

COVID-19

WEEKLY STATUS REPORT

OF HARYANA

(No. 9 / June 28th 2020)

Dr. Usha Gupta
Director Health Services (IDSP)
Directorate of Health Services, Haryana

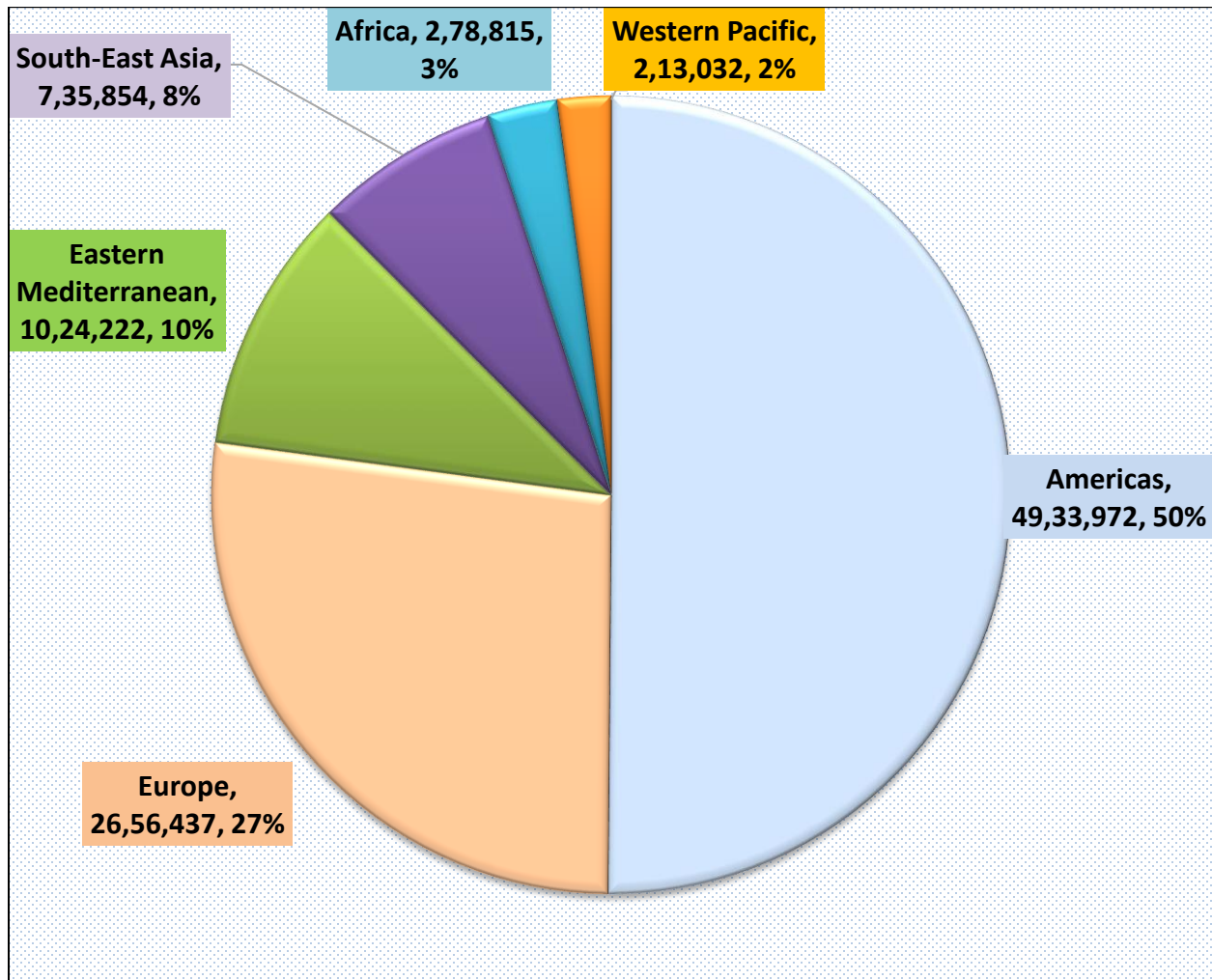
BACKGROUND: - Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus. Its first case was reported in China. On 31st December 2019, the World Health Organization (WHO) China Country Office was informed of cases of pneumonia of unknown etiology (unknown cause) detected in Wuhan City, Hubei Province of China. On 7th January 2020, Chinese authorities identified a new strain of Coronavirus as the causative agent for the disease. The virus has been renamed by WHO as Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and the disease caused by it as COVID-19. World Health Organization has assessed the risk for spread of this disease and declared the current novel coronavirus outbreak as a Public Health Emergency of International Concern (PHEIC) on 30th January, 2020. Further, on 11th March, 2020, WHO declared COVID-19 as a pandemic.

EPIDEMIOLOGY: - The etiologic agent responsible for current outbreak of SARSCoV-2 is a novel coronavirus is closely related to SARS-Coronavirus. This disease is an infectious disease, which mainly spreads by the viral load present in the respiratory droplets of infected persons. Current estimates of the incubation period of COVID range from 2-14 days. Most common symptoms include fever, fatigue, dry cough and breathing difficulty. Diagnosis is by demonstration of the virus in respiratory secretions by special molecular tests. The deaths reported are mainly among elderly population particularly those with co-morbidities. The case fatality rate is estimated to range from 2 to 3%. The disease is rapidly spreading from its origin in Wuhan City of Hubei Province of China to the rest of the World.

GLOBAL STATUS OF COVID-19 CASES

According to WHO, a total no. of 9,843,073 cases of COVID-19 have been reported worldwide till 28.06.2020. The distribution of COVID-19 cases in WHO Regions, represent that Americas Region is having highest share followed by Europe Region, Eastern Mediterranean Region, South-East Asia Region, Africa Region and Western Pacific Region (Figure No.1). On analyzing the Region wise trend of COVID-19 spread, it is estimated that the burden of this disease has been shifted to Americas and Europe Regions from South-East Asia Region. Further, the worldwide cumulative trends show that the number of patients of this disease are increasing day by day.

Figure No. 1: WHO Region Wise distribution of COVID-19 Patients (as on 28.06.2020)



Source – World Health Organisation (WHO)

According to WHO, on 28.06.2020, the mostly affected countries were United States of America, Brazil, Russian Federation, **India**, The United Kingdom, Peru, Chile, Spain, Italy, Iran, Mexico, Pakistan, etc.

COVID-19 is also causing deaths worldwide. Since its inception, till 28.06.2020, total 495,760 deaths were reported by WHO. According to WHO, till 28.06.2020, highest deaths of COVID-19 patients occurred in United States of America followed by Brazil, The United Kingdom, Italy, France, Spain, Mexico, **India**, Iran, Belgium, Russian Federation, Germany, etc.

On global scenario, India is having 4th ranking in overall case load of COVID-19. However, on the basis of COVID-19 related mortality indicator, India internationally stands at 8th position.

STATUS OF COVID-19 CASES IN INDIA

India reported the first confirmed case of the coronavirus infection on 30.01.2020 in the state of Kerala. The affected had a travel history from Wuhan, China. No significant rise in cases was seen in the rest of February. On 04.03.2020, 22 new cases came to light, including those of an Italian tourist group with 14 infected members. The transmission escalated during March month, after several cases were reported all over the country, most of which were linked to people with a travel history to affected countries. Further, on 31.03.2020, a Tablighi Jamaat religious congregation event that took place in Delhi in early March month emerged as a new virus hotspot after numerous cases across the country were traced back to the event.

On 28.06.2020, total 528,859 cases were confirmed in India. As a consequence of this disease, deaths have been reported in India. The first death was reported on 12th March, 2020, a 76-year-old man who had returned from Saudi Arabia, became the first victim of the virus in the country. As on 28.06.2020, the death toll crossed to 16,095. However, on comparing the mortality percentage with International statistics, Indian scenario was observed comparatively better as represented in Table No. 1.

Table No. 1: Comparison of COVID-19 Cases and Deaths (as on 28.06.2020)

Variables	World*	India#
Total Cases	98,43,073	5,28,859
Total Deaths	4,95,760	16,095
Mortality (%)	5.04%	3.04%

Source – *World Health Organisation (WHO) & #Ministry of Health and Family Welfare (MOHFW)

