B-20-5

COMPARISON OF A.M. & P.M. WEEKLY AVERAGE
HOURLY OUTPUTS FOR THE INDIVIDUAL OPERATORS
OF THE MICA STUDY

76 pages

1928

UNIVERSITY OF WISCONSIN - MILWAUKEE

COMPARISON OF A. M. AND P. M. WEEKLY AVERAGE HOURLY OUTPUTS FOR THE INDIVIDUAL OPERATORS OF THE MICA STUDY

OPERATOR 1			OPERATOR 2			OPERATOR 3			OPERATOR 4			OPERATOR 5		
Average Hourly Output		Percentage Difference	Average Hourly Output		Percentage Difference	Average Hourly Output		Percentage Difference	Average Hourly Output		Percentage Difference	Average Hourly Output		Percentage Difference
A.M.	P.M.	A.M. P.M.	A.M.	P.M.	A.M. P.M.	A.M.	P.M.	A.M. P.M.	A.M.	P.M.	A.M. P.M.	A.M.	P.M.	A.M. P.
AB			198.5	211.1	-6.3	239.9	248.1	-3.4	228.2	225.5	2.1	187.6	198.6	-5.9
"			198.0	199.8	- .9	235.1	242.3	-3.1	216.7	217.6	- .4	170.7	180.3	-5.6
"			190.5	202.8	-6.5	234.5	235.2	- .3	224.7	223.6	.5	180.8	190.8	-5.5
"			206.3	198.1	4.0	233.3	242.3	-3.9	223.7	210.1	6.1	169.6	169.6	-
"			197.3	190.5	3.4	240.5	236.1	1.8	218.1	206.2	5.5	164.0	165.6	-1.0
115.0	125.4	-9.0	197.5	201.0	-1.8	225.2	224.9	.1	215.8	205.5	5.7	174.4	180.1	-3.3
143.1	166.9	-16.6	190.6	192.1	- .8	226.5	245.3	-8.3	223.5	203.7	8.9	154.8	183.2	-18.3
183.6	186.1	- 1.4	185.0	193.4	-5.7	223.0	248.1	-11.3	220.0	202.2	8.9	161.3	174.0	- 7.9
200.0	185.8	7.1	189.7	196.6	-3.6	221.3	248.6	-12.3	213.1	200.5	5.9	165.5	167.3	- 1.1
AB			189.6	182.7	3.6	226.3	241.6	- 6.8	211.9	207.8	1.9	163.5	178.8	- 9.4
"			187.4	181.9	2.9	233.9	241.5	- 3.2	220.0	214.1	2.7	160.1	162.3	- 1.4
"			183.8	180.9	1.6	231.2	241.0	- 4.2	223.1	205.6	7.8	167.3	158.1	5.5
VAC.			VAC.			VAC.			VAC.			VAC.		
VAC.			VAC.			VAC.			VAC.			VAC.		
AB			175.6	158.6	9.7	220.7	237.1	- 7.4	215.5	199.3	7.5	205.6	161.2	21.6
"			182.5	165.5	9.3	221.1	246.7	-11.6	231.0	209.6	9.3	188.2	158.8	15.6
"			172.7	168.3	2.5	219.3	239.5	- 9.2	202.4	193.8	4.3	139.8	160.6	-14.9
*189.4	204.4	- 7.9	176.1	184.2	-4.6	218.7	242.3	-10.8	204.2	196.2	3.9	158.4	157.4	.6
225.1	185.7	17.5	186.5	190.2	-2.0	AB			211.9	207.1	2.3	164.6	170.5	- 3.6
213.5	202.1	5.3	187.7	186.4	- .4	AB			208.7	215.9	-3.4	160.7	168.2	- 4.7
208.6	207.3	.6	179.6	180.2	- .3	225.4	238.0	- 6.5	203.5	197.0	3.2	144.0	181.8	-26.3
160.4	166.1	- 3.6	188.0	187.7	.2	227.9	241.1	- 5.8	216.7	207.2	4.4	167.4	172.0	- 2.7
*209.2	199.9	4.4												

*Substitute Operator No. 1

NOTE: These figures are not comparable with other weekly average hourly output figures as they were not converted.

DON'T DISCLOSE IDENTITIES

From the beginning of these studies, the identities of the persons under study have been kept confidential. We look to you to carry on this trust. Please guard the privacy of those involved by substituting fictitious names, or code symbols for real names.

COMPARISON OF A. M. AND P. M. WEEKLY AVERAGE HOURLY OUTPUTS FOR THE INDIVIDUAL OPERATORS OF THE MICA STUDY

OPERATOR I			OPERATOR 2			OPERATOR 3			OPERATOR 4			OPERATOR 5		
Average Hourly Output		Percentage Difference	Average Hourly Output		Percentage Difference	Average Hourly Output		Percentage Difference	Average Hourly Output		Percentage Difference	Average Hourly Output		Percentag Differen
A.M.	P.M.	A.M. P.M.	A.M.	P.M.	A.M. P.M.	A.M.	P.M.	A.M. P.M.	A.M.	P.M.	A.M. P.M.	A.M.	P.M.	A.M. P.
AB			198.5	211.1	-6.3	239.9	248.1	-3.4	228.2	223.5	2.1	187.6	198.6	-5.9
"			198.0	199.8	- .9	235.1	242.3	-3.1	216.7	217.6	- .4	170.7	180.3	-5.6
"			190.5	202.8	-6.5	234.5	235.2	- .3	224.7	223.6	.5	180.8	190.8	-5.5
"			206.3	198.1	4.0	233.3	242.3	-3.9	223.7	210.1	6.1	169.6	169.6	-
"			197.3	190.5	3.4	240.5	236.1	1.8	218.1	206.2	5.5	164.0	165.6	-1.0
115.0	125.4	-9.0	197.5	201.0	-1.8	225.2	224.9	.1	215.8	203.5	5.7	174.4	180.1	-3.3
143.1	166.9	-16.6	190.6	192.1	- .8	226.5	245.3	-8.3	223.5	203.7	8.9	154.8	183.2	-18.3
183.6	186.1	- 1.4	183.0	193.4	-5.7	223.0	248.1	-11.3	228.0	202.2	8.9	161.3	174.0	- 7.9
200.0	185.8	7.1	189.7	196.6	-3.6	221.3	248.6	-12.3	213.1	200.5	5.9	165.5	167.3	- 1.1
AB			189.6	182.7	3.6	226.3	241.6	- 6.8	211.9	207.8	1.9	163.5	178.8	- 9.4
"			187.4	181.9	2.9	233.9	241.5	- 3.2	220.0	214.1	2.7	160.1	162.3	- 1.4
"			183.8	180.9	1.6	231.2	241.0	- 4.2	223.1	205.6	7.8	167.3	158.1	5.5
VAC.			VAC.			VAC.			VAC.			VAC.		
VAC.			VAC.			VAC.			VAC.			VAC.		
AB			175.6	158.6	9.7	220.7	237.1	- 7.4	215.5	199.3	7.5	205.6	161.2	21.6
"			182.5	165.5	9.3	221.1	246.7	-11.6	231.0	209.6	9.3	188.2	158.8	15.6
"			172.7	168.3	2.5	219.3	239.5	- 9.2	202.4	193.8	4.3	139.8	160.6	-14.9
*189.4	204.4	- 7.9	176.1	184.2	-4.6	218.7	242.3	-10.8	204.2	196.2	3.9	158.4	157.4	.6
225.1	185.7	17.5	186.5	190.2	-2.0	AB			211.9	207.1	2.3	164.6	170.5	- 3.6
213.5	202.1	5.3	187.7	188.4	- .4	AB			208.7	215.9	-3.4	160.7	168.2	- 4.7
208.6	207.3	.6	179.6	180.2	- .3	223.4	238.0	- 6.5	203.5	197.0	3.2	144.0	181.8	-26.3
160.4	166.1	- 3.6	188.0	187.7	.2	227.9	241.1	- 5.8	216.7	207.2	4.4	167.4	172.0	- 2.7
*209.2	199.9	4.4												

*Substitute Operator No. 1

NOTE: These figures are not comparable with other weekly average hourly output figures as they were not converted.

