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

Summary of Monthly Operations

In the month of June, there were 56,261 messages posted with 11,928 DMS activations for 1,622 events. The DMS efficiency was 99.88% (1,620 of the 1,622 signable events had DMS messages posted) for all roadways. There was an average of 7.35 DMSs activated per each signable event and an average of 4.72 DMS messages were posted per each DMS activation. This resulted in an average of 34.69 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

- $\frac{11{,}928\ DMS\ Activations}{1{,}622\ Events} =$ **7.35** *Average DMS Activations per Event*

  An average of 7.35 DMSs were activated per each signable event

- $\frac{56{,}261\ DMS\ Messages}{11{,}928\ DMS\ Activations} =$ **4.72** *Average DMS Messages per Activation*

  An average of 4.72 DMS messages were posted per each DMS activation

- $7.35 \frac{DMS\ Activations}{Events} \times 4.72 \frac{DMS\ Messages}{DMS\ Activations} =$ **34.69*** *DMS Messages per Event*

  An average of 34.69 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	277
FDOT District 4	817
Florida's Turnpike Enterprise	81
Miami-Dade Expressway Authority	1729
Total	**2904**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	22515
Other Districts' Incidents	1984
Construction	13285
Safety	15355
Vehicle Alert	3122
Total	**56261**

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	203	1347	3130:41:15	100.00%
	22	I-95 NB south of NW 62 St	153	775	1296:11:32	100.00%
	75	I-95 NB before SR 112	336	1440	1893:11:34	98.76%
	77	I-95 NB beyond SW 8 St	421	2013	2444:11:02	98.99%
	2	I-95 SB north of Ives Dairy Rd	269	1082	2290:06:39	100.00%
	3	I-95 SB north of Miami Gardens Dr	300	1230	2352:05:26	100.00%
	095NB013.5LL	I-95 NB north of NW 173 St	89	834	1792:19:53	95.12%
	20	I-95 SB south of NW 119 St	133	561	1111:46:36	100.00%
	21	I-95 SB south of NW 62 St	124	614	1225:04:28	100.00%
	74	I-95 SB beyond of SR 112	166	739	1341:37:14	99.02%
	76	I-95 SB before Rickenbacker Cswy	53	404	1102:42:18	99.71%
		I-95 Mainline Subtotal	***2247***	***11039***	***19979:57:57***	***99.24%***
I-95 Express	95X40	95X NB at NW 62nd St	186	729	1338:05:24	100.00%
	95X45	95X NB at NW 125th St	191	1202	2400:56:18	99.22%
	95XSB45	95X SB at NW 62nd St	105	495	1064:45:39	100.00%
	95XSB50	95X SB at NW 125th St	116	542	1207:49:36	99.90%
	095SB014.6-EL	95X SB at Miami Gardens Dr	279	1119	2346:42:05	98.69%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	67	430	1125:39:23	98.89%
		I-95 Express Subtotal	***944***	***4517***	***9483:58:25***	***99.45%***
SR 826	4	SR 826 EB east of NW 67 Ave	142	572	1163:10:27	99.97%
	5	SR 826 EB east of NW 37 Ave	328	1626	2720:42:38	100.00%
	14****	SR 826 NB beyond NW 122 St	124	543	1290:26:59	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	140	696	1561:18:34	100.00%
	19	SR 826 WB beyond NW 67 Ave	177	741	1611:31:17	98.04%
	826NB58	SR 826 NB before NW 58 St	113	445	1103:19:21	84.86%
	826SB103****	SR 826 SB before NW 103 St	102	399	823:53:18	N/A****
	826SB58	SR 826 SB before NW 58 St	82	335	923:49:06	93.84%
	826NB1.3-LL	SR 826 NB before SW 72 St	75	337	1351:27:15	99.41%
	826NB4.8-LL**	SR 826 NB at SW 24 St	205	621	1534:56:02	97.71%
	826SB8.8-LL**	SR 826 SB at NW 36 St	171	533	1236:50:57	24.82%
		SR 826 Subtotal	***1659***	***6848***	***15321:25:54***	***88.74%***
I-75	43	I-75 NB before Miami Gardens Dr	24	140	823:07:05	48.88%
	44	I-75 SB before Miami Gardens Dr	92	363	502:38:02	49.54%
	42	I-75 SB ramp from NW 138 St	66	257	354:31:05	36.03%
		I-75 Subtotal	***182***	***760***	***1680:16:12***	***44.82%***
I-195 Mainline	57	I-195 EB before North Miami Ave	60	314	1059:42:38	100.00%
	105	I-195 WB before Alton Rd	154	658	1121:37:29	98.96%
		I-195 Mainline Subtotal	***214***	***972***	***2181:20:07***	***99.48%***
I-395	886WB	Port Blvd WB before US-1	246	1227	1919:50:47	99.18%
	104	I-395 WB at Watson Island	392	1605	2038:42:59	98.23%
		I-395 Subtotal	***638***	***2832***	***3958:33:46***	***98.71%***
		Limited Access Facilities Subtotal	***5884***	***26968***	***52605:32:21***	***91.45%***