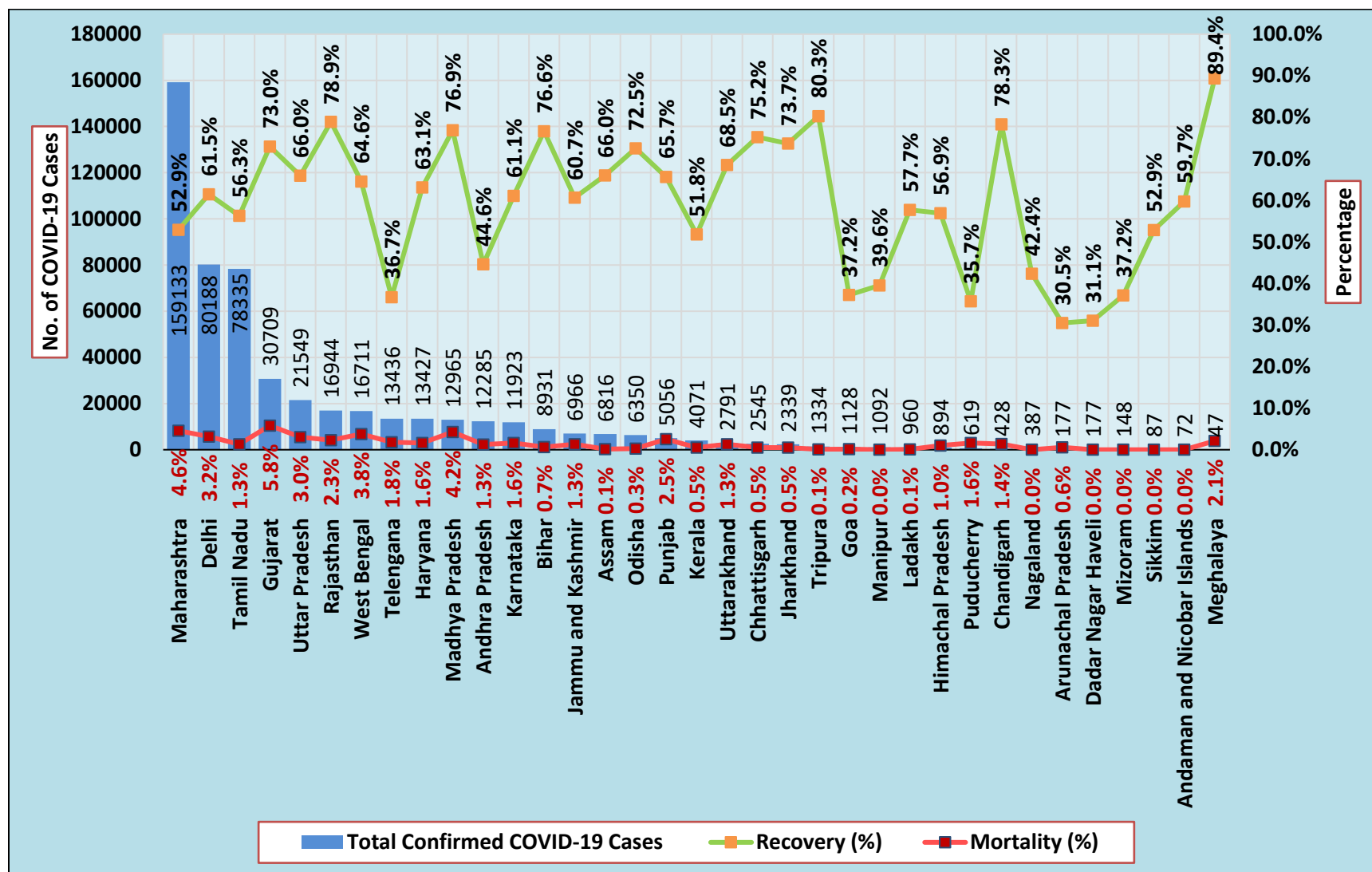
The number of COVID-19 cases are increasing continuously since the inception of first case. On dated 28.06.2020, Maharashtra, Delhi, Tamil Nadu, Gujarat, Uttar Pradesh, Rajasthan, West Bengal, Telengana, **Haryana**, Madhya Pradesh, etc. were emerged as most affected states in India according to the MOHFW. COVID-19 cases related mortality pattern of Indian states shows that the states like Maharashtra, Delhi, Gujarat, Tamil Nadu, Uttar Pradesh, West Bengal, Madhya Pradesh, Rajasthan, Telangana, **Haryana**, etc. had a large portion of deaths in India. As per MoHFW, Haryana is having 9th ranking in overall case load of COVID-19 in India. However, on the basis of COVID-19 related mortality indicator, Haryana stands at 10th position in India.

Table No. 2: State Wise Distribution of COVID-19 Cases & Death in India (as on 28.06.2020)

Name of State / UT	Population (As per census 2011)	Total Confirmed COVID-19 Cases	Cured / Discharged / Migrated	Deaths	Active Cases	Recovery (%)	Mortality (%)	Total Case Per Million Population	Active Case Load Per Million Population
Andaman and Nicobar Islands	3,80,581	72	43	0	29	59.7%	0.0%	189	76
Andhra Pradesh	4,96,70,000	12285	5480	157	6648	44.6%	1.3%	247	134
Arunachal Pradesh	13,83,727	177	54	1	122	30.5%	0.6%	128	88
Assam	3,12,05,576	6816	4500	9	2307	66.0%	0.1%	218	74
Bihar	10,40,99,452	8931	6843	59	2029	76.6%	0.7%	86	19
Chandigarh	10,55,450	428	335	6	87	78.3%	1.4%	406	82
Chhattisgarh	2,55,45,198	2545	1914	13	618	75.2%	0.5%	100	24
Dadar Nagar Haveli	3,43,709	177	55	0	122	31.1%	0.0%	515	355
Delhi	1,67,87,941	80188	49301	2558	28329	61.5%	3.2%	4777	1687
Goa	14,58,545	1128	420	2	706	37.2%	0.2%	773	484
Gujarat	6,04,39,692	30709	22409	1789	6511	73.0%	5.8%	508	108
Haryana	2,53,51,462	13427	8472	218	4737	63.1%	1.6%	530	187
Himachal Pradesh	68,64,602	894	509	9	376	56.9%	1.0%	130	55
Jammu and Kashmir	1,24,07,815	6966	4225	93	2648	60.7%	1.3%	561	213
Jharkhand	3,29,88,134	2339	1724	12	603	73.7%	0.5%	71	18
Karnataka	6,10,95,297	11923	7287	191	4445	61.1%	1.6%	195	73
Kerala	3,34,06,061	4071	2110	22	1939	51.8%	0.5%	122	58
Ladakh	1,33,487	960	554	1	405	57.7%	0.1%	7192	3034
Madhya Pradesh	7,26,26,809	12965	9971	550	2444	76.9%	4.2%	179	34
Maharashtra	11,23,74,333	159133	84245	7273	67615	52.9%	4.6%	1416	602
Manipur	28,55,794	1092	432	0	660	39.6%	0.0%	382	231
Meghalaya	29,66,889	47	42	1	4	89.4%	2.1%	16	1
Mizoram	10,97,206	148	55	0	93	37.2%	0.0%	135	85
Nagaland	19,78,502	387	164	0	223	42.4%	0.0%	196	113
Odisha	4,19,74,218	6350	4606	18	1726	72.5%	0.3%	151	41
Puducherry	12,47,953	619	221	10	388	35.7%	1.6%	496	311
Punjab	2,77,43,338	5056	3320	128	1608	65.7%	2.5%	182	58
Rajasthan	6,85,48,437	16944	13367	391	3186	78.9%	2.3%	247	46
Sikkim	6,10,577	87	46	0	41	52.9%	0.0%	142	67
Tamil Nadu	7,21,47,030	78335	44094	1025	33216	56.3%	1.3%	1086	460
Telangana	3,50,04,000	13436	4928	243	8265	36.7%	1.8%	384	236
Tripura	36,73,917	1334	1071	1	262	80.3%	0.1%	363	71
Uttar Pradesh	19,98,12,341	21549	14215	649	6685	66.0%	3.0%	108	33
Uttarakhand	1,00,86,292	2791	1912	37	842	68.5%	1.3%	277	83
West Bengal	9,12,76,115	16711	10789	629	5293	64.6%	3.8%	183	58
Cases Being Reassigned to States	NA	7839	0	0	7839	0.0%	0.0%	NA	NA
India	1,21,06,40,480	528859	309713	16095	203051	58.6%	3.0%	437	168

Source-MOHFW Link - <https://www.mohfw.gov.in/> (Retrieved on 28.06.2020 at 5:50 PM)

Figure No. 2: State Wise Trend of Total COVID-19 Cases, Mortality (%) and Recovery (%) in India (as on 28.06.2020)



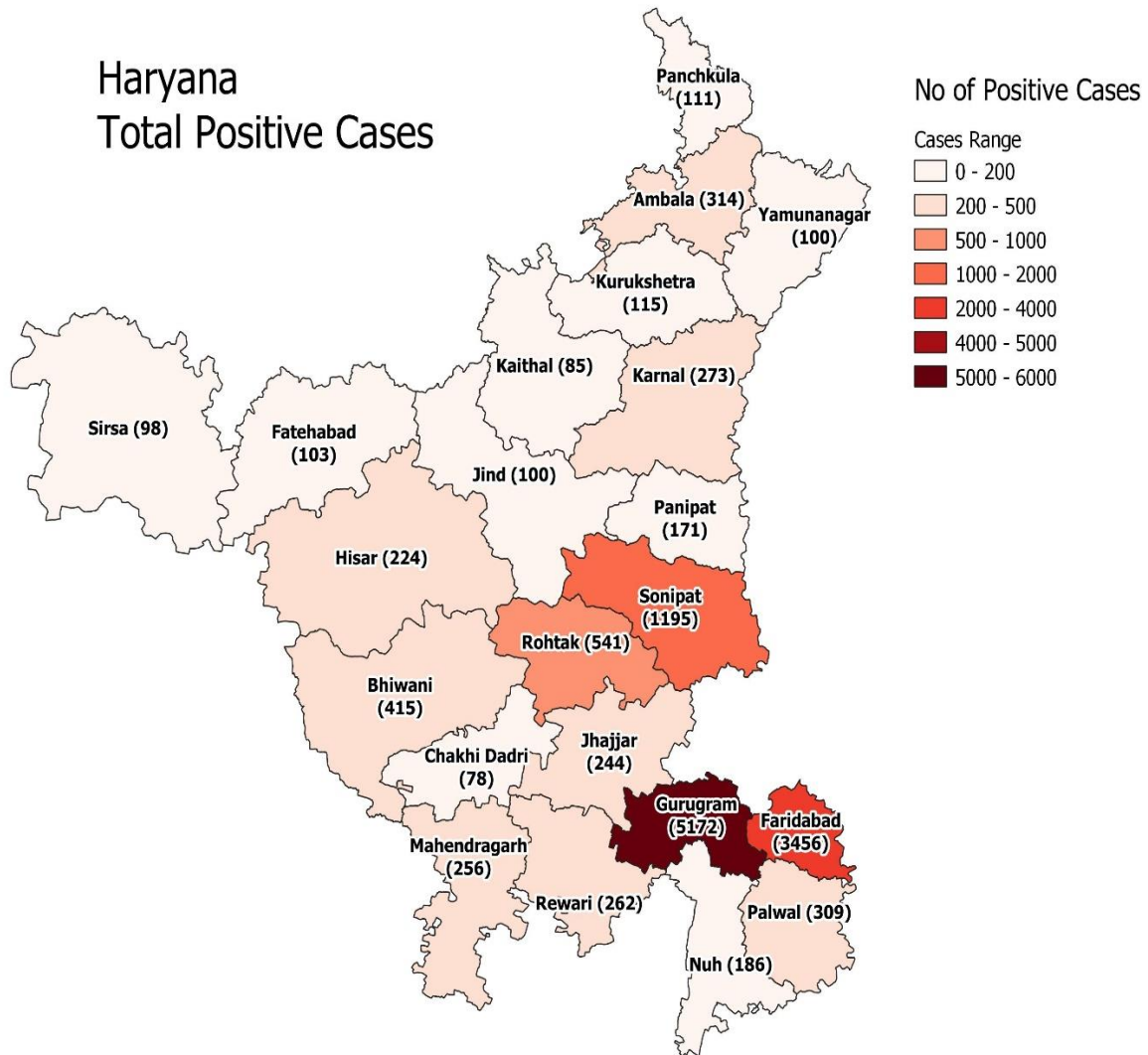
Source – MOHFW Link - <https://www.mohfw.gov.in/> (Retrieved on 28.06.2020 at 5:50 PM)

STATUS OF COVID-19 CASES IN HARYANA

First case of COVID-19 was reported in Haryana on 17.03.2020. From the date of inception of COVID-19 case in Haryana, the numbers have been increased to 13,829 on 28.06.2020. Out of these cases, 8917 have cured and 223 deaths were reported till 28.06.2020.