NINETEEN WEEKS RECORD OF A.M. AND P.M. HOURS AND *OUTPUT

MICA TEST OPERATORS

[redacted] im

Operator 1.

Date	A.M. Hours	A.M. O.P.	Weekly A.H.O.	P.M. Hours	P.M. O.P.	Weekly A.H.O.
May 19	Ab.			Ab.		
20	"			"		
21	"			"		
22	"			"		
23	"			"		
24						
26	3:50	425		3:20	350	
27	4:05	518		3:20	500	
28	2:25	260		3:00	405	
29	1:00	100		3:20	375	
30	H-o-l-i-d-a-y					
31						
Total	11:20	1303	115.0	13:	1630	125.4
June 2	Ab.			Ab.		
3	1:30	100		3:20	525	
4	4:10	500		-	-	
5	4:20	650		3:20	555	
6	4:20	700		1:45	325	
7						
Total	14:20	2050	143.1	8:25	1405	166.9
9	4:20	800		3:20	700	
10	4:20	800		3:20	600	
11	4:20	750		3:20	570	
12	4:10	800		3:20	610	
13	Ab.			Ab.		
14						
Total	17:10	3150	183.6	13:20	2480	186.1
16	4:20	800		3:20	660	
17	4:20	890		3:20	575	
18	3:25	740		3:20	666	
19	4:20	850		3:20	550	
20	4:20	870		3:10	615	
Total	20:45	4150	200.0	16:30	3066	185.8
23	Ab.			Ab.		
24	"			"		
25	"			"		
26	"			"		
27	"			"		
28						

*Taken from the Operator count of output.

Date	A.M. Hours	A.M. O.P.	A.M. Weekly A.H.O.	P.M. Hours	P.M. O.P.	P.M. Weekly A.H.O.
30	Ab.			Ab.		
July 1	"			"		
2	"			"		
3	"			"		
4	H-o-l-i-d-a-y					
5						
7	Ab.			Ab.		
8	"			"		
9	"			"		
10	"			"		
11	"			"		
12						

Weeks Ending 7-19 and 7-26 Vacation

28	Ab.			Ab.		
29	"			"		
30	"			"		
31	"			"		
Aug. 1	"			"		
2						
4	"			"		
5	"			"		
6	"			"		
7	"			"		
8	"			"		
9						
11	"			"		
12	"			"		
13	"			"		
14	"			"		
15	"			"		
16						
18	"			"		
19	"			"		
20	"			"		
21	"			"		
22	"			"		
23						

1M-5

Operator 1 Sub.

Date		Hours	A.M. O.P.	Weekly A.H.O.	Hours	A.M. O.P.	Weekly A.H.O.
Aug.	18	4:10	700		3:20	650	
	19	4:20	700		3:20	675	
	20	4:20	900		3:20	700	
	21	4:20	950		3:20	700	
	22	Ab.			Ab.		
	23	17:10	3250	189.4	13:20	2725	204.4
	25	Ab.			Ab.		
	26	4:20	875		3:20	725	
	27	3:20	950		3:20	425	
	28	4:20	950		3:20	675	
	29	4:20	900		3:20	650	
	30						
	Total	16:20	3675	225.1	13:20	2475	185.7
Sept.	1	H-o-l-i-d-a-y					
	2	4:20	950		3:20	650	
	3	4:20	950		3:20	650	
	4	4:20	875		3:20	700	
	5	4:20	925		2:00	425	
	6						
	Total	17:20	3700	213.5	12:	2425	202.1
	8	4:20	975		3:20	800	
	9	4:20	920		3:20	730	
	10	4:20	850		3:20	650	
	11	4:20	900		3:20	650	
	12	4:20	875		3:20	625	
	13						
	Total	21:40	4520	208.6	16:40	3455	207.3

[redacted]

Operator 2.

April	21	4:20	859		4:05	816	
	22	4:20	828		4:05	922	
	23	4:20	893		4:05	887	
	24	4:20	870		4:05	840	
	25	4:20	870		4:05	845	
	26	4:05	790				
Total		25:45	5110	198.5	20:25	4310	211.1
	28	4:20	861		4:05	800	
	29	4:20	845		4:05	785	
	30	4:20	899		4:05	821	
May	1	4:20	857		4:05	860	
	2	4:20	871		4:05	815	
	3	4:05	764				
Total		25:45	5097	198.0	20:25	4081	199.8

Date		A.M. Hours	A.M. O.P.	Weekly A.H.O.	P.M. Hours	P.M. O.P.	Weekly A.H.O.
May	5	4:20	734		4:05	825	
	6	4:20	751		4:05	800	
	7	4:20	865		4:05	850	
	8	4:20	871		4:05	824	
	9	4:20	895		4:05	845	
	10	4:05	790				
Total		25:45	4906	190.5	20:25	4142	202.8
	12	4:20	800		4:05	820	
	13	4:20	947		4:05	815	
	14	4:20	931		4:05	840	
	15	4:20	941		4:05	814	
	16	4:20	933		4:05	757	
	17	4:05	760				
Total		25:45	5312	206.3	20:25	4046	198.1
	19	4:20	819		3:20	616	
	20	4:20	915		3:20	625	
	21	4:20	866		3:20	634	
	22	4:20	820		3:20	650	
	23	4:20	855		3:20	650	
	24						
Total		21:40	4275	197.3	16:40	3175	190.5
	26	4:20	854		3:20	706	
	27	4:20	850		3:20	685	
	28	4:20,	886		3:00	600	
	29	4:20	892		3:20	622	
	30						
	31						
Total		17:20	3422	197.5	13:00	2613	201.0
June	2	4:20	800		3:20	560	
	3	4:20	809		3:20	711	
	4	4:20	861		3:20	632	
	5	4:20	871		3:20	671	
	6	4:20	789		2:00	371	
	7						
Total		21:40	4130	190.6	15:20	2945	192.1
	9	4:20	803		3:20	677	
	10	4:20	844		3:20	600	
	11	4:20	757		3:20	663	
	12	4:20	735		3:20	665	
	13	4:20	826		3:20	618	
	14						
Total		21:40	3965	183.0	16:40	3225	193.4

