

LA-UR- 09-07841

Approved for public release;
distribution is unlimited.

Title: Activity Released from DP West Stacks in 1954 and 1955

Author(s): Michael W McNaughton, William F Eisele, Jeffrey J Whicker

Intended for: Request by Center for Disease Control subcontractor, Los Alamos Historical Document Retrieval and Assessment project



Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by the Los Alamos National Security, LLC for the National Nuclear Security Administration of the U.S. Department of Energy under contract DE-AC52-06NA25396. By acceptance of this article, the publisher recognizes that the U.S. Government retains a nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.

Activity Released from DP West Stacks in 1954 and 1955

Michael W McNaughton, William F Eisele, Jeffrey J Whicker, November 2009

Abstract

We have calculated the total alpha-emitting activity released from the DP West stacks during 1954 and 1955 using the original raw data. We show that the calculations performed by Edwin C Hyatt in 1955 and 1956 contain a factor-of-20 mathematical error. The correct results are slightly lower than those reported by Maraman et al. in 1975. We also show that there was excellent agreement between Hyatt's special "roof" samplers and the older "Filter Queen" samplers.

Purpose

The purpose of this report is to document the calculations of the DP West stack emissions as reported in LA-UR-09-4700 and LA-UR-09-5381.

Description of the data

The main stacks at DP West were part of TA-21 building 12 and are shown on drawing ENG C 2307 dated May 17, 1945. There were 4 stacks, each 42-inch diameter and 50-feet high placed on top of a building approximately 15 feet high. Each stack was equipped with a fan, and the maximum capacity of each of the four fans was specified as 52,200 cubic feet per minute. The four fans extracted air from a common filter plenum.

The concentration of alpha-emitting radionuclides in the filter plenum was measured by 4 "Filter Queen" air samplers. The Filter Queen samplers are described by Harry Schulte and Ed Hyatt on pages 59-70 of the "General Handbook for Radiation Monitoring," LA-1835, dated September 1954, and on pages 99-110 of the 3rd edition of LA-1835, dated November 1958.

The original hand-written data sheets include raw count rates (counts per minute, c/m) and concentrations (disintegrations per minute per cubic meter, d/m/m³). Generally, the filters were counted less than 24 hours after being removed from the air sampler. However, the data have not been corrected for radon and thoron activity because according to LA-1835: "Samples counted at CM Building are allowed to decay 20 to 24 hr before counting, assuming that residual thoron daughters will compensate for counts lost due to surface effects of the filter paper on α particles."

The raw data for 1954 and 1955 are in two boxes labeled "TR-293-1." Four columns of these data are reproduced in the tables below. The second column is the total flow through the air sampler in units of liters, L. The third and fourth columns are counts per minute (c/m) and disintegrations per minute per cubic meter (d/m/m³.) For each day, there are four rows corresponding to samplers, 1 through 4. The average concentration of the 4 samplers (d/m/m³) is in the 5th column.

Description of the Calculations

In order to calculate the activity per day (dpm/day) it is necessary to multiply the average concentration by the volume of air released from the stacks. In order to compare with Ed Hyatt's calculations, we use $2.45 \times 10^6 \text{ m}^3$ per day because this reproduces Ed Hyatt's values for November 10, 1955, and December 8, 1955, for both the Filter Queen and the special "Roof" samplers (Hyatt 1956.) The special Roof

samplers are described in three memos from Ed Hyatt to Dean Meyer (Hyatt 1954a, Hyatt 1954b, and Hyatt 1955.)

The data for each month are followed by a monthly summary, for comparison with the values reported in Hyatt's three memos. The monthly summary tables contain the following information.

Column 1: monthly release (dpm/month); this is the sum of the daily releases (dpm/day)

Column 2: monthly release (Ci/month); dpm is converted to Ci using 2.22×10^{12} dpm/Ci.

Column 3: monthly release (g/month); Ci is converted to grams using 0.062 Ci/g.

Column 4: Hyatt's calculation of monthly release (g/month); this is the value in Hyatt's memos.

Column 5: (ratio); this is the ratio of column 4 to column 3.

Notice that the ratio is equal to the number of measurements in the month.

Each year's data is followed by a similar annual summary.

The final tables are for Hyatt's special roof samplers.

Conclusions

The raw data have been used to reproduce Hyatt's daily data as reported in his 1956 memo (Hyatt 1956). However, the raw data show that his monthly and annual totals are incorrect. The ratio of Hyatt's monthly total to the correct value is equal to the number of measurements in the month, which ranges from 11 in December 1955, to 23 in March 1954, March 1955, and August 1956.

The annual releases may also be compared with Table 2 of the paper by Maraman et al. (Maraman 1975). Maraman's estimates are approximately 1.5 times the values calculated below.

The raw data also demonstrate excellent agreement between the older Filter Queen samplers and the special roof samplers. For the period October 17 through October 31, 1955, the ratio of the Filter Queen data to the special data was 1.2. In November 1955, the ratio was 1.0; and in December 1955 the ratio was 0.9.

References

Hyatt 1955a: Hyatt EC. Total Activity Released from D.P. West Stacks. Memorandum to Dean D Meyer dated 26 October 1955. LAHDRA Repos. No. 0199; also available as ERID #1710.

Hyatt 1955b: Hyatt EC. Total Activity Released from DP West Stacks (1951 through September 1955). Memorandum to Dean D Meyer dated October 31, 1955.

Hyatt 1956: Hyatt EC. Total Activity Released from DP West Stacks, Bldg 12 from 1948 through 1955. Memorandum to Dean D Meyer dated January 3, 1956, LAHDRA Repos No. 6601; also available as ERID #5751.

LA-UR-09-4700: "Comments on the Draft final LAHDRA report dated June 2009," July 2009.

LA-UR-09-5381: "Details related to airborne plutonium releases from the DP West Building 12 stacks."
August 2009.

Maraman 1975. Maraman WJ, McNeese WD, Stafford RG. Plutonium Health Implications for man.
Confinement facilities for handling plutonium. Health Phys 29: 469-80; 1975

Tables of Raw Data and Calculations

January 1954

date	L	c/m	d/m/m3	average	dpm/day
1/4/1954	50900	1809	71.1		
Monday	50900	155	6.1		
	50900	239	9.4		
	50900	289	11.4	24.5	5.99E+07
1/5/1954	50900	1202	47.2		
	50900	357	13.8		
	50900	176	6.9		
	50900	203	8.0	19.0	4.64E+07
1/6/1954	50900	575	22.6		
	50900	472	18.5		
	50900	316	12.4		
	50900	222	8.7	15.6	3.81E+07
1/7/1954	50900	703	27.6		
	50900	317	12.5		
	50900	288	11.3		
	50900	202	7.9	14.8	3.63E+07
1/8/1954	50900	279	11.0		
Friday	50900	147	5.8		
	50900	183	7.2		
	50900	314	12.3	9.1	2.22E+07
1/11/1954	50900	2111	82.9		
Monday	50900	765	30.1		
	50900	446	17.5		
	50900	379	14.9	36.4	8.90E+07
1/12/1954	50900	2100	82.5		
	50900	495	19.4		
	50900	229	9.0		
	50900	371	14.6	31.4	7.68E+07
1/13/1954	50900	436	17.1		
	50900	93	3.7		
	50900	82	3.2		
	50900	122	4.8	7.2	1.76E+07
1/14/1954	50900	331	13.0		
	50900	758	22.8		
	50900	329	12.9		
	50900	811	31.9	20.1	4.93E+07
1/15/1954	50900	320	12.6		
Friday	50900	271	10.6		
	50900	179	7.0		

	50900	24	0.9	7.8	1.91E+07
1/18/1954	50900	170	6.7		
Monday	50900	202	7.9		
	50900	259	10.2		
	50900	63	2.5	6.8	1.67E+07
1/19/1954	50900	90	3.5		
	50900	99	3.9		
	50900	127	5.0		
	50900	1143	44.9	14.3	3.51E+07
1/20/1954	50900	102	4.0		
	50900	187	7.3		
	50900	121	4.8		
	50900	55	2.2	4.6	1.12E+07
1/21/1954	50900	268	10.5		
	50900	168	6.6		
	50900	102	4.0		
	50900	31	1.2	5.6	1.37E+07
1/22/1954	50900	207	8.1		
Friday	50900	152	6.0		
	50900	135	5.3		
	50900	48	1.9	5.3	1.30E+07
1/25/1954	50900	77	3.0		
Monday	50900	137	5.4		
	50900	176	6.9		
	50900	652	25.6	10.2	2.50E+07
1/26/1954	50900	91	3.6		
	50900	73	2.9		
	50900	54	2.1		
	50900	40	1.6	2.5	6.20E+06
1/27/1954	50900	146	5.7		
	50900	240	9.4		
	50900	314	12.3		
	50900	127	5.0	8.1	1.99E+07
1/28/1954	50900	113	4.4		
	50900	104	4.1		
	50900	113	4.4		
	50900	113	4.4	4.4	1.06E+07
1/29/1954	50900	160	6.3		
Friday	50900	459	18.0		
	50900	147	5.8		
	50900	245	9.6	9.9	2.43E+07

January 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
6.30E+08	2.84E-04	0.005	0.090	20

February 1954

date	L	c/m	d/m/m3	average	dpm/day
2/1/1954	50900	0	0.0		
Monday	50900	98	3.9		
	50900	106	4.2		
	50900	81	3.2	2.8	6.85E+06
2/2/1954	50900	100	3.9		
	50900	124	4.9		
	50900	114	4.5		
	50900	195	7.7	5.2	1.28E+07
2/3/1954	50900	166	6.5		
	50900	176	6.9		
	50900	155	6.1		
	50900	191	7.5	6.8	1.65E+07
2/4/1954	50900	189	7.4		
	50900	155	6.1		
	50900	165	6.5		
	50900	204	8.0	7.0	1.71E+07
2/5/1954	50900	185	7.3		
Friday	50900	237	9.3		
	50900	258	10.1		
	50900	415	16.3	10.8	2.63E+07
2/8/1954	50900	761	29.9		
Monday	50900	0.0	0.0		
	50900	2093	82.2		
	50900	2133	83.8	49.0	1.20E+08
2/9/1954	50900	119	4.7		
	50900	214	8.4		
	50900	116	4.6		
	50900	134	5.3	5.7	1.40E+07
2/10/1954	50900	236	9.3		
	50900	241	9.5		
	50900	269	10.6		
	50900	462	18.2	11.9	2.90E+07
2/11/1954	50900	170	6.7		
	50900	242	9.5		
	50900	168	6.6		
	50900	272	10.7	8.4	2.05E+07
2/12/1954	50900	126	5.0		
Friday	50900	173	6.8		
	50900	148	5.8		
	50900	216	8.5	6.5	1.59E+07
2/15/1954	50900	2	0.1		
Monday	50900	8	0.3		
	50900	152	6.0		
	50900	244	9.6	4.0	9.76E+06
2/16/1954	50900	82	3.2		
	50900	49	1.9		
	50900	5	0.2		

	50900	73	2.9	2.1	5.02E+06
2/17/1954	50900	702	27.6		
	50900	174	6.8		
	50900	216	8.5		
	50900	192	7.5	12.6	3.09E+07
2/18/1954	50900	222	8.7		
	50900	158	6.2		
	50900	162	6.4		
	50900	254	10.0	7.8	1.91E+07
2/19/1954	50900	80	3.1		
Friday	50900	191	7.5		
	50900	209	8.2		
	50900	106	4.2	5.8	1.41E+07
2/23/1954	50900	116	4.6		
Tuesday	50900	152	6.0		
	50900	144	5.7		
	50900	63	2.5	4.7	1.14E+07
2/24/1954	50900	192	7.5		
	50900	225	8.8		
	50900	214	8.4		
	50900	285	11.2	9.0	2.20E+07
2/25/1954	50900	1403	55.1		
	50900	1473	57.9		
	50900	1334	52.4		
	50900	1922	75.5	60.2	1.47E+08
2/26/1954	50900	439	17.2		
Friday	50900	449	17.6		
	50900	595	23.4		
	50900	790	31.0	22.3	5.46E+07