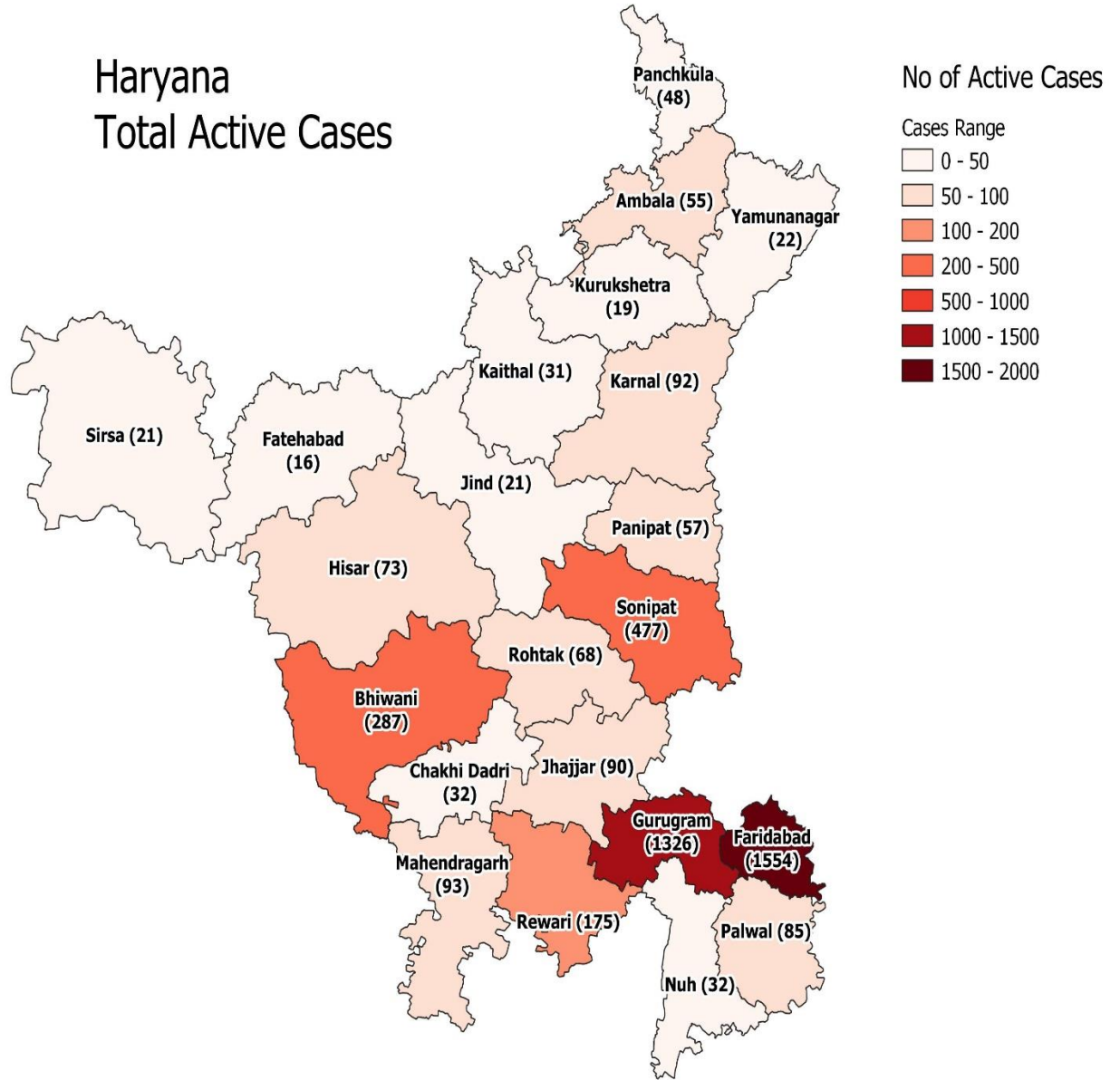
On date 28.06.2020, districts Gurugram (including 14 Italians), Faridabad, Sonipat, Rohtak, Bhiwani, Ambala, Palwal, Karnal, Rewari, Mahendergarh, Jhajjar, Hisar, Nuh and Panipat were sharing the major part of total COVID-19 cases in Haryana.

Figure No. 3: Distribution of Total COVID-19 Cases in the Districts of Haryana (as on 28.06.2020)



Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 4: Distribution of Total Active COVID-19 Cases in the Districts of Haryana (as on 28.06.2020)



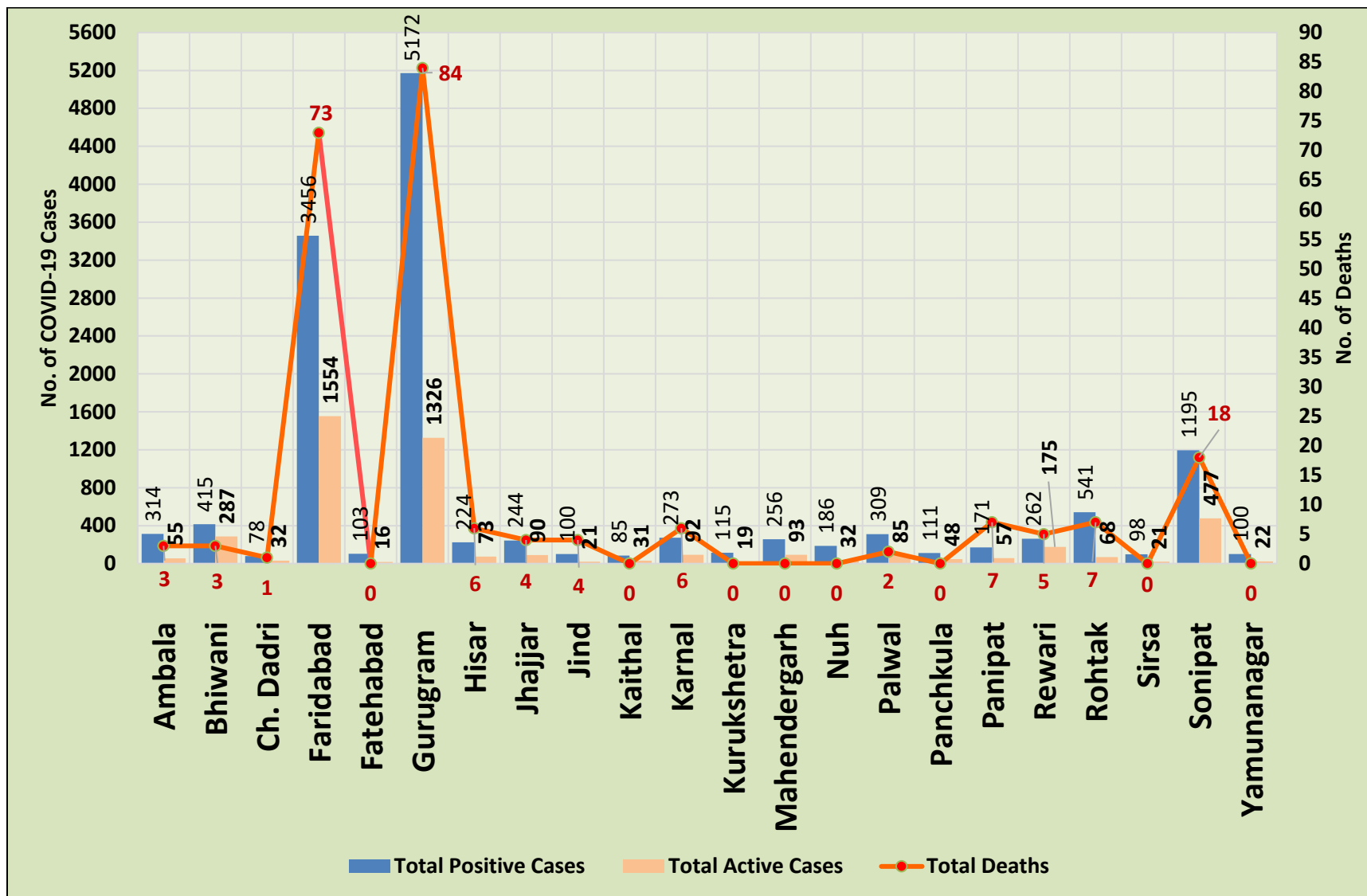
Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Table No. 3: District Wise Distribution of COVID-19 Cases in Haryana (N=13829) (as on 28.06.2020)