Date		A.M. Hours	A.M. O.P.	A.M. Weekly A.H.O.	P.M. Hours	P.M. O.P.	P.M. Weekly A.H.O.
June	16	4:20	802		3:20	621	
	17	4:20	816		3:20	644	
	18	4:20	807		3:20	723	
	19	4:20	821		3:20	654	
	20	4:20	865		3:20	635	
	21						
Total		21:40	4111	189.7	16:40	3277	196.6
	23	4:20	820		3:20	600	
	24	4:20	800		3:20	600	
	25	4:20	800		3:20	600	
	26	4:20	800		3:20	610	
	27	4:20	889		3:20	636	
	28						
Total		21:40	4109	189.6	16:40	3046	182.7
	30	4:20	783		3:20	612	
July	1	4:20	790		3:20	625	
	2	4:20	842		3:20	580	
	3	4:20	832		3:20	608	
	4	H-o-l-i-d-a-y					
	5	-17:20					
Total		—/	3247	187.4	13:20	2425	181.9
	7	4:20	766		3:20	619	
	8	4:20	805		3:20	607	
	9	4:20	800		3:20	585	
	10	3:45	712		3:20	612	
	11	4:20	802		3:20	593	
	12						
Total		21:05	3875	183.8	16:40	3016	180.9
	28	4:20	744		3:20	460	
	29	4:20	776		3:20	524	
	30	4:20	797		3:20	590	
	31	4:20	770		3:20	600	
Aug.	1	4:20	718		3:20	470	
	2						
Total		21:40	3805	175.6	16:40	2644	158.6
	4	4:20	725		3:20	475	
	5	4:20	810		3:20	575	
	6	4:20	829		3:20	529	
	7	4:20	825		3:20	580	
	8	4:20	765		3:20	600	
	9						
Total		21:40	3954	182.5	16:40	2759	165.5

Date		A.M. Hours	A.M. O.P.	Weekly A.H.O.	P.M. Hours	P.M. O.P.	Weekly A.H.O.
Aug.	11	4:20	709		3:20	534	
	12	4:20	803		3:20	617	
	13	4:20	783		3:20	530	
	14	4:20	700		3:20	585	
	15	4:20	748		3:20	540	
	16						
Total		21:40	3743	172.7	16:40	2806	168.3
	18	4:20	638		3:20	615	
	19	.4:20	724		3:20	581	
	20	4:20	824		3:20	606	
	21	4:20	825		3:20	635	
	22	4:20	806		3:20	634	
	23						
Total		21:40	3817-	176.1	16:40	3071	184.2
	25	Ab.			Ab.		
	26	4:20	804		3:20	644	
	27	4:20	824		3:20	651	
	28	4:20	830		3:20	625	
	29	4:20	774		3:20	615	
	30						
Total		17:20	3232	186.5	13:20	2535	190.2
Sept.	1	H-o-l-i-d-a-y					
	2	4:20	769		3:20	600	
	3	4:20	834		3:20	651	
	4	4:20	805		3:20	640	
	5	4:20	845		2:10	400	
	6						
Total		17:20	3253	187.7	12:10	2291	188.4
	8	4:20	800		3:20	610	
	9	4:20	805		3:20	600	
	10	4:20	814		3:20	597	
	11	4:20	700		3:20	597	
	12	3:50	682		3:20	600	
	13						
Total		21:10	3801	179.6	16:40	3004	180.2
[redacted]							
Operator 5.							
April	21	4:05	957		2:50	673	
	22	4:05	990		2:50	710	
	23	4:05	1000		2:50	700	
	24	4:05	1000		2:50	700	
	25	4:05	970		2:50	750	
	26	4:05	960				
Total		24 :30	5877	239.9	14:10	3515	248.1

Date		A.M. Hours	A.M. O.P.	Weekly A.H.O.	P.M. Hours	P.M. O.P.	Weekly A.H.O.
April	28	4:05	1000		2:50	650	
	29	4:05	870		2:50	730	
	30	4:05	950		2:50	700	
May	1	4:05	1000		2:50	680	
	2	3:50	930		2:50	670	
	3	4:05	950				
Total		24:15	5700	235.1	14:10	3430	242.3
	5	4:05	950		2:50	610	
	6	4:05	1000		2:50	700	
	7	4:05	965		2:50	670	
	8	4:05	990		2:50	650	
	9	4:05	920		2:50	700	
	10	4:05	920				
Total		24:30	5745	234.5	14:10	3330	235.2
	12	4:05	1000		2:50	700	
	13	4:05	925		2:50	680	
	14	4:05	950		2:50	710	
	15	4:05	980		2:50	690	
	16	4:05	960		2:50	650	
	17	4:05	900				
Total		24:30	5715	233.3	14:10	3430	242.3
	19	4:05	1000		2:05	450	
	20	4:05	975		2:05	475	
	21	2:35	600		2:05	590	
	22	4:05	1000		2:05	470	
	23	4:05	975		2:05	475	
	24						
Total		18:55	4550	240.5	10:25	2460	236.1
	26	4:05	960		2:05	460	
	27	2:40	600		1:15	250	
	28	4:05	900		1:45	380	
	29	4:05	900		2:05	520	
	30						
	31						
Total		14:55	3360	225.2	7:10	1610	224.9
June	2	4:05	950		2:05	520	
	3	4:05	915		2:05	515	
	4	4:05	980		2:05	420	
	5	4:05	870		2:05	560	
	6	4:05	910		1:10	315	
	7						
Total		20:25	4625	226.5	9:30	2330	245.3

Date	Hours	A.M. O.P.	Weekly A.H.O.	Hours	P.M. O.P.	Weekly A.H.O.
June 9	4:05	900		2:05	510	
10	4:05	935		2:05	490	
11	4:05	850		2:05	550	
12	3:40	875		2:05	525	
13	4:05	900		2:05	510	
14						
Total	20:	4460	223.0	10:25	2585	248.1
16	4:05	900		2:05	540	
17	4:05	900		2:05	500	
18	4:05	900		2:05	500	
19	4:05	900		2:05	500	
20	3:50	860	m	2:05	550	
21						
Total	20:10	4460	221.3	10:25	2590	248.6
23	4:05	920		2:05	480	
24	4:05	900		2:05	500	
25	4:05	915		1:45	465	
26	Ab.			2:05	520	
27	4:05	960		2:05	470	
28						
Total	16:20	3695	226.3	10:05	2435	241.6
30	AB.			2:05	520	
July 1	4:05	935		2:05	485	
2	4:05	950		2:05	500	
3	4:05	980		:50	205	
4	H-o-l-i-d-a-y					
5						
Total	12:15	2865	223.9	7:05	1710	241.5
7	3:50	880		2:05	540	
8	4:05	930		2:05	500	
9	3:40	860		2:05	490	
10	3:30	830		2:05	520	
11	4:05	950		1:55	420	
12						
Total	19:10	4430	231.2	10:15	2470	241.0
28	4:05	850		2:05	520	
29	4:05	950		2:05	490	
30	4:05	950		2:05	515	
31	4:05	940		2:05	460	
Aug. 1	4:05	815		2:05	485	
2						
Total	20:25	4505	220.7	10:25	2470	237.1

Date		A.M. Hours	A.M. O.P.	A.M. Weekly A.H.O.	P.M. Hours	P.M. O.P.	P.M. Weekly A.H.O.
Aug.	4	4:05	875		2:05	500	
	5	4:05	875		2:05	545	
	6	4:05	950		2:05	525	
	7	4:05	875		2:05	500	
	8	4:05	940		2:05	500	
	9						
Total		20:25	4515	221.1	10:25	2570	2467
	11	Ab.			2:05	520	
	12	4:05	930		2:05	485	
	13	4:05	880		2:05	520	
	14	4:05	870		2:05	470	
	15	4:05	900		2:05	500	
	16						
Total		16:20	3580	219.3	10:25	2495	239.5
	18	4:05	800		2:05	520	
	19	4:05	900		2:05	500	
	20	4:05	915		2:05	525	
	21	4:05	915		2:05	515	
	22	4:05	935		2:05	465	
	23						
Total		20:25	4465	218.7	10:25	2525	242.3
	25	4:20	950		Ab.		
	26	Ab.			Ab.		
	27	Ab.			Ab.		
	28	Ab.			Ab.		
	29	Ab.			Ab.		
	30						
Total		4:20	950	219.5			
Sept.	1	H-o-l-i-d-a-y					
	2	Ab.			Ab.		
	3	Ab.			Ab.		
	4	Ab.			Ab.		
	5	Ab.			Ab.		
	6						
	8	4:05	900		2:05	550	
	9	4:05	945		2:05	490	
	10	4:05	925		2:05	500	
	11	4:05	900		2:05	500	
	12	3:45	815		1:35	320	
	13						
Total		20:05	4485	223.4	9:55	2360	238.0

