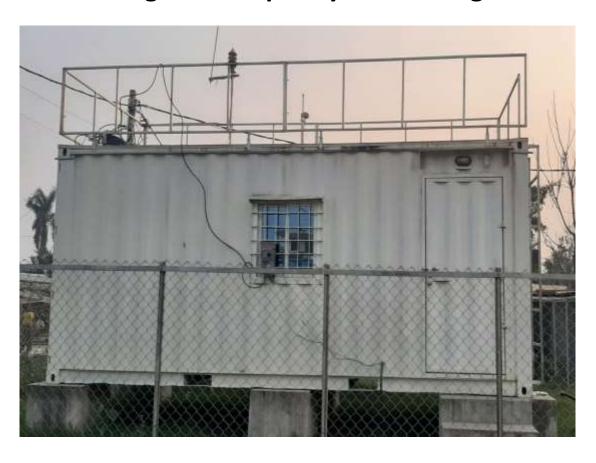


Government of Nepal Ministry of Forest and Environment Department of Environment Babarmahal, Kathmandu

Air quality status of Nepal 2016-2020

Volume XXII

Dhangadhi air quality monitoring station



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First online edition	
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1. Dhangadhi Air Quality Monitoring Station

Address: Old Airport (now Khulla Manch)

o Location: <u>28.704133</u> latitude, <u>80.5945</u> longitude

Surrounding of the station

East: Homeless shelter (Sukumbasi basti)

West: Khulla Manch

North: Sahidgate, Campus Road (Metallic Road)

South: Homeless shelter (Sukumbasi basti)

Establish year: 2020 (2077)

o Brief introduction of the instruments installed in the station

1. PM instrument- GRIMM EDM 180

2. Met sensor luffth WS 700

3. Data logging and data transmission and power backup system

2. Air Quality Status of Dhangadhi Station (2000)

2.1 Air quality status, 2000

2.1.1 Annual average of PM₁, PM_{2.5}, PM₁₀ and TSP

The annual average of PM₁, PM_{2.5}, PM₁₀ and TSP for the Dhangadhi station is shown in the figure below.

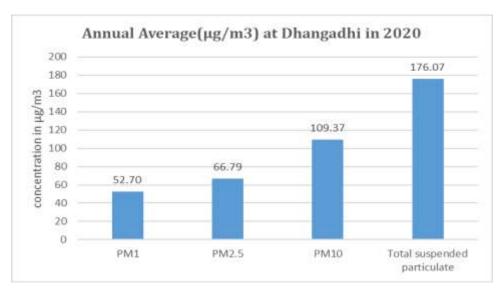


Figure 1: Annual average of PM₁, PM_{2.5}, PM₁₀ and TSP

2.1.2 Temporal variation of PM_1

Annual average of PM₁

Annual PM_1 average for Dhangadhi Station was observed to be 52.7 μ g/m³. Histogram of hourly average PM_1 is shown in the figure below.

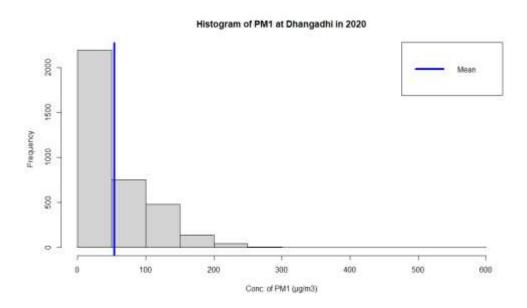


Figure 2: Histogram of PM₁

Daily average of PM₁

Daily average concentration of PM₁ was high during December and low during July-August.

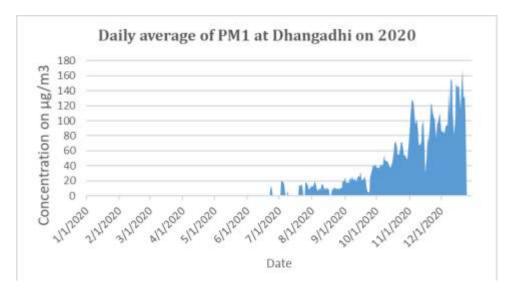


Figure 3: Daily average of PM₁

Monthly average of PM₁

The highest and the lowest monthly average of PM_1 was found during December (119.04 $\mu g/m^3$) and August (11.12 $\mu g/m^3$) respectively.