District	Population (Census 2011 & Website)	Total Positive Cases	Discharged / Cured	Deaths with Comorbidity	Deaths Without Comorbidity	Total Deaths	Total Active Cases	Active Case Per Lakh Population	Mortality (%)	Recovery (%)	Positive Cases Per Lakh Population
Ambala	11,28,350	314	256	3	0	3	55	5	1.0%	81.5%	28
Bhiwani	11,98,085	415	125	1	2	3	287	24	0.7%	30.1%	35
Ch. Dadri	5,02,276	78	45	0	1	1	32	6	1.3%	57.7%	16
Faridabad	18,09,733	3456	1829	50	23	73	1554	86	2.1%	52.9%	191
Fatehabad	9,42,011	103	87	0	0	0	16	2	0.0%	84.5%	11
Gurugram	15,14,432	5172	3762	49	35	84	1326	88	1.6%	72.7%	342
Hisar	17,43,931	224	145	2	4	6	73	4	2.7%	64.7%	13
Jhajjar	9,58,405	244	150	4	0	4	90	9	1.6%	61.5%	25
Jind	13,34,152	100	75	4	0	4	21	2	4.0%	75.0%	7
Kaithal	10,74,304	85	54	0	0	0	31	3	0.0%	63.5%	8
Karnal	15,05,324	273	175	3	3	6	92	6	2.2%	64.1%	18
Kurukshetra	9,64,655	115	96	0	0	0	19	2	0.0%	83.5%	12
Mahendergarh	9,22,088	256	163	0	0	0	93	10	0.0%	63.7%	28
Nuh	10,89,263	186	154	0	0	0	32	3	0.0%	82.8%	17
Palwal	10,42,708	309	222	2	0	2	85	8	0.6%	71.8%	30
Panchkula	5,61,293	111	63	0	0	0	48	9	0.0%	56.8%	20
Panipat	12,05,437	171	107	6	1	7	57	5	4.1%	62.6%	14
Rewari	9,00,332	262	82	2	3	5	175	19	1.9%	31.3%	29
Rohtak	10,61,204	541	466	3	4	7	68	6	1.3%	86.1%	51
Sirsa	12,95,189	98	77	0	0	0	21	2	0.0%	78.6%	8
Sonipat	14,50,001	1195	700	7	11	18	477	33	1.5%	58.6%	82
Yamunanagar	12,14,205	100	78	0	0	0	22	2	0.0%	78.0%	8
Foreign (USA) Returnee Haryana Citizens	NA	21	6	0	0	0	15	NA	0.0%	28.6%	NA
Haryana	2,54,17,378	13829	8917	136	87	223	4689	18	1.6%	64.5%	54

Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 5: District Wise Distribution of COVID-19 Cases in Haryana (as on 28.06.2020)



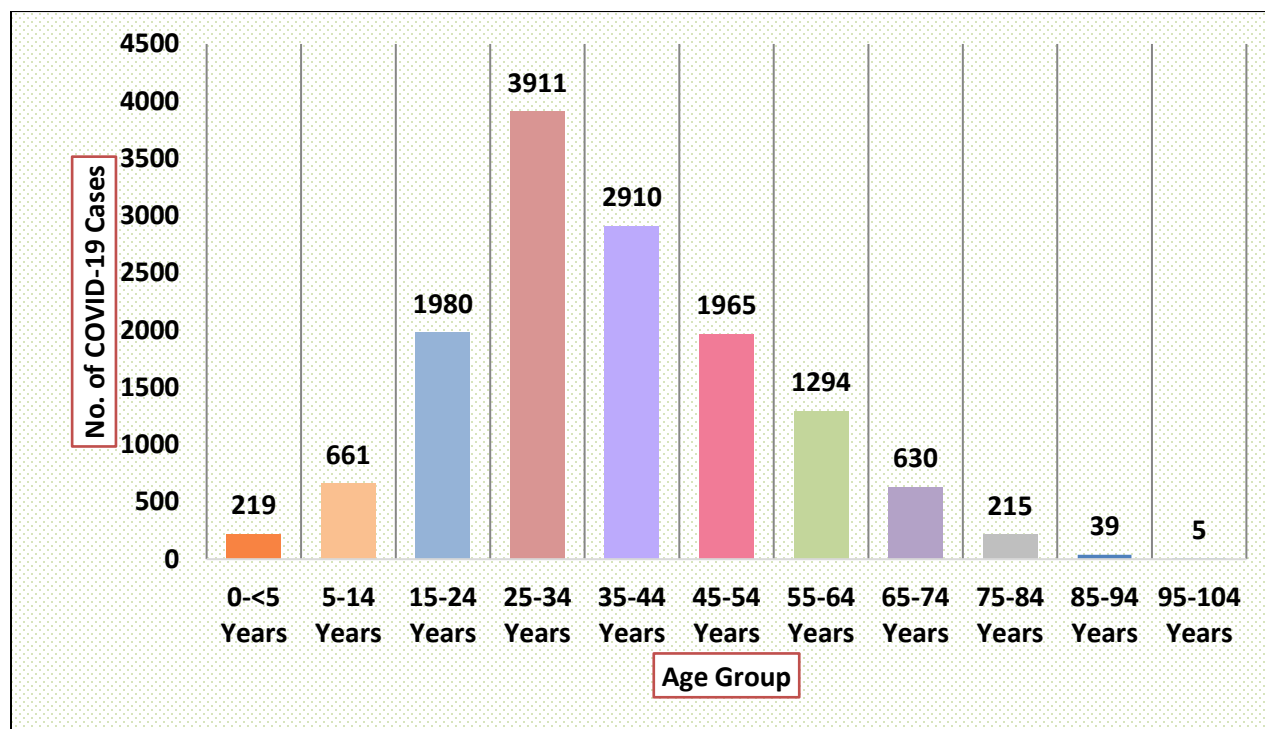
Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Table No. 4: Age Wise Distribution of COVID-19 Cases and Deaths in Haryana (as on 28.06.2020)

Age Group	No. of Cases	No. of Death	Mortality (%)
0-<5 Years	219	0	0.0%
5-14 Years	661	0	0.0%
15-24 Years	1980	6	0.3%
25-34 Years	3911	10	0.3%
35-44 Years	2910	36	1.2%
45-54 Years	1965	40	2.0%
55-64 Years	1294	41	3.2%
65-74 Years	630	55	8.7%
75-84 Years	215	28	13.0%
85-94 Years	39	7	17.9%
95-104 Years	5	0	0.0%
Total	13829	223	1.6%

Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

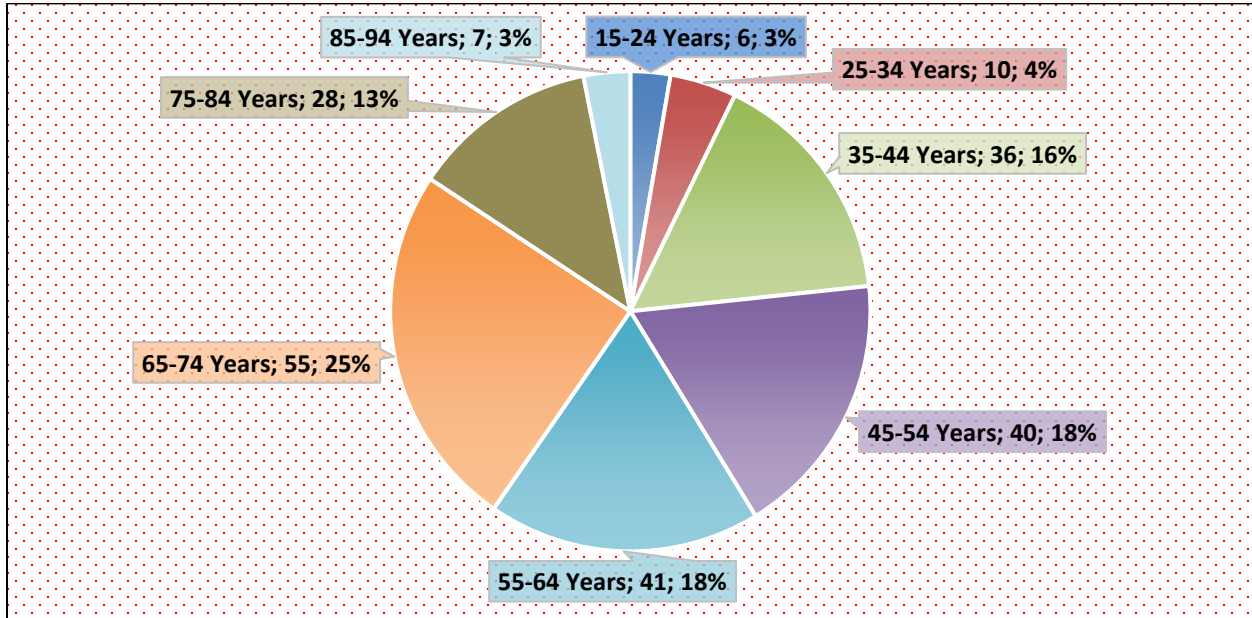
Figure No. 6: Age Wise Distribution of COVID-19 Cases in Haryana (N=13829) (as on 28.06.2020)



Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

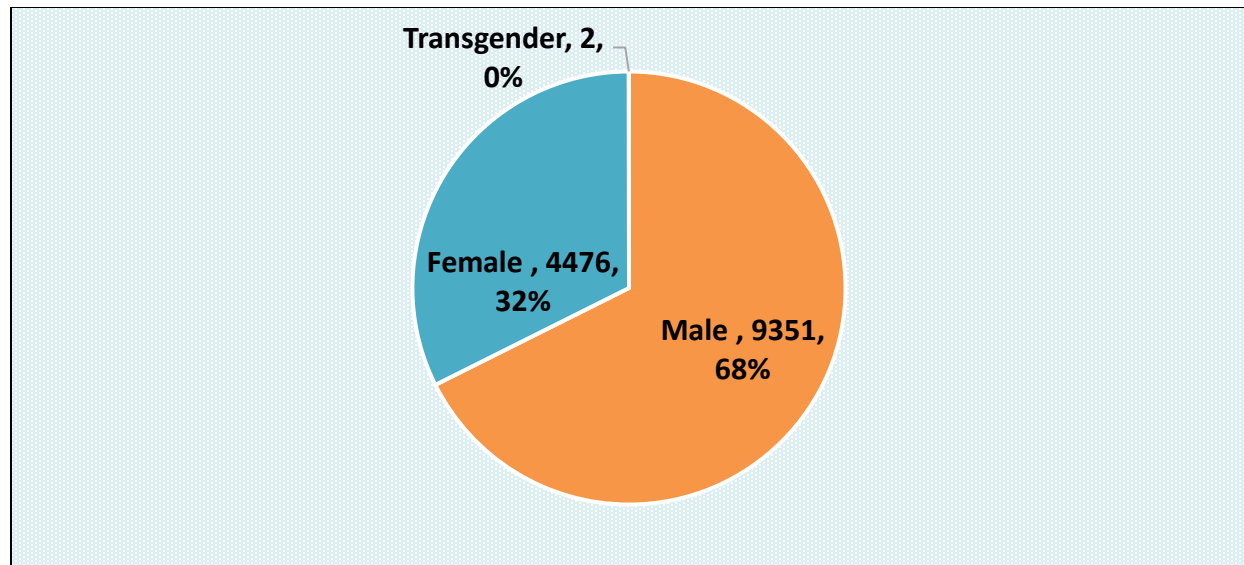
The age wise distribution of COVID-19 Cases in Haryana represent that the highest number of cases reported in Haryana belongs to age group 25-34 years followed by age groups 35-44 years, 15-24 years, 45-54 years, 55-64 years, 5-14 years, 65-74 years, 0-<5 years, 75-84 years, 85-94 years and 95-104 years.