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	175	789	1112:33:11	99.56%
	113	Ives Dairy Rd WB before I-95	139	615	804:13:38	84.54%
	110	Miami Gardens Dr EB before I-95	196	1211	2086:43:52	93.85%
	111	Miami Gardens Dr WB before I-95	199	1286	2143:31:01	97.53%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	156	658	789:47:22	94.01%
	107	NW 54 St EB before I-95	180	779	816:03:13	99.24%
	108	SW 8 St EB before I-95	191	1229	1412:34:55	100.00%
		I-95 Arterial Subtotal	***1236***	***6567***	***9165:27:12***	***95.53%***
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	364	1842	3133:39:13	100.00%
	7	Turnpike SB to Golden Glades	314	1736	2919:46:04	98.45%
	9	US-441 NB at TRI-Rail	107	988	2155:50:43	100.00%
	10	SR 9 NB before Park & Ride	106	987	2155:50:21	100.00%
	8	US-441 SB at NW 179 St	275	1197	2285:59:25	100.00%
		Golden Glades Interchange Subtotal	***1166***	***6750***	***12651:05:46***	***99.69%***
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	146	524	1456:26:45	99.96%
	SW24WB	SW 24 St WB before SR 826	146	522	1454:20:40	99.94%
	SW40EB	SW 40 St EB before SR 826	102	419	1393:02:41	100.00%
	SW40WB	SW 40 St WB before SR 826	104	423	1393:38:42	100.00%
	SW56EB	SW 56 St EB before SR 826	72	347	1341:25:39	100.00%
	SW56WB	SW 56 St WB before SR 826	72	347	1341:25:41	100.00%
	SW72EB	SW 72 St EB before SR 826	69	343	1338:32:59	100.00%
	SW72WB	SW 72 St WB before SR 826	69	341	1338:36:17	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	152	580	1454:13:51	99.85%
	WFLAGLERWB**	W Flagler ST WB before SR 826	152	580	1454:13:44	100.00%
	NW25EB**	NW 25 ST EB before SR 826	167	573	1127:40:11	4.69%
	NW25WB**	NW 25 ST WB before SR 826	168	573	1128:21:30	41.22%
	NW36EB**	NW 36 ST EB before SR 826	177	651	1508:44:16	100.00%
	NW36WB**	NW 36 ST WB before SR 826	176	655	1454:05:58	100.00%
	SW8EB**	SW 8 ST EB before SR 826	154	564	1461:19:37	99.96%
	SW8WB**	SW 8 ST WB before SR 826	154	565	1461:16:47	99.68%
	SW88EB**	Kendall DR EB before SR 826	53	300	1304:30:47	91.69%
	SW88WB**	Kendall DR WB before SR 826	54	302	1315:52:12	93.77%
		SR 826 Arterial Subtotal	***2187***	***8609***	***24727:48:17***	***90.60%***
I-195 Arterial	38	Alton Rd SB before I-195	112	487	929:49:50	100.00%
	39	Arthur Godfrey WB before I-195	110	481	923:25:40	99.43%
	40	Alton Rd NB before I-195	112	483	923:31:05	99.44%
		I-195 Arterial Subtotal	***334***	***1451***	***2776:46:35***	***99.62%***