February 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
5.93E+08	2.67E-04	0.004	0.080	19

March 1954

date	L	c/m	d/m/m3	average	dpm/day
3/1/1954	50900	169	6.6		
Monday	50900	262	10.3		
	50900	195	7.7		
	50900	256	10.1	8.7	2.12E+07
3/2/1954	50900	164	8.4		
	50900	243	9.5		
	50900	211	8.3		
	50900	270	10.6	9.2	2.25E+07
3/3/1954	50900	123	4.8		
	50900	241	9.5		

	50900	157	6.2		
	50900	302	11.9	8.1	1.98E+07
3/4/1954	50900	77	3.0		
	50900	86	3.4		
	50900	81	3.2		
	50900	101	4.0	3.4	8.29E+06
3/5/1954	50900	92	3.6		
Friday	50900	155	6.1		
	50900	87	3.4		
	50900	159	6.2	4.8	1.18E+07
3/8/1954	50900	205	8.1		
Monday	50900	130	5.1		
	50900	307	12.1		
	50900	114	4.5	7.4	1.82E+07
3/9/1954	50900	310	12.2		
	50900	407	16.0		
	50900	445	17.5		
	50900	653	25.7	17.8	4.36E+07
3/10/1954	50900	1555	61.1		
	50900	1508	59.3		
	50900	754	29.6		
	50900	939	36.9	46.7	1.14E+08
3/11/1954	50900	274	10.8		
	50900	200	7.9		
	50900	107	4.2		
	50900	249	9.8	8.2	1.99E+07
3/12/1954	50900	129	5.1		
Friday	50900	96	3.8		
	50900	77	3.0		
	50900	79	3.1	3.7	9.16E+06
3/15/1954	50900	356	14.0		
Monday	50900	381	15.0		
	50900	272	10.7		
	50900	300	11.8	12.9	3.15E+07
3/16/1954	50900	777	30.5		
	50900	548	21.5		
	50900	420	16.5		
	50900	447	17.6	21.5	5.27E+07
3/17/1954	50900	296	11.6		
	50900	503	19.8		
	50900	286	11.2		
	50900	358	14.1	14.2	3.47E+07
3/18/1954	50900	214	8.4		
	50900	254	10.0		
	50900	292	11.5		
	50900	116	4.6	8.6	2.11E+07
3/19/1954	50900	166	6.5		
Friday	50900	185	7.3		
	50900	165	6.5		
	50900	0	0.0	5.1	1.24E+07

3/22/1954	50900	61	2.4			
Monday	50900	76	3.0			
	50900	77	3.0			
	50900	54	2.1	2.6	6.44E+06	
3/23/1954	50900	634	24.9			
	50900	606	23.8			
	50900	261	10.3			
	50900	0	0.0	14.7	3.61E+07	
3/24/1954	50900	341	13.4			
	50900	316	12.4			
	50900	339	13.3			
	50900	0.0	0.0	9.8	2.39E+07	
3/25/1954	50900	277	10.9			
	50900	288	11.3			
	50900	140	5.5			
	50900	361	14.2	10.5	2.56E+07	
3/26/1954	50900	4709	185.0			
Friday	50900	4959	194.9			
	50900	1865	73.3			
	50900	3135	123.2	144.1	3.53E+08	
3/29/1954	50900	1517	59.6			
Monday	50900	1426	56.0			
	50900	626	24.6			
	50900	1110	43.6	46.0	1.12E+08	
3/30/1954	50900	1709	67.2			
	50900	1530	60.1			
	50900	580	22.8			
	50900	1078	42.4	48.1	1.18E+08	
3/31/1954	50900	296	11.6			
	50900	329	12.9			
	50900	229	9.0			
	50900	533	20.9	13.6	3.33E+07	

March 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
1.15E+09	5.18E-04	0.008	0.190	23

April 1954

date	L	c/m	d/m/m3	average	dpm/day
4/1/1954	50900	939	36.9		
	50900	750	29.5		
	50900	398	15.6		
	50900	697	27.4	27.3	6.69E+07
4/2/1954	50900	586	23.0		
Friday	50900	536	21.1		
	50900	370	14.5		

	50900	977	38.4	24.3	5.93E+07
4/5/1954	50900	379	14.9		
Monday	50900	432	17.0		
	50900	185	7.3		
	50900	416	16.3	13.9	3.39E+07
4/6/1954	50900	1653	65.0		
	50900	1686	66.2		
	50900	1202	47.2		
	50900	2635	103.5	70.5	1.72E+08
4/7/1954	50900	5399	212.1		
	50900	5039	198.0		
	50900	2162	85.0		
	50900	3352	131.7	156.7	3.83E+08
4/8/1954	50900	382	15.0		
	50900	409	16.1		
	50900	246	9.7		
	50900	371	14.6	13.8	3.38E+07
4/9/1954	50900	1038	40.8		
Friday	50900	817	32.1		
	50900	359	14.1		
	50900	797	31.3	29.6	7.24E+07
4/12/1954	50900	1076	42.3		
Monday	50900	1025	40.3		
	50900	475	18.7		
	50900	926	36.4	34.4	8.42E+07
4/13/1954	50900	1840	72.3		
	50900	1628	64.0		
	50900	584	22.9		
	50900	1079	42.4	50.4	1.23E+08
4/14/1954	50900	594	23.3		
	50900	689	27.1		
	50900	621	24.4		
	50900	1319	51.8	31.7	7.75E+07
4/15/1954	50900	366	14.4		
	50900	420	16.5		
	50900	280	11.0		
	50900	590	23.2	16.3	3.98E+07
4/16/1954	50900	4035	158.5		
Friday	50900	5032	197.7		
	50900	3713	145.9		
	50900	8915	350.3	213.1	5.21E+08
4/19/1954	50900	3362	132.1		
Monday	50900	5220	205.1		
	50900	4715	185.3		
	50900	7858	308.8	207.8	5.08E+08
4/20/1954	50900	624	24.5		
	50900	414	16.3		
	50900	294	11.6		
	50900	825	32.4	21.2	5.18E+07
4/21/1954	50900	1709	67.2		

	50900	2019	79.3		
	50900	2013	79.1		
	50900	3468	136.3	90.5	2.21E+08
4/22/1954	50900	394	15.5		
	50900	495	19.4		
	50900	476	18.7		
	50900	781	30.7	21.1	5.16E+07
4/23/1954	50900	414	16.3		
Friday	50900	487	19.1		
	50900	374	14.7		
	50900	587	23.1	18.3	4.48E+07
4/26/1954	50900	567	22.3		
Monday	50900	405	15.9		
	50900	348	13.7		
	50900	605	23.8	18.9	4.63E+07
4/27/1954	50900	757	29.7		
	50900	797	31.3		
	50900	707	27.8		
	50900	1155	45.4	33.6	8.21E+07
4/28/1954	50900	124	4.9		
	50900	123	4.8		
	50900	120	4.7		
	50900	250	9.8	6.1	1.48E+07
4/29/1954	50900	323	12.7		
	50900	457	18.0		
	50900	441	17.3		
	50900	800	31.4	19.9	4.86E+07
4/30/1954	50900	417	16.4		
Friday	50900	826	32.5		
	50900	383	15.0		
	50900	848	33.3	24.3	5.95E+07

April 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
2.80E+09	1.26E-03	0.020	0.450	22

May 1954

date	L	c/m	d/m/m3	average	dpm/day
5/3/1954	50900	9	0.4		
Monday	50900	1455	57.2		
	50900	1307	51.4		
	50900	1199	47.1	39.0	9.54E+07
5/4/1954	50900	670	26.3		
	50900	668	26.2		
	50900	757	29.7		
	50900	1295	50.9	33.3	8.15E+07

5/5/1954	50900	2481	97.5		
	50900	2219	87.2		
	50900	2747	107.9		
	50900	4107	161.4	113.5	2.78E+08
5/6/1954	50900	675	26.5		
	50900	620	24.4		
	50900	738	29.0		
	50900	1348	53.0	33.2	8.13E+07
5/7/1954	50900	573	22.5		
Friday	50900	524	20.6		
	50900	654	25.7		
	50900	1024	40.2	27.3	6.67E+07
5/10/1954	50900	543	21.3		
Monday	50900	485	19.1		
	50900	508	20.0		
	50900	664	26.1	21.6	5.29E+07
5/11/1954	50900	3211	126.2		
	50900	2436	95.7		
	50900	1419	55.8		
	50900	1549	60.9	84.6	2.07E+08
5/12/1954	50900	198	7.8		
	50900	145	5.7		
	50900	157	6.2		
	50900	194	7.6	6.8	1.67E+07
5/13/1954	50900	318	12.5		
	50900	207	8.1		
	50900	333	13.1		
	50900	472	18.5	13.1	3.20E+07
5/14/1954	50900	532	20.9		
Friday	50900	331	13.0		
	50900	372	14.6		
	50900	563	22.1	17.7	4.32E+07
5/17/1954	50900	243	9.5		
Monday	50900	176	6.9		
	50900	310	12.2		
	50900	441	17.3	11.5	2.81E+07
5/18/1954	50900	745	29.3		
	50900	569	22.4		
	50900	1180	46.4		
	50900	1699	66.8	41.2	1.01E+08
5/19/1954	50900	228	9.0		
	50900	212	8.3		
	50900	442	17.4		
	50900	397	15.6	12.6	3.07E+07
5/20/1954	50900	2669	104.9		
	50900	2248	88.3		
	50900	4283	168.3		
	50900	5635	221.4	145.7	3.57E+08
5/21/1954	50900	471	18.5		
Friday	50900	363	14.3		

	50900	590	23.2		
	50900	582	22.9	19.7	4.82E+07
5/24/1954	50900	273	10.7		
Monday	50900	173	6.8		
	50900	522	20.5		
	50900	222	8.7	11.7	2.86E+07
5/25/1954	50900	344	13.5		
	50900	208	8.2		
	50900	263	10.3		
	50900	309	12.1	11.0	2.70E+07
5/26/1954	50900	240	9.4		
	50900	133	5.2		
	50900	313	12.3		
	50900	255	10.0	9.2	2.26E+07
5/27/1954	50900	299	11.7		
	50900	207	8.1		
	50900	463	18.2		
	50900	306	12.0	12.5	3.06E+07
5/28/1954	50900	210	8.3		
Friday	50900	231	9.4		
	50900	239	9.4		
	50900	297	11.7	9.7	2.37E+07

May 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
1.65E+09	7.44E-04	0.012	0.240	20.00

June 1954

date	L	c/m	d/m/m3	average	dpm/day
6/1/1954	50900	238	9.4		
Tuesday	50900	243	9.5		
	50900	250	9.8		
	50900	261	10.3	9.7	2.38E+07
6/2/1954	112100	375	6.7		
	112100	252	4.5		
	112100	346	6.2		
	112100	351	6.3	5.9	1.44E+07
6/3/1954	50900	205	8.1		
	50900	235	9.2		
	50900	216	8.5		
	50900	340	13.4	9.8	2.39E+07
6/4/1954	50900	598	23.5		
Friday	50900	544	21.4		
	50900	604	23.7		
	50900	882	34.7	25.8	6.32E+07
6/7/1954	50900	913	35.9		

