FLORIDA DEPARTMENT OF TRANSPORTATION - DISTRICT VI
TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS (TSM&O)
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DMS Usage Report – July 2017

Summary of Monthly Operations

In the month of July, there were 56,685 messages posted with 11,989 DMS activations for 1,691 events. The DMS efficiency was 100% (1,691 of the 1,691 signable events had DMS messages posted) for all roadways. There was an average of 7.09 DMSs activated per each signable event and an average of 4.73 DMS messages were posted per each DMS activation. This resulted in an average of 33.52 DMS messages being posted per each signable event.

Notes: DMS messages not associated with an event are not included because the SunGuide Software requirement to associate a message does not function properly at this time.

Summary of Average Monthly Operations

- $\frac{11{,}989\ DMS\ Activations}{1{,}691\ Events} =$ **7.09** *Average DMS Activations per Event*

  An average of 7.09 DMSs were activated per each signable event

- $\frac{56{,}685\ DMS\ Messages}{11{,}989\ DMS\ Activations} =$ **4.73** *Average DMS Messages per Activation*

  An average of 4.73 DMS messages were posted per each DMS activation

- $7.09 \frac{DMS\ Activations}{Events} \times 4.73 \frac{DMS\ Messages}{DMS\ Activations} =$ **33.52*** *DMS Messages per Event*

  An average of 33.52 DMS messages were posted per each signable event*

  **Based on actual numbers of average DMS activation/event and average DMS messages/activation. Not based on rounded numbers shown in this report.*

Table 1 DMS Usage for Other Agencies

Agency	Number of Messages
Port of Miami Tunnel	143
FDOT District 4	1540
Florida's Turnpike Enterprise	174
Miami-Dade Expressway Authority	1818
Total	**3675**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	21679
Other Districts' Incidents	2479
Construction	19264
Safety	10984
Vehicle Alert	2279
Total	**56685**

Table 3a DMS Usage by Roadway (*Limited Access Facilities*)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min:Ss)	Availability
I-95 Mainline	1	I-95 NB beyond NW 103 St	234	1422	3160:39:53	100.00%
	22	I-95 NB south of NW 62 St	145	858	1437:41:12	100.00%
	75	I-95 NB before SR 112	317	1512	2015:23:51	98.80%
	77	I-95 NB beyond SW 8 St	393	1603	1996:24:29	95.89%
	2	I-95 SB north of Ives Dairy Rd	296	1160	2112:17:24	100.00%
	3	I-95 SB north of Miami Gardens Dr	325	1307	2229:19:45	98.87%
	095NB013.5LL	I-95 NB north of NW 173 St	95	865	1550:06:35	99.35%
	20	I-95 SB south of NW 119 St	134	530	850:02:07	99.92%
	21	I-95 SB south of NW 62 St	111	503	952:56:10	97.70%
	74	I-95 SB beyond of SR 112	171	666	1161:49:49	99.70%
	76	I-95 SB before Rickenbacker Cswy	47	255	868:39:06	99.91%
		I-95 Mainline Subtotal	***2268***	***10681***	***18335:20:21***	***99.10%***
I-95 Express	95X40	95X NB at NW 62nd St	204	910	1499:23:27	99.95%
	95X45	95X NB at NW 125th St	220	1305	2295:39:56	99.69%
	95XSB45	95X SB at NW 62nd St	113	478	972:51:04	100.00%
	95XSB50	95X SB at NW 125th St	121	487	977:37:08	99.88%
	095SB014.6-EL	95X SB at Miami Gardens Dr	263	1044	2107:36:48	94.31%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	58	320	814:49:10	87.12%
		I-95 Express Subtotal	***979***	***4544***	***8667:57:33***	***96.83%***
SR 826	4	SR 826 EB east of NW 67 Ave	112	864	1712:35:13	89.34%
	5	SR 826 EB east of NW 37 Ave	283	1489	2338:21:18	88.67%
	14****	SR 826 NB beyond NW 122 St	101	485	773:47:43	N/A****
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	107	564	1276:23:45	88.50%
	19	SR 826 WB beyond NW 67 Ave	167	811	1428:53:12	88.29%
	826NB58	SR 826 NB before NW 58 St	0	0	0:00:00	0.00%
	826SB103****	SR 826 SB before NW 103 St	110	485	1040:29:12	N/A****
	826SB58	SR 826 SB before NW 58 St	70	328	837:13:58	81.42%
	826NB1.3-LL	SR 826 NB before SW 72 St	94	362	1175:21:13	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	218	641	1390:05:19	96.48%
	826SB8.8-LL**	SR 826 SB at NW 36 St	152	441	987:17:21	42.40%
		SR 826 Subtotal	***1414***	***6470***	***12960:28:14***	***75.01%***
I-75	43	I-75 NB before Miami Gardens Dr	37	207	1090:44:08	65.71%
	44	I-75 SB before Miami Gardens Dr	152	682	1084:28:02	76.45%
	42	I-75 SB ramp from NW 138 St	147	711	1134:09:37	77.39%
		I-75 Subtotal	***336***	***1600***	***3309:21:47***	***73.18%***
I-195 Mainline	57	I-195 EB before North Miami Ave	58	240	850:36:38	100.00%
	105	I-195 WB before Alton Rd	147	747	1118:20:18	99.21%
		I-195 Mainline Subtotal	***205***	***987***	***1968:56:56***	***99.61%***
I-395	886WB	Port Blvd WB before US-1	222	1131	1627:03:08	94.47%
	104	I-395 WB at Watson Island	379	1414	1744:03:04	97.74%
		I-395 Subtotal	***601***	***2545***	***3371:06:12***	***96.11%***
		Limited Access Facilities Subtotal	***5803***	***26827***	***48613:11:03***	***89.61%***

