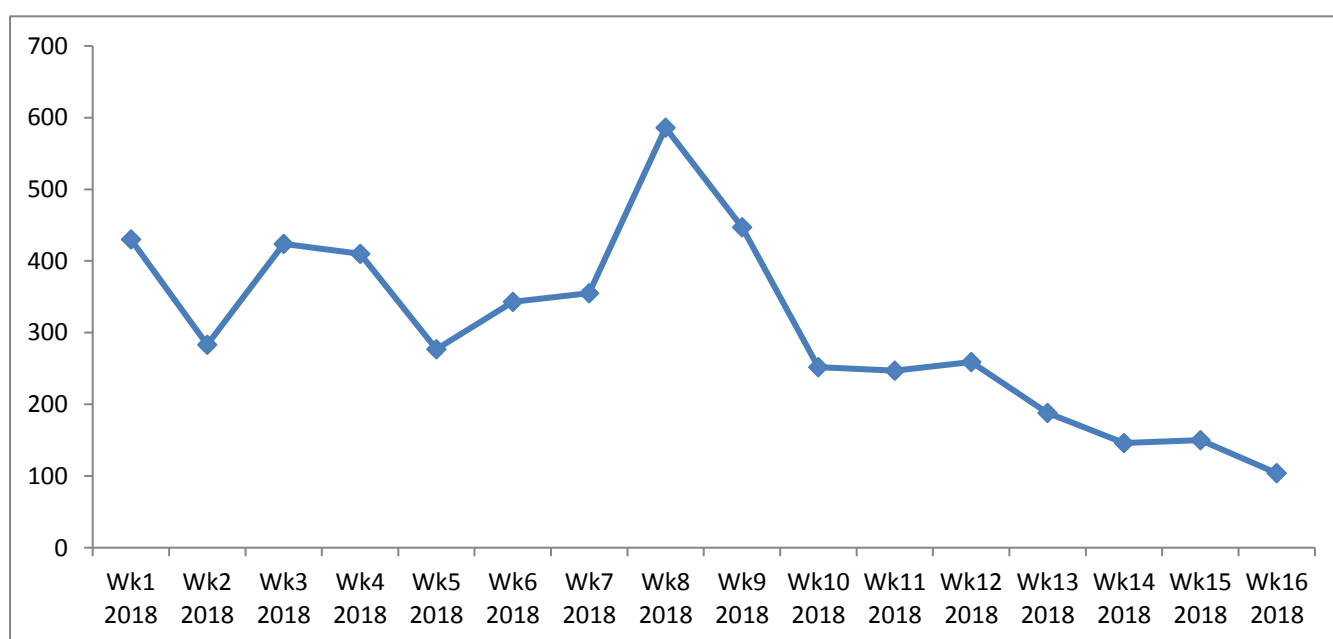


Table 4: Summary of Suspected measles cases by region week 1 - 16, 2018

Region	Wk13 2018	Wk14 2018	Wk15 2018	Wk16 2018	Cumulative cases (Wk 1 – 16)
Awdal	0	0	0	0	11
Bakool	3	2	2	1	117
Banadir	51	30	45	17	783
Bari	-	-	-	1	91
Bay	27	12	39	8	657
Galgaduud	11	0	-	0	1052
Gedo	2	2	-	-	18
Hiraan	13	16	6	4	90
Lower Juba	9	13	10	12	157
Lower Shabelle	13	23	13	16	244
Middle Juba	5	5	9	9	92
Middle Shabelle	2	2	8	3	67
Mudug	29	24	11	13	453
Nugaal	-	1	-	-	183
Sanaag	1	0	0	0	150
Sool	3	12	1	1	354
Togdher	-	-	-	11	174
Waqoyi Galbed	19	4	6	8	208
Grand Total	188	146	150	104	4901

Measles Outbreak Response Activities

In response to the measles outbreak, the Federal Ministry of Health in collaboration with WHO, UNICEF and other partners has conducted a nationwide mass measles vaccination campaign across Somalia targeting 4.7 children aged 6 months to 10 years.

The campaign was conducted in phases. Phase one was conducted in Puntland in January 2018 and Somaliland and South Central zones in March 2018.

Out of the overall target of 4.7 million children targeted during the campaign, over 4.5million children were vaccinated (93% coverage) were vaccinated during campaign. Children from 6 months to 5 years also were also given a dose of vitamin A during campaign to boost their immunity.