Monday	50900	986	38.7		
	50900	1027	40.4		
	50900	1360	53.4	42.1	1.03E+08
6/8/1954	50900	452	17.8		
	50900	424	16.7		
	50900	476	18.7		
	50900	548	21.5	18.7	4.57E+07
6/9/1954	50900	321	12.6		
	50900	297	11.7		
	50900	371	14.6		
	50900	378	14.9	13.4	3.29E+07
6/10/1954	50900	333	13.1		
	50900	487	19.1		
	50900	535	21.0		
	50900	881	34.6	22.0	5.37E+07
6/11/1954	50900	191	7.5		
Friday	50900	298	11.7		
	50900	194	0.8		
	50900	197	7.7	6.9	1.70E+07
6/14/1954	44100	564	25.6		
Monday	44100	479	21.7		
	44100	308	14.0		
	44100	244	11.1	18.1	4.42E+07
6/15/1954	50900	212	8.3		
	50900	365	14.3		
	50900	214	8.4		
	50900	238	9.4	10.1	2.47E+07
6/16/1954	50900	4639	182.3		
	50900	1212	47.6		
	50900	686	27.0		
	50900	465	18.3	68.8	1.68E+08
6/17/1954	50900	20	0.8		
	50900	2626	103.2		
	50900	624	24.5		
	50900	613	24.1	38.1	9.33E+07
6/18/1954	50900	4651	182.8		
Friday	50900	4801	188.6		
	50900	400	15.7		
	50900	302	11.9	99.7	2.44E+08
6/21/1954	50900	18721	735.6		
Monday	50900	21135	830.5		
	50900	4578	179.9		
	50900	5053	198.5	486.1	1.19E+09
6/22/1954	50900	4256	167.2		
	50900	5482	215.4		
	50900	5833	229.2		
	50900	986	38.7	162.6	3.98E+08
6/23/1954	50900	2160	82.8		
	50900	4755	186.8		
	50900	4175	164.0		

	50900	4105	161.3	148.7	3.64E+08
6/24/1954	50900	1542	60.6		
	50900	1765	69.4		
	50900	1118	43.9		
	50900	1225	48.1	55.5	1.36E+08
6/25/1954	50900	8239	323.7		
Friday	50900	8531	335.2		
	50900	3195	125.5		
	50900	7389	290.3	268.7	6.57E+08
6/28/1954	50900	719	28.3		
Monday	50900	3383	132.9		
	50900	1786	70.2		
	50900	3228	126.8	89.5	2.19E+08
6/29/1954	50900	785	30.8		
	50900	835	32.8		
	50900	558	21.9		
	50900	377	14.8	25.1	6.14E+07
6/30/1954	50900	633	24.9		
	50900	0.0	0.0		
	50900	550	21.6		
	50900	686	27.0	18.4	4.49E+07

June 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
4.02E+09	1.81E-03	0.029	0.640	22

July 1954

date	L	c/m	d/m/m3	average	dpm/day
7/1/1954	50900	1076	42.3		
	50900	1201	47.2		
	50900	622	24.4		
	50900	648	25.5	34.8	8.53E+07
7/2/1954	50900	670	26.3		
Friday	50900	868	34.1		
	50900	571	22.4		
	50900	1110	43.6	31.6	7.74E+07
7/6/1954	50900	322	12.7		
Tuesday	50900	93	3.7		
	50900	304	11.9		
	50900	1064	41.8	17.5	4.29E+07
7/7/1954	50900	345	13.6		
	50900	479	18.8		
	50900	395	15.5		
	50900	346	13.6	15.4	3.76E+07
7/8/1954	50900	3988	156.7		
	50900	6392	251.2		

	50900	5124	201.3		
	50900	9479	372.5	245.4	6.00E+08
7/9/1954	50900	2198	86.4		
Friday	50900	2501	98.3		
	50900	996	39.1		
	50900	844	33.2	64.2	1.57E+08
7/12/1954	50900	329	12.9		
Monday	50900	449	17.6		
	50900	856	33.6		
	50900	512	20.1	21.1	5.16E+07
7/13/1954	50900	794	31.2		
	50900	1634	64.2		
	50900	1472	57.8		
	50900	1951	76.7	57.5	1.41E+08
7/14/1954	50900	1744	68.5		
	50900	4217	165.7		
	50900	3803	149.4		
	50900	3755	147.5	132.8	3.25E+08
7/15/1954	50900	313	12.3		
	50900	736	28.9		
	50900	502	19.7		
	50900	756	29.7	22.7	5.55E+07
7/16/1954	50900	417	16.4		
Friday	50900	1058	41.6		
	50900	818	32.1		
	50900	1309	51.4	35.4	8.66E+07
7/19/1954	50900	255	10.0		
Monday	50900	402	15.8		
	50900	464	18.2		
	50900	325	12.8	14.2	3.48E+07
7/20/1954	50900	317	12.5		
	50900	899	35.3		
	50900	330	13.0		
	50900	346	13.6	18.6	4.55E+07
7/21/1954	50900	1421	55.8		
	50900	3151	123.8		
	50900	1466	57.6		
	50900	3210	126.1	90.8	2.22E+08
7/22/1954	50900	372	14.6		
	50900	1024	40.2		
	50900	666	26.2		
	50900	1003	39.4	30.1	7.37E+07
7/23/1954	50900	360	14.1		
Friday	50900	993	39.0		
	50900	576	22.6		
	50900	951	37.4	28.3	6.92E+07
7/26/1954	50900	876	34.4		
Monday	50900	1853	72.8		
	50900	764	30.0		
	50900	1732	68.1	51.3	1.26E+08

7/27/1954	50900	1079	42.4			
	50900	1392	54.7			
	50900	784	30.8			
	50900	603	23.7	37.9	9.27E+07	
7/28/1954	50900	909	35.7			
	50900	1590	62.5			
	50900	1575	61.9			
	50900	2485	96.0	64.0	1.57E+08	
7/29/1954	50900	807	31.7			
	50900	1324	52.0			
	50900	1475	58.0			
	50900	2269	89.2	57.7	1.41E+08	
7/30/1954	50900	576	22.6			
Friday	50900	125	4.9			
	50900	751	29.5			
	50900	808	31.7	22.2	5.43E+07	

July 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
2.68E+09	1.21E-03	0.019	0.410	21

August 1954

date	L	c/m	d/m/m3	average	dpm/day
8/2/1954	50900	851	33.4		
Monday	50900	1134	44.6		
	50900	2322	91.2		
	50900	1768	69.5	59.7	1.46E+08
8/3/1954	50900	1803	70.8		
	50900	1388	54.5		
	50900	1293	50.8		
	50900	1621	63.7	60.0	1.47E+08
8/4/1954	50900	655	25.7		
	50900	556	21.8		
	50900	670	26.3		
	50900	649	25.5	24.9	6.08E+07
8/5/1954	50900	807	31.7		
	50900	718	28.2		
	50900	675	26.5		
	50900	687	27.0	28.4	6.94E+07
8/6/1954	50900	300	11.8		
Friday	50900	710	27.9		
	50900	597	23.5		
	50900	1117	43.9	26.8	6.55E+07
8/9/1954	50900	958	37.6		
Monday	50900	894	35.1		
	50900	1445	56.8		

	50900	919	36.1	41.4	1.01E+08
8/10/1954	50900	374	14.7		
	50900	775	30.5		
	50900	707	27.8		
	50900	1023	40.2	28.3	6.92E+07
8/11/1954	50900	864	33.9		
	50900	1428	56.1		
	50900	1633	64.2		
	50900	1667	65.5	54.9	1.34E+08
8/12/1954	50900	2552	100.3		
	50900	2190	86.1		
	50900	0.0	0.0		
	50900	1288	50.6	59.2	1.45E+08
8/13/1954	50900	494	19.4		
Friday	50900	1136	44.6		
	50900	0			
	50900	1201	47.2	37.1	9.07E+07
8/16/1954	50900	1348	53.0		
Monday	50900	1308	51.4		
	50900	959	37.7		
	50900	1483	58.3	50.1	1.23E+08
8/17/1954	50900	988	38.8		
	50900	896	35.2		
	50900	525	20.6		
	50900	738	29.0	30.9	7.56E+07
8/18/1954	50900	456	17.9		
	50900	463	18.2		
	50900	403	15.8		
	50900	699	27.5	19.9	4.86E+07
8/18/1954	50900	929	36.5		
	50900	929	36.5		
	50900	554	21.8		
	50900	903	35.5	32.6	7.97E+07
8/20/1954	50900	768	30.2		
Friday	50900	531	20.9		
	50900	362	14.2		
	50900	508	20.0	21.3	5.21E+07
8/23/1954	50900	451	17.7		
Monday	50900	519	20.4		
	50900	355	13.9		
	50900	721	28.3	20.1	4.92E+07
8/24/1954	50900	575	22.6		
	50900	616	24.2		
	50900	443	17.4		
	50900	0.0	0.0	16.1	3.93E+07
8/25/1954	50900	933	36.7		
	50900	770	30.3		
	50900	527	20.7		
	50900	186	7.3	23.7	5.81E+07
8/26/1954	50900	1362	53.5		

	50900	1390	54.6		
	50900	1247	49.0		
	50900	1720	67.6	56.2	1.37E+08
8/27/1954	50900	2492	97.9		
Friday	50900	2179	85.6		
	50900	1270	49.9		
	50900	2514	98.8	83.1	2.03E+08
8/30/1954	50900	482	18.9		
Monday	50900	778	30.6		
	50900	712	28.0		
	50900	1049	41.2	29.7	7.26E+07
8/31/1954	50900	1087	42.7		
	50900	907	35.6		
	50900	855	33.6		
	50900	1087	42.7	38.7	9.46E+07

August 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
2.06E+09	9.29E-04	0.015	0.330	22

September 1954

date	L	c/m	d/m/m3	average	dpm/day
9/1/1954	50900	1893	74.4		
	50900	2012	79.1		
	50900	2046	80.4		
	50900	2777	109.1	85.7	2.10E+08
9/2/1954	50900	692	27.2		
	50900	547	21.5		
	50900	554	21.8		
	50900	683	26.8	24.3	5.95E+07
9/3/1954	50900	665	26.1		
Friday	50900	633	24.9		
	50900	597	23.5		
	50900	720	28.3	25.7	6.29E+07
9/7/1954	50900	1435	56.4		
Tuesday	50900	850	33.4		
	50900	720	28.3		
	50900	492	19.3	34.4	8.41E+07
9/8/1954	50900	1174	46.1		
	50900	760	29.9		
	50900	389	15.3		
	50900	392	15.4	26.7	6.53E+07
9/9/1954	50900	910	35.8		
	50900	580	22.8		
	50900	476	18.7		
	50900	578	22.7	25.0	6.11E+07

9/10/1954	50900	955	37.5		
Friday	50900	727	28.6		
	50900	337	13.2		
	50900	311	12.2	22.9	5.60E+07
9/13/1954	50900	2346	92.2		
Monday	50900	1381	54.3		
	50900	697	27.4		
	50900	774	30.4	51.1	1.25E+08
9/14/1954	50900	704	27.7		
	50900	912	35.8		
	50900	757	29.7		
	50900	1019	40.0	33.3	8.15E+07
9/15/1954	50900	17950	705.3		
	50900	8651	339.9		
	50900	3293	129.4		
	50900	2492	97.9	318.1	7.78E+08
9/16/1954	50900	1555	61.1		
	50900	1393	54.7		
	50900	989	38.9		
	50900	1605	63.1	54.4	1.33E+08
9/17/1954	50900	1864	73.2		
Friday	50900	1440	56.6		
	50900	1173	46.1		
	50900	1486	58.4	58.6	1.43E+08
9/20/1954	50900	1045	41.1		
Monday	50900	691	27.2		
	50900	648	25.5		
	50900	910	35.8	32.4	7.92E+07
9/21/1954	50900	4693	184.4		
	50900	2396	94.1		
	50900	1264	49.7		
	50900	1139	44.8	93.2	2.28E+08
9/22/1954	50900	313	12.3		
	50900	492	19.3		
	50900	493	19.4		
	50900	756	29.7	20.2	4.94E+07
9/23/1954	50900	422	16.6		
	50900	546	21.5		
	50900	667	26.2		
	50900	702	27.6	23.0	5.62E+07
9/24/1954	50900	511	20.1		
Friday	50900	697	27.4		
	50900	671	26.4		
	50900	910	35.8	27.4	6.70E+07
9/27/1954	50900	1736	68.2		
Monday	50900	1041	40.9		
	50900	686	27.0		
	50900	806	31.7	41.9	1.03E+08
9/28/1954	50900	546	21.5		
	50900	462	18.2		