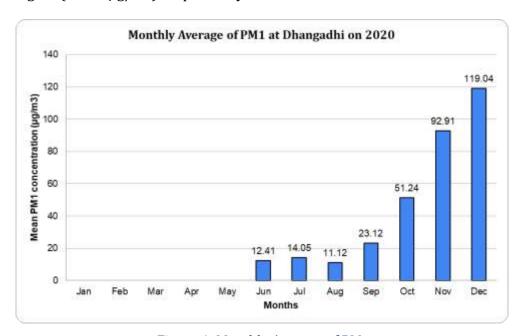


Figure 4: Monthly Average of PM₁

Monthly variation of PM₁

Variation in concentration of PM₁ was found more during December and low during June.

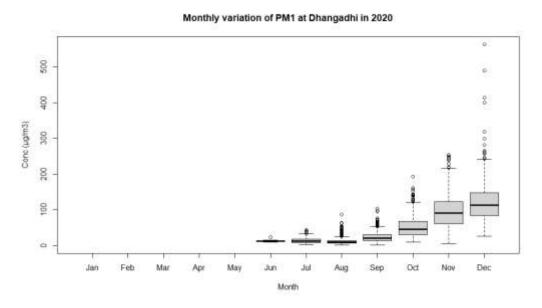


Figure 5: Monthly Variation of PM₁

Seasonal variation of PM₁

Ambient concentration of average PM_1 during monsoon (June-September), and post-monsoon (October-November) is shown in the figure below. The concentration of PM_1 was found higher during post monsoon (55.76 μ g/m³) than monsoon season (12.53 μ g/m³) **Error! Reference source not found.**

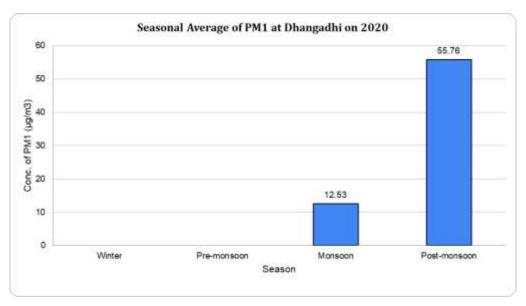


Figure 6: Seasonal Variation of PM₁

Diurnal variation of PM₁

The diurnal variation of average PM_1 concentrations can be shown in the figure. The variation in PM_1 concentration was high at around 6 pm and low at 2 pm.

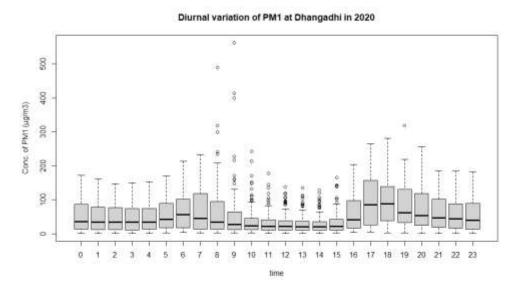


Figure 7: Diurnal Variation of PM₁

2.1.3 Temporal variation of PM_{2.5}

Annual average of PM_{2.5}

The annual average of PM2.5 at Dhangadhi station was found to be $66.79~\mu g/m^3$. Histogram of hourly average PM2.5 is shown in the figure below.

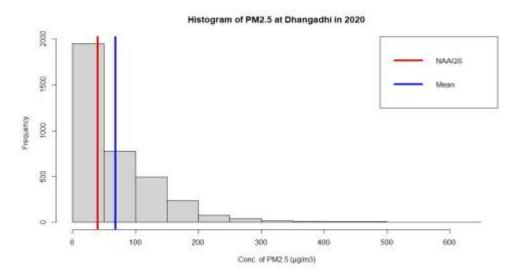


Figure 8: Histogram of PM_{2.5}.

Daily average of PM_{2.5}

Daily average concentration of $PM_{2.5}$ was high during December and was found low during August.

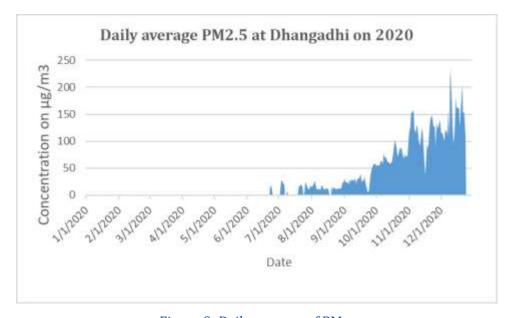


Figure 9: Daily average of PM_{2.5}

Monthly average of PM_{2.5}

The highest and the lowest monthly average of PM_{2.5} was found during December (142.19 $\mu g/m^3$) and August (14.42 $\mu g/m^3$) respectively.

