DMS Usage Report – May 2019

Summary of Monthly Operations

In the month of May, there were 36,260 messages posted with 11,667 DMS activations for 1,581 events. The DMS efficiency was 99.75% (1,577 of the 1,581 signable events had DMS messages posted) for all roadways. There was an average of 7.38 DMSs activated per each signable event and an average of 3.11 DMS messages were posted per each DMS activation. This resulted in an average of 22.93 DMS messages being posted per each signable event.

Summary of Average Monthly Operations

- $\frac{11{,}667\ DMS\ Activations}{1{,}581\ Events}$ = **7.38** *Average DMS Activations per Event*

  An average of 7.38 DMSs were activated per each signable event

- $\frac{36{,}260 DMS\ Messages}{11{,}667\ DMS\ Activations}$ = **3.11** *Average DMS Messages per Activation*

  An average of 3.11 DMS messages were posted per each DMS activation

- $7.38\ \frac{DMS\ Activations}{Events}\ \times\ 3.11\ \frac{DMS\ Messages}{DMS\ Activations}$ = **22.93*** *DMS Messages per Event*

  An average of 22.93 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	141
FDOT District 4	492
Florida's Turnpike Enterprise	160
Miami-Dade Expressway Authority	862
Total	**1655**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	12896
Other Districts' Incidents	1158
Construction	8215
Safety	11952
Vehicle Alert	2039
Total	**36260**

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	164	499	2030:57:13	100.00%
	22	I-95 NB south of NW 62 St	137	405	1346:48:35	92.29%
	75	I-95 NB before SR 112	305	898	2383:59:20	96.33%
	77	I-95 NB beyond SW 8 St	408	1154	3142:52:05	100.00%
	2	I-95 SB north of Ives Dairy Rd	243	751	1888:24:40	100.00%
	3	I-95 SB north of Miami Gardens Dr	289	876	2016:40:34	100.00%
	095NB013.5LL	I-95 NB north of NW 173 St	84	290	1176:23:54	99.00%
	20	I-95 SB south of NW 119 St	186	609	1886:01:13	100.00%
	21	I-95 SB south of NW 62 St	175	614	2147:53:38	92.35%
	74	I-95 SB beyond of SR 112	172	616	2305:54:21	96.45%
	76	I-95 SB before Rickenbacker Cswy	38	207	1102:09:05	93.74%
		I-95 Mainline Subtotal	***2201***	***6919***	***21428:04:38***	***97.29%***
I-95 Express	95X40	95X NB at NW 62nd St	162	421	1131:25:32	87.26%
	95X45	95X NB at NW 125th St	191	487	1356:09:17	99.80%
	95XSB45	95X SB at NW 62nd St	148	446	1277:44:37	87.26%
	95XSB50	95X SB at NW 125th St	146	435	1383:11:16	87.26%
	095SB014.6-EL	95X SB at Miami Gardens Dr	308	913	2162:36:36	100.00%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	62	280	1187:11:39	100.00%
		I-95 Express Subtotal	***1017***	***2982***	***8498:18:57***	***93.60%***
SR 826	4	SR 826 EB east of NW 67 Ave	84	281	1191:18:37	100.00%
	5	SR 826 EB east of NW 37 Ave	309	897	2020:35:04	100.00%
	826NB0014.38**	SR 826 NB beyond NW 122 St	93	283	1166:01:00	N/A**
	15	SR 826 WB beyond NW 17 Ave	68	248	1423:34:05	100.00%
	17	SR 826 WB beyond NW 47 Ave	94	302	1457:26:50	100.00%
	19	SR 826 WB beyond NW 67 Ave	114	348	1514:46:56	100.00%
	826NB010.36**	SR 826 NB before NW 58 St	98	305	1396:18:33	N/A**
	826SB013.74**	SR 826 SB before NW 103 St	87	298	1423:13:23	N/A**
	826SB010.99**	SR 826 SB before NW 58 St	85	281	1196:28:46	N/A**
	826NB1.3-LL	SR 826 NB before SW 72 St	94	273	1398:34:22	94.90%
	826NB4.8-LL	SR 826 NB at SW 24 St	208	479	1766:35:14	100.00%
	826SB8.8-LL**	SR 826 SB at NW 36 St	170	410	1392:13:29	N/A**
		SR 826 Subtotal	***1504***	***4405***	***17347:06:19***	***99.27%***
I-75	43**	I-75 NB before Miami Gardens Dr	39	247	1933:22:26	N/A**
	075SB002.70**	I-75 SB before Miami Gardens Dr	128	350	1424:07:45	N/A**
	075SB001.29**	I-75 SB ramp from NW 138 St	135	406	1505:45:52	N/A**
	FLD6DOT075SB	I-75 SB South of Miami Gardens Dr	79	253	1181:29:23	99.81%
		I-75 Subtotal	***381***	***1256***	***6044:45:26***	***99.81%***
I-195 Mainline	57	I-195 EB before North Miami Ave	51	360	1780:49:05	100.00%
	105	I-195 WB before Alton Rd	209	688	2223:52:08	100.00%
		I-195 Mainline Subtotal	***260***	***1048***	***4004:41:13***	***100.00%***
I-395	886WB	Port Blvd WB before US-1	255	859	2864:36:30	100.00%
	104	I-395 WB at Watson Island	364	877	1929:58:25	98.58%
		I-395 Subtotal	***619***	***1736***	***4794:34:55***	***99.29%***
		Limited Access Facilities Subtotal	***5982***	***18346***	***62117:31:28***	***97.33%***