Date		A.M. Hours	A.M. O.P.	Weekly A.H.O.	P.M. Hours	P.M. O.P.	Weekly A.H.O.
Operator 4.							
April	21	4:20	1040		4:05	891	
	22	4:20	1000		4:05	955	
	23	4:20	1020		4:05	910	
	24	4:20	1007		4:05	898	
	25	4:20	1000		4:05	910	
	26	4:05	810				
Total		25:45	5877	228.2	20:25	4564	223.5
	28	4:20	908		4:05	892	
	29	4:20	925		4:05	875	
	30	4:20	1000		4:05	910	
May	1	4:20	950		4:05	867	
	2	4:20	1000		4:05	900	
	3	4:05	796				
Total		25:45	5579	216.7	20:25	4444	217.6
	5	4:20	900		4:05	950	
	6	4:20	1015		4:05	932	
	7	4:20	1025		4:05	925	
	8	4:20	980		4:05	895	
	9	4:20	975		4:05	864	
	10	4:05	890				
Total		25:45	5785	224.7	20:25	4566	223.6
	12	4:20	950		4:05	765	
	13	4:20	1050		4:05	928	
	14	4:20	994		4:05	863	
	15	4:20	1017		4:05	897	
	16	4:20	965		4:05	837	
	17	4:05	784				
Total		25:45	5760	223.7	20:25	4290	210.1
	19	4:20	907		3:20	714	
	20	4:20	980		3:20	670	
	21	4:20	950		3:20	674	
	22	4:20	925		3:20	734	
	23	4:20	965		3:20	655	
	24						
Total		21:40	4727	218.1	16:40	3437	206.2
	26	4:20	910		3:20	714	
	27	4:20	915		3:20	644	
	28	4:20	975		3:00	657	
	29	4:20	940		3:20	650	
	30						
	31						
Total		17:20	3740	215.8	13:	2645	203.5

Date		A.M. Hours	A.M. O.P.	Weekly A.H.O.	P.M. Hours	P.M. O.P.	Weekly A.H.O.
June	2	4:20	980		3:20	700	
	3	4:20	986		3:20	689	
	4	4:20	992		3:20	715	
	5	4:20	925		3:20	707	
	6	4:20	960		2:00	312	
	7						
Total		21:40	4843	223.5	15:20	3123	203.7
	9	4:20	975		3:20	707	
	10	4:20	990		3:20	715	
	11	4:20	945		3:20	666	
	12	3:50	860		3:20	674	
	13	4:20	926		3:20	609	
	14						
Total		21:10	4696	222.0	16:40	3371	202.2
	16	4:20	960		3:20	700	
	17	4:20	875		3:20	588	
	18	4:20	950		3:20	675	
	19	4:20	900		3:20	690	
	20	4:20	933		3:20	690	
	21						
Total		21:40	4618	215.1	16:40	3343	200.5
	23	4:20	935		3:20	650	
	24	4:20	880		3:20	730	
	25	4:20	980		3:05	641	
	26	4:20	817		3:20	721	
	27	4:20	980		3:20	670	
	28						
Total		21:40	4592	211.9	16:25	3412	207.8
	30	4:20	903		3:20	708	
July	1	4:20	980		3:20	710	
	2	4:20	980		3:20	716	
	3	4:20	950		3:20	720	
	4	H-o-l-i-d-a-y					
	5						
Total		17:20	3813	220.0	13:20	2854	214.1
	7	4:20	995		3:20	716	
	8	4:20	985		3:20	711	
	9	4:20	950		3:20	705	
	10	3:45	810		3:20	700	
	11	4:20	962		3:20	595	
	12						
Total		21:05	4702	225.1	16:40	3427	205.6

Date		A.M. Hours	A.M. O.P.	Weekly A.H.O.	P.M. Hours	P.M. O.P.	Weekly A.H.O.
July	28	4:20	869		3:20	713	
	29	4:20	980		3:20	685	
	30	4:20	950		3:20	657	
	31	4:20	965		3:20	682	
Aug.	1	4:20	906		5:20	585	
	2						
Total		21:40	4670	215.5	16:40	3322	199.3
	4	4:20	955		3:20	726	
	5	4:20	1000		3:20	714	
	6	4:20	1015		3:20	668	
	7	4:20	1025		3:20	698	
	8	4:20	1010		3:20	689	
	9						
Total		21:40	5005	231.0	16:40	3495	209.6
	11	4:20	900		3:20	710	
	12	4:20	900		3:20	645	
	13	4:20	910		3:20	712	
	14	4:20	805		3:20	613	
	15	4:20	870		3:20	550	
	16						
Total		21:40	4385	202.4	16:40	3230	193.8
	18	4:20	810		3:20	612	
	19	4:20	830		3:20	600	
	20	4:20	950		3:20	702	
	21	4:20	930		3:20	677	
	22	4:20	905		3:20	680	
	23						
Total		21:40	4425	204.2	16:40	3271	196.2
	25	4:20	920		3:20	653	
	26	4:20	885		3:20	630	
	27	4:20	902		3:20	722	
	28	4:20	950		3:20	725	
	29	4:20	934		3:20	722	
	30						
Total		21:40	4591	211.9	16:40	3452	207.1
Sept.	1	H-o-l-i-d-a-y					
	2	4:20	950		3:20	748	
	3	4:20	955		3:20	734	
	4	4:20	857		3:20	713	
	5	4:20	855		2:15	450	
	6						
Total		17:20	3617	208.7	12:15	2645	215.9

Date	Hours	A.M. O.P.	Weekly A.H.O.	Hours	A.M. O.P.	Weekly A.H.O.
Sept. 8	4:20	915		3:20	.683	
9	4:20	902		3:20	694	
10	4:20	855		3:20	658	
11	4:20	841		3:20	600	
12	4:00	828		3:20	648	
13						
	21:20	4341	203.5	16:40	3283	197.0

5 M

Operator 5.