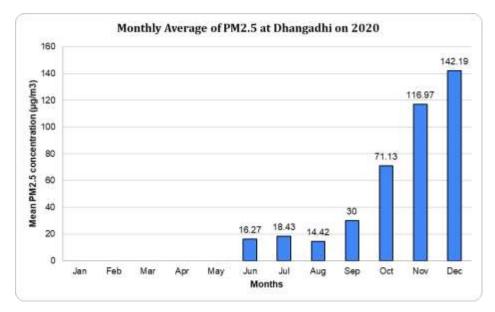


Figure 10: Monthly Average of PM_{2.5}

Monthly variation of PM_{2.5}

Variation in concentration of $PM_{2.5}$ was found more during December whereas low during June.

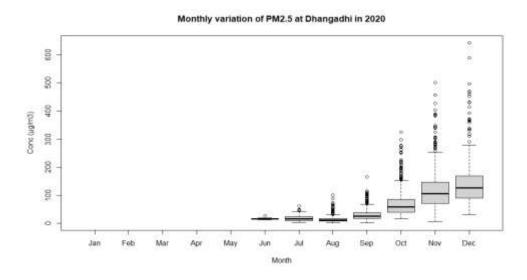


Figure 11: Monthly Variation of PM_{2.5}

Seasonal variation of PM_{2.5}

Ambient concentration of average PM_{2.5} with monsoon (June-September) and post-monsoon (October-November) can be shown in the figure below. The highest concentration of PM_{2.5} was found during post-monsoon (72.7 μ g/m³) and the lowest concentration was fond during monsoon (16.37 μ g/m³).

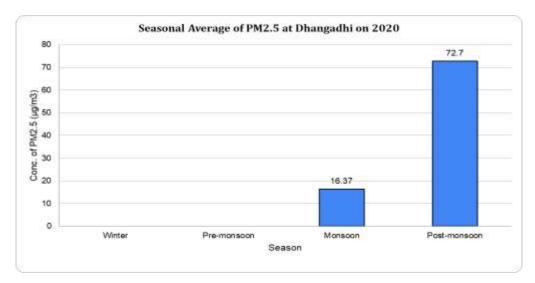
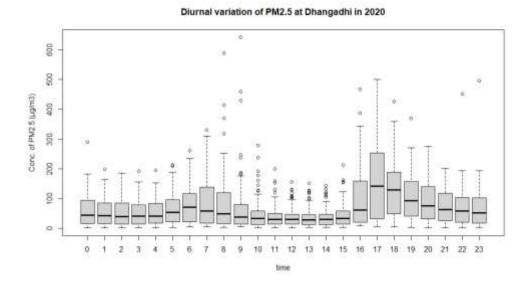


Figure 12: Seasonal Variation of PM_{2.5}

Diurnal variation of PM_{2.5}

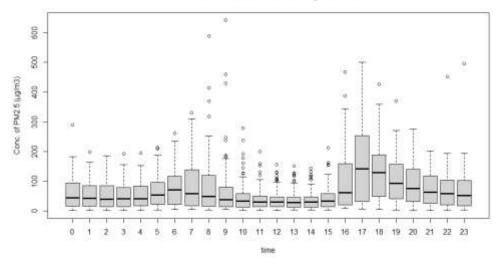
The diurnal variation of average PM_{2.5} concentrations can be shown in the



Figure

13 below. The variation in PM_{2.5} concentration was high at around 7 pm and low at 1pm (

Diurnal variation of PM2.5 at Dhangadhi in 2020



Figure

13).

Diurnal variation of PM2.5 at Dhangadhi in 2020

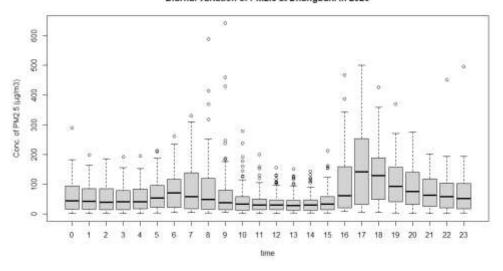


Figure 13: Diurnal Variation of PM_{2.5}

Compliance status of PM_{2.5}

The total days of $PM_{2.5}$ monitored in the year 2020 counts 161, of which 88 days exceeded the NAAQS guideline.