	50900	638	25.1		
	50900	872	34.3	24.7	6.05E+07
9/29/1954	50900	222	8.7		
	50900	245	9.6		
	50900	331	13.0		
	50900	504	19.8	12.8	3.13E+07
9/30/1954	50900	489	19.2		
	50900	509	20.0		
	50900	729	28.6		
	50900	1170	46.0	28.5	6.96E+07

September 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
2.60E+09	1.17E-03	0.019	0.390	21

October 1954

date	L	c/m	d/m/m3	average	dpm/day
10/1/1954	50900	659	25.9		
Friday	50900	1038	40.8		
	50900	1147	45.1		
	50900	1817	71.4	45.8	1.12E+08
10/4/1954	50900	34916	1371.9		
Monday	50900	8095	318.1		
	50900	6342	249.2		
	50900	4839	190.1	532.3	1.30E+09
10/5/1954	50900	9603	377.3		
	50900	3598	141.4		
	50900	2696	105.9		
	50900	2731	107.3	183.0	4.48E+08
10/6/1954	50900	568	22.3		
	50900	720	28.3		
	50900	690	27.1		
	50900	1005	39.5	29.3	7.17E+07
10/7/1954	50900	44765	1758.9		
	50900	19205	754.6		
	50900	8051	316.3		
	50900	4947	194.4	756.1	1.85E+09
10/8/1954	50900	49	1.9		
Friday	50900	347	13.6		
	50900	672	26.4		
	50900	371	14.6	14.1	3.46E+07
10/11/1954	50900	663	26.1		
Monday	50900	1279	50.3		
	50900	1417	55.7		
	50900	1807	71.0	50.7	1.24E+08
10/12/1954	50900	775	30.5		

	50900	391	15.4		
	50900	272	10.7		
	50900	428	16.8	18.3	4.49E+07
10/13/1954	50900	998	39.2		
	50900	924	36.3		
	50900	736	28.9		
	50900	940	36.9	35.3	8.65E+07
10/14/1954	50900	1624	63.8		
	50900	1223	48.1		
	50900	702	27.6		
	50900	713	28.0	41.9	1.02E+08
10/15/1954	50900	702	27.4		
Friday	50900	621	24.4		
	50900	639	25.1		
	50900	913	35.9	28.2	6.90E+07
10/18/1954	50900	11251	442.1		
Monday	50900	6090	239.3		
	50900	2434	95.6		
	50900	1510	59.3	209.1	5.12E+08
10/19/1954	50900	5499	216.1		
	50900	5151	202.4		
	50900	3567	140.2		
	50900	5504	216.3	193.7	4.74E+08
10/20/1954	50900	2059	80.9		
	50900	1377	54.1		
	50900	688	27.0		
	50900	896	35.2	49.3	1.21E+08
10/21/1954	50900	456	17.9		
	50900	704	27.7		
	50900	2155	84.7		
	50900	1179	46.3	44.1	1.08E+08
10/22/1954	50900	224	8.8		
Friday	50900	340	13.4		
	50900	296	11.6		
	50900	380	14.9	12.2	2.98E+07
10/25/1954	50900	191	7.5		
Monday	50900	154	6.1		
	50900	424	16.7		
	50900	139	5.5	8.9	2.18E+07
10/26/1954	50900	0	0.0		
	50900	310	12.2		
	50900	340	13.4		
	50900	415	16.3	10.5	2.56E+07
10/27/1954	50900				
	50900	10127	397.9		
	50900	10182	400.1		
	50900	17961	705.7	501.2	1.23E+09
10/28/1954	50900	879	34.5		
	50900	1709	67.2		
	50900	1654	65.0		

	50900	2634	103.5	67.5	1.65E+08
10/29/1954	50900	56407	2216.4		
Friday	50900	33837	1329.5		
	50900	12219	480.1		
	50900	5571	218.9	1061.2	2.60E+09

October 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
9.53E+09	4.29E-03	0.069	1.450	21

November 1954

date	L	c/m	d/m/m3	average	dpm/day
11/1/1954	50900	905	35.6		
Monday	50900	1516	59.6		
	50900	1622	63.7		
	50900	2231	87.7	61.6	1.51E+08
11/2/1954	50900	1862	73.2		
	50900	1789	70.3		
	50900	1342	52.7		
	50900	1571	61.7	64.5	1.58E+08
11/3/1954	50900	1440	56.6		
	50900	1591	62.5		
	50900	1381	54.3		
	50900	1703	66.9	60.1	1.47E+08
11/4/1954	50900	766	30.1		
	50900	1189	46.7		
	50900	1228	48.3		
	50900	1676	65.9	47.7	1.17E+08
11/5/1954	50900	3398	133.5		
Friday	50900	2555	100.4		
	50900	1563	61.4		
	50900	1621	63.7	89.8	2.20E+08
11/8/1954	50900	2172	85.3		
Monday	50900	1843	72.4		
	50900	1825	71.7		
	50900	2077	81.6	77.8	1.90E+08
11/9/1954	50900	742	29.2		
	50900	1054	41.4		
	50900	1277	50.2		
	50900	1501	59.0	44.9	1.10E+08
11/10/1954	50900	752	29.5		
	50900	1037	40.7		
	50900	1295	50.9		
	50900	1634	64.2	46.3	1.13E+08
11/12/1954	50900	799	31.4		
Friday	50900	580	22.8		

	50900	471	18.5		
	50900	612	24.0	24.2	5.92E+07
11/15/1954	50900	1283	50.4		
Monday	50900	755	29.7		
	50900	600	23.6		
	50900	555	21.8	31.4	7.67E+07
11/16/1954	50900	1829	71.9		
	50900	1336	52.5		
	50900	1450	57.0		
	50900	1905	74.9	64.0	1.57E+08
11/17/1954	50900	1045	41.1		
	50900	700	27.5		
	50900	615	24.2		
	50900	697	27.4	30.0	7.35E+07
11/18/1954	50900	575	22.6		
	50900	453	17.8		
	50900	378	14.9		
	50900	456	17.9	18.3	4.48E+07
11/19/1954	50900	917	36.0		
Friday	50900	644	25.3		
	50900	725	28.5		
	50900	1000	39.3	32.3	7.90E+07
11/22/1954	50900	277	10.9		
Monday	50900	279	11.0		
	50900	419	16.5		
	50900	524	20.6	14.7	3.60E+07
11/23/1954	50900	432	17.0		
	50900	354	13.9		
	50900	354	13.9		
	50900	474	18.6	15.9	3.88E+07
11/24/1954	50900	506	19.9		
	50900	332	13.0		
	50900	347	13.6		
	50900	474	18.6	16.3	3.99E+07
11/26/1954	50900	3023	118.8		
Friday	50900	5537	217.6		
	50900	6928	272.2		
	50900	10844	426.1	258.7	6.33E+08
11/29/1954	50900	615	24.2		
Monday	50900	826	32.5		
	50900	1010	39.7		
	50900	1606	63.1	39.9	9.75E+07
11/30/1954	50900	268	10.5		
	50900	523	20.6		
	50900	725	28.5		
	50900	1013	39.8	24.8	6.08E+07

November 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
2.60E+09	1.17E-03	0.019	0.380	20

December 1954

date	L	c/m	d/m/m3	average	dpm/day
12/1/1954	50900	626	24.6		
	50900	671	26.4		
	50900	945	37.1		
	50900	1175	46.2	33.6	8.21E+07
12/2/1954	50900	7408	291.8		
	50900	3806	149.5		
	50900	2357	92.6		
	50900	1323	52.0	146.5	3.58E+08
12/3/1954	50900	1487	58.4		
	50900	2648	104.0		
	50900	3260	128.1		
	50900	4935	193.9	121.1	2.96E+08
12/6/1954	50900	2006	78.8		
	50900	1093	42.9		
	50900	811	31.9		
	50900	409	16.1	42.4	1.04E+08
12/7/1954	50900	450	17.7		
	50900	787	30.9		
	50900	848	33.3		
	50900	1367	53.7	33.9	8.30E+07
12/8/1954	50900	377	14.8		
	50900	581	22.8		
	50900	709	27.9		
	50900	1162	45.7	27.8	6.80E+07
12/9/1954	50900	457	18.0		
	50900	472	18.5		
	50900	606	23.8		
	50900	821	32.3	23.1	5.66E+07
12/10/1954	50900	259	10.2		
	50900	428	16.8		
	50900	507	19.9		
	50900	897	35.2	20.5	5.03E+07
12/13/1954	50900	276	10.8		
	50900	234	9.2		
	50900	254	10.0		
	50900	551	21.7	12.9	3.16E+07
12/14/1954	50900	425	16.7		
	50900	550	21.6		
	50900	642	25.2		
	50900	998	39.2	25.7	6.29E+07
12/15/1954	50900	583	22.9		

	50900	731	28.7		
	50900	589	23.1		
	50900	1381	54.3	32.3	7.89E+07
12/16/1954	50900	654	25.7		
	50900	773	30.4		
	50900	814	32.0		
	50900	1314	51.6	34.9	8.54E+07
12/17/1954	50900	295	11.6		
Friday	50900	399	15.7		
	50900	669	26.3		
	50900	682	26.8	20.1	4.92E+07
12/20/1954	50900	121	4.8		
Monday	50900	212	8.3		
	50900	236	9.3		
	50900	325	12.8	8.8	2.15E+07
12/21/1954	50900	3210	126.1		
	50900	587	23.1		
	50900	579	22.8		
	50900	1096	43.1	53.8	1.32E+08
12/22/1954	50900	219	8.6		
	50900	219	8.6		
	50900	239	9.4		
	50900	559	22.0	12.1	2.97E+07
12/23/1954	50900	3955	155.4		
Thursday	50900	2416	94.9		
	50900	1480	58.2		
	50900	1263	49.6	89.5	2.19E+08
12/27/1954	50900	493	19.4		
Monday	50900	480	18.9		
	50900	563	22.1		
	50900	1668	65.5	31.5	7.70E+07
12/28/1954	50900	546	21.5		
	50900	625	24.6		
	50900	1692	66.5		
	50900	5976	234.8	86.8	2.12E+08
12/29/1954	50900	476	18.4		
	50900	738	29.0		
	50900	862	33.9		
	50900	1436	56.4	34.4	8.42E+07
12/30/1954	50900	348	13.7		
	50900	397	15.6		
	50900	453	17.8		
	50900	832	32.7	19.9	4.88E+07
12/31/1954	20400	111	10.9		
Friday	20400	120	11.8		
	20400	181	17.7		
	20400	279	27.4	16.9	4.14E+07

December 1954 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
2.27E+09	1.02E-03	0.017	0.360	22

1954 annual summary

dpm/year	Ci/year	g/year	Hyatt g/year	Ratio
3.26E+10	1.47E-02	2.37E-01	5.01E+00	21