Figure No. 7: Age Wise Distribution of COVID-19 Deaths in Haryana (N=223) (as on 28.06.2020)



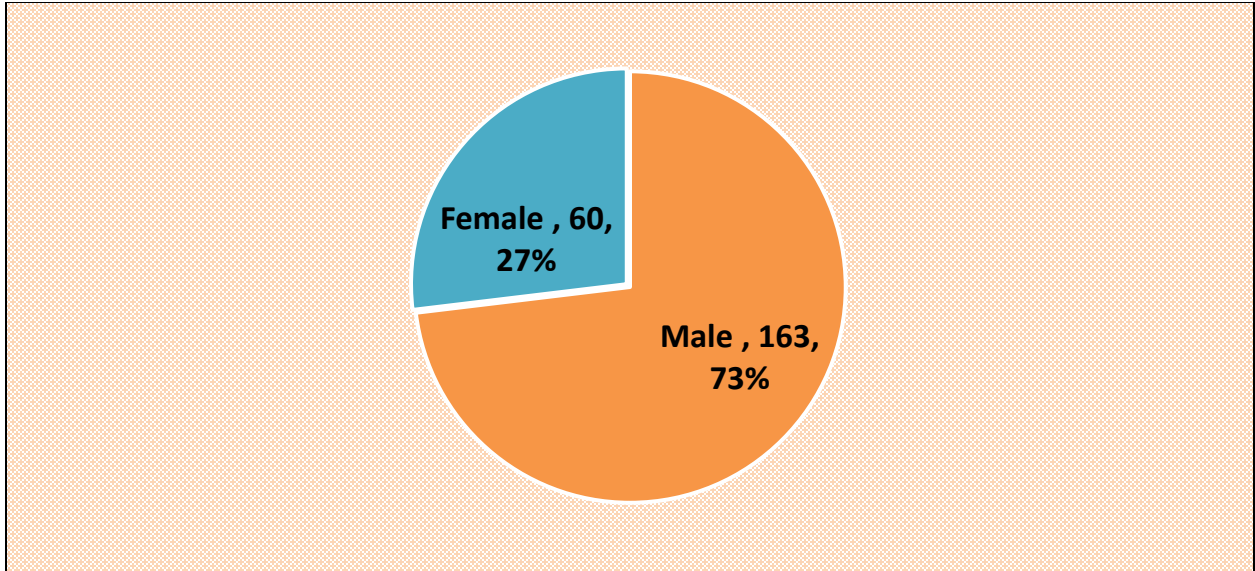
Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 8: Gender Wise Distribution of COVID-19 Cumulative Cases in Haryana (N=13829) (as on 28.06.2020)



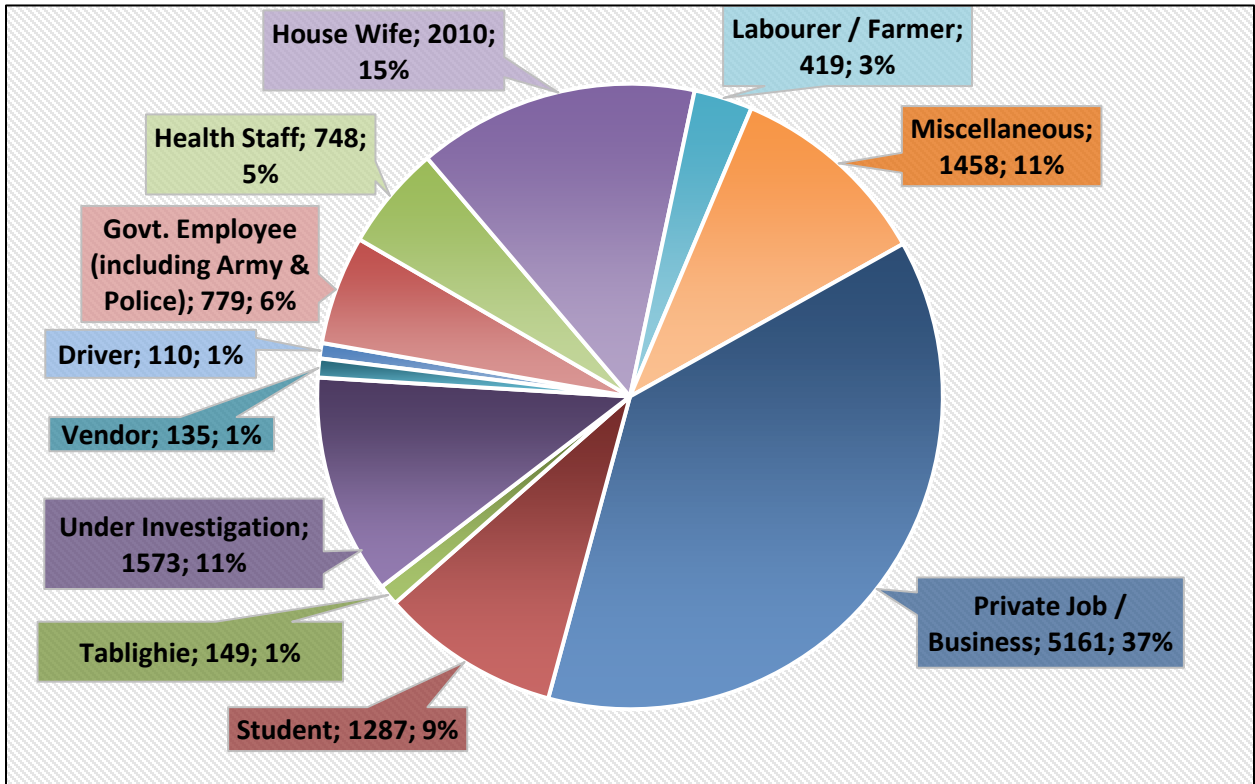
Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 9: Gender Wise Distribution of COVID-19 Deaths in Haryana (N=223) (as on 28.06.2020)



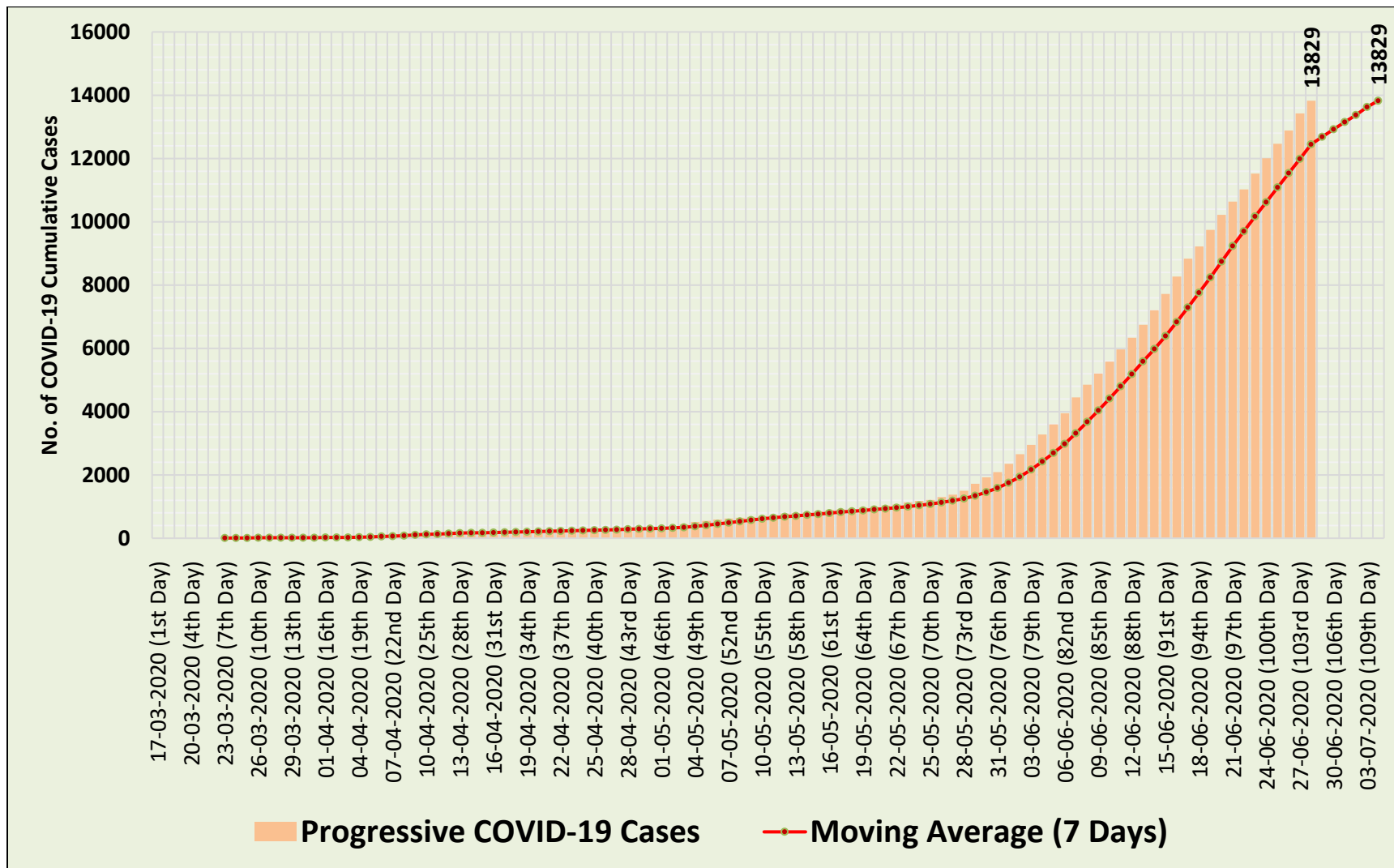
Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 10: Occupation Wise Distribution of COVID-19 Cases in Haryana (N=13829) (as on 28.06.2020)