Table 3b DMS Usage by Roadway (Arterials)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:min:ss)	Availability
I-95 Arterial	109	Ives Dairy EB Rd before I-95	195	872	932:15:53	100.00%
	113	Ives Dairy Rd WB before I-95	160	754	825:49:06	59.94%
	110	Miami Gardens Dr EB before I-95	193	1299	1947:20:49	89.36%
	111	Miami Gardens Dr WB before I-95	198	1383	2085:07:57	95.32%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	150	1092	1522:56:10	81.11%
	107	NW 54 St EB before I-95	163	928	1129:50:20	98.58%
	108	SW 8 St EB before I-95	163	1030	1229:38:39	99.64%
		I-95 Arterial Subtotal	***1222***	***7358***	***9672:58:54***	***89.14%***
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	357	1845	2773:35:22	98.09%
	7	Turnpike SB to Golden Glades	279	1589	2555:49:46	85.68%
	9	US-441 NB at TRI-Rail	128	1074	2164:02:55	99.32%
	10	SR 9 NB before Park & Ride	124	1028	2022:44:14	96.12%
	8	US-441 SB at NW 179 St	267	1166	2156:33:33	99.96%
		Golden Glades Interchange Subtotal	***1155***	***6702***	***11672:45:50***	***95.83%***
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	157	609	1316:49:01	100.00%
	SW24WB	SW 24 St WB before SR 826	157	609	1316:49:04	99.96%
	SW40EB	SW 40 St EB before SR 826	135	524	1269:35:12	100.00%
	SW40WB	SW 40 St WB before SR 826	134	513	1268:38:36	99.15%
	SW56EB	SW 56 St EB before SR 826	94	385	1162:02:09	100.00%
	SW56WB	SW 56 St WB before SR 826	94	385	1162:02:08	100.00%
	SW72EB	SW 72 St EB before SR 826	84	352	1129:33:12	99.94%
	SW72WB	SW 72 St WB before SR 826	87	367	1144:30:13	99.87%
	WFLAGLEREB**	W Flagler ST EB before SR 826	157	565	1195:33:05	96.67%
	WFLAGLERWB**	W Flagler ST WB before SR 826	164	617	1298:06:02	43.18%
	NW25EB**	NW 25 ST EB before SR 826	186	687	1491:22:10	43.23%
	NW25WB**	NW 25 ST WB before SR 826	185	686	1491:15:28	43.16%
	NW36EB**	NW 36 ST EB before SR 826	184	684	1502:04:21	100.00%
	NW36WB**	NW 36 ST WB before SR 826	185	697	1533:34:46	43.23%
	SW8EB**	SW 8 ST EB before SR 826	159	615	1300:51:33	99.88%
	SW8WB**	SW 8 ST WB before SR 826	146	527	1179:49:28	94.83%
	SW88EB**	Kendall DR EB before SR 826	59	258	994:41:20	93.67%
	SW88WB**	Kendall DR WB before SR 826	64	278	1066:03:29	99.70%
		SR 826 Arterial Subtotal	***2431***	***9358***	***22823:21:17***	***86.47%***
I-195 Arterial	38	Alton Rd SB before I-195	107	627	1095:09:18	99.70%
	39	Arthur Godfrey WB before I-195	104	620	1095:19:42	99.67%
	40	Alton Rd NB before I-195	104	623	1094:41:54	99.71%
		I-195 Arterial Subtotal	***315***	***1870***	***3285:10:54***	***99.69%***