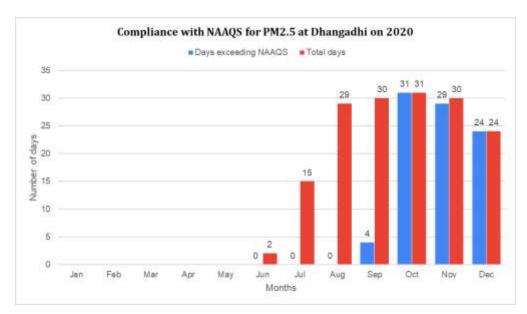


Figure 14: Compliance status of PM_{2.5}

2.1.4 Temporal variation of PM_{10}

Annual average of PM₁₀

The annual average of PM_{10} at Dhangadhi station was found to be 109.37 $\mu g/m^3$. Histogram of hourly average PM_{10} is shown in the figure below.

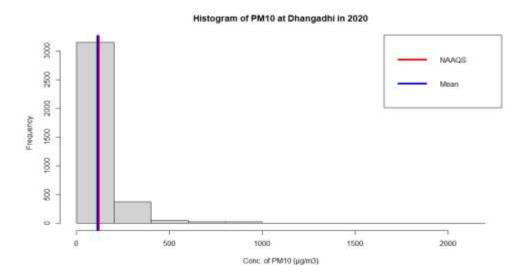


Figure 15: Histogram of PM₁₀.

Daily average of PM₁₀

Daily average concentration of PM_{10} was high during November and December and was found low during July and August.

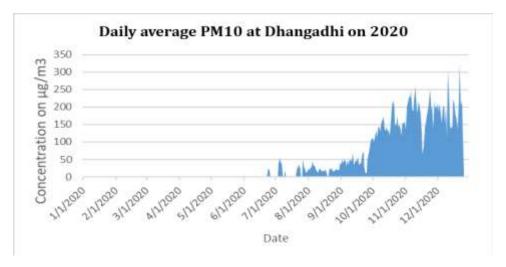


Figure 16: Daily average of PM₁₀

Monthly average of PM₁₀

The highest and the lowest monthly average of PM_{10} was found during November (191.9 $\mu g/m^3$) and June (21.91 $\mu g/m^3$) respectively.

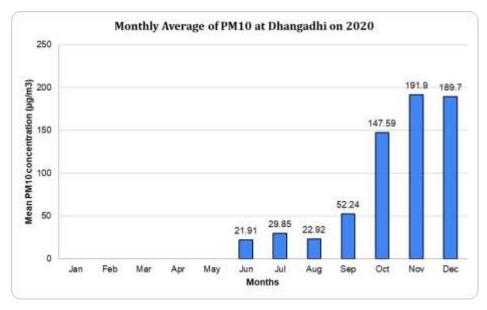


Figure 17: Monthly Average of PM₁₀

Monthly variation of PM₁₀

Variation in concentration of PM₁₀ was found more during November and low during June.

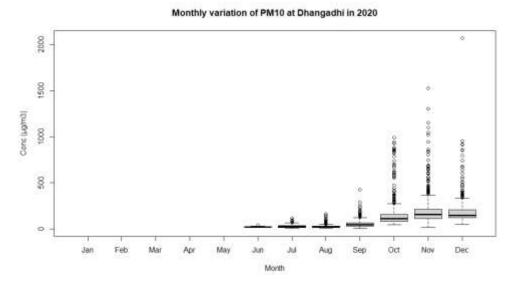


Figure 18: Monthly Variation of PM₁₀

Seasonal variation of PM₁₀

Ambient concentration of average PM_{10} with monsoon (June-September), and post-monsoon (October-November) can be shown in the figure below. The highest concentration of PM_{10} was found in the post- monsoon (130.58 $\mu g/m^3$) and that of lowest was found in monsoon season (24.89 $\mu g/m^3$).

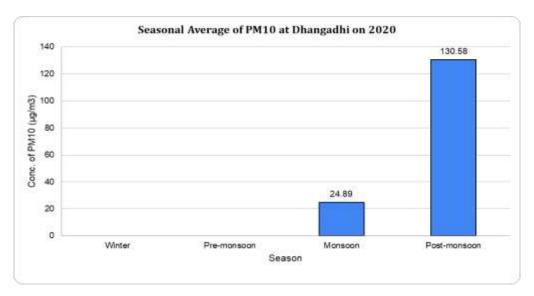


Figure 19: Seasonal Variation of PM₁₀

Diurnal variation of PM₁₀

The diurnal variation of average PM_{10} concentrations can be shown in the figure below. The variation in PM_{10} concentration was high at around 5 pm and low at 4 am.