April 21	4:20	800		4:05	775	
22	4:20	845		4:05	816	
23	4:20	850		4:05	850	
24	4:20	800		4:05	850	
25	4:20	836		4:05	764	
26	4:05	700				
Total	25:45	4831	187.6	20:25	4055	198.6
28	4:20	800		1:45	400	
29	4:20	650		4:05	650	
30	4:20	755		4:05	700	
May 1	4:20	745		4:05	700	
2	4:20	745		4:05	810	
3	4:05	700				
Total	25:45	4395	170.7	18:05	3260	180.3
5	4:20	725		4:05	750	
6	4:20	810		4:05	865	
7	4:20	850		4:05	800	
8	4:20	745		2:05	350	
9	4:20	780		4:05	750	
10	3:50	700				
Total	25:30	4610	180.8	18:25	3515	190.8
12	4:20	507		4:05	725	
13	4:20	800		3:50	550	
14	4:20	800		4:05	625	
15	4:20	730		4:05	720	
16	4:20	800		4:05	800	
17	4:05	730				
Total	25:45	4367	169.6	20:10	3420	169.6
19	4:20	700		3:20	550	
20	4:20	790		3:20	685	
21	4:20	805		1:50	300	
22	3:40	500		3:20	545	
23	4:20	650		3:20	430	
24						
Total	21:	3445	164.0	15:10	2510	165.6

Date	A.M. Hours	A.M. O.P.	Weekly A.H.O.	P.M. Hours	P.M. O.P.	Weekly A.H.O.
May 26	4:20	675		3:20	625	
27	4:20	800		2:10	300	
28	4:20	795		3:00	610	
29	4:20	750		3:20	595	
30						
31						
Total	17:20	3020	174.4	11:50	2130	180.1
June 2	4:20	700		3:20	550	
3	4:20	800		3:20	585	
4	4:20	835		1:50	335	
5	4:20	310		1:50	490	
6	4:20	710		2:15	345	
7						
Total	21:40	3355	154.8	12:35	2305	183.2
9	4:20	725		3:20	575	
10	4:20	700		3:20	600	
11	4:20	690		3:20	630	
12	4:20	800		2:40	410	
13	4:20	581		3:20	569	
14						
Total	21:40	3496	161.3	16:	2784	174.0
June 16	4:20	780		3:20	535	
17	4:20	750		1:50	325	
18	4:20	700		1:50	315	
19	4:20	725		1:50	310	
20	4:00	575		1:50	300	
21						
Total	21:20	3530	165.5	10:40	1785	167.3
23	3:30	530		3:20	635	
24	4:20	775		3:20	625	
25	4:20	780		3:20	520	
26	4:20	510		1:50	340	
27	4:10	785		3:20	590	
28,						
Total	20:40	3380	163.5	15:10	2710	178.8
30	4:20	755		3:20	520	
July 1	4:20	780		1:15	145	
2	4:20	610		Reps;		
3	4:20	630		3:20	620	
4	H-o-l-i-d-a-y					
5	17:20	2775				
Total			160.1	7:55	1285	162.3

Date	A.M. Hours	A.M. O.P.	A.M. Weekly A.H.O.	P.M. Hours	P.M. O.P.	P.M. Weekly A.H.O.
July 7	4:20	700		3:20	700	
8	4:20	700		3:05	455	
9	4:20	720		3:20	582	
10	3:45	650		3:20	435	
11	4:05	715		1:55	200	
12						
Total	20:50	3485	167.3	15:	2372	158.1
28	4:20	750		2:10	330	
29	4:20	959		2:05	352	
30	4:20	920		1:50	320	
31	4:05	895		3:20	630	
Aug. 1	4:20	900		2:40	315	
2						
Total	21:25	4404	205.6	12:05	1947	161.2
4	4:20	725		1:55	275	
5	4:00	850		3:20	550	
6	4:20	785		3:20	650	
7	4:20	808		3:20	442	
8	4:20	847		3:20	505	
9						
Total	21:20	4015	188.2	15:15	2422	158.8
11	4:20	742		2:55	500	
12	4:20	750		3:20	600	
13	4:20	415		1:50	300	
14	4:20	443		1:50	255	
15	4:20	678		3:20	472	
16						
Total	21:40	3028,	139.8	13:15	2127	160.6
18	4:20	567		3:20	541	
19	4:20	700		3:20	510	
20	4:20	705		2:00	300	
21	4:20	760		2:05	365	
22	4:20	700		3:20	500	
23						
Total	21:40	3432	158.4	14:05	2216	157.4
25	4:20	700		3:20	550	
26	4:10	725		1:50	315	
27	4:20	633		3:20	672	
28	4:20	775		3:20	428	
29	4:20	705		3:20	620	
30	- 21:30					
Total - /		3538	164.6	15:10	2585	170.5

Date		A.M. Hours	A.M. O.P.	Weekly A.H.O.	P.M. Hours	P.M. O.P.	Weekly A.H.O.
Sept.	1	Holiday					
	2	4:20	750		2:05	350	
	3	4:20	710		3:20	517	
	4	4:20	655		3:20	634	
	5	4:20	670		2:35	405	
	6						
Total		17:20	2785	160.7	11:20	1906	168.2
	8	4:20	525		1:45	382	
	9	2:50	405		3:20	576	
	10	4:20	820		1:45	355	
	11	2:05	200		1:45	300	
	12	3:50	559		1:05	145	
	13						
Total		17:25	2509	144.0	9:40	1758	181.8

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Opr No 1

Date		A.M. Hours	O.P.	Weekly O.H.O.	P.M. Hours	O.P.	Weekly O.H.O.		
May 19		Ab.			AB				
20		"			"				
21		"			"				
22		"			"				
23		"			"				
24									
26		3:50	425		3:20	350			
27		4:05	518		"	500			
28		2:25	260		3:00	405			
29		1:00	100		3:20	375			
30		Holiday		✓	Holiday				
31		Total 11:20	1303	115.0	13:	1630	175.4		
June 1		AB	—		AB	—			
3		1:30	100		3:20	525			
4		4:10	600		—	—			
5		4:20	650		3:20	555			
6		4:20	700		1:45	325			
7		Total 14:10	2050	143.1 ✓	8:25	1405	166.9 ✓		
9		4:20	800		3:20	700			
10		"	800		"	600			
11		"	750		"	570			
12		4:10	800		3:20	610			
13		AB	—		AB	—			
14									
		17:10	3150	183.6 ✓	13:10	2480	186.1 ✓		

Op No 1

Date		A.M. TIME	A.M. O.P.		P.M. TIME	P.M. O.P.			
June 16		4:20	800		3:20	660			
17		"	890		"	575			
18		3:25	740		"	666			
19		4:20	850		"	550			
20		"	870		3:10	615			
21									
		20:45	4150	900.0 ✓	16:30	3066	185.8 ✓		
23		AB.			AB.				
24		"			"				
25		"			"				
26		"			"				
27		"			"				
28									
30		AB.			AB.				
July 1		"			"				
2		"			"				
3		"			"				
4		Holiday			Holiday				
5									
7		AB.			AB.				
8		"			"				
9		"			"				
10		"			"				
11		"			"				
12 ✓									

Weeks Ending 7-19 & 7-26 - Vacation

Jn. No 1

	Date		a.m.	O.P.			p.m.	O.P.			
July	28		AB.				AB.				
	29		"				"				
	30		"				"				
	31		"				"				
Aug	1		"				"				
	2										
	4		AB.				AB				
	5		"				"				
	6		"				"				
	7		"				"				
	8		"				"				
	9										
	11		AB.				AB.				
	12		"				"				
	13		"				"				
	14		"				"				
	15		"				"				
	16										
	18		AB				AB.				
	19		"				"				
	20		"				"				
	21		"				"				
	22		"				"				
	23										

IM-5

Opp No 1 Substitute

Date		A. M. Hours	O.P.			P. M. Hours	O.P.			
Aug 18										
18		4:10	700			3:20	650			
19		4:20	700			"	675			
20		"	900			"	700			
21		"	950			"	700			
22		AB.				AB.				
23										
		17:10	3250	189.4		13:20	2725	204.4		

IMS

Sgt Rio / Substitute

Date	a.m. Hours	a.m. O.P.		p.m. Hours	p.m. O.P.			
25	ab.	—		ab.	—			
26	4:20	87✓		3:20	72✓			
27	3:20	950		3:20	42✓			
28	4:20	950		"	67✓			
29	"	900		"	650			
30								
	16:20	367✓	225.1✓	13:20	247✓	185.7✓		
Sept 1	Holiday	~~950~~		Holiday				
2	4:20	950		3:20	650			
3	"	950		"	650			
4	"	87✓		"	700			
5	"	92✓		2:00	42✓			
6								
	17:20	3700	213.5✓	12:	242✓	202.1✓		
8	4:20	97✓		3:20	800			
9	"	920		"	730			
10	"	850		"	650			
11	"	900		"	650			
12	4:20	87✓		"	67✓			
13								
	21:40	4520	208.6✓	16:40	3455✓	207.3✓		

2M

~~A.M. and P.M. Unit & Output~~
~~(Output obtained from the Operators count)~~

Opn No 2.