Table 3b – *continued* DMS Usage by Roadway (*Arterials*)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	295	1182	1732:14:30	100.00%
	45	US-1 SB before SW 80 St	63	233	857:09:35	100.00%
	47	US-1 SB at Florida's Turnpike	48	192	843:27:40	100.00%
	46	US-1 NB before Killian Dr	53	217	807:17:08	99.91%
	48	US-1 NB at Florida's Turnpike	56	204	847:57:13	100.00%
US-1 in Miami-Dade County Subtotal			***515***	***2028***	***5088:06:06***	***99.98%***
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	48	192	843:12:54	99.96%
	64	US-1 NB at Mile Marker 106	40	223	869:13:43	99.92%
	66	US-1 NB at Mile Marker 91.5	61	254	924:10:15	99.87%
	68	US-1 NB at Mile Marker 39.5	46	234	866:10:32	95.43%
	71	US-1 NB at Mile Marker 7.5	51	289	1586:59:07	99.90%
	61	US-1 SB at Mile Marker 126	77	349	1683:02:28	78.60%
	63	US-1 SB at Mile Marker 113	64	237	875:27:37	95.65%
	65	US-1 SB at Mile Marker 106	44	207	816:29:44	99.58%
	67	US-1 SB at Mile Marker 91.5	59	223	872:19:05	87.89%
	69	US-1 SB at Mile Marker 39.5	28	165	777:03:16	99.24%
	70	US-1 SB at Mile Marker 7.5	30	169	788:57:52	99.50%
US-1 South of Florida City Subtotal			***548***	***2542***	***10903:06:33***	***95.96%***
Arterials Subtotal			***6186***	***29858***	***63445:29:34***	***96.32%***
Limited Access Facilities Subtotal			***5803***	***26827***	***48613:11:03***	***89.61%***
Grand Total			***11989***	***56685***	***112058:40:37***	***91.11%***

**DMS 15 and 112 were undergoing testing for Capital Improvement and were used periodically. Messages posted on these DMS are not computed and system availability is not measured for these devices.*