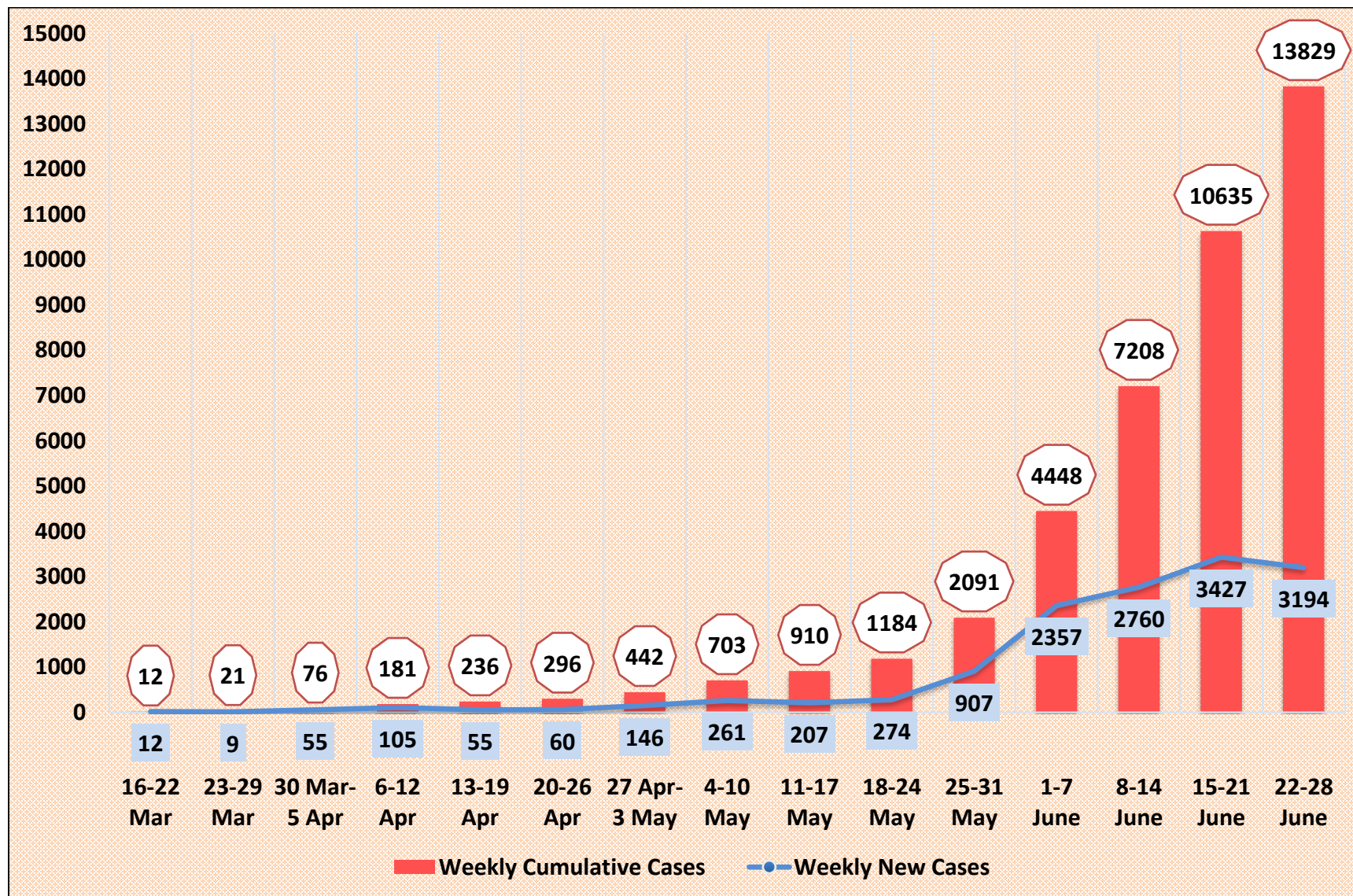
Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 11: Date and Day Wise Trend of Cumulative Cases of COVID-19 and Moving Average (7 Days) in Haryana since the Inception of First Case on 17.03.2020 (as on 28.06.2020)



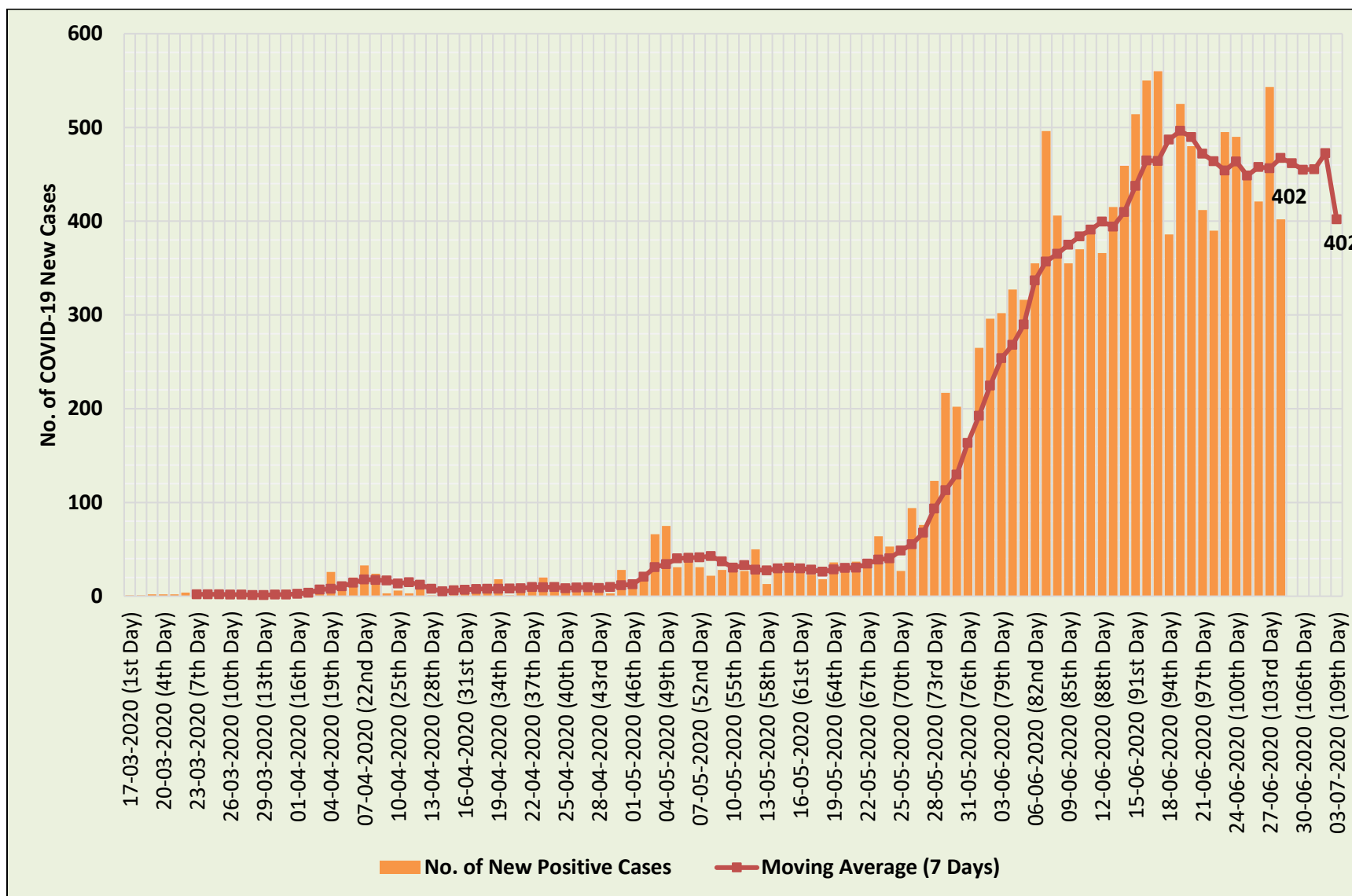
Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 12: Weekly Trend of COVID-19 Cumulative and New Cases in Haryana (as on 28.06.2020)



Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 13: Date and Day Wise Trend of COVID-19 New Cases and Moving Average (7 Days) in Haryana (as on 28.06.2020)



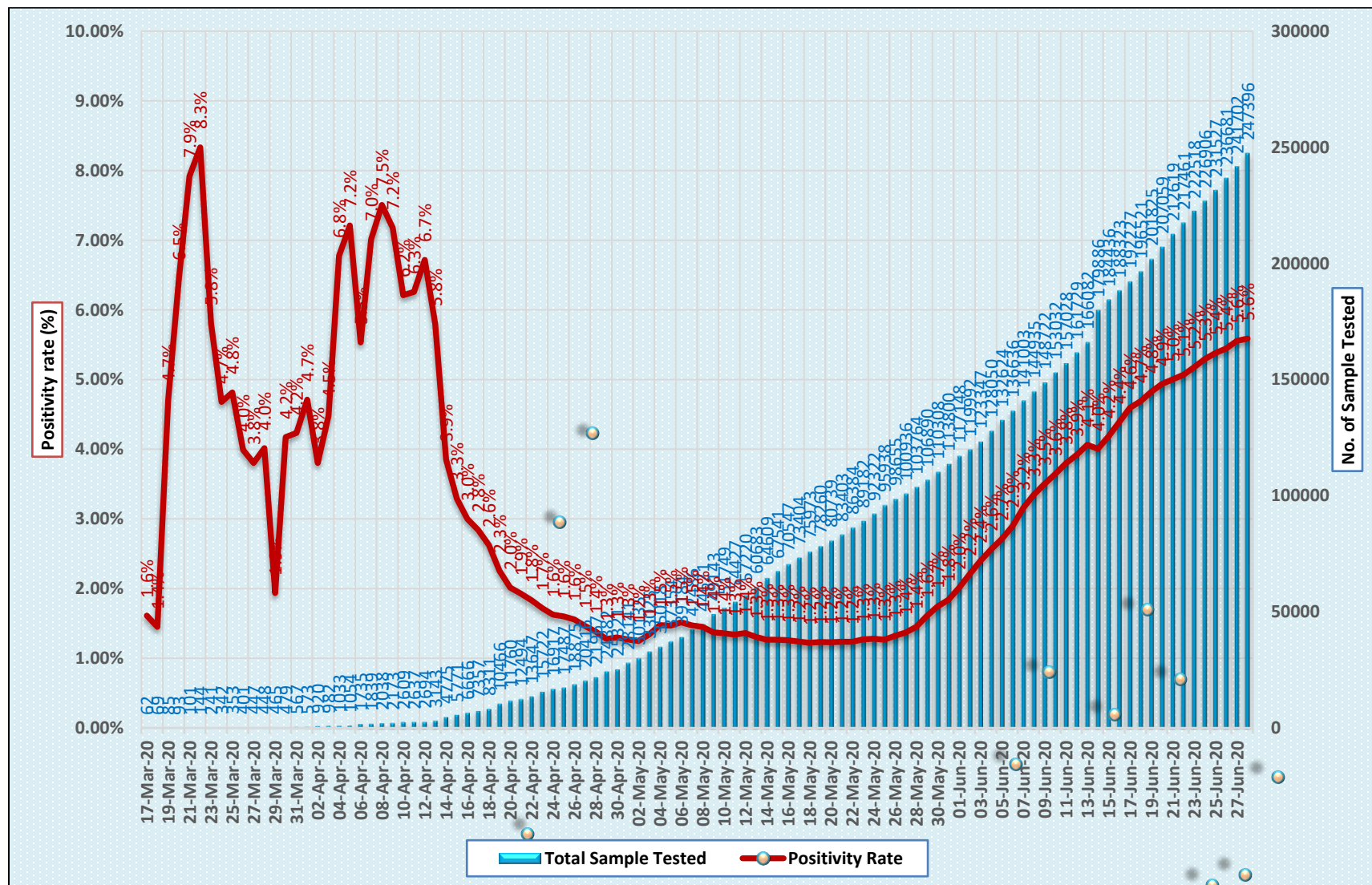
Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Table No. 5: COVID-19 Testing Status in Haryana (as on 28.06.2020)