Date		A. M. Hours	A. M. Output	~~Weekly~~ 9-H-O.	P. M. Hours	P. M. Output	~~Weekly~~ 9-H-O.
1940 - April	21	4:20	859		4:05	816	
	22	"	828		"	922	
	23	"	893		"	887	
	24	"	870		"	840	
	25	"	870		"	845	
	26	4:05	790				
	Total	25:45	5110	198.5	20:25	4310	211.0
	28	4:20	861		4:05	800	
	29	"	845		"	785	
	30	"	899		"	821	
May	1	"	857		"	860	
	2	"	871		"	815	
	3	4:05	764				
		25:45	5097	198.0	20:25	4081	199.8
	5	4:20	734		4:05	823	
	6	"	851		"	800	
	7	"	865		"	850	
	8	"	871		"	824	
	9	"	895		"	845	
	10	4:05	790				
		25:45	4906	190.1	20:25	4142	200.8
	12	4:20	800		4:05	820	
	13	"	947		"	815	
	14	"	931		"	840	
	15	"	941		"	814	
	16	"	933		"	757	
	17	4:05	760				
		25:45	5312	206.3	20:25	4046	198.1

Off No 2

1930		A. M.			P. M.				
Date		TIME	O.P.		TIME	O.P.			
May 19		4:20	819		3:20	616			
20		"	915		"	675			
21		"	866		"	634			
22		"	820		"	650			
23		"	855		"	650			
24									
		21:40	4275	197.3 ✓	16:40	3175	190.5 ✓		
26		4:20	854		3:20	706			
27		"	850		"	685			
28		"	826		3:00	600			
29		"	892		3:20	6220			
30									
31		17:20	3422	197.5 ✓	13:00	2613	201.0 ✓		
June 2		4:20	800		3:20	560			
3		"	809		"	711			
4		"	861		"	632			
5		"	871		"	671			
6		"	789		2:00	371			
7									
		21:40	4130	190.6 ✓	15:20	2945	191.1		
9		4:20	803		3:20	677			
10		"	844		"	600			
11		"	757		"	663			
12		"	735		"	665			
13		"	826		"	618			
14									
		21:40	3965	183.0 ✓	16:40	3223	193.4 ✓		

2M

Opr No 2

	Date	A.M. TIME	A.M. O.P.		P.M. TIME	P.M. O.P.		
June	16	4:20	802		3:20	621		
	17	"	816		"	644		
	18	"	807		"	723		
	19	"	821		"	654		
	20	"	865		"	635		
	21							
		21:40	4111	189.7 ✓	16:40	3277	196.6 ✓	
	23	4:20	820		3:20	600		
	24	"	800		"	600		
	25	"	800		"	600		
	26	"	800		"	610		
	27	"	889		"	636		
	28							
		21:40	4109	189.6 ✓	16:40	3046	182.7 ✓	
	30	4:20	783		3:20	612		
July	1	"	790		"	625		
	2	"	842		"	580		
	3	"	832		"	608		
	4	Holiday			Holiday			
	5	17:20	3247	187.4 ✓	13:20	2475	181.9 ✓	
	7	4:20	766		3:20	619		
	8	"	805		"	607		
	9	"	800		"	585		
	10	3:45	712		"	612		
	11	4:20	802		"	593		
	12							
		21:05	3875	183.8 ✓	16:40	3016	180.9 ✓	

2 M

Jn No 2

	Date		A.M. Time	A.M. O.P.		P.M. Time	P.M. O.P.			
July	28		4:20	744		3:20	460			
	29		"	776		"	524			
	30		"	797		"	590			
	31		"	770		"	600			
Aug.	1		"	718		"	470			
	2									
			21:40	3805	17.6 ✓	16:40	2644	158.6 ✓		
	4		4:20	725		3:20	425			
	5		"	810		"	525			
	6		"	829		"	529			
	7		"	825		"	580			
	8		"	765		"	600			
	9									
			21:40	3954	18.5 ✓	16:40	2759	165.5 ✓		
	11		4:20	709		3:20	534			
	12		"	803		"	617			
	13		"	783		"	530			
	14		"	700		"	585			
	15		"	748		"	540			
	16				✓					
			21:40	3743	17.7 ✓	16:40	2806	168.3 ✓		
	18		4:20	638		3:20	615			
	19		"	724		"	581			
	20		"	824		"	606			
	21		"	825		"	635			
	22		"	806		"	634			
	23									
			21:40	3817	16.1 ✓	16:40	3071	184.2 ✓		

UNIVERSITY OF WISCONSIN - MILWAUKEE

2m -

Jn 16 U_2

Date	A.M. Time	A.M. O.P.		P.M. Time	P.M. O.P.			
Sept 25	AB.	—		AB.	—			
26	4:20	804		3:20	644			
27	"	824		"	651			
28	"	830		"	625			
29	"	774		"	615			
30								
	17:20	3232	186.5 ✓	13:20	2535	190.2 ✓		
Oct 1	Holiday	—		Holiday	—			
2	4:20	769		3:20	600			
3	"	834		"	651			
4	"	805		"	670			
5	"	845		2:10	400			
6								
	17:10	3253	187.7 ✓	11:10	2291	188.4 ✓		
8	4:20	800		3:20	610			
9	"	805		"	600			
10	"	814		"	597			
11	"	700		"	597			
12	3:50	682		"	600			
13								
	21:10	3801	179.6 ✓	16:40	3004	180.2 ✓		

13M+

Gpn No 3

Date		A. M. Hours	A. M. Output		P. M. Hours	P. M. Output			
1930 April 21		4:05	957		2:50	673			
22		"	990		"	710			
23		"	1000		"	700			
24		"	1000		"	700			
25		"	970		"	730			
26		"	960						
		24:30	5877	239.9 ✓	14:10	3513	248.1 ✓		
28		4:05	1000		2:50	650			
29		"	870		"	730			
30		"	950		"	700			
May 1		"	1000		"	680			
2		3:50	930		"	670			
3		4:05	950						
		24:15	5700	235.1 ✓	14:10	3430	242.3 ✓		
5		4:05	950		2:50	610			
6		"	1000		"	700			
7		"	965		"	670			
8		"	990		"	650			
9		"	920		"	700			
10		"	920	✓					
		24:30	5745	234.5 ✓	14:10	3330	235.2 ✓		
12		4:05	1000		2:50	700			
13		"	925		"	680			
14		"	950		"	710			
15		"	980		"	690			
16		"	960		"	650			
17		"	910						
		24:30	5745	233.3 ✓	14:10	3430	247.3 ✓		