January 1955

date	L	c/m	d/m/m3	average	dpm/day
1/3/1955	50900	517	20.3		
Monday	50900	960	37.7		
	50900	407	16.0		
	50900	1643	64.6	34.6	8.48E+07
1/4/1955	50900	295	11.6		
	50900	482	18.9		
	50900	616	24.2		
	50900	887	34.9	22.4	5.48E+07
1/5/1955	50900	248	9.7		
	50900	362	14.2		
	50900	450	17.7		
	50900	792	31.1	18.2	4.45E+07
1/6/1955	50900	2338	91.9		
	50900	1578	62.0		
	50900	1284	50.5		
	50900	1792	70.4	68.7	1.68E+08
1/7/1955	50900	293	11.5		
Friday	50900	418	16.4		
	50900	518	20.4		
	50900	905	35.6	21.0	5.13E+07
1/10/1955	50900	444	17.4		
Monday	50900	755	29.7		
	50900	934	36.7		
	50900	1274	50.1	33.5	8.19E+07
1/11/1955	50900	247	9.7		
	50900	419	16.5		
	50900	502	19.7		
	50900	804	31.6	19.4	4.74E+07
1/12/1955	50900	208	8.2		
	50900	237	9.3		
	50900	321	12.6		
	50900	479	18.8	12.2	2.99E+07
1/13/1955	50900	242	9.5		
	50900	461	18.1		
	50900	584	22.9		
	50900	836	32.8	20.9	5.10E+07
1/14/1955	50900	514	20.2		

Fri	50900	818	32.1		
	50900	1060	41.7		
	50900	2050	80.6	43.6	1.07E+08
1/17/1955	50900	480	18.9		
Monday	50900	562	22.1		
	50900	512	20.1		
	50900	1168	45.9	26.7	6.54E+07
1/18/1955	50900	382	15.0		
	50900	662	26.0		
	50900	89	3.5		
	50900	662	26.0	17.6	4.31E+07
1/19/1955	50900	619	24.3		
	50900	851	33.4		
	50900	702	27.6		
	50900	1554	61.1	36.6	8.96E+07
1/20/1955	50900	281	11.0		
	50900	441	17.3		
	50900	384	15.1		
	50900	938	36.9	20.1	4.91E+07
1/21/1955	50900	2238	87.9		
Fri	50900	2555	100.4		
	50900	1065	41.8		
	50900	2843	111.7	85.5	2.09E+08
1/24/1955	50900	1466	57.6		
Monday	50900	1774	69.7		
	50900	1340	52.7		
	50900	2017	79.3	64.8	1.59E+08
1/25/1955	50900	226	8.9		
	50900	301	11.8		
	50900	303	11.9		
	50900	542	21.3	13.5	3.30E+07
1/26/1955	50900	452	17.8		
	50900	697	27.4		
	50900	550	21.6		
	50900	1317	51.7	29.6	7.25E+07
1/27/1955	50900	199	7.8		
	50900	321	12.6		
	50900	255	10.0		
	50900	523	20.6	12.8	3.12E+07
1/28/1955	50900	683	26.8		
Fri	50900	1133	44.5		
	50900	994	39.1		
	50900	2190	86.1	49.1	1.20E+08
1/31/1955	50900	1300	51.1		
Monday	50900	1562	61.4		
	50900	632	24.8		
	50900	533	20.9	39.6	9.68E+07

January 1955 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
1.69E+09	7.61E-04	0.01227	0.26	21

February 1955

	date	L	c/m	d/m/m3	average	dpm/day
2/1/1955	50900	841	33.0			
	50900	1148	45.1			
	50900	567	22.3			
	50900	1649	64.8	41.3	1.01E+08	
2/2/1955	50900	5185	203.7			
	50900	4223	165.9			
	50900	1990	78.2			
	50900	2385	93.7	135.4	3.31E+08	
2/3/1955	50900	591	23.2			
	50900	464	18.2			
	50900	337	13.2			
	50900	452	17.8	18.1	4.43E+07	
2/4/1955	50900	857	33.7			
	50900	859	33.8			
	50900	734	28.8			
	50900	1366	53.7	37.5	9.17E+07	
2/7/1955	50900	380	14.9			
	50900	522	20.5			
	50900	370	14.5			
	50900	1095	43.0	23.3	5.69E+07	
2/8/1955	50900	3428	134.7			
	50900	3141	123.4			
	50900	2244	88.2			
	50900	3323	130.6	119.2	2.92E+08	
2/9/1955	50900	1018	40.0			
	50900	1335	52.5			
	50900	1393	54.7			
	50900	2353	92.5	59.9	1.47E+08	
2/10/1955	50900	858	33.7			
	50900	1379	54.2			
	50900	1065	41.8			
	50900	1798	70.6	50.1	1.23E+08	
2/11/1955	50900	0	0.0			
	50900	970	38.1			
	50900	743	29.2			
	50900	1486	58.4	31.4	7.69E+07	
2/14/1955	50900	4600	180.7			
	50900	2764	107.8			
	50900	1068	42.0			
	50900	2422	95.2	106.4	2.60E+08	
2/15/1955	50900	3898	153.2			

	50900	2555	100.4			
	50900	2356	92.6			
	50900	3875	152.3	124.6	3.05E+08	
2/16/1955	50900	2241	88.1			
	50900	1290	50.7			
	50900	1301	51.1			
	50900	1847	72.6	65.6	1.61E+08	
2/17/1955	50900	2035	80.0			
	50900	2239	88.0			
	50900	2654	104.3			
	50900	4242	166.7	109.7	2.68E+08	
2/18/1955	50900	491	19.3			
Fri	50900	638	2.6			
	50900	666	26.2			
	50900	1206	47.4	23.9	5.84E+07	
2/21/1955	50900	951	37.4			
Monday	50900	951	37.4			
	50900	818	32.1			
Presidents' day	50900	1405	55.2	40.5	9.91E+07	
2/23/1955	50900	2810	110.4			
We	50900	3684	144.8			
	50900	3972	156.1			
	50900	7248	284.8	174.0	4.26E+08	
2/24/1955	50900	1176	46.2			
Th	50900	1561	61.3			
	50900	1453	57.1			
	50900	288	11.3	44.0	1.08E+08	
2/25/1955	50900	679	26.7			
Fri	50900	950	37.3			
	50900	1065	41.8			
	50900	1547	60.8	41.7	1.02E+08	
2/28/1955	50900	886	34.8			
Monday	50900	1079	42.4			
	50900	1154	45.3			
	50900	2122	83.4	51.5	1.26E+08	

February 1955 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
3.18E+09	1.43E-03	0.023	0.43	19

March 1955

date	L	c/m	d/m/m3	average	dpm/day
3/1/1955	50900	1031	40.5		
	50900	1144	45.0		
	50900	1218	47.9		
	50900	1868	73.4	51.7	1.26E+08

3/2/1955	50900	738	29.0			
	50900	1059	41.6			
	50900	1180	46.4			
	50900	2097	82.4	49.8	1.22E+08	
3/3/1955	50900	1514	59.5			
	50900	2115	83.1			
	50900	3365	132.2			
	50900	3794	149.1	106.0	2.59E+08	
3/5/1955	50900	362	14.2			
Fri	50900	468	18.4			
	50900	600	23.6			
	50900	852	33.5	22.4	5.48E+07	
3/7/1955	50900	2119	83.3			
Monday	50900	1752	68.8			
	50900	526	20.7			
	50900	1683	66.1	59.7	1.46E+08	
3/8/1955	50900	1228	48.3			
	50900	1086	42.7			
	50900	1032	40.6			
	50900	1745	68.6	50.0	1.22E+08	
3/9/1955	50900	660	25.9			
	50900	551	21.7			
	50900	531	20.9			
	50900	851	33.4	25.5	6.23E+07	
3/10/1955	50900	91896	3610.8			
	50900	60940	2394.5			
	50900	27065	1063.5			
	50900	25309	994.5	2015.8	4.93E+09	
3/11/1955	50900	1020	40.1			
Fri	50900	1285	50.5			
	50900	1292	50.8			
	50900	2322	91.2	58.1	1.42E+08	
3/14/1955	50900	2585	101.6			
Monday	50900	1979	77.8			
	50900	1195	47.0			
	50900	545	21.4	61.9	1.52E+08	
3/15/1955	50900	526	20.7			
	50900	484	19.0			
	50900	429	16.9			
	50900	811	31.9	22.1	5.41E+07	
3/16/1955	50900	1176	46.2			
	50900	1400	55.0			
	50900	1446	56.8			
	50900	2454	96.4	63.6	1.56E+08	
3/17/1955	50900	562	22.1			
	50900	486	19.1			
	50900	588	23.1			
	50900	847	33.3	24.4	5.97E+07	
3/18/1955	50900	725	28.5			
Fri	50900	886	34.8			

	50900	1165	45.8		
	50900	1892	74.3	45.9	1.12E+08
3/20/1955	50900	580	22.8		
Monday	50900	699	27.5		
	50900	898	35.3		
	50900	1474	57.9	35.9	8.78E+07
3/22/1955	50900	948	37.2		
	50900	1385	54.4		
	50900	1634	64.2		
	50900	2904	114.1	67.5	1.65E+08
3/23/1955	50900	1053	41.4		
	50900	795	31.2		
	50900	956	37.6		
	50900	2015	79.2	47.3	1.16E+08
3/24/1955	50900	379	14.9		
	50900	535	21.0		
	50900	665	26.1		
	50900	1332	52.3	28.6	7.00E+07
3/25/1955	50900	338	13.3		
Fri	50900	487	19.1		
	50900	475	18.7		
	50900	853	33.5	21.1	5.17E+07
3/28/1955	50900	280	11.0		
Monday	50900	423	16.6		
	50900	481	18.9		
	50900	781	30.7	19.3	4.72E+07
3/29/1955	50900	350	13.8		
	50900	427	16.8		
	50900	457	18.0		
	50900	932	36.6	21.3	5.21E+07
3/30/1955	50900	472	18.5		
	50900	565	22.2		
	50900	671	26.4		
	50900	1233	48.4	28.9	7.07E+07
3/31/1955	50900	407	16.0		
	50900	485	19.1		
	50900	441	17.3		
	50900	815	32.0	21.1	5.16E+07

March 1955 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
7.2133E+09	3.25E-03	0.05241	1.21	23

April 1955

date	L	c/m	d/m/m3	average	dpm/day
4/1/1955	50900	532	20.9		

Fri	50900	656	25.8		
	50900	874	34.3		
	50900	1432	56.3	34.3	8.40E+07
4/4/1955	50900	537	21.1		
Monday	50900	802	31.5		
	50900	521	20.5		
	50900	701	27.5	25.2	6.16E+07
4/5/1955	50900	5335	209.6		
	50900	3150	123.8		
	50900	1523	59.8		
	50900	780	30.6	106.0	2.59E+08
4/6/1955	50900	2839	111.6		
	50900	1723	67.7		
	50900	887	34.9		
	50900	708	27.8	60.5	1.48E+08
4/7/1955	50900	1404	55.2		
	50900	748	29.4		
	50900	962	37.8		
	50900	1294	50.8	43.3	1.06E+08
4/8/1955	50900	379	14.9		
Fri	50900	279	11.0		
	50900	221	8.7		
	50900	387	15.2	12.4	3.04E+07
4/11/1955	50900	2276	89.4		
Monday	50900	1793	70.5		
	50900	3727	146.4		
	50900	1940	76.2	95.6	2.34E+08
4/12/1955	50900	504	19.8		
	50900	343	13.5		
	50900	332	13.0		
	50900	522	20.5	16.7	4.09E+07
4/13/1955	50900	956	37.6		
	50900	512	20.1		
	50900	357	14.0		
	50900	1043	41.0	28.2	6.89E+07
4/14/1955	50900	572	22.5		
	50900	465	18.3		
	50900	727	28.6		
	50900	996	39.1	27.1	6.63E+07
4/15/1955	50900	339	13.3		
Fri	50900	337	13.2		
	50900	421	16.5		
	50900	597	23.5	16.6	4.07E+07
4/18/1955	50900	37643	1479.1		
Monday	50900	37145	1459.5		
	50900	46881	1842.1		
	50900	62924	2472.5	1813.3	4.44E+09
4/19/1955	50900	3898	153.2		
	50900	3047	119.7		
	50900	3361	132.1		