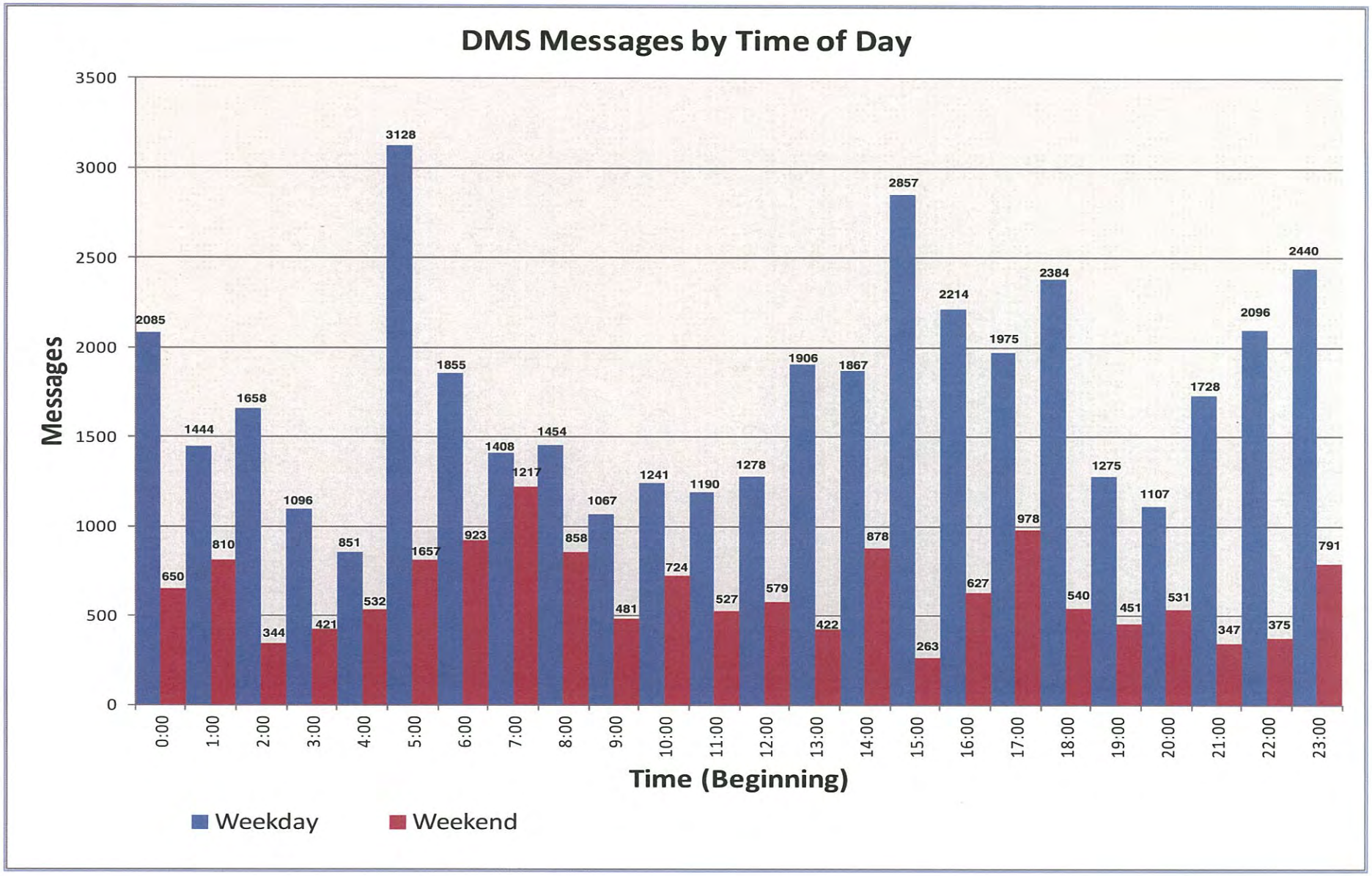
***Twelve DMS along the SR 826 Section 5 project are operational and are still under warranty.*

*****DMS 14 and 826SBNW103ST01 are under the SR-826/I-75 Express Lanes Contractor; thus, system availability is not measured for these devices.*