Table 5. Cumulative Summary of Epidemic-prone Diseases in different Districts of Somalia as of Week 1-15, 2018

Regions	District	SARI	ILI	AWD	BD	OAD	DIPH	WC	MEAS	NNT	AFP	AJS	VHF	MAL	MENG	OC	Total_cons
Awdal	Total	0	5351	11	77	1958	0	0	11	0	0	0	0	11	2	20275	27725
	Baki	0	662	0	31	138	0	0	0	0	0	0	0	0	0	1814	2645
	Borama	0	3360	11	43	1313	0	0	7	0	0	0	0	5	0	13384	18151
	Lughaya	0	127	0	2	113	0	0	0	0	0	0	0	0	0	1023	1265
	Zeila	0	1202	0	1	394	0	0	4	0	0	0	0	6	2	4054	5664
Bakool	Total	95	37	0	43	279	0	15	117	0	0	0	0	293	2	34807	35688
	Elberde	0	6	0	0	66	0	0	0	0	0	0	0	0	0	6360	6432
	Huddur	5	5	0	11	52	0	0	1	0	0	0	0	90	0	4879	5043
	Tayeeglow	18	8	0	0	29	0	0	6	0	0	0	0	30	2	855	948
	Waajid	39	15	0	17	55	0	10	15	0	0	0	0	62	0	10300	10513
	Wajid	33	3	0	15	77	0	5	95	0	0	0	0	111	0	12413	12752
Banadir	Total	4185	6453	719	44	9783	0	9	783	0	1	0	0	621	12	255847	278457
	Abdiaziz	0	23	0	0	62	0	0	0	0	0	0	0	0	0	5480	5565
	Boondhere	0	0	18	0	182	0	0	23	0	0	0	0	0	0	5328	5551
	Dayniile	14	99	0	0	155	0	0	7	0	0	0	0	1	0	8886	9162
	Dharkinley	440	900	0	0	1453	0	0	47	0	0	0	0	0	0	15085	17925
	Hamar Jab Jab	165	354	0	2	356	0	1	7	0	0	0	0	1	0	8775	9661
	Hamar Weyne	70	212	0	0	714	0	0	10	0	0	0	0	0	0	7058	8064
	Hodan	3	0	0	0	39	0	0	0	0	0	0	0	6	0	5925	5973
	Howl-wadaag	0	0	0	0	0	0	0	5	0	0	0	0	1	0	24059	24065
	Huruwaa	1213	2873	12	3	2820	0	0	399	0	1	0	0	3	12	30367	37703
	Kaaraan	10	69	0	0	46	0	0	1	0	0	0	0	0	0	12484	12610
	Kahda	56	470	0	0	262	0	0	1	0	0	0	0	0	0	1289	2078
	Shangani	17	6	0	0	5	0	0	0	0	0	0	0	0	0	35	63
	Shibis	0	0	0	0	358	0	0	8	0	0	0	0	1	0	5213	5580
	Waberi	0	0	0	0	33	0	0	0	0	0	0	0	0	0	11742	11775
	Wadajir	1297	1358	689	5	1806	0	2	224	0	0	0	0	595	0	68406	74382
	Wardhigley	14	0	0	18	902	0	6	32	0	0	0	0	13	0	30068	31053
	Yaqshid	886	89	0	16	590	0	0	19	0	0	0	0	0	0	15647	17247
Bari	Total	81	1020	5	10	581	0	0	91	0	0	0	0	335	0	31290	37968
	Banderbayla	35	153	1	0	20	0	0	1	0	0	0	0	0	0	746	956
	Bossaso	46	847	3	0	345	0	0	28	0	0	0	0	331	0	15958	22091