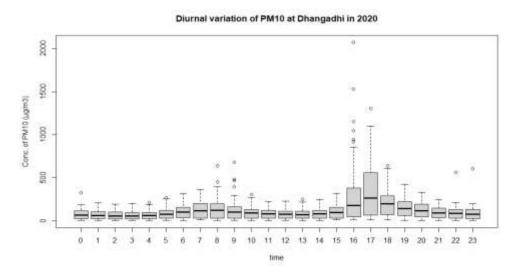


Figure 20: Diurnal Variation of PM₁₀

Compliance status of PM₁₀

The total days of PM_{10} monitored in the year 2020 counts 161 of which 77 days exceed the NAAQS guideline.

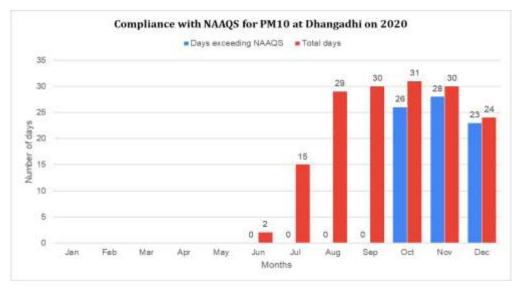


Figure 21: Compliance status of PM₁₀

2.1.5 Temporal variation of TSP

Annual average of TSP

The annual average of TSP at Dhangadhi Station was found to be 176.07 $\mu g/m^3$. Histogram of hourly average TSP is shown in the figure below.

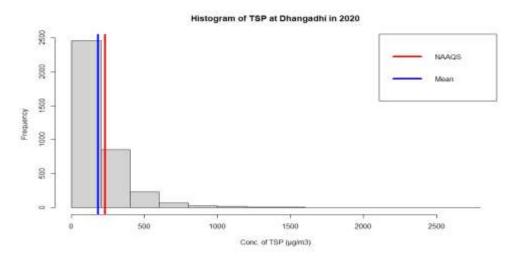


Figure 22: Histogram of TSP.

Daily average of TSP

Daily average concentration of TSP was high during November and was found low during July and August.

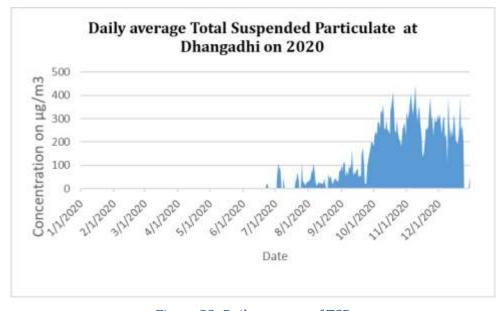


Figure 23: Daily average of TSP

Monthly average of TSP

The highest and the lowest monthly average of TSP was found during November (300.7 $\mu g/m^3$) and June (21.76 $\mu g/m^3$) respectively.

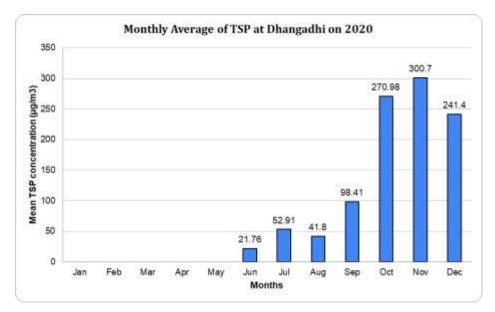


Figure 24: Monthly Average of TSP

Monthly variation of TSP

Variation in concentration of TSP was found more during November and low during June.

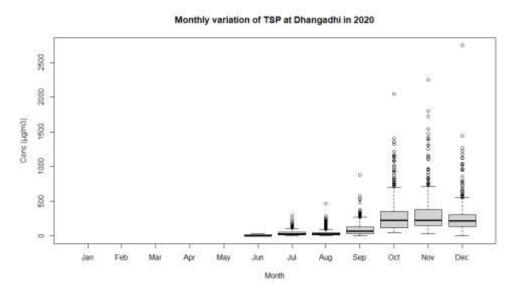


Figure 25: Monthly Variation of TSP

Seasonal variation of TSP

Ambient concentration of average TSP with monsoon (June-September), and post-monsoon (October-November) can be shown in the figure below. The highest concentration of TSP was found in the post monsoon (223.36 $\mu g/m^3$) than monsoon season (38.82 $\mu g/m^3$).