No 3 M

Op No 3

Date		P. M. TIME	P. M. O.P.		P. M. TIME	P. M. O.P.			
19 May 19		4:05	1000		2:05	450			
20		"	975		"	475			
21		2:35	600		"	590			
22		4:05	1000		"	470			
23		"	975		"	475			
24									
		18:55	4550	240.5 ✓	10:55	2460	236.1 ✓		
26		4:05	960		2:05	460			
27		2:40	600		1:15	250			
28		4:05	900		1:45	380			
29		4:05	900		2:05	520			
30									
31		14:55	3360	324.2 ✓	7:10	1610	224.9 ✓		
June 1		4:05	950		2:05	520			
3		"	915		"	515			
4		"	980		"	420			
5		"	870		"	560			
6		"	910		1:10	315			
7									
		90:55	4655	216.5 ✓	9:30	2330	245.3 ✓		
9		4:05	900		2:05	510			
10		"	935		"	490			
11		"	850		"	550			
12		3:40	875		"	525			
13		4:05	900		2:05	510			
14									
		20:	4460	213.0 ✓	10:55	2585	248.1 ✓		

3M +

Ops No 3

Date		A.M. TIME	A.M. O.P.		P.M. TIME	P.M. O.P.			
June 16		4:05	900		2:05	540			
17		"	900		"	500			
18		"	900		"	500			
19		"	900		"	500			
20		3:50	860		"	550			
21									
		20:10	4460	221.3 ✓	10:15 ✓	2590	248.6 ✓		
23		4:05	920		2:05	480			
24		"	900		"	500			
25		"	915		1:45	465			
26		AB.	—		2:05	520			
27		4:05	960		"	470			
28									
		16:10	3695	226.3 ✓	10:05	2435	241.6 ✓		
30		AB.	—		2:05	520			
July 1		4:05	935		"	485			
2		"	950		"	500			
3		"	980		2:05	205			
4		Holiday		✓ Holiday					
5		12:15	2865	233.9	7:05	1710	241.5 ✓		
7		3:50	880		2:05	540			
8		4:05	930		"	500			
9		3:40	860		2:05	490			
10		3:30	830		"	520			
11		4:05	930		1:55	420			
12									
		19:10	4430	231.2 ✓	10:15	2470	241.0 ✓		

3 m

Pan No 3

Date		A.M. Time	A.M. O.P.		P.M. Time	P.M. O.P.			
July 28		4:05	8 50		2:05	120			
29		"	9 50		"	490			
30		"	9 50		"	515			
31		"	940		"	460			
Aug. 1		"	815		"	485			
2									
		20:25	45 05	220.7	10:25	2470	237.1		
4		4:05	8 15		2:05	500			
5		"	875		"	545			
6		"	950		"	525			
7		"	875		"	100			
8		"	940		"	100			
9									
		20:25	45 15	221.1	10:25	2570	246.7		
11		AB.	—		2:05	120			
12		4:05	930		"	485			
13		"	880		"	520			
14		"	870		"	470			
15		"	900		"	100			
16									
		16:20	35 80	219.3	10:25	2495	239.5		
18		4:05	800		2:05	520			
19		"	900		"	500			
20		"	915		"	525			
21		"	915		"	515			
22		"	935		"	465			
23									
		20:25	44 65	218.7	10:25	2525	246.3		

3m

Off No 3

Date		A.M. Time	A.M. O.P.		P.M. Time	P.M. O.P.			
Aug. ~~July~~ 25		4:20	950		ab.	—			
26		ab.	—		ab.	—			
27		AB.	—		AB.	—			
28		AB.	—		AB	—			
29		AB.	—		AB.	—			
30									
		4:20	950	219.5 ✓					
Sept 1		Holiday	—		Holiday	—			
2		AB	—		AB.	—			
3		"	—		"	—			
4		"	—		"	—			
5		"	—		"	—			
6									
8		4:05	900		2:05	550			
9		"	945		"	490			
10		"	925		"	500			
11		"	900		"	500			
12		3:45	815		1:35	320			
13									
		20:05	4485	223.4 ✓	9:55	2360		738.0 ✓	

E.

4M -

Gr No 4

Date		A. M. TIME	A. M. Output		P. M. TIME	P. M. Output			
1920 April 21		4:20	1040		4:05	891			
22		"	1000		"	955			
23		"	1020		"	910			
24		"	1007		"	898			
25		"	1000		"	910			
26		4:05	810						
		25:45	5877	2782 ✓	20:25	4564	223:5 ✓		
28		4:20	908		4:05	892			
29		"	925		"	875			
30		"	1000		"	910			
May 1		"	950		"	867			
2		"	1000		"	900			
3		4:05	796						
		25:45	5579	2167 ✓	20:25	4444	217:6 ✓		
5		4:20	900		4:05	950			
6		"	1015		"	932			
7		"	1025		"	925			
8		"	980		"	895			
9		"	975		"	864			
10		4:05	890						
		25:45	5785	2247 ✓	20:25	4566	223:6 ✓		
12		4:20	950		4:05	765			
13		"	1050		"	928			
14		"	994		"	863			
15		"	1017		"	897			
16		"	965		"	837			
17		4:05	784						
		25:45	5760	2237 ✓	20:25	4290	210:1 ✓		

UNIVERSITY OF WISCONSIN - MILWAUKEE

Gage No 4

1930	Date	A.M. TIME	A.M. O.P.		P.M. TIME	P.M. O.P.		
May	19	4:20	907		3:20	714		
	20	"	980		"	670		
	21	"	950		"	674		
	22	"	925		"	734		
	23	"	965		"	655		
	24							
		21:40	4727	218.1 ✓	16:40	3437	206.2 ✓	
	26	4:20	910		3:20	714		
	27	"	915		"	644		
	28	"	975		3:00	637		
	29	"	940		3:20	650		
	30							
	31	17:20	3740	214.8 ✓	13:	2645	203.5 ✓	
June	1	4:20	980		3:20	700		
	3	"	986		"	689		
	4	"	992		"	715		
	5	"	925		"	707		
	6	"	960		2:00	312		
	7							
		21:40	4843	203.5 ✓	15:40	3123	203.7 ✓	
	9	4:20	975		3:20	707		
	10	"	990		"	715		
	11	"	945		"	666		
	12	3:50	860		"	674		
	13	4:20	926		"	609		
	14			✓				
		21:10	4696	222.0	16:40	3371	202.2 ✓	

4 M

Opn No 4

DATE		a.m. TIME	a.m. O.P.		p.m. TIME	p.m. O.P.			
June 16.		4:20	960		3:20	700			
17		"	875		"	588			
18		"	950		"	675			
19		"	900		"	690			
20		"	933		"	690			
21									
		21:40	4618	213.1 ✓	16:40	3343	200.5 ✓		
23		4:20	935		3:20	650			
24		"	880		"	730			
25		"	980		3:05	641			
26		"	817		3:20	721			
27		"	980		"	670			
28									
		21:40	4592	211.9 ✓	16:25	3412	207.8 ✓		
30		4:20	923		3:20	708			
July 1		"	980		"	710			
2		"	980		"	716			
3		"	950		"	720			
4		Holiday			Holiday				
5		17:20	3813	220.0 ✓	13:20	2854	214.1 ✓		
7		4:20	995		3:20	716			
8		"	985		"	711			
9		"	950		"	705			
10		3:45	810		"	700			
11		4:20	962		"	595			
12									
		21:05	4702	223.1 ✓	16:40	3427	205.6 ✓		

4 PM

Jn No 4

Date		A.M. Time	A.M. O.P.		P.M. Time	P.M. O.P.			
July 28		4:20	869		3:20	713			
29		"	980		"	685			
30		"	950		"	657			
31		"	965		"	682			
Aug. 1		"	906		"	585			
2		21:40	4670	215.5 ✓	16:40	3327	199.3	✓	
4		4:20	955		3:20	726			
5		"	1000		"	714			
6		"	1015		"	668			
7		"	1025		"	698			
8		"	1010		"	689			
9									
		21:40	5005	231.0 ✓	16:40	3495	209.6	✓	
11		4:20	900		3:20	710			
12		"	900		"	645			
13		"	910		"	712			
14		"	805		"	613			
15		"	870		"	550			
16									
		21:40	4385	202.4 ✓	16:40	3230	193.8	✓	
18		4:20	810		3:20	612			
19		"	830		"	600			
20		"	950		"	702			
21		"	930		"	677			
22		"	905		"	680			
23									
		21:40	4425	204.2 ✓	16:40	3271	196.2	✓	

4 M

Ft. No 4

Aug.