	50900	4375	171.9	144.2	3.53E+08
4/20/1955	50900	2591	101.8		
	50900	3226	126.8		
	50900	3447	135.4		
	50900	5809	228.3	148.1	3.62E+08
4/21/1955	50900	2239	88.0		
	50900	2852	112.1		
	50900	3413	134.1		
	50900	5399	212.1	136.6	3.34E+08
4/22/1955	50900	1676	65.9		
Fri	50900	2260	88.8		
	50900	2732	107.3		
	50900	4186	164.5	106.6	2.61E+08
4/25/1955	50900	4089	160.7		
Monday	50900	6549	257.3		
	50900	8384	329.4		
	50900	13722	539.2	321.7	7.87E+08
4/26/1955	50900	1762	69.2		
	50900	1420	55.8		
	50900	1777	69.8		
	50900	2795	109.8	76.2	1.86E+08
4/27/1955	50900	10001	393.0		
	50900	6342	249.2		
	50900	14505	569.9		
	50900	24312	955.3	541.8	1.33E+09
4/28/1955	50900	3174	124.7		
	50900	3854	151.4		
	50900	4952	194.6		
	50900	7763	305.0	193.9	4.75E+08
4/29/1955	50900	9124	358.5		
Fri	50900	11374	446.9		
	50900	13501	530.5		
	50900	21249	834.9	542.7	1.33E+09

April 1955 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
1.10E+10	4.95E-03	0.080	1.670	21

May 1955

date	L	c/m	d/m/m3	average	dpm/day
5/2/1955	50900	7073	277.9		
Monday	50900	8490	333.6		
	50900	5402	212.3		
	50900	17012	668.4	373.1	9.13E+08
5/3/1955	50900	4427	173.9		
	50900	5159	202.7		

	50900	6489	255.0		
5/4/1955	50900	11198	440.0	267.9	6.56E+08
	50900	1632	64.1		
	50900	1921	75.5		
	50900	2212	86.9		
	50900	3840	150.9	94.4	2.31E+08
5/5/1955	50900	1930	75.8		
	50900	2004	78.7		
	50900	2431	95.5		
	50900	4111	161.5	102.9	2.52E+08
5/6/1955	50900	2897	113.8		
Fri	50900	3389	133.2		
	50900	3430	134.8		
	50900	6426	252.5	158.6	3.88E+08
5/9/1955	50900	5840	229.5		
Monday	50900	6048	237.6		
	50900	7458	293.0		
	50900	12868	505.6	316.4	7.74E+08
5/10/1955	50900	1496	58.8		
	50900	1244	48.9		
	50900	1447	56.9		
	50900	2451	96.3	65.2	1.60E+08
5/11/1955	50900	1885	74.1		
	50900	1853	72.8		
	50900	2357	92.6		
	50900	4006	157.4	99.2	2.43E+08
5/12/1955	50900	2810	110.4		
	50900	3326	130.7		
	50900	4531	178.0		
	50900	7522	295.6	178.7	4.37E+08
5/13/1955	50900	3607	141.7		
Fri	50900	3974	156.1		
	50900	4914	193.1		
	50900	8349	328.1	204.8	5.01E+08
5/16/1955	50900	3013	118.4		
Monday	50900	4186	164.5		
	50900	2526	99.3		
	50900	7988	313.9	174.0	4.26E+08
5/17/1955	50900	4828	189.7		
	50900	5837	229.4		
	50900	7817	307.2		
	50900	12430	488.4	303.7	7.43E+08
5/18/1955	50900	3125	122.8		
	50900	3474	136.5		
	50900	4259	167.3		
	50900	6688	262.8	172.4	4.22E+08
5/19/1955	50900	4399	172.8		
	50900	5537	217.6		
	50900	6459	253.8		
	50900	11265	442.6	271.7	6.65E+08

5/20/1955	50900	3944	155.0		
Fri	50900	4411	173.3		
	50900	5207	204.6		
	50900	7056	277.2	202.5	4.96E+08
5/23/1955	50900	3560	139.9		
Monday	50900	3651	143.5		
	50900	4852	190.6		
	50900	7931	311.6	196.4	4.81E+08
5/24/1955	50900	8786	345.2		
	50900	5497	216.0		
	50900	5906	232.1		
	50900	6336	249.0	260.6	6.38E+08
5/25/1955	50900	6180	242.8		
	50900	3151	123.8		
	50900	5539	217.6		
	50900	5063	198.9	195.8	4.79E+08
5/26/1955	50900	6774	266.2		
	50900	2314	90.9		
	50900	2508	98.5		
	50900	2498	98.2	138.4	3.39E+08
5/27/1955	50900	25587	1005.4		
Fri	50900	34517	1356.3		
	50900	26292	1033.1		
	50900	23797	935.0	1082.4	2.65E+09
5/31/1955	50900	8963	352.2		
Monday	50900	6225	244.6		
	50900	4440	174.5		
	50900	3715	146.0	229.3	5.61E+08

May 1955 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
1.25E+10	5.61E-03	0.090	1.87	21

June 1955

date	L	c/m	d/m/m3	average	dpm/day
6/1/1955	50900	76904	3021.8		
	50900	40363	1586.0		
	50900	22254	874.4		
	50900	14333	563.2	1511.3	3.70E+09
6/2/1955	50900	2747	107.9		
	50900	1841	72.3		
	50900	1649	64.8		
	50900	1127	44.3	72.3	1.77E+08
6/3/1955	50900	1050	41.3		
	50900	909	35.7		
	50900	984	38.7		

	50900	1061	41.7	39.3	9.62E+07
6/6/1955	50900	7981	313.6		
	50900	6465	254.0		
	50900	5243	206.0		
	50900	4381	172.1	236.4	5.79E+08
6/7/1955	50900	4463	175.4		
	50900	3242	127.4		
	50900	2002	78.7		
	50900	1871	73.5	113.7	2.78E+08
6/8/1955	50900	3934	154.6		
	50900	2281	89.6		
	50900	962	37.8		
	50900	1323	52.0	83.5	2.04E+08
6/9/1955	50900	2565	100.8		
	50900	2346	92.2		
	50900	1640	64.4		
	50900	1606	63.1	80.1	1.96E+08
6/10/1955	50900	2340	91.9		
	50900	1974	77.6		
	50900	1655	65.0		
	50900	1363	53.6	72.0	1.76E+08
6/13/1955	50900	2808	110.3		
	50900	2028	79.7		
	50900	1234	48.5		
	50900	1228	48.3	71.7	1.75E+08
6/14/1955	50900	12259	481.7		
	50900	9335	366.8		
	50900	8878	348.8		
	50900	8737	343.3	385.2	9.42E+08
6/15/1955	50900	4994	196.2		
	50900	2925	114.9		
	50900	2788	109.5		
	50900	2601	102.2	130.7	3.20E+08
6/16/1955	50900	7225	283.9		
	50900	6787	266.7		
	50900	6109	240.0		
	50900	7107	279.3	267.5	6.54E+08
6/17/1955	50900	13596	534.2		
	50900	10886	427.7		
	50900	14388	565.3		
	50900	14973	588.3	528.9	1.29E+09
6/20/1955	50900	6212	110.8		
	50900	6534	256.7		
	50900	7765	305.1		
	50900	7088	278.5	237.8	5.82E+08
6/21/1955	50900	17050	669.9		
	50900	7855	308.6		
	50900	10002	393.0		
	50900	10167	399.5	442.8	1.08E+09
6/22/1955	50900	6847.0	269.0		

	50900	4042.0	158.8		
	50900	5665.0	222.6		
	44100	8422.0	382.0	350.4	8.57E+08
6/23/1955	50900	4198	165.0		
	50900	3201	125.8		
	50900	2499	98.2		
	50900	3063	120.4	127.3	3.12E+08
6/24/1955	50900	38366	1507.5		
	50900	25636	1007.3		
	50900	12619	495.8		
	50900	9935	390.4	850.3	2.08E+09
6/27/1955	50900	20065	788.4		
	50900	15185	596.7		
	50900	10233	402.1		
	50900	9284	364.8	538.0	1.32E+09
6/28/1955	50900	76598	3009.7		
	50900	59345	2331.8		
	50900	30330	1191.7		
	50900	24547	964.5	1874.5	4.59E+09
6/29/1955	50900	12802	503.0		
	50900	7606	298.9		
	50900	6918	271.8		
	50900	9793	384.8	364.6	8.92E+08
6/30/1955	50900	8818	346.5		
	50900	7254	285.0		
	50900	5465	214.7		
	50900	7831	307.7	288.5	7.06E+08

June 1955 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
2.12E+10	9.55E-03	0.154	3.37	22

July 1955

date	L	c/m	d/m/m3	average	dpm/day
7/1/1955	50900	5994	235.5		
	50900	4355	171.1		
	50900	5049	198.4		
	50900	7290	286.4	222.9	5.45E+08
7/5/1955	50900	4050	159.1		
	50900	2820	110.8		
	50900	3348	131.6		
	50900	4934	193.9	148.8	3.64E+08
7/6/1955	50900	2818	110.7		
	50900	2205	86.6		
	50900	1490	58.5		
	50900	2089	82.1	84.5	2.07E+08

7/7/1955	50900	5808	228.2		
	50900	2526	99.3		
	50900	2622	103.0		
	50900	3674	144.4	143.7	3.52E+08
7/8/1955	50900	7080	278.2		
	50900	4304	169.1		
	50900	1908	75.0		
	50900	2976	116.9	159.8	3.91E+08
7/11/1955	50900	3768	148.1		
	50900	3452	135.6		
	50900	2866	112.6		
	50900	6625	260.3	164.2	4.02E+08
7/12/1955	50900	2535	99.6		
	50900	2108	82.8		
	50900	1774	69.7		
	50900	3080	121.0	93.3	2.28E+08
7/13/1955	50900	3108	122.1		
	50900	1890	74.3		
	50900	1138	44.7		
	50900	2178	85.6	81.7	2.00E+08
7/14/1955	50900	1024	40.2		
	50900	712	28.0		
	50900	902	35.4		
	50900	1402	55.1	39.7	9.71E+07
7/15/1955	50900	3610	141.8		
	50900	2693	105.8		
	50900	4934	193.9		
	50900	7514	295.2	184.2	4.51E+08
7/18/1955	50900	1858	73.0		
	50900	1502	59.0		
	50900	2977	117.0		
	50900	4621	181.6	107.6	2.63E+08
7/19/1955	50900	1109	43.6		
	50900	904	35.5		
	50900	908	35.7		
	50900	1172	46.1	40.2	9.84E+07
7/20/1955	50900	15634	614.3		
	50900	13609	534.7		
	50900	2903	114.1		
	50900	5283	207.6	367.7	9.00E+08
7/21/1955	50900	725	28.5		
	50900	596	23.4		
	50900	686	27.0		
	50900	1040	40.9	29.9	7.32E+07
7/22/1955	50900	1660	65.2		
	50900	2066	81.2		
	50900	2332	91.6		
	50900	3637	142.9	95.2	2.33E+08
7/25/1955	50900	909	35.7		
	50900	630	24.8		

	50900	1375	54.0		
	50900	2165	85.1	49.9	1.22E+08
7/26/1955	50900	426	16.7		
	50900	691	27.2		
	50900	323	12.7		
	50900	509	20.0	19.1	4.68E+07
7/27/1955	50900	486	19.1		
	50900	273	10.7		
	50900	208	8.2		
	50900	316	12.4	12.6	3.08E+07
7/28/1955	50900	648	25.5		
	50900	1413	55.5		
	50900	1173	46.1		
	50900	2360	92.7	55.0	1.34E+08
7/29/1955	50900	2106	82.8		
	50900	2190	86.1		
	50900	2090	82.1		
	50900	2729	107.2	89.5	2.19E+08