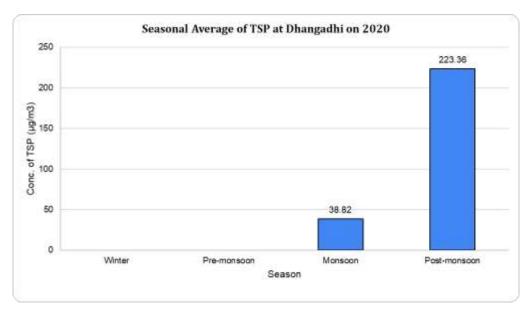


Figure 26: Seasonal Variation of TSP

Diurnal variation of TSP

The diurnal variation of average TSP concentrations can be shown in the figure below. The variation in TSP concentration was high at around 5 pm and low at 11 pm.

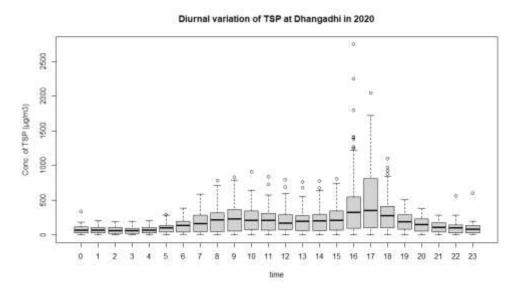


Figure 27: Diurnal Variation of TSP

Compliance status of TSP

The total days of TSP monitored in the year 2020 counts 162 of which 66 days exceed the NAAQS guideline.

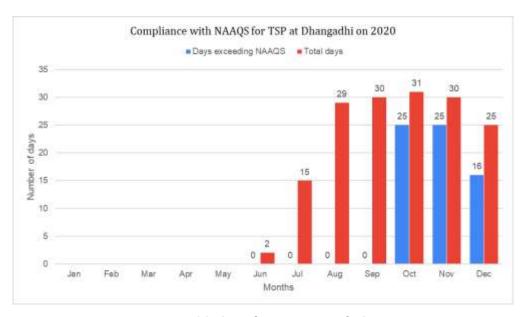


Figure 28: Compliance status of TSP

Annex

Date	PM1	PM2.5	PM10	TSP
1/1/2020				
1/2/2020				
1/3/2020				
1/4/2020				
1/5/2020				
1/6/2020				
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6/23/2020	13.23734	17.51122		22.74294
6/24/2020	11.58058	15.02334	23.89896	20.7763
6/25/2020	11.00000	10.02001	19.92268	20.7703
6/26/2020			13.32200	
6/27/2020				
6/28/2020				
6/29/2020				
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6/30/2020				
7/1/2020				
7/2/2020				
7/3/2020	18.73767	24.66167		52.198
7/4/2020	19.5531	27.78274	36.31367	111.728
7/5/2020	17.0685	22.67638	53.63464	79.66225
7/6/2020	13.28673	19.59291	38.2112	90.9996
7/7/2020			39.31197	7 7 7 7 7 7
7/8/2020				
7/9/2020	6.660115	8.399291		46.48683
7/10/2020			19.00178	
7/11/2020				
7/12/2020				
7/13/2020				
7/14/2020				
7/15/2020				
7/16/2020				
7/17/2020				
7/18/2020				
7/19/2020				
7/20/2020	14.19037	17.63386		30.38761
7/21/2020	12.67354	16.27991	24.69961	37.82078
7/22/2020	15.27667	20.97472	24.82917	69.38285
7/23/2020	12.87969	16.3946	36.65147	33.11843
7/24/2020			23.41368	
7/25/2020				
7/26/2020	17.8289	26.51916		117.2302
7/27/2020	17.19429	20.70274	50.49721	36.94357
7/28/2020	13.28639	15.69528	28.98798	24.59069
7/29/2020	8.567014	10.09868	20.42746	13.25312
7/30/2020	9.776875	11.82326	12.39771	18.70389
7/31/2020	13.83986	17.20972	15.71479	31.17
8/1/2020	11.95868	14.91924	23.68243	27.94431
8/2/2020	12.60222	16.10375	20.73764	36.50917
8/3/2020	17.03125	21.26931	24.21861	38.73278
8/4/2020	19.56299	26.58549	30.08864	80.18222
8/5/2020	12.07208	17.18572	44.74181	66.31494
8/6/2020	6.110556	10.54125	31.7175	109.1192
8/7/2020	7.787639	11.27125	32.32573	67.32722
8/8/2020	9.753125	11.92625	22.81382	27.45278
8/9/2020	8.248194	9.510208	17.43688	12.46694

