EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators
Between 01/01/2017 and 31/07/2017

Country	Total suspected cases for M/R	Specimens tested for Measles	Measles lab confirmed	Measles Epi-Linked	Measles clinicaly compatible	Total Measles	Measles discarded cases	Specimns terted for Rubella	Rubella lab confirmed	Rubella Epi-Linked	Rubella clinically compatable	Total Rubella	Rubella discarded	Measles incidence/1000,000 *	Rubella incidence/100 0,000 **	Reporting rate ***	suspects tested for Measles ****	cases with complete investigation	specimens received at the lab within 5 days	specimens with adequate condition	results reported back within 4 days	Last date reported	Genotypes reorted
Afghanistan	1764	1764	1142	0	0	1142	622	621	45	0	0	45	576	35.38	1.39	1.79	100%	0%	57%	99%	98%	31/07/2017	
Bahrain	343	343	0	0	0	0	343	343	0	0	0	0	343	0.00	0.00	27.77	100%	100%	100%	100%	98%	31/07/2017	D8, B3
Iran	3813	3595	57	1	9	67	3746	3595	7	0	0	7	3588	0.85	0.09	4.75	94%	100%	89%	100%	94%	31/07/2017	B3
Iraq	266	260	6	0	0	6	260	258	5	0	0	5	253	0.18	0.15	0.77	98%	76%	54%	100%	99%	15/07/2017	
Jordan	31	31	0	0	0	0	31	31	0	0	0	0	31	0.00	0.00	0.51	100%	68%	100%	100%	16%	21/05/2017	
Egypt	2031	2020	18	0	11	29	2002	2018	36	0	0	36	1982	0.33	0.40	2.21	99%	99%	100%	100%	86%	31/07/2017	
Kuwait	94	85	12	0	0	12	82	84	0	0	0	0	84	3.30	0.00	2.26	90%	96%	98%	100%	9%	27/06/2017	
Lebanon	138	89	39	12	39	90	48	45	5	0	3	8	37	15.67	1.39	0.75	71%	98%	58%	100%	98%	30/07/2017	D8
Libya	44	42	1	0	0	1	43	42	1	0	0	1	41	0.17	0.17	0.72	95%	84%	48%	98%	76%	31/07/2017	
Morocco	143	140	3	0	0	3	140	130	4	0	0	4	126	0.09	0.12	0.42	98%	96%	93%	100%	80%	25/07/2017	
Oman	1954	1936	89	0	8	97	1857	1935	0	0	0	0	1935	21.98	0.00	42.07	99%	61%	79%	100%	91%	31/07/2017	D8 ,D4 ,B3
Pakistan	7939	7939	4764	0	0	4764	3175	7939	320	0	0	320	7619	26.90	1.81	1.61	100%	0%	78%	100%	44%	27/07/2017	
Palestine	375	375	61	0	0	61	314	375	0	0	0	0	375	14.63	0.00	7.53	100%	99%	86%	100%	92%	31/07/2017	B3
Qatar	99	98	6	0	0	6	93	61	1	0	0	1	60	3.46	0.58	5.31	99%	100%	99%	100%	68%	27/07/2017	
Saudi Arabia	685	684	190	0	0	190	495	418	7	0	0	7	411	6.70	0.25	1.72	100%	87%	99%	100%	97%	31/07/2017	
Somalia ★	13891	41	34	0	13850	13884	7	22	0	0	0	0	22	998.27	0.00	0.05	0%	0%	54%	100%	59%	18/07/2017	
Sudan	1526	1205	250	257	0	507	1019	769	183	0	0	183	586	12.32	4.45	2.03	95%	100%	83%	95%	95%	30/07/2017	
Syria	1064	850	405	214	0	619	445	496	0	0	0	0	496	27.63	0.00	1.99	100%	93%	61%	100%	96%	31/07/2017	
Tunisia	125	120	3	0	0	3	122	121	4	0	0	4	117	0.28	0.38	1.12	96%	86%	57%	100%	87%	29/07/2017	
UAE	349	332	51	1	21	73	276	303	16	1	1	18	285	7.97	1.97	2.83	96%	95%	94%	99%	86%	30/07/2017	
Yemen	2219	1612	152	143	66	361	1858	1797	19	0	25	44	1753	12.98	1.58	6.61	78%	89%	65%	98%	30%	31/07/2017	
Total	38893	23561	7283	628	14004	21915	16978	21403	653	1	29	683	20720	34.63	1.08	2.62	97%	79%	79%	99%	77%		

*The sum of the measles lab confirmed cases +measles epi-linked cases + measles clinically compatible cases/million population

**The sum of the rubella lab confirmed cases +rubella epi-linked cases + rubella clinically compatible cases/million population

***Reporting rate of discarded non-measles non-rubella cases at the national level per 100,000 total population

****Excluding measles and rubella epi-linked cases

Green cells= indicator met.
Yellow cells=indicator not met.
Red cells=missing data for calculating indicator.