District	Total Samples Collected	Positive Samples	Negative Samples	Awaited Samples	Total Samples Tested	Positivity Rate (%)	Samples Collected Per Lakh Population	Samples Tested Per Lakh Population
Ambala	14009	314	13425	270	13739	2.3	1242	1218
Bhiwani	7272	415	6617	240	7032	5.9	607	587
Charkhi Dadri	4712	78	4508	126	4586	1.7	938	913
Faridabad	22365	3456	18672	237	22128	15.6	1236	1223
Fatehabad	6445	103	6141	201	6244	1.6	684	663
Gurugram	38909	5172	33404	333	38576	13.4	2569	2547
Hisar	13487	224	13015	248	13239	1.7	773	759
Jhajjar	6295	244	5829	222	6073	4.0	657	634
Jind	8777	100	8471	206	8571	1.2	658	642
Kaithal	8374	85	8066	223	8151	1.0	779	759
Karnal	16812	273	16265	274	16538	1.7	1117	1099
Kurukshetra	10453	115	10100	238	10215	1.1	1084	1059
Mahendergarh	6400	256	5965	179	6221	4.1	694	675
Nuh	7686	186	7336	164	7522	2.5	706	691
Palwal	8699	309	8178	212	8487	3.6	834	814
Panchkula	9068	132	8730	206	8862	1.5	1616	1579
Panipat	7904	171	7519	214	7690	2.2	656	638
Rewari	4674	262	4290	122	4552	5.8	519	506
Rohtak	18264	541	17440	283	17981	3.0	1721	1694
Sirsa	6556	98	6225	233	6323	1.5	506	488
Sonipat	18463	1195	17022	246	18217	6.6	1273	1256
Yamunanagar	6732	100	6349	283	6449	1.6	554	531
Haryana	252356	13829	233567	4960	247396	5.6	993	973

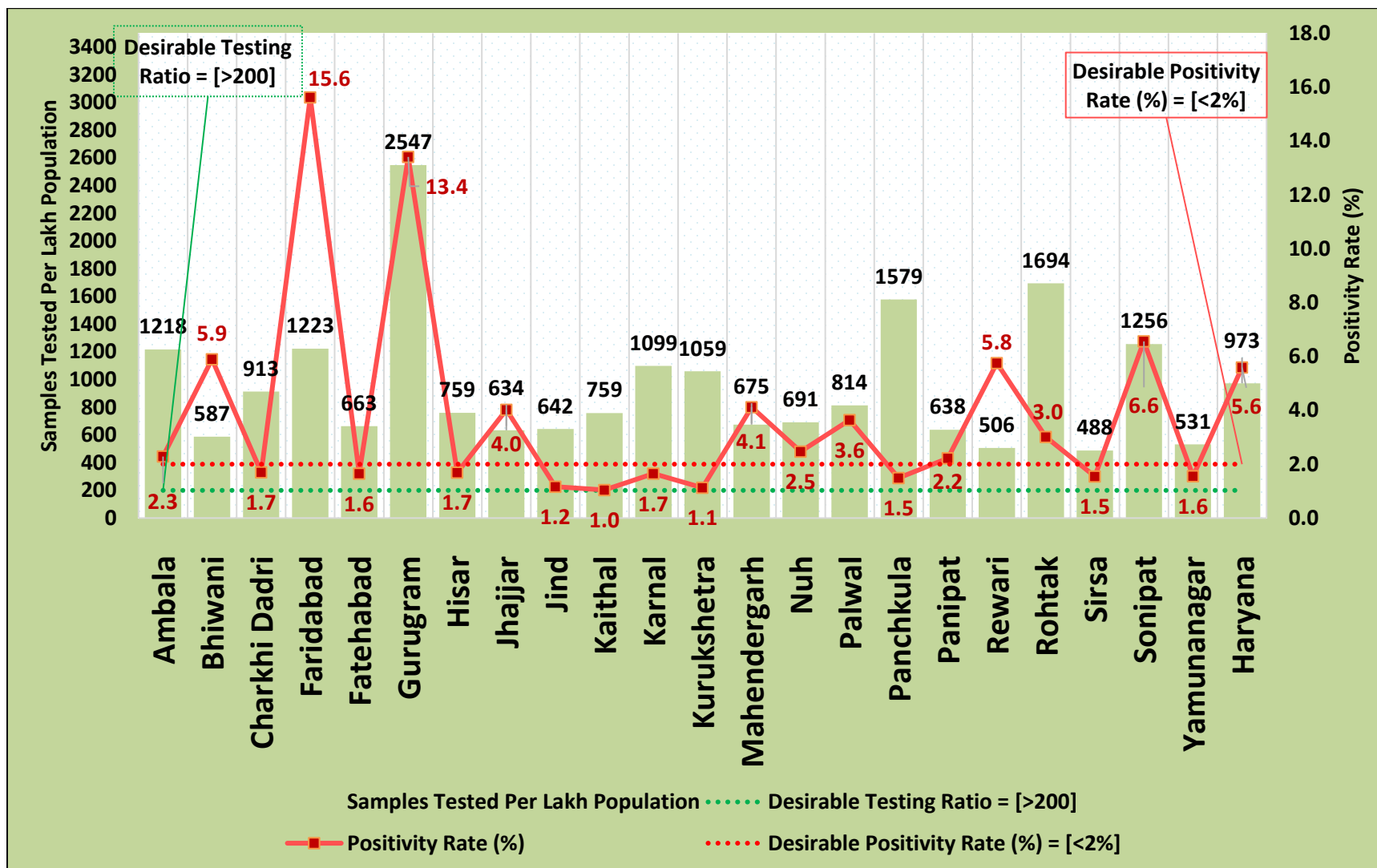
Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 14: Date Wise Trend of Positivity Rate and Sample Tested in Haryana (as on 28.06.2020)



Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 15: District Wise Comparison of Positivity Rate (%) and Samples Tested Per Lakh Population as per the Census 2011 & Official Website of New Districts (as on 28.06.2020)



Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Figure No. 16: District Wise Distribution of Containment Zones and Person Found Symptomatic ILI / SARI in Haryana (as on 28.06.2020)

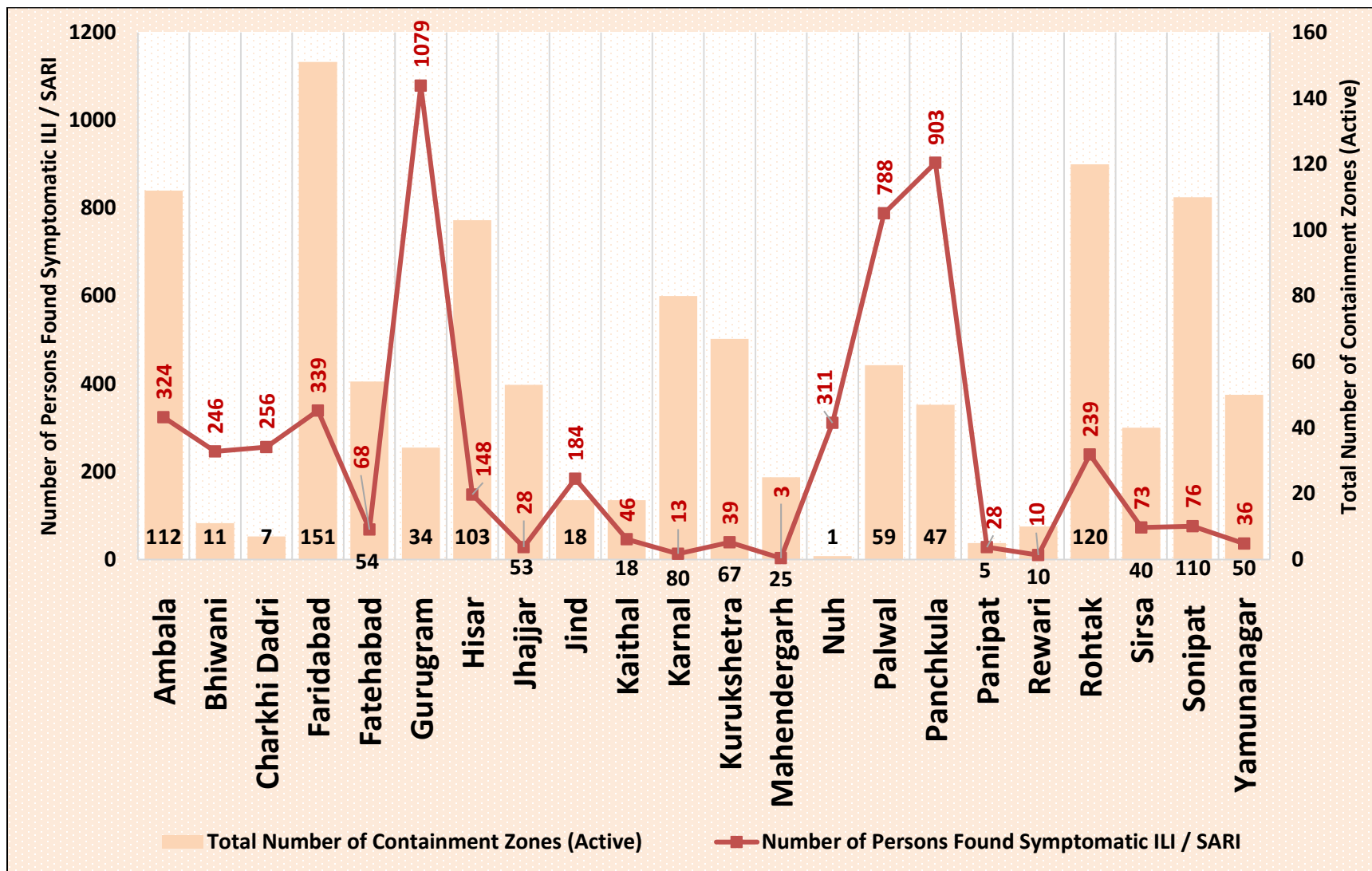


Table No. 6: District Wise Distribution of Containment Zones in Haryana (as on 28.06.2020)