July 1955 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
5.36E+09	2.41E-03	0.039	0.82	21

August 1955

date	L	c/m	d/m/m3	average	dpm/day
8/1/1955	50900	1481	58.2		
	50900	2570	101.0		
	50900	1324	52.0		
	50900	5064	199.0	102.5	2.51E+08
8/2/1955	50900	3171	124.6		
	50900	7475	293.7		
	50900	7036	276.5		
	50900	12389	486.8	295.4	7.23E+08
8/3/1955	50900	2857	112.3		
	50900	2768	108.8		
	50900	32	1.3		
	50900	3278	128.8	87.8	2.15E+08
8/4/1955	50900	29404	1155.4		
	50900	12521	492.0		
	50900	4029	158.3		
	50900	3618	142.2	487.0	1.19E+09
8/5/1955	50900	1994	78.3		
	50900	1473	57.9		
	50900	1153	45.3		
	50900	1502	59.0	60.1	1.47E+08
8/8/1955	50900	1379	54.2		

	50900	3213	126.2		
	50900	2400	94.3		
	50900	4735	186.1	115.2	2.82E+08
8/9/1955	50900	906	35.6		
	50900	1500	58.9		
	50900	1524	59.9		
	50900	2536	99.6	63.5	1.55E+08
8/10/1955	50900	758	29.8		
	50900	1385	54.4		
	50900	1429	56.1		
	50900	2359	92.7	58.3	1.43E+08
8/11/1955	50900	1109	43.6		
	50900	1660	65.2		
	50900	1799	70.7		
	50900	3001	117.9	74.4	1.82E+08
8/12/1955	50900	1687	66.3		
	50900	1584	62.2		
	50900	1610	63.3		
	50900	2590	101.8	73.4	1.80E+08
8/15/1955	50900	861	33.8		
	50900	1032	40.6		
	50900	1264	49.7		
	50900	1758	69.1	48.3	1.18E+08
8/16/1955	50900	4107	161.4		
	50900	9590	376.8		
	50900	10223	401.7		
	50900	14532	571.0	377.7	9.24E+08
8/17/1955	50900	262	10.3		
	50900	447	17.6		
	50900	443	17.4		
	50900	802	31.5	19.2	4.70E+07
8/18/1955	50900	1227	48.2		
	50900	1962	77.1		
	50900	1926	75.7		
	50900	3418	134.3	83.8	2.05E+08
8/19/1955	50900	1482	58.2		
	50900	1084	42.6		
	50900	788	31.0		
	50900	1193	46.9	44.7	1.09E+08
8/22/1955	50900	2384	93.7		
	50900	4595	180.6		
	50900	4163	163.6		
	50900	0	0.0	109.4	2.68E+08
8/23/1955	50900	3051	119.9		
	50900	4197	164.9		
	50900	3725	146.4		
	50900	4063	159.6	147.7	3.61E+08
8/24/1955	50900	955	37.5		
	50900	2378	93.4		
	50900	2613	102.7		

	50900	3216	126.4	90.0	2.20E+08
8/25/1955	50900	5346	210.1		
	50900	6004	235.9		
	50900	3252	127.8		
	50900	2690	105.7	169.9	4.16E+08
8/26/1955	50900	1503	59.1		
	50900	2974	116.9		
	50900	3783	148.6		
	50900	3835	150.7	118.8	2.91E+08
8/29/1955	50900	4081	160.4		
	50900	7746	304.4		
	50900	10388	408.2		
	50900	10653	418.6	322.9	7.90E+08
8/30/1955	50900	825	32.4		
	50900	1689	66.4		
	50900	2034	79.9		
	50900	2368	93.0	67.9	1.66E+08
8/31/1955	50900	1510	59.3		
	50900	4480	176.0		
	50900	6749	265.2		
	50900	5877	230.9	182.9	4.47E+08

August 1955 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
7.83E+09	3.53E-03	0.057	1.30	23

September 1955

date	L	c/m	d/m/m3	average	dpm/day
9/1/1955	50900	3602	141.5		
	50900	4183	164.4		
	50900	5011	196.9		
	50900	5171	203.2	176.5	4.32E+08
9/2/1955	50900	2197	86.3		
	50900	4470	175.6		
	50900	11578	454.9		
	50900	6706	263.5	245.1	6.00E+08
9/6/1955	50900	1376	54.1		
	50900	3370	132.4		
	50900	4069	159.9		
	50900	2811	110.5	114.2	2.79E+08
9/7/1955	50900	1184	46.5		
	50900	1954	76.8		
	50900	10617	417.2		
	50900	2806	110.3	162.7	3.98E+08
9/8/1955	50900	1687	66.3		
	50900	4272	167.9		

	50900	7234	284.2		
9/9/1955	50900	6409	251.8	192.6	4.71E+08
	50900	919	36.1		
	50900	1925	75.6		
	50900	4427	173.9		
	50900	2975	116.9	100.6	2.46E+08
9/12/1955	50900	890	35.0		
	50900	1131	44.4		
	50900	3597	141.3		
	50900	1540	60.5	70.3	1.72E+08
9/13/1955	50900	823	32.3		
	50900	548	21.5		
	50900	1650	64.8		
	50900	1030	40.5	39.8	9.74E+07
9/14/1955	50900	1433	56.3		
	50900	3612	141.9		
	50900	4950	194.5		
	50900	5143	202.1	148.7	3.64E+08
9/15/1955	50900	1041	40.9		
	50900	3061	120.3		
	50900	3365	132.2		
	50900	4297	168.8	115.6	2.83E+08
9/16/1955	50900	3297	129.5		
	50900	8764	344.4		
	50900	8924	350.6		
	50900	13558	532.7	339.3	8.30E+08
9/19/1955	50900	4553	178.9		
	50900	10771	423.2		
	50900	13601	534.4		
	50900	6541	257.0	348.4	8.52E+08
9/20/1955	50900	1243	48.8		
	50900	2365	92.9		
	50900	7398	290.7		
	50900	3708	145.7	144.5	3.54E+08
9/21/1955	50900	2050	80.6		
	50900	5000	196.5		
	50900	10320	405.5		
	50900	7312	287.3	242.5	5.93E+08
9/22/1955	50900	3500	137.5		
	50900	7794	306.2		
	50900	9588	376.7		
	50900	11624	456.7	319.3	7.81E+08
9/23/1955	50900	2854	112.1		
	50900	7736	304.0		
	50900	8063	316.8		
	50900	11834	465.0	299.5	7.33E+08
9/26/1955	50900	2470	97.1		
	50900	4483	176.1		
	50900	6098	239.6		
	50900	4436	174.3	171.8	4.20E+08

9/27/1955	50900	4438	174.4		
	50900	11269	442.8		
	50900	11055	434.4		
	50900	18309	719.4	442.7	1.08E+09
9/28/1955	50900	15844	622.6		
	50900	13423	527.4		
	50900	11079	435.3		
	50900	16572	651.2	559.1	1.37E+09
9/29/1955	50900	13154	516.9		
	50900	11075	435.2		
	50900	9392	369.0		
	50900	14023	551.0	468.0	1.15E+09
9/30/1955	50900	19962	784.4		
	50900	21559	847.1		
	50900	20669	812.1		
	50900	107	4.2	612.0	1.50E+09

September 1955 summary

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
1.30E+10	5.86E-03	0.094	1.98	21

October 1955 (Filter Queen samplers)

date	L	c/m	d/m/m ³	average	dpm/day
10/3/1955	50900	2418	95.0		
	50900	6224	244.6		
	50900	4757	186.9		
	50900	5798	227.8	188.6	4.61E+08
10/4/1955	50900	3072	120.7		
	50900	8389	329.6		
	50900	9488	372.8		
	50900	13017	511.5	333.7	8.16E+08
10/5/1955	50900	1604	63.0		
	50900	3467	136.2		
	50900	5514	216.7		
	50900	6246	245.4	165.3	4.05E+08
10/6/1955	50900	1434	56.3		
	50900	2712	106.6		
	50900	3478	136.7		
	50900	4231	166.2	116.5	2.85E+08
10/7/1955	50900	2715	106.7		
	50900	4905	192.7		
	50900	5644	221.8		
	50900	7894	310.2	207.8	5.09E+08
10/10/1955	50900	3690	145.0		
	50900	7687	302.0		
	50900	10016	393.6		

	50900	13527	531.5	343.0	8.39E+08
10/11/1955	50900	3276	128.7		
	50900	6149	241.6		
	50900	6567	258.0		
	50900	8826	346.8	243.8	5.97E+08
10/12/1955	50900	7746	304.4		
	50900	5400	212.2		
	50900	7423	291.7		
	50900	9643	378.9	296.8	7.26E+08
10/13/1955	50900	6335	248.9		
	50900	5711	224.4		
	50900	5809	228.3		
	50900	6986	274.5	244.0	5.97E+08
10/14/1955	50900	92	3.6		
	50900	6349	249.5		
	50900	7575	297.6		
	50900	9670	380.0	232.7	5.69E+08
10/17/1955	50900	4696	184.5		
	50900	3165	124.4		
	50900	3799	149.3		
	50900	3798	149.2	151.8	3.72E+08
10/18/1955	50900	6487	254.9		
	50900	7968	313.1		
	50900	9066	356.2		
	50900	10000	392.9	329.3	8.06E+08
10/19/1955	50900	12005	471.7		
	50900	11870	466.4		
	50900	15599	612.9		
	50900	20395	801.4	588.1	1.44E+09
10/20/1955	50900	5301	208.3		
	50900	5473	215.0		
	50900	10269	403.5		
	50900	3148	123.7	237.6	5.81E+08
10/21/1955	50900	3615	142.0		
	50900	4135	162.5		
	50900	4652	182.8		
	50900	7351	288.8	194.0	4.75E+08
10/24/1955	50900	10246	402.6		
	50900	9771	383.9		
	50900	6507	255.7		
	50900	6168	242.4	321.1	7.86E+08
10/25/1955	50900	5988	235.3		
	50900	5918	232.5		
	50900	7135	280.4		
	50900	8521	334.8	270.7	6.62E+08
10/26/1955	50900	429131	16861.7		
	50900	182315	7163.7		
	50900	56661	2226.4		
	50900	43126	1694.5	6986.6	1.71E+10
10/27/1955	50900	4180	164.2		

	50900	8505	334.2		
	50900	7090	278.6		
	50900	8653	340.0	279.3	6.83E+08
10/28/1955	50900	6057	238.0		
	50900	9185	360.9		
	50900	12297	483.2		
	50900	16968	666.7	437.2	1.07E+09
10/31/1955	50900	2060	80.9		
	50900	124	4.9		
	50900	5689	223.5		
	50900	6519	256.1	141.4	3.46E+08

October 1955 summary (Filter Queen samplers)

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
3.01E+10	1.36E-02	0.219	4.62	21

November 1955 (Filter Queen samplers)

date	L	c/m	d/m/m ³	average	dpm/day
11/1/1955	50900	2971	116.7		
	50900	4068	159.8		
	50900	8152	320.3		
	50900	4347	170.8	191.9	4.70E+08
11/2/1955	50900	6121	240.5		
	50900	7228	284.0		
	50900	11212	440.6		
	50900	12484	490.5	363.9	8.90E+08
11/3/1955	54300	4371	161.0		
	54300	6076	223.8		
	54300	8377	308.5		
	54300	9867	363.4	264.2	6.46E+08
11/4/1955	50900	11900	467.6		
	50900	8553	336.1		
	50900	7234	284.2		
	50900	8080	317.5	351.3	8.60E+08
11/7/1955	50900	2433	95.6		
	50900	4673	183.6		
	50900	7319	287.6		
	50900	8217	322.9	222.4	5.44E+08
11/8/1955	50900	2625	103.1		
	50900	4820	189.4		
	50900	7828	307.6		
	50900	9952	391.0	247.8	6.06E+08
11/9/1955	50900	17843	701.1		
	50900	5053	198.5		
	50900	6330	248.7		
	50900	7539	296.2	361.1	8.84E+08