8/10/2020	14.64792	16.85042	11.69507	21.95326
8/11/2020	15.33146	18.24819	20.64625	27.45542
8/12/2020	10.53736	13.01625	23.96278	21.78215
8/13/2020	7.606528	9.868681	18.04507	23.68743
8/14/2020	11.28958	13.7166	14.9236	23.62028
8/15/2020	7.867222	10.07688	18.64826	19.52889
8/16/2020	10.72424	14.48708	14.24806	44.7966
8/17/2020	7.204512	9.803049	23.17292	21.45215
8/18/2020			13.70067	
8/19/2020				
8/20/2020	10.29831	14.95284		64.19958
8/21/2020	7.294157	10.52923	27.77672	42.00854
8/22/2020	10.7291	14.76243	19.93971	55.74417
8/23/2020	10.17757	12.40236	25.24326	22.98472
8/24/2020	8.194653	10.18472	16.88833	20.8216
8/25/2020	9.226042	11.87528	14.48486	36.47847
8/26/2020	9.448333	12.46507	19.05319	43.45319
8/27/2020	8.565241	11.95084	21.63257	40.72763
8/28/2020	10.06764	13.32569	21.20547	28.42604
8/29/2020	9.925278	13.00035	19.44604	37.3775
8/30/2020	20.2809	24.99396	20.84965	71.81361
8/31/2020	17.8491	22.25854	37.75569	77.87069
9/1/2020	24.94382	30.71576	37.30708	98.68688
9/2/2020	18.44437	23.90271	49.99695	75.08
9/3/2020	17.3991	23.95431	39.77736	115.8785
9/4/2020	17.83674	24.06861	47.80549	106.9095
9/5/2020	17.07097	20.42569	46.80257	50.15076
9/6/2020	24.63493	29.75875	30.68389	78.41972
9/7/2020	20.36792	24.15347	46.83382	54.63667
9/8/2020	25.58667	31.17611	35.17222	94.21632
9/9/2020	21.62229	26.99646	50.94431	86.63076
9/10/2020	20.80556	27.06979	44.18931	107.8506
9/11/2020	23.36403	31.36222	50.0221	170.3623
9/12/2020	17.59194	21.52681	70.01715	52.03174
9/13/2020	23.54569	29.01243	32.56083	75.25326
9/14/2020	26.28646	31.36354	45.73891	61.75743
9/15/2020	24.9075	30.92576	44.54771	81.67743
9/16/2020	32.89806	39.67778	48.31563	87.46812
9/17/2020	20.07993	23.86701	57.91771	48.03535
9/18/2020	22.44812	27.20889	33.94418	58.46424
9/19/2020	22.05399	26.8398	39.7409	53.88951

9/20/2020	25.47676	34.0201	37.98627	145.6589
9/21/2020	14.31775	22.95391	65.25175	177.1283
9/22/2020	7.394448	11.99011	72.92829	93.63047
9/23/2020	3.904574	5.980664	30.16116	22.04496
9/24/2020	5.370278	7.446806	10.32603	20.20486
9/25/2020	23.68056	29.9984	11.35263	96.70535
9/26/2020	30.82646	38.98299	49.91722	115.2654
9/27/2020	38.29958	50.45014	66.50521	146.1938
9/28/2020	41.15896	57.33611	85.78176	180.5193
9/29/2020	39.66993	57.18917	102.019	200.779
9/30/2020	41.75917	59.77396	110.3373	196.7755
10/1/2020	37.77062	52.75361	109.6299	182.4424
10/2/2020	37.86451	55.30222	97.43903	222.2095
10/3/2020	36.83743	56.1875	116.8719	245.7908
10/4/2020	38.08833	54.70535	132.9082	231.9358
10/5/2020	42.28826	61.59201	110.9384	283.0242
10/6/2020	40.31958	63.81243	142.6253	286.5601
10/7/2020	41.06033	58.22338	141.561	257.9792
10/8/2020	54.83139	77.26181	129.598	335.1029
10/9/2020	48.30278	70.41667	156.6112	325.2464
10/10/2020	46.4184	70.42924	164.8892	358.6113
10/11/2020	46.32993	64.86653	174.8434	264.1063
10/12/2020	44.70344	61.812	138.5138	250.5053
10/13/2020	39.47507	60.54555	131.6338	297.141
10/14/2020	37.28632	58.48049	146.4542	252.2517
10/15/2020	39.19381	60.70818	127.2919	249.7731
10/16/2020	46.04569	61.57125	135.4357	232.342
10/17/2020	58.62486	76.94264	118.7655	329.6665
10/18/2020	69.24694	95.81097	166.1726	362.257
10/19/2020	72.66618	101.5358	196.9627	415.8318
10/20/2020	65.00868	89.75354	220.2469	362.3795
10/21/2020	54.57576	72.63812	202.3698	247.8991
10/22/2020	54.88313	73.45771	148.4398	239.9608
10/23/2020	62.17562	86.8334	147.7958	300.0406
10/24/2020	70.61056	87.06965	174.3084	237.2838
10/25/2020	71.43799	87.60528	145.5287	209.7606
10/26/2020	59.96757	75.00708	148.8345	206.2541
10/27/2020	54.12104	68.05653	135.7825	182.1527
10/28/2020	53.75014	75.76604	115.8565	261.8853
10/29/2020	49.99375	71.70889	157.9771	257.8959
10/30/2020	48.42174	70.4891	151.8142	287.0618