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	327	1508	2193:39:11	100.00%
	45	US-1 SB before SW 80 St	54	288	1068:31:30	100.00%
	47	US-1 SB at Florida's Turnpike	49	263	1055:17:35	100.00%
	46	US-1 NB before Killian Dr	57	303	1044:57:18	99.96%
	48	US-1 NB at Florida's Turnpike	56	259	1041:07:15	98.79%
US-1 in Miami-Dade County Subtotal			***543***	***2621***	***6403:32:49***	***99.75%***
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	51	257	1050:10:46	99.36%
	64	US-1 NB at Mile Marker 106	45	269	915:12:38	89.76%
	66	US-1 NB at Mile Marker 91.5	38	148	424:43:47	47.72%
	68	US-1 NB at Mile Marker 39.5	74	410	1164:45:43	100.00%
	71	US-1 NB at Mile Marker 7.5	78	480	1881:58:39	99.79%
	61	US-1 SB at Mile Marker 126	83	397	1556:00:50	41.58%
	63	US-1 SB at Mile Marker 113	59	295	901:27:08	86.79%
	65	US-1 SB at Mile Marker 106	42	277	861:55:55	89.50%
	67	US-1 SB at Mile Marker 91.5	51	291	938:23:03	87.88%
	69	US-1 SB at Mile Marker 39.5	29	237	1012:18:12	99.89%
	70	US-1 SB at Mile Marker 7.5	28	234	1011:38:46	99.59%
US-1 South of Florida City Subtotal			***578***	***3295***	***11718:35:27***	***85.62%***
Arterials Subtotal			***6044***	***29293***	***67443:16:06***	***95.04%***
Limited Access Facilities Subtotal			***5884***	***26968***	***52605:32:21***	***91.45%***
Grand Total			***11928***	***56261***	***120048:48:27***	***92.14%***

**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.*

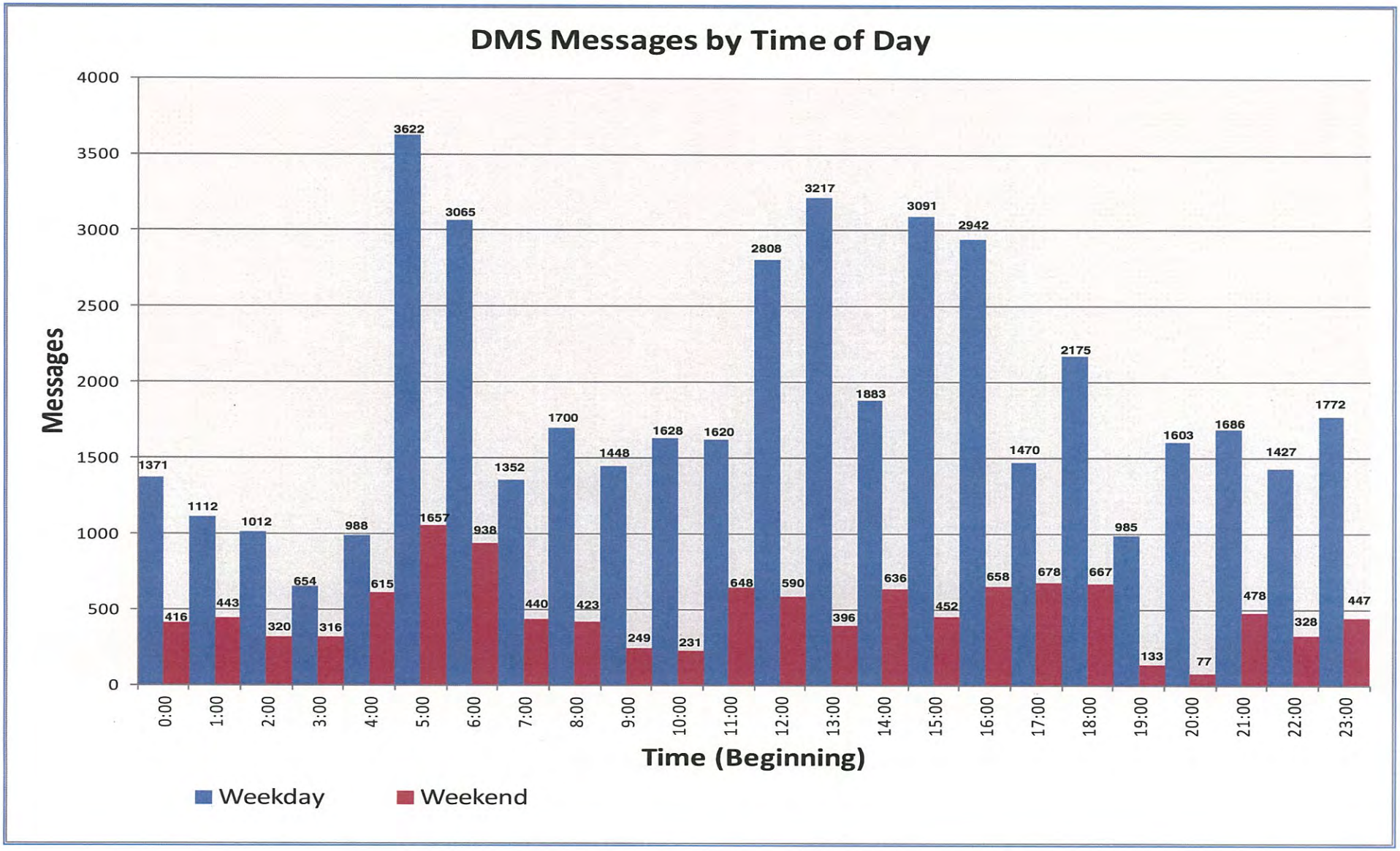
***Twelve DMS along the SR 826 Section 5 project are operational and are still under warranty.*