	Carmo	0	6	0	0	4	0	0	0	0	0	0	0	2	0	634	668
	Hafun	0	0	0	0	24	0	0	0	0	0	0	0	0	0	1553	1577
	Iskushuban	0	7	0	1	5	0	0	0	0	0	0	0	0	0	614	627
	Qardho	0	0	0	9	127	0	0	45	0	0	0	0	2	0	6616	6799
	Rakko	0	0	1	0	52	0	0	17	0	0	0	0	0	0	2249	2319
	Ufeyn	0	7	0	0	2	0	0	0	0	0	0	0	0	0	374	383
	Waciya	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2546	2548
Bay	Total	294	552	26	188	422	9	6	296	0	0	1	0	622	0	47605	50021
	Baidoa	287	393	19	85	379	9	6	212	0	0	1	0	548	0	42576	44515
	Berdale	0	0	6	5	6	0	0	10	0	0	0	0	37	0	1991	2055
	Burhakaba	7	30	0	98	16	0	0	72	0	0	0	0	37	0	1779	2039
	Qansahdere	0	129	1	0	21	0	0	2	0	0	0	0	0	0	527	680
	Qasax dhere	0	0	0	0	0	0	0	0	0	0	0	0	0	0	732	732
Galgadud	Total	2680	721	1	4	758	0	164	1413	0	0	3	0	522	8	35001	41275
	Abudwak	1014	179	0	0	173	0	26	709	0	0	0	0	117	4	7498	9720
	Adado	543	239	0	1	212	0	53	270	0	0	3	0	176	1	6937	8435
	Balanbale	168	71	0	1	33	0	11	129	0	0	0	0	59	0	1809	2281
	Dhuusamarreeb	499	92	1	2	97	0	16	146	0	0	0	0	75	0	10026	10954
	El Bur	24	6	0	0	38	0	0	34	0	0	0	0	17	0	533	652
	El Dere	300	71	0	0	153	0	22	61	0	0	0	0	34	3	6474	7118
	Gelinsor	132	63	0	0	52	0	36	64	0	0	0	0	44	0	1724	2115
Gedo	Total	36	1011	0	0	207	0	0	18	0	0	0	0	222	0	13517	15011
	B/hawo	22	237	0	0	48	0	0	9	0	0	0	0	59	0	3369	3744
	Doolow	8	280	0	0	53	0	0	4	0	0	0	0	52	0	3164	3561
	Garbahaarey	1	184	0	0	36	0	0	0	0	0	0	0	38	0	2775	3034
	Luuq	5	310	0	0	70	0	0	5	0	0	0	0	73	0	4209	4672
Hiraan	Total	4229	2511	198	2	3630	0	12	90	0	0	0	0	100	2	42749	53523
	Belet Weyne	2403	1827	192	0	2299	0	2	75	0	0	0	0	99	1	26064	32962
	Bulo Burto	1155	337	6	2	978	0	0	15	0	0	0	0	1	1	7646	10141
	Jalalaqsi	551	103	0	0	270	0	0	0	0	0	0	0	0	0	1427	2351
	Matabaan	73	175	0	0	60	0	0	0	0	0	0	0	0	0	3993	4301
	Maxaas	47	69	0	0	23	0	10	0	0	0	0	0	0	0	3619	3768
Lower Juba	Total	768	0	33	95	848	3	17	157	0	0	0	0	92	0	46948	48961
	Afmadow	156	0	20	36	129	0	0	0	0	0	0	0	4	0	6767	7112
	Hagar	70	0	0	4	83	2	0	35	0	0	0	0	0	0	2174	2368