Districts	Total Number of Containment Zones (Active)	Total Households in Containment Zone	Total Population in Containment Zone	Number of Persons Found Symptomatic ILI / SARI
Ambala	112	8545	44724	324
Bhiwani	11	12841	64855	246
Charkhi Dadri	7	6913	39941	256
Faridabad	151	68279	307255	339
Fatehabad	54	1503	5143	68
Gurugram	34	46141	207603	1079
Hisar	103	3290	15674	148
Jhajjar	53	11674	53607	28
Jind	18	13726	73848	184
Kaithal	18	1104	5314	46
Karnal	80	8327	39668	13
Kurukshetra	67	3522	19725	39
Mahendergarh	25	2532	12870	3
Nuh	1	854	4419	311
Palwal	59	36763	245714	788
Panchkula	47	2846	11425	903
Panipat	5	7406	34760	28
Rewari	10	15783	75791	10
Rohtak	120	19318	93188	239
Sirsa	40	1805	8804	73
Sonipat	110	101769	484339	76
Yamunanagar	50	3348	17315	36
Total	1175	378289	1865982	5237

Table No. 7: Health Facility Wise Distribution of Critical COVID-19 Patients in Haryana (as on 28.06.2020)

Health Facility / Medical College	Patient on Oxygen Support	Patient on Ventilator	Total
Pt B.D. Sharma PGIMS, Rohtak	18	0	18
BPSGMC, Khanpur Kalan, Sonapat	5	0	5
SHKMGMC, Nalhar, Nuh	2	0	2
SGT Medical College & Hospital & Research Institute, Budhera, Gurugram	3	0	3
ESIC Medical College & Hospital, Faridabad	18	9	27
Al-Falah Medical College, Faridabad	4	0	4
MM Institute of Medical Science and Research, Mullana, Ambala	2	0	2
World College of Medical Science, Jhajjar	1	0	1
Mederor Hospital, Manesar, Gurugram	0	3	3
Fortis Hospital, Gurugram	0	3	3
Medanta Hospital, Gurugram	0	4	4
Total	5	19	72

Source- Media Bulletin on COVID-19 in Haryana (Dated-28.06.2020), Health Department, Govt. of Haryana

Table No. 8: Category Wise Distribution of COVID-19 Facilities in Haryana (as on 28.06.2020) Source- S3 Portal, GoI

Category	No of Facilities	Total Isolation Beds	Beds for Confirmed Cases	Beds for Suspected Cases	O2 Supported Beds	Total ICU Beds	No of Ventilators	O2 Manifold Available	Available PPEs	Available N95	Compatible to B.W.M. System
Cat. I - DCH	42	3895	2352	1543	2435	553	280	40	30210	104711	42
Cat. II - DCHC	194	5620	2659	2961	2888	1519	755	120	29954	75932	194
Cat. III - DCCC	442	39759	11230	28529	NA	NA	NA	NA	5174	7115	425
Total	678	49274	16241	33033	5323	2072	1035	160	65338	187758	661

Table No. 9: Status of Districts of Haryana According to Zoning Parameters Recommended by MOHFW (as on 28.06.2020)

District	Population (Census 2011 & Website)	Total Cases	Total Active Cases	Active Case Per Lakh Population	Case Fatality Rate (%)	Testing Ratio (No. of Sample Tested Per Lakh Population)	Confirmation (%) / Positivity Rate (%)	Doubling Rate (7 days) = $7/\log_2(N7/N1)$
Ambala	1128350	314	55	5	1.0%	1218	2.3	46.5
Bhiwani	1198085	415	287	24	0.7%	587	5.9	9.1
Ch. Dadri	502276	78	32	6	1.3%	913	1.7	18.5
Faridabad	1809733	3456	1554	86	2.1%	1223	15.6	13.6
Fatehabad	942011	103	16	2	0.0%	663	1.6	46.5
Gurugram	1514432	5172	1326	88	1.6%	2547	13.4	37.0
Hisar	1743931	224	73	4	2.7%	759	1.7	50.9
Jhajjar	958405	244	90	9	1.6%	634	4.0	20.3
Jind	1334152	100	21	2	4.0%	642	1.2	50.9
Kaithal	1074304	85	31	3	0.0%	759	1.0	25.5
Karnal	1505324	273	92	6	2.2%	1099	1.7	26.6
Kurukshetra	964655	115	19	2	0.0%	1059	1.1	71.7
Mahendergarh	922088	256	93	10	0.0%	675	4.1	19.7
Nuh	1089263	186	32	3	0.0%	691	2.5	16.6
Palwal	1042708	309	85	8	0.6%	814	3.6	30.9
Panchkula	561293	111	48	9	0.0%	1579	1.5	32.7
Panipat	1205437	171	57	5	4.1%	638	2.2	19.7
Rewari	900332	262	175	19	1.9%	506	5.8	11.2
Rohtak	1061204	541	68	6	1.3%	1694	3.0	29.3
Sirsa	1295189	98	21	2	0.0%	488	1.5	37.0
Sonipat	1450001	1195	477	33	1.5%	1256	6.6	15.1
Yamunanagar	1214205	100	22	2	0.0%	531	1.6	24.4
Foreign (USA) Returnee Haryana Citizens	NA	21	15	NA	0.0%	NA	NA	NA
Haryana	25417378	13829	4689	18	1.6%	973	5.6	21.7

Glossary of Formula Used: -

- ❖ **Active Case Load Per Lakh Population** = (No. of Active Cases / Total Population) *100000
- ❖ **Doubling Rate (7 days)** = $7 / \log_2 (N_7/N_1)$
- ❖ **Growth Rate** = $\{(Current\ Value - Previous\ Value) / Current\ Value\} * 100$
- ❖ **Mortality (%)** = (No. of Deaths / Total Confirmed Cases) *100
- ❖ **Moving Average** = Average (No. of Cumulative Cases on N1: No. of Cumulative Cases on N7)
- ❖ **Positivity Rate (%)** = (No. of Positive Cases / Total Sample Tested) *100
- ❖ **Positive Cases Per Lakh Population** = (No. of Positive Cases / Total Population) *100000
- ❖ **Recovery (%)** = (No. of Cured Cases / Total Confirmed Cases) *100
- ❖ **Sample Collected Per Lakh Population** = (Total Sample Collected / Total Population) *100000
- ❖ **Total Sample Tested** = Sum (No. of Positive Cases + No. of Negative Cases)
- ❖ **Testing Ratio / Sample Tested Per Lakh Population** = (Total Sample Collected / Total Population) *100000

Bibliography:-

- Adhikari, S. P., Meng, S., Wu, Y. J., Mao, Y. P., Ye, R. X., Wang, Q. Z., . . . Zhou, H. (2020, March). Epidemiology, causes, clinical manifestation and diagnosis, prevention and control of coronavirus disease (COVID-19) during the early outbreak period: a scoping review. *Infectious Diseases of Poverty*, 9(29). doi:<https://doi.org/10.1186/s40249-020-00646-x>
- Coronavirus (COVID-19)*. (2020, June 28). Retrieved June 28, 2020, from World Health Organization: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019>
- Coronavirus (COVID-19)*. (2020, June 28). Retrieved June 28, 2020, from www.covid19.who.int: <https://covid19.who.int/>
- COVID-19 INDIA*. (2020, June 28). Retrieved June 28, 2020, from www.mohfw.gov.in: <https://www.mohfw.gov.in/>
- Guo, Y. R., Cao, Q. D., Hong, Z. S., Tan, Y. Y., Chen, S. D., Jin, H. J., . . . Yan, Y. (2020, March). The origin, transmission and clinical therapies on coronavirus disease 2019 (COVID-19) outbreak – an update on the status. *Military Medical Research*, 7(11). doi:<https://doi.org/10.1186/s40779-020-00240-0>
- Health Department, Govt. of Haryana. (2020, June 28). *Media Bulletin on COVID-19 in Haryana*. Retrieved June 28, 2020
- Prasad, R., Perappadan, B. S., Shelar, J., & Koshy, J. (2020). *The Pandemic Notebook - A handy guide from The Hindu on understanding the coronavirus*. (P. J. George, Ed.) Retrieved April 28, 2020, from www.creatives.thehindu.com: https://creatives.thehindu.com/covid_19_ebook.pdf
- Singhal, T. (2020, March). A Review of Coronavirus Disease-2019 (COVID-19). *Indian Journal of Pediatrics*, 27(4), 281-286. Retrieved April 28, 2020, from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7090728/>
- Wikipedia contributors. (2020, April 28). *2020 Coronavirus Pandemic in India*. (Wikipedia, The Free Encyclopedia) Retrieved April 28, 2020, from en.wikipedia.org: https://en.wikipedia.org/wiki/2020_coronavirus_pandemic_in_India#cite_note-mohfw-5