Table 4 Number of Messages by Roadway

Sign For Events On			DMS Located Along											
			I-95 Mainline	95 Express	SR 826	I-75	I-195 Mainline	I-395	I-95 Arterial	GGI	SR 826 Arterial	I-195 Arterial	US-1 in Miami-Dade County	US-1 South of Florida City
Vehicle Alert			413	150	259	83	60	53	117	114	302	94	200	434
Safety Messaging			1774	991	1185	276	251	274	804	754	2211	375	630	1459
District 6	Miami-Dade	I-95	5228	1424	1432	8	397	1298	5133	3243	0	918	601	0
District 6	Miami-Dade	Express Lanes	1398	1170	337	1	0	381	0	1056	0	0	347	0
District 6	Miami-Dade	I-195	114	2	0	0	203	39	98	0	0	483	8	0
District 6	Miami-Dade	I-395	55	11	0	0	0	76	41	0	0	0	12	0
District 6	Miami-Dade	MacArthur Causeway	46	2	0	0	0	29	2	0	0	0	2	0
District 6	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	SR-826	634	377	2321	850	1	8	645	998	6355	0	36	0
District 6	Miami-Dade	I-75	0	0	198	257	0	0	0	0	42	0	0	0
District 6	Miami-Dade	US-1	58	0	0	0	0	0	16	0	64	0	57	1
District 6	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	242
District 6	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	281
District 6	Miami-Dade	SR-997/ Krome Avenue	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	SR-9	0	0	0	0	0	0	0	2	0	0	0	0
District 6	Miami-Dade	US-27	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	US-441	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	OTHER	120	100	140	19	50	25	0	55	0	0	75	125
District 6	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	414	1	312	0	0	362	15	0	112	0	4	0
MDX	Miami-Dade	SR-836 Extension to 137th Ave	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-112	44	25	0	0	25	0	22	0	0	0	0	0
MDX	Miami-Dade	SR-874	0	0	33	0	0	0	0	0	272	0	40	0
MDX	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	1	0
MDX	Miami-Dade	SR-924	0	0	71	65	0	0	0	0	0	0	0	0
District 4	Broward	I-95	205	200	66	0	0	0	400	381	0	0	0	0
District 4	Broward	Express Lanes	73	36	34	0	0	0	0	43	0	0	0	0
District 4	Broward	I-75	0	0	61	41	0	0	0	0	0	0	0	0
District 4	Broward	I-595	0	0	0	0	0	0	0	0	0	0	0	0
District 4	Palm Beach	I-95	0	0	0	0	0	0	0	0	0	0	0	0
District 4	Indian River	I-95	0	0	0	0	0	0	0	0	0	0	0	0
District 4	Broward	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Miami-Dade	Florida's Turnpike	45	25	21	0	0	0	27	56	0	0	0	0
Turnpike	Miami-Dade	Florida's Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Broward	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Palm Beach	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Martin	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	St. Lucie	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Tunnel	Miami-Dade	Port Miami Tunnel	60	30	0	0	0	0	38	0	0	0	15	0
Subtotal of On Route			5228	1170	2321	257	203	76	5133	3243	6355	483	57	242
Subtotal of Off Route			5453	3374	4149	1343	784	2469	2225	3459	3003	1387	1971	2300
Total District 6			9840	4227	5872	1494	962	2183	6856	6222	8974	1870	1968	2542
Other Agencies			841	317	598	106	25	362	502	480	384	0	60	0
Total			10681	4544	6470	1600	987	2545	7358	6702	9358	1870	2028	2542

Notes: *Vehicle Alert messages are signed for entire Miami-Dade and Monroe Counties; thus, they are not location-specific events.*
Safety messages are signed for entire Miami-Dade and Monroe Counties; thus, is not location-specific event.
On Route – When a DMS signs for an incident on the same route as where the DMS is located.
Off Route – When a DMS signs for an incident on different routes from where the DMS is located.


DMS Messages by Time of Day
Messages
3500
3000
2500
2000
1500
1000
500
0
0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00
2085 1444 1658 1096 851 3128 1855 1408 1454 1067 1241 1190 1278 1906 1867 2857 2214 1975 2384 1275 1107 1728 2096 2440
650 810 344 421 532 1657 923 1217 858 481 724 527 579 422 878 263 627 978 540 451 531 347 375 791
Time (Beginning)
Weekday
Weekend