	Jamaame	72	0	6	7	105	0	0	42	0	0	0	0	35	0	4954	5221
	Kismayo	470	0	7	48	531	1	17	80	0	0	0	0	53	0	33053	34260
Lower Shabelle	Total	419	327	15	3	3649	4	10	244	0	0	0	0	403	0	72694	77768
	Afgoi	32	81	0	0	167	0	0	26	0	0	0	0	5	0	12479	12790
	Kurtunwarey	14	1	0	0	660	0	0	20	0	0	0	0	24	0	8595	9314
	Marka	163	2	15	0	2043	4	10	158	0	0	0	0	323	0	43290	46008
	Qoryooley	46	0	0	0	449	0	0	35	0	0	0	0	45	0	7382	7957
	Wanla Weyn	164	243	0	3	330	0	0	5	0	0	0	0	6	0	948	1699
Middle Juba	Total	31	0	0	40	347	5	167	99	0	0	0	0	97	0	6345	7131
	Bu'ale	5	0	0	7	75	0	36	19	0	0	0	0	0	0	1221	1363
	Jilib	23	0	0	21	216	5	98	64	0	0	0	0	97	0	4145	4669
	Salagle	3	0	0	12	56	0	33	16	0	0	0	0	0	0	979	1099
Middle Shabelle	Total	75	301	71	50	1611	0	1	60	0	0	0	0	171	0	47123	49463
	Adale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2513	2513
	Bal'ad	46	274	19	18	351	0	1	42	0	0	0	0	86	0	20264	21101
	Jowhar	21	0	52	32	990	0	0	18	0	0	0	0	66	0	13123	14302
	Mahaday	0	15	0	0	87	0	0	0	0	0	0	0	10	0	3938	4050
	Warsheikh	8	12	0	0	183	0	0	0	0	0	0	0	9	0	7285	7497
Mudug	Total	178	36	12	21	1681	3	76	453	17	0	20	0	8	2	70325	72832
	Galdogob	2	0	1	0	105	0	0	8	0	0	1	0	0	0	4750	4867
	Galkacyo	151	0	11	15	908	1	55	312	0	0	0	0	4	2	45166	46625
	Harardere	25	36	0	1	113	0	12	29	0	0	0	0	4	0	2636	2856
	Hobyo	0	0	0	0	509	2	8	94	17	0	19	0	0	0	8892	9541
	Jariiban	0	0	0	5	46	0	1	10	0	0	0	0	0	0	8881	8943
Nugaal	Total	72	771	6	0	428	1	6	183	0	0	0	0	0	0	11165	12632
	Burtinle	1	148	0	0	108	0	0	29	0	0	0	0	0	0	2197	2483
	Dangorayo	1	28	0	0	34	1	0	0	0	0	0	0	0	0	1333	1397
	Eyl	12	213	0	0	84	0	0	44	0	0	0	0	0	0	3111	3464
	Garooowe	58	382	6	0	202	0	6	110	0	0	0	0	0	0	4524	5288
Sanaag	Total	611	341	17	0	464	1	73	150	0	0	0	0	21	1	14531	16344
	Badhan	249	94	10	0	171	0	1	132	0	0	0	0	20	0	3351	4035
	Dhahar	95	1	2	0	7	0	0	3	0	0	0	0	1	0	687	796
	Eil-afweine	220	133	5	0	204	1	0	7	0	0	0	0	0	0	5236	5850
	Erigavo	47	113	0	0	82	0	72	8	0	0	0	0	0	1	5257	5663
Sool	Total	38	2439	0	3	1867	0	30	354	0	0	0	0	34	0	22331	27096

	Bocame	0	0	0	0	5	0	0	2	0	0	0	0	0	0	222	229
	Hudun	0	417	0	0	248	0	1	14	0	0	0	0	0	0	2211	2891
	Lasacanod	38	1829	0	3	1545	0	29	336	0	0	0	0	34	0	18207	22021
	Taleex	0	193	0	0	69	0	0	2	0	0	0	0	0	0	1691	1955
Togdher	Total	204	1591	0	129	1407	0	22	167	0	0	5	0	2	8	15234	18769
	Ainabo	1	64	0	28	89	0	0	0	0	0	0	0	0	0	1147	1329
	Buhodle	23	91	0	40	98	0	0	9	0	0	0	0	0	0	1622	1883
	Burao	154	1261	0	47	1101	0	22	158	0	0	5	0	2	8	11163	13921
	Odwayne	26	175	0	14	119	0	0	0	0	0	0	0	0	0	1302	1636
Waqoy Galbed	Total	760	5282	0	170	3893	0	120	215	0	1	32	1	24	9	36554	47061
	Ballayabane	129	187	0	20	123	0	24	9	0	0	0	0	0	1	1553	2046
	Berbera	195	1956	0	2	1344	0	72	101	0	1	32	1	0	1	11057	14762
	Gabiley	189	1512	0	64	1116	0	5	16	0	0	0	0	7	0	3931	6840
	Hargeisa	130	1166	0	84	994	0	17	83	0	0	0	0	17	7	17243	19741
	Sheikh	117	461	0	0	316	0	2	6	0	0	0	0	0	0	2770	3672
Grand Total		14756	28744	1114	879	33813	26	728	4901	17	2	61	1	3578	46	824341	917,725

SARI-Severe Acute respiratoty Illness,ILI-Influenza Like Illness,AWD-Acute Watery Diarrhoea,BD-Bloody Diarrhoea,Diph-Diphtheria,WC-Whooping cough,Meas-Fever With Rash/Measles,NNT-Neonatal Tetanus,AJS-Acute Jaundice Syndrome,VHF-Viral Heamorrhagic Fever,Mal-Confirmed Malaria,Men-Bacterial Meningitis

For inquires please contact the Surveillance team, Ahmed Moalim Mohamed, Emergency Coordinator FMOH, ahmeddiscipline@gmail.com and WHO country office in Somalia or Dr Mutaawe Lubogo, Epidemiologist, mutaawe@who.int