Date		A. M. Time	A. M. O.P.		P. M. Time	P. M. O.P.			
25		4:20	920		3:20	615			
26		"	885		"	630			
27		"	902		"	722			
28		"	910		"	725			
29		"	934		"	722			
30									
		21:40	4591	211.9 ✓	16:40	3412	207.1 ✓		
Sept 1		Holiday	—		Holiday	—			
2		4:20	910		3:20	748			
3		"	911		"	734			
4		"	857		"	713			
5		"	855		2:15	450			
6									
		17:20	3617	208.7 ✓	12:15	2645	215.9 ✓		
8		4:20	915		3:20	683			
9		"	902		"	694			
10		"	855		"	658			
11		"	841		"	600			
12		4:00	828		"	648			
13									
		21:20	4341	203.5 ✓	16:40	3283	197.0 ✓		

5 7K

Type No 5

Date		A. M. TIME	A. M. Output		P. M. TIME	P. M. Output			
1920 April 21		4:20	800		4:05	775			
22		"	845		"	816			
23		"	850		"	850			
24		"	800		"	850			
25		"	836		"	764			
26		4:05	700						
		25:45	4831	187.6	20:25	4055	198.6		
28		4:20	800		1:45	400			
29		"	650		4:05	650			
30		"	755		"	700			
May 1		"	745		"	700			
2		"	745		"	810			
3		4:05	700						
		25:45	4395	170.7	18:05	3260	180.3		
5		4:20	725		4:05	750			
6		"	810		"	865			
7		"	850		"	800			
8		"	745		2:05	350			
9		"	780		4:05	750			
10		3:50	700						
		25:30	4610	180.8	18:25	3515	190.8		
12		4:20	507		4:05	725			
13		"	800		3:50	550			
14		"	800		4:05	625			
15		"	730		"	720			
16		"	800		"	800			
17		4:05	730						
		25:45	4367	169.6	20:10	3420	169.6		

Office No 5

1930	Date	A. M. TIME	A. M. O.P.		P. M. TIME	P. M. O.P.			
May	19	4:20	700		3:20	550			
	20	"	790		"	685			
	21	4:20	805		1:50	300			
	22	3:40	500		3:20	545			
	23	4:20	650		"	430			
	24								
		21:	3475	164.0 ✓	15:10	2510	165.6 ✓		
	26	4:20	675		3:20	625 ✓			
	27	"	800		2:10	300			
	28	"	795		3:00	610			
	29	"	750		3:20	595			
	30								
	31	17:20	3020	174.4 ✓	11:50	2130	180.1 ✓		
June:	1	4:20	700		3:20	550			
	3	"	800		"	585			
	4	"	835		1:50	335			
	5	"	310		1:50	490			
	6	"	710		2:15	345			
	7								
		21:40	3355	154.8 ✓	17:35	2305	183.2 ✓		
	9	4:20	725		3:20	525			
	10	"	900		"	600			
	11	"	690		"	630			
	12	"	800		2:40	410			
	13	"	581		3:20	569			
	14			✓					
		21:40	3496	161.3 ✓	16:	2784	174.0 ✓		

5m.

Opr No 5

	Date	a.m. TIME	a.m. O.P.		p.m. TIME	p.m. O.P.			
June	16	4:20	780		3:20	135			
	17	"	750		1:50	325			
	18	"	700		1:50	315			
	19	"	725		1:50	310			
	20	4:00	575		1:50	300			
	21								
		21:20	3530	165.5	10:40	1785	167.3	✓	
	23	3:20	530		3:20	635			
	24	4:20	775		"	625			
	25	"	780		"	520			
	26	"	510		1:50	340			
	27	4:10	785		3:20	590			
	28								
		20:40	3380	163.5	15:10	2710	178.8	✓	
	30	4:20	755		3:20	520			
July	1	"	780		1:15	145			
	2	"	610		Repairing	—			
	3	"	630		3:20	620			
	4	Holiday		✓	Holiday				
	5	4:20	2725	160.1	7:55	1585	162.3	✓	
	7	4:20	700		3:20	700			
	8	"	700		3:05	455			
	9	"	720		3:20	582			
	10	3:45	650		"	435			
	11	4:05	715		1:55	200			
	12								
		20:50	3485	161.3	15:	2372	158.1	✓	

5m ~

gn no 5

	Date	A.M. Time	A.M. O.P.		P.M. Time	P.M. O.P.			
July	28	4:20	730		2:10	330			
	29	"	959		2:05	352			
	30	"	920		1:50	320			
	31	4:05	895		3:20	630			
Aug.	1	4:20	900		2:40	315			
	2								
		21:25	4404	205.6	17:05	1947	161.2		
	4	4:20	725		1:55	275			
	5	4:00	850		3:20	550			
	6	4:20	785		3:20	650			
	7	"	808		"	442			
	8	"	847		"	505			
	9								
		21:20	4015	188.2	14:15	2422	158.8		
	11	4:20	742		2:55	500			
	12	"	750		3:20	600			
	13	"	415		1:50	300			
	14	"	443		1:50	255			
	15	"	678		3:20	472			
	16								
		21:40	3028	139.8	13:15	2127	160.6		
	18	4:20	567		3:20	541			
	19	"	700		"	510			
	20	"	705		2:00	300			
	21	"	760		2:05	365			
	22	"	700		3:20	500			
	23								
		21:40	3432	158.4	14:05	2216	157.4		

5 M.

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Date		A.M. Time	A.M. O.P.		P.M. Time	P.M. O.P.			
~~July~~ Aug. 25		4:20	700		3:20	√√0			
26		4:10	72√		1:√0	315			
27		4:20	633		3:20	672			
28		"	77√		"	428			
29		"	70√		"	620			
30									
		21:30	3√38	164.6 ✓	1√:10	2√8√	170.5 ✓		
Sept 1		Holiday			Holiday				
2		4:20	7√0		2:05	3√0			
3		"	710		3:20	517			
4		"	6√√		"	634			
5		"	670		2:3√	40√			
6				✓					
		17:20	278√	160.7	11:20	1906	168.2 ✓		
8		4:20	52√		1:4√	382			
9		2:√0	40√		3:20	576			
10		4:20	820		1:4√	355			
11		2:0√	200		1:4√	300			
12		3:50	√√9		1:0√	14√			
13									
~~14~~		17:7√	2√09	144.0 ✓	9:40	17√8	181.8 ✓		