11/10/1955	50900	14633	575.0		
	50900	12034	472.8		
	50900	19659	772.5		
11/11 veterans day	50900	25417	998.7	704.7	1.72E+09
11/14/1955	50900	2885	113.4		
	50900	5073	199.3		
	50900	8875	348.7		
	50900	9877	388.1	262.4	6.42E+08
11/15/1955	50900	3456	135.8		
	50900	4292	168.6		
	50900	7575	297.6		
	50900	8131	319.5	230.4	5.64E+08
11/16/1955	50900	757	29.7		
	50900	4303	169.1		
	50900	8735	343.2		
	50900	9537	374.7	229.2	5.61E+08
11/17/1955	50900	1549	60.9		
	50900	447	17.6		
	50900	11477	451.0		
	50900	14704	577.8	276.8	6.77E+08
11/18/1955	50900	2478	97.4		
	50900	4749	186.6		
	50900	6431	252.7		
	50900	7654	300.7	209.4	5.12E+08
11/21/1955	50900	1247	49.0		
	50900	3189	125.3		
	50900	7069	277.8		
	50900	7540	296.3	187.1	4.58E+08
11/22/1955	50900	250	9.8		
	50900	1106	43.5		
	50900	2620	102.9		
	50900	2953	116.0	68.1	1.67E+08
11/23/1955	50900	2212	86.9		
	50900	4867	191.2		
	50900	12912	507.3		
11/24 Thanksgiving	50900	14379	565.0	337.6	8.26E+08
11/25/1955	50900	411	16.1		
	50900	1183	46.5		
	50900	3174	124.7		
	50900	3629	142.6	82.5	2.02E+08
11/28/1955	50900	11	0.4		
	50900	5947	233.7		
	50900	10633	417.8		
	50900	7381	290.0	235.5	5.76E+08
11/29/1955	50900	4250	167.0		
	50900	5479	215.3		
	50900	5375	211.2		
	50900	4534	178.2	192.9	4.72E+08
11/30/1955	50900	5710	224.4		
	50900	2723	107.0		

50900	5687	223.5
50900	6999	275.0
		207.5 5.08E+08

November 1955 summary (Filter Queen samplers)

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
1.28E+10	5.76E-03	0.093	1.82	20

December 1955 (Filter Queen samplers)

date	L	c/m	d/m/m ³	average	dpm/day
12/1/1955	50900	902	35.4		
	50900	1307	51.4		
	50900	3214	126.3		
	50900	3673	144.3	89.4	2.19E+08
12/2/1955	50900	841	33.0		
	50900	1445	56.8		
	50900	3270	128.5		
	50900	4029	158.3	94.2	2.30E+08
12/6/1955	50900	717	28.2		
	50900	1197	47.0		
	50900	2695	105.9		
	50900	2732	107.3	72.1	1.76E+08
12/7/1955	50900	2874	112.9		
	50900	3926	154.3		
	50900	6227	244.7		
	50900	5462	214.6	181.6	4.44E+08
12/8/1955	50900	11577	454.9		
	50900	16135	634.0		
	50900	15570	611.8		
	50900	14823	582.4	570.8	1.40E+09
12/9/1955	50900	1233	48.4		
	50900	2337	91.8		
	50900	5794	227.7		
	50900	5435	213.6	145.4	3.56E+08
12/12/1955	50900	1235	48.5		
	50900	1427	56.1		
	50900	4812	189.1		
	50900	4164	163.6	114.3	2.80E+08
12/13/1955	50900	4863	191.1		
	50900	6520	256.2		
	50900	6399	251.4		
	50900	8684	341.2	260.0	6.36E+08
12/14/1955	50900	5745	225.7		
	50900	5547	218.0		
	50900	10784	423.7		
	50900	13651	536.4	351.0	8.59E+08
12/16/1955	50900	4837	190.1		

	50900	1762	69.2		
	50900	2669	104.9		
	50900	3017	118.5	120.7	2.95E+08
12/19/1955	50900	8383	329.4		
	50900	8944	351.4		
	50900	2416	94.9		
	50900	6042	237.4	253.3	6.20E+08

December 1955 summary (Filter Queen samplers)

dpm/month	Ci/month	g/month	Hyatt g/month	Ratio
5.51E+09	2.48E-03	0.040	0.45	11

1955 Annual summary (Filter Queen samplers)

dpm/year	Ci/year	g/year	Hyatt g/year	Ratio
1.31E+11	5.92E-02	0.95	19.8	21

Special Roof Samplers, October 1955

date	L	c/m	d/m/m3	average	dpm/day
10/17/1955	95400	6954	145.8		
	95400	5968	125.1		
	95400	5090	106.7		
	95400	4277	89.7	116.8	2.86E+08
10/18/1955	95400	10082	211.4		
	95400	16585	347.7		
	95400	19088	400.2		
	95400	13133	275.3	308.6	7.55E+08
10/19/1955	95400	14081	295.2		
	95400	21555	451.9		
	95400	27413	574.7		
	95400	26969	565.4	471.8	1.15E+09
10/20/1955	95400	4107	86.1		
	95400	7679	161.0		
	95400	10809	226.6		
	95400	12180	255.3	182.3	4.46E+08
10/21/1955	95400	4791	100.4		
	95400	9126	191.3		
	95400	10124	212.2		
	95400			168.0	4.11E+08
10/24/1955	95400	20144	422.3		
	95400	21107	442.5		
	95400	20513	430.0		
	95400	14840	311.1	401.5	9.82E+08

10/25/1955	95400	6004	125.9			
	95400	9427	197.6			
	95400	9162	192.1			
	95400	11251	235.9	187.9	4.60E+08	
10/26/1955	95400	596864	12512.9			
	95400	333316	6987.8			
	95400	126743	2657.1			
	95400	71818	1505.6	5915.8	1.45E+10	
10/27/1955	95400	12327	258.4			
	95400	11819	247.8			
	95400	19018	398.7			
	95400	10790	226.2	282.8	6.92E+08	
10/28/1955	95400	6465	135.5			
	95400	12878	270.0			
	95400	16202	339.7			
	95400	22335	468.2	303.4	7.42E+08	
10/31/1955	95400	4429	92.9			
	95400	6280	131.7			
	95400	6776	142.1			
	95400	8958	187.8	138.6	3.39E+08	

Special Roof Samplers, November 1955

date	L	c/m	d/m/m ³	average	dpm/day
11/1/1955	95400	4407	92.4		
	95400	7219	151.3		
	95400	8792	184.3		
	95400	11200	234.8	165.7	4.05E+08
11/2/1955	95400	6904	144.7		
	95400	3272	68.6		
	95400	13068	274.0		
	95400	16396	343.7	207.8	5.08E+08
11/3/1955	95400	5093	106.8		
	95400	9869	206.9		
	95400	10306	216.1		
	95400	12358	259.1	197.2	4.83E+08
11/4/1955	95400	17174	360.0		
	95400	16572	347.4		
	95400	9795	205.3		
	95400	10558	221.3	283.5	6.94E+08
11/7/1955	95400	5138	107.7		
	95400	8955	187.7		
	95400	9373	196.5		
	95400	11829	248.0	185.0	4.53E+08
11/8/1955	95400	2633	55.2		
	95400	7674	160.9		
	95400	10079	211.3		
	95400	12627	264.7	173.0	4.23E+08
11/9/1955	95400	27694	580.6		

	95400	15316	321.1		
	95400	8694	182.3		
	95400	10365	217.3	325.3	7.96E+08
11/10/1955	95400	19073	399.9		
	95400	26894	563.8		
	95400	24488	513.4		
11/11 Veterans Day	95400	34987	733.5	552.6	1.35E+09
11/14/1955	95400	7032	147.4		
	95400	12218	256.1		
	95400	8070	169.2		
	95400	17974	376.8	237.4	5.81E+08
11/15/1955	95400	5210	109.2		
	95400	8957	187.8		
	95400	11448	240.0		
	95400	12781	267.9	201.2	4.92E+08
11/16/1955	95400	3362	70.5		
	95400	7849	164.5		
	95400	11391	238.8		
	95400	13665	286.5	190.1	4.65E+08
11/17/1955	95400	4752	99.6		
	95400	12568	263.5		
	95400	16272	341.1		
	95400	20781	435.7	285.0	6.97E+08
11/18/1955	95400	11016	230.9		
	95400	13523	283.5		
	95400	11011	230.8		
	95400	10081	211.3	239.2	5.85E+08
11/21/1955	95400	5027	105.4		
	95400	8708	182.6		
	95400	9274	194.4		
	95400	11383	238.6	180.3	4.41E+08
11/22/1955	95400	1290	27.0		
	95400	3112	65.2		
	95400	3598	75.4		
	95400	4177	87.6	63.8	1.56E+08
11/23/1955	95400	8196	171.8		
	95400	15592	326.9		
	95400	20739	434.8		
11/24 Thanksgiving	95400	21495	450.6	346.0	8.47E+08
11/25/1955	95400	2101	44.0		
	95400	3719	78.0		
	95400	5752	120.6		
	95400	5822	122.1	91.2	2.23E+08
11/28/1955	95400	54608	1144.8		
	95400	25299	530.4		
	95400	10126	212.3		
	95400	17256	361.8	562.3	1.38E+09
11/29/1955	95400	18605	390.0		
	95400	15910	333.5		
	95400	10982	230.2		

	95400	6424	134.7	272.1	6.66E+08
11/30/1955	95400	21170	443.8		
	95400	9834	206.2		
	95400	10907	228.7		
	95400	8250	173.0	262.9	6.43E+08

Summary of November 1955 data for special roof samplers

dpm/month	Hyatt dpm/month	Ratio
1.229E+10	2.448.E+11	20

Special Roof Samplers, December 1955

date	L	c/m	d/m/m3	average	dpm/day
12/1/1955	95400	3738	78.4		
th	95400	4159	87.2		
	95400	5178	108.6		
	95400	5367	112.5	97	2.37E+08
12/2/1955	95400	2750	57.7		
f	95400	4138	86.8		
	95400	5480	114.9		
	95400	6030	126.4	96	2.36E+08
12/6/1955	95400	3899	81.7		
tu	95400	5621	117.8		
	95400	5648	118.4		
	95400	5184	108.7	107	2.61E+08
12/7/1955	95400	6777	142.1		
w	95400	6884	144.3		
	95400	6883	144.3		
	95400	6598	138.3	142	3.48E+08
12/8/1955	95400	31096	651.9		
th	95400	32640	684.3		
	95400	26258	550.5		
	95400	18386	385.5	568	1.39E+09
12/9/1955	95400	2789	58.5		
f	95400	3976	83.4		
	95400	6455	135.3		
	95400	6170	129.4	102	2.49E+08
12/12/1955	95400	7475	156.7		
m	95400	5197	109.0		
	95400	5428	113.8		
	95400	4804	100.7	120	2.94E+08
12/13/1955	95400	13411	281.2		
tu	95400	13630	285.7		
	95400	12829	269.0		
	95400	10752	225.4	265	6.49E+08
12/14/1955	95400	44649	936.0		
w	95400	19586	410.6		

	95400	20537	430.5		
	95400	15392	322.7	525	1.28E+09
12/16/1955	95400	12669	265.6		
fri	95400	6609	138.6		
	95400	5074	106.4		
	95400	4351	91.2	150	3.68E+08
12/19/1955	95400	14468	303.3		
mon	95400	22720	476.3		
	95400	20254	424.6		
	95400	10214	214.1	355	8.68E+08

Summary of December 1955 data for special roof samplers

dpm/month	Hyatt dpm/month	Ratio
6.18E+09	6.67.E+10	11