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10/31/2020	66.01396	83.63215	159.9615	224.977
11/1/2020	87.79618	115.6684	136.9712	330.2328
11/2/2020	105.4925	126.5859	203.1738	296.5728
11/3/2020	127.9986	153.4534	209.3531	323.9124
11/4/2020	127.0066	153.5065	228.2701	354.0264
11/5/2020	124.1087	158.2403	229.6963	408.3856
11/6/2020	100.5224	124.3532	245.8161	343.2478
11/7/2020	94.72451	114.6196	194.6365	317.8888
11/8/2020	102.829	131.3837	187.718	365.7387
11/9/2020	85.71576	124.4272	223.619	445.9511
11/10/2020	68.64938	100.7301	259.8839	365.1911
11/11/2020	67.21243	90.71924	225.0783	287.9003
11/12/2020	71.60639	101.8387	181.4342	342.1569
11/13/2020	93.29917	123.8535	212.843	353.5237
11/14/2020	100.1273	119.7374	209.0513	266.888
11/15/2020	67.0475	78.75944	184.2356	215.7848
11/16/2020	30.17181	36.84639	127.0023	136.0165
11/17/2020	46.1884	54.39299	63.17222	152.8156
11/18/2020	79.66944	95.18778	86.46625	208.3347
11/19/2020	71.08736	86.96153	140.602	258.0075
11/20/2020	88.56889	111.6344	151.9391	254.7506
11/21/2020	120.181	140.3443	176.0049	263.4865
11/22/2020	123.8185	148.4847	197.0191	307.1307
11/23/2020	110.5607	145.9183	209.9601	392.171
11/24/2020	103.1978	126.7457	248.7582	294.3398
11/25/2020	101.8334	127.584	190.9856	312.739
11/26/2020	75.97847	90.45018	206.169	225.1735
11/27/2020	98.80805	134.4534	137.1353	302.1257
11/28/2020	96.03833	123.102	218.9032	287.912
11/29/2020	107.8244	129.2915	199.8422	287.7707
11/30/2020	109.234	139.7185	198.1556	320.6832
12/1/2020	88.23264	115.0986	210.0837	291.5558
12/2/2020	84.8607	116.3512	187.4129	321.6269
12/3/2020	86.69458	111.1515	210.1081	266.5827
12/4/2020	83.19931	99.87317	173.021	231.6254
12/5/2020	92.26715	116.7684	153.566	294.1532
12/6/2020	94.61236	121.5566	198.5429	314.0656
12/7/2020	93.42847	109.776	204.5524	218.5688
12/8/2020	140.1858	160.5807	151.9702	237.0724
12/9/2020	107.4144	109.8863	199.7979	113.4533
12/10/2020	156.1539	237.8875	111.6492	390.7759

12/11/2020	151.8313	192.0894	303.1113	273.5638
12/12/2020	109.9418	124.5806	218.9071	215.3208
12/13/2020	80.43814	94.22871	147.1185	260.6836
12/14/2020	102.0697	119.4781	138.7448	219.9351
12/15/2020	149.707	182.5835	147.1868	316.9119
12/16/2020	144.9377	163.7319	223.214	301.8441
12/17/2020	147.1019	160.8317	208.2663	208.8299
12/18/2020	144.8188	161.5278	175.1083	194.7902
12/19/2020	114.7992	124.2701	169.6887	192.8003
12/20/2020	147.6884	169.0021	136.3158	240.3648
12/21/2020	169.6748	205.6737	213.7708	393.4688
12/22/2020	132.0306	152.4228	322.9057	252.0857
12/23/2020	131.2806	154.3214	203.701	269.0234
12/24/2020	103.5186	108.9899	218.3996	201.3834
12/25/2020			135.8045	
12/26/2020				
12/27/2020				
12/28/2020				
12/29/2020				
12/30/2020				55.85
12/31/2020				