Adequate investigation includes the following data elements:
-District.   -Age.   -Gender.
-Date of rash onset, case notification and investigation
-Vaccination status.   -Date of last vaccination with MCV
-Date specimen collected.
-Travel history

Countries that did not report   ★ **Somalia reported aggregate data**

Djibouti

Measles final classification and distribution by Month

Between 01/01/2017 and 31/07/2017

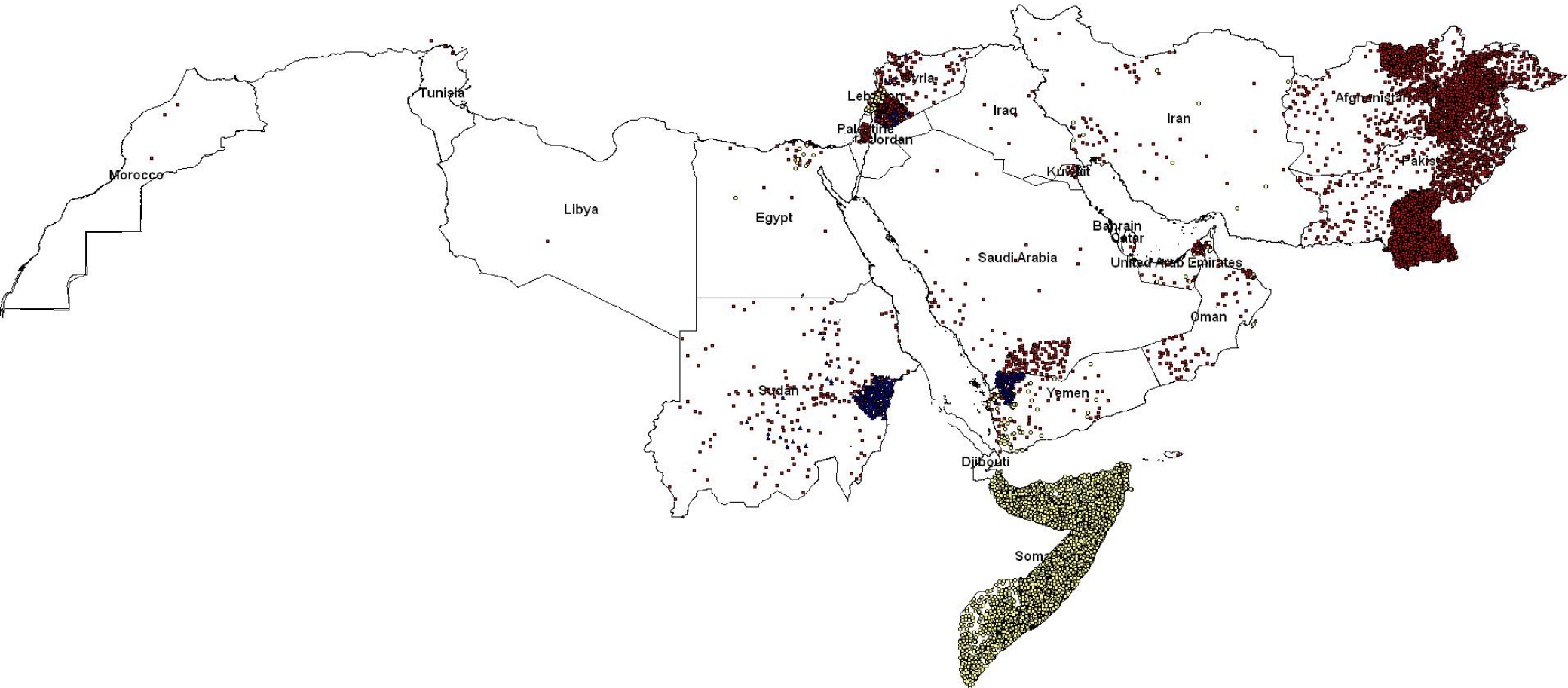| Country	Total Suspected cases for measles	Total specimens tested	Imported Measles cases	Measles import related	Vaccine related	Measles Lab confirmed	Measles Epi-Linked	Measles clinically compatible	Total Measles	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	1764	1764	0	0	0	1142	0	0	1142	228	213	201	180	144	89	87					
Bahrain	343	343	3	0	5	0	0	0	0	0	0	0	0	0	0	0					
Iran	3813	3595	0	0	103	57	1	9	67	19	14	12	6	6	1	9					
Iraq	266	260	0	0	0	6	0	0	6	0	0	0	1	3	2	0					
Jordan	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Egypt	2031	2020	0	0	1	18	0	11	29	4	6	11	4	2	0	2					
Kuwait	94	85	0	0	3	12	0	0	12	0	3	4	4	0	1	0					
Lebanon	138	89	0	0	0	39	12	39	90	6	8	29	11	18	10	8					
Libya	44	42	0	0	0	1	0	0	1	0	0	0	0	1	0	0					
Morocco	143	140	0	0	0	3	0	0	3	0	0	2	0	0	1	0					
Oman	1954	1936	0	0	44	89	0	8	97	33	5	19	20	14	6	0					
Pakistan	7939	7939	0	0	0	4764	0	0	4764	553	300	385	1214	1241	695	376					
Palestine	375	375	0	0	6	61	0	0	61	0	0	7	27	18	6	3					
Qatar	99	98	14	0	0	6	0	0	6	2	0	1	1	0	1	1					
Saudi Arabia	685	684	0	0	4	190	0	0	190	76	55	33	2	9	5	10					
Somalia	13891	41	0	0	0	34	0	13850	13884	849	1348	1629	2516	2745	2682	2115					
Sudan	1526	1205	0	0	0	250	257	0	507	74	90	116	104	79	21	23					
Syria	1064	850	0	0	26	405	214	0	619	25	77	135	168	125	39	50					
Tunisia	125	120	0	0	0	3	0	0	3	0	0	1	0	0	0	2					
UAE	349	332	0	0	1	51	1	21	73	16	12	3	15	15	7	5					
Yemen	2219	1612	0	0	0	152	143	66	361	81	120	97	38	22	3	0					
Total	38893	23561	17	0	193	7283	628	14004	21915	1966	2251	2685	4311	4442	3569	2691					

* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

** Importation related measles/rubella case – a locally acquired infection occurring as part of a chain of transmission originating from an imported case as supported by epidemiological or virological evidence

***Vaccine related case – a suspect case that has a rash like illness without respiratory symptoms and the rash had onset 7-14 days following vaccination and the lab detected IgM in the blood specimen that was collected 8-56 days after vaccination and there were no secondary cases identified. OR any suspect case from which virus is isolated and genotyping test reveals the virus to be a vaccine strain

Total confirmed cases; include all cases confirmed by laboratory testing or epi linkage, plus those clinical cases that were reported without a laboratory specimen or epi linkage

Cumulative geographic distribution of Measles cases in the EMR countries July 2017

■ Measles Lab confirmed   N=7283

▲ Measles Epi Linked   N=628

● Measles Clinically compatible   N=14004

Rubella final classification and distribution by Month

Between 01/01/2017 and 31/07/2017

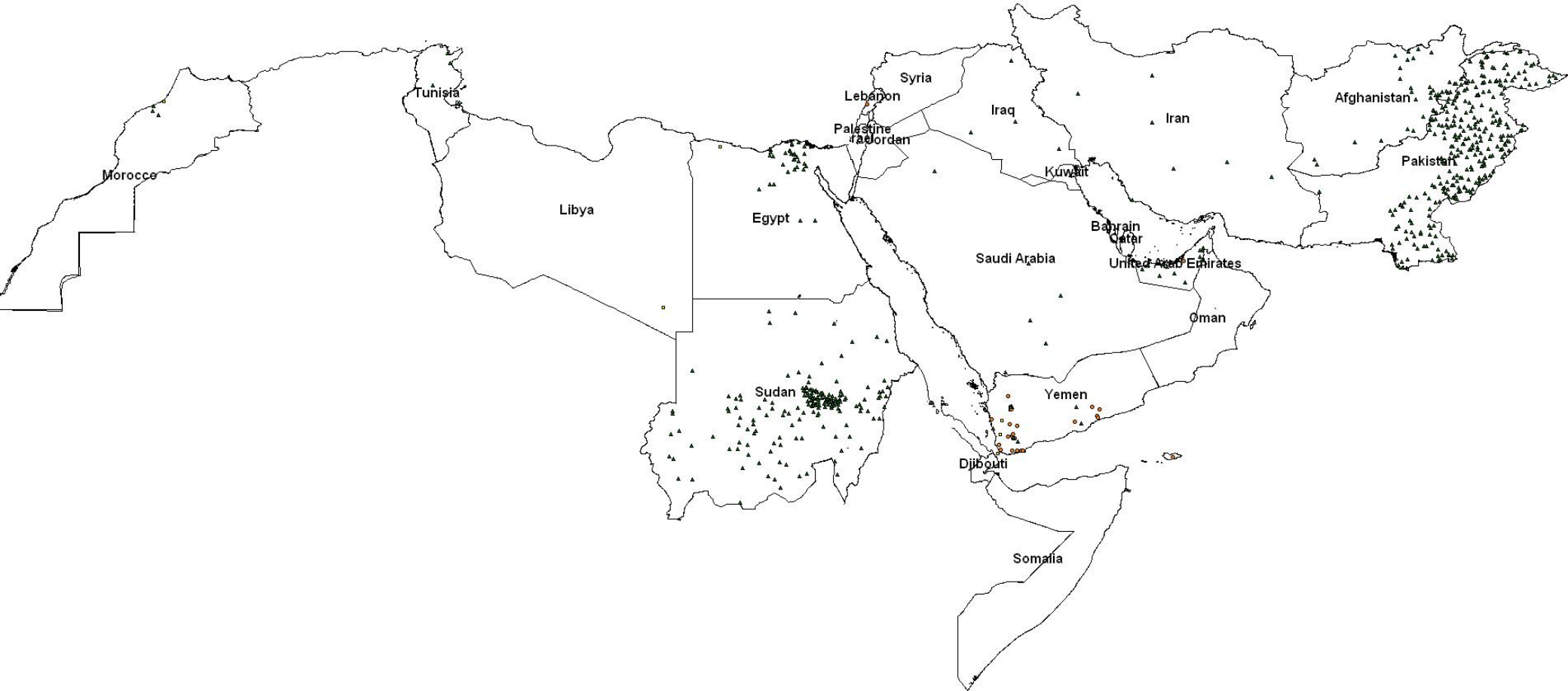| Country	Total Suspected cases for Rubella	Total specimens tested	Imported Rubella cases	Rubella import related	Vaccine related	Rubella Lab confirmed	Rubella Epi-Linked	Rubella clinically compatible	Total Rubella	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	1764	621	0	0	0	45	0	0	45	8	7	13	8	3	3	3					
Bahrain	343	343	1	0	5	0	0	0	0	0	0	0	0	0	0	0					
Iran	3813	3595	0	0	103	7	0	0	7	0	1	1	2	3	0	0					
Iraq	266	258	0	0	0	5	0	0	5	1	0	0	1	1	1	1					
Jordan	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Egypt	2031	2018	0	0	1	36	0	0	36	4	8	10	8	2	1	3					
Kuwait	94	84	0	0	3	0	0	0	0	0	0	0	0	0	0	0					
Lebanon	138	45	0	0	0	5	0	3	8	0	1	0	0	4	1	2					
Libya	44	42	0	0	0	1	0	0	1	0	0	0	0	1	0	0					
Morocco	143	130	0	0	0	4	0	0	4	0	0	0	1	1	2	0					
Oman	1954	1935	0	0	44	0	0	0	0	0	0	0	0	0	0	0					
Pakistan	7939	7939	0	0	0	320	0	0	320	1	10	10	60	136	84	19					
Palestine	375	375	0	0	6	0	0	0	0	0	0	0	0	0	0	0					
Qatar	99	61	2	0	0	1	0	0	1	0	0	0	0	0	1	0					
Saudi Arabia	685	418	0	0	4	7	0	0	7	3	2	1	0	0	0	1					
Somalia	13891	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Sudan	1526	769	0	0	0	183	0	0	183	43	70	59	11	0	0	0					
Syria	1064	496	0	0	26	0	0	0	0	0	0	0	0	0	0	0					
Tunisia	125	121	0	0	0	4	0	0	4	1	0	1	2	0	0	0					
UAE	349	303	0	0	1	16	1	1	18	2	3	0	2	3	4	4					
Yemen	2219	1797	0	0	0	19	0	25	44	12	11	7	8	3	3	0					
Total	38893	21403	3	0	193	653	1	29	683	75	113	102	103	157	100	33					

* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

** Importation related measles/rubella case – a locally acquired infection occurring as part of a chain of transmission originating from an imported case as supported by epidemiological or virological evidence

***Vaccine related case – a suspect case that has a rash like illness without respiratory symptoms and the rash had onset 7-14 days following vaccination and the lab detected IgM in the blood specimen that was collected 8-56 days after vaccination and there were no secondary cases identified. OR any suspect case from which virus is isolated and genotyping test reveals the virus to be a vaccine strain

Total confirmed cases; include all cases confirmed by laboratory testing or epi linkage, plus those clinical cases that were reported without a laboratory specimen or epi linkage

Cumulative geographic distribution of Rubella cases in the EMR countries July 2017

▲ **Rubella Lab confirmed**   **N=653**

⬤ **Rubella Epi Linked**   **N=1**

▢ **Rubella clinically compatible** **N=29**

Measles and Rubella laboratory summary report

Between 01/01/2017 and 31/07/2017

Country	Measles								Rubella								Reported to EPI within 4days
	specimens tested	%	Positive	%	Negative	%	Equivocal	%	specimens tested	%	Positive	%	Negative	%	Equivocal	%	
Afghanistan	1764	100%	1142	65%	622	35%	0	0%	621	35%	46	7%	575	93%	0	0%	98%
Bahrain	343	100%	8	2%	332	97%	3	1%	343	100%	5	1%	334	97%	4	1%	98%
Iran	3595	94%	135	4%	3459	96%	1	0%	3595	94%	38	1%	3557	99%	0	0%	94%
Iraq	260	98%	6	2%	254	98%	0	0%	258	97%	5	2%	253	98%	0	0%	99%
Jordan	31	100%	0	0%	30	97%	1	3%	31	100%	0	0%	31	100%	0	0%	16%
Egypt	2020	99%	19	1%	2001	99%	0	0%	2018	99%	37	2%	1981	98%	0	0%	86%
Kuwait	85	90%	15	18%	70	82%	0	0%	84	89%	1	1%	83	99%	0	0%	9%
Lebanon	89	64%	39	44%	47	53%	3	3%	45	33%	5	11%	39	87%	1	2%	98%
Libya	42	95%	1	2%	40	95%	1	2%	42	95%	1	2%	39	93%	2	5%	76%
Morocco	140	98%	3	2%	136	97%	1	1%	130	91%	4	3%	125	96%	1	1%	80%
Oman	1936	99%	91	5%	1811	94%	34	2%	1935	99%	36	2%	1875	97%	24	1%	91%
Pakistan	7939	100%	4764	60%	3175	40%	0	0%	7939	100%	320	4%	7619	96%	0	0%	44%
Palestine	375	100%	68	18%	297	79%	10	3%	375	100%	2	1%	364	97%	9	2%	92%
Qatar	98	99%	18	18%	80	82%	0	0%	61	62%	3	5%	58	95%	0	0%	68%
Saudi Arabia	684	100%	230	34%	454	66%	0	0%	418	61%	11	3%	407	97%	0	0%	97%
Somalia	41	100%	34	83%	7	17%	0	0%	22	54%	0	0%	22	100%	0	0%	59%
Sudan	1205	79%	251	21%	949	79%	5	0%	769	50%	198	26%	568	74%	3	0%	95%
Syria	850	80%	850	100%	0	0%	0	0%	496	47%	496	100%	0	0%	0	0%	96%
Tunisia	120	96%	8	7%	112	93%	0	0%	121	97%	8	7%	113	93%	0	0%	87%
UAE	332	95%	52	16%	274	83%	6	2%	303	87%	19	6%	284	94%	0	0%	86%
Yemen	1612	73%	152	9%	1408	87%	52	3%	1797	81%	19	1%	1746	97%	32	2%	30%