*****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			519	209	447	98	80	77	147	171	472	138	257	507
Safety Messaging			2653	1446	1818	199	370	397	994	1116	3186	421	908	1847
District 6	Miami-Dade	I-95	4708	1102	1074	0	323	1277	4418	3206	36	688	757	0
District 6	Miami-Dade	Express Lanes	1520	1139	355	0	1	456	1	974	0	3	428	0
District 6	Miami-Dade	I-195	155	0	0	0	105	53	108	0	0	153	8	0
District 6	Miami-Dade	I-395	45	1	0	0	0	58	24	0	0	0	8	0
District 6	Miami-Dade	MacArthur Causeway	59	8	0	0	0	24	0	0	0	0	8	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	396	283	2439	412	0	2	434	996	4562	0	42	0
District 6	Miami-Dade	I-75	0	0	176	27	0	0	0	0	6	0	0	0
District 6	Miami-Dade	US-1	105	0	5	0	0	48	48	0	82	0	75	12
District 6	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	526
District 6	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	309
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	0	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	102	88	134	13	42	22	6	37	8	3	63	94
District 6	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	382	1	255	0	1	397	39	0	42	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	107	37	0	0	50	21	36	0	0	45	0	0
MDX	Miami-Dade	SR-874	0	0	44	0	0	0	0	0	215	0	34	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	14	4	0	0	0	0	0	0	0	0
District 4	Broward	I-95	101	103	48	0	0	0	207	200	0	0	0	0
District 4	Broward	Express Lanes	57	30	29	0	0	0	0	32	0	0	0	0
District 4	Broward	I-75	0	0	3	7	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	21	14	7	0	0	0	21	18	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	109	56	0	0	0	0	84	0	0	0	28	0
Subtotal of On Route			4708	1139	2439	27	105	58	4418	3206	4562	153	75	526
Subtotal of Off Route			6331	3378	4409	733	867	2774	2149	3544	4047	1298	2546	2769
Total District 6			10262	4276	6448	749	921	2414	6180	6500	8352	1406	2554	3295
Other Agencies			777	241	400	11	51	418	387	250	257	45	67	0
Total			11039	4517	6848	760	972	2832	6567	6750	8609	1451	2621	3295

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
4000
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
1371 416 1112 443 1012 320 654 316 988 615 3622 1657 3065 938 1352 440 1700 423 1448 249 1628 231 1620 648 2808 590 3217 396 1883 636 3091 452 2942 658 1470 678 2175 667 985 133 1603 77 1686 478 1427 328 1772 447
Time (Beginning)
Weekday
Weekend