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	172	593	1373:52:55	99.88%
	113	Ives Dairy Rd WB before I-95	124	392	710:13:13	97.04%
	110	Miami Gardens Dr EB before I-95	213	681	1498:18:47	100.00%
	111	Miami Gardens Dr WB before I-95	223	711	1509:13:22	100.00%
	112	NW 103 St EB before I-95	232	690	1769:21:30	94.62%
	106	NW 79 St EB before I-95	156	408	738:54:41	70.34%
	107	NW 54 St EB before I-95	222	539	1249:37:36	97.48%
	108	SW 8 St EB before I-95	54	135	395:38:08	30.69%
		I-95 Arterial Subtotal	***1396***	***4149***	***9245:10:12***	***86.26%***
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	321	971	2065:48:17	100.00%
	7	Turnpike SB to Golden Glades	292	892	1975:51:11	99.63%
	9	US-441 NB at TRI-Rail	83	303	1216:18:32	99.57%
	10	SR 9 NB before Park & Ride	83	301	1216:19:26	99.57%
	8	US-441 SB at NW 179 St	259	825	1996:04:58	99.57%
		Golden Glades Interchange Subtotal	***1038***	***3292***	***8470:22:24***	***99.67%***
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	132	370	1539:21:04	100.00%
	SW24WB	SW 24 St WB before SR 826	132	370	1539:21:17	100.00%
	SW40EB	SW 40 St EB before SR 826	126	352	1539:28:26	100.00%
	SW40WB	SW 40 St WB before SR 826	126	352	1540:26:20	100.00%
	SW56EB	SW 56 St EB before SR 826	98	289	1383:00:40	92.72%
	SW56WB	SW 56 St WB before SR 826	89	220	1103:40:44	78.80%
	SW72EB	SW 72 St EB before SR 826	106	318	1511:02:03	100.00%
	SW72WB	SW 72 St WB before SR 826	107	319	1516:15:37	100.00%
	WFLAGLEREB	W Flagler ST EB before SR 826	127	366	1481:02:40	100.00%
	WFLAGLERWB	W Flagler ST WB before SR 826	127	366	1481:02:51	100.00%
	NW25EB	NW 25 ST EB before SR 826	145	379	1532:41:57	100.00%
	NW25WB	NW 25 ST WB before SR 826	146	380	1534:12:30	100.00%
	NW36EB	NW 36 ST EB before SR 826	153	404	1497:17:43	100.00%
	NW36WB	NW 36 ST WB before SR 826	151	401	1494:06:29	99.98%
	SW8EB	SW 8 ST EB before SR 826	132	366	1547:30:49	100.00%
	SW8WB	SW 8 ST WB before SR 826	134	370	1555:44:47	100.00%
	SW88EB	Kendall DR EB before SR 826	80	248	1282:36:58	90.45%
	SW88WB	Kendall DR WB before SR 826	84	275	1400:13:24	96.38%
		SR 826 Arterial Subtotal	***2195***	***6145***	***26479:06:19***	***97.69%***
I-195 Arterial	38	Alton Rd SB before I-195	117	493	2081:03:30	100.00%
	39	Arthur Godfrey WB before I-195	115	479	1969:34:58	98.68%
	40	Alton Rd NB before I-195	116	502	2088:58:35	100.00%
		I-195 Arterial Subtotal	***348***	***1474***	***6139:37:03***	***99.56%***

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

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:min:ss)	Availability
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	299	769	2140:38:48	99.95%
	45	US-1 SB before SW 80 St	50	230	1177:45:50	96.92%
	47	US-1 SB at Florida's Turnpike	36	191	1113:26:41	97.28%
	46	US-1 NB before Killian Dr	65	255	1342:11:14	97.71%
	48	US-1 NB at Florida's Turnpike	39	199	1105:18:03	96.30%
US-1 in Miami-Dade County Subtotal			***489***	***1644***	***6879:20:36***	***97.63%***
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	39	200	1113:05:41	96.01%
	64	US-1 NB at Mile Marker 106	0	0	0:00:00	N/A
	66*	US-1 NB at Mile Marker 91.5	0	0	0:00:00	N/A
	68*	US-1 NB at Mile Marker 39.5	0	0	0:00:00	N/A
	71	US-1 NB at Mile Marker 7.5	53	314	1955:31:29	99.96%
	61	US-1 SB at Mile Marker 126	52	291	1934:23:12	99.32%
	63	US-1 SB at Mile Marker 113	45	218	1106:53:50	96.67%
	65	US-1 SB at Mile Marker 106	0	0	0:00:00	N/A
	67*	US-1 SB at Mile Marker 91.5	0	0	0:00:00	N/A
	69*	US-1 SB at Mile Marker 39.5	0	0	0:00:00	N/A
	70	US-1 SB at Mile Marker 7.5	30	187	1148:46:48	99.91%
US-1 South of Florida City Subtotal			***219***	***1210***	***7258:41:00***	***98.37%***
Arterials Subtotal			***5685***	***17914***	***64472:17:34***	***95.25%***
Limited Access Facilities Subtotal			***5982***	***18346***	***62117:31:28***	***97.33%***
Grand Total			***11667***	***36260***	***126589:49:02***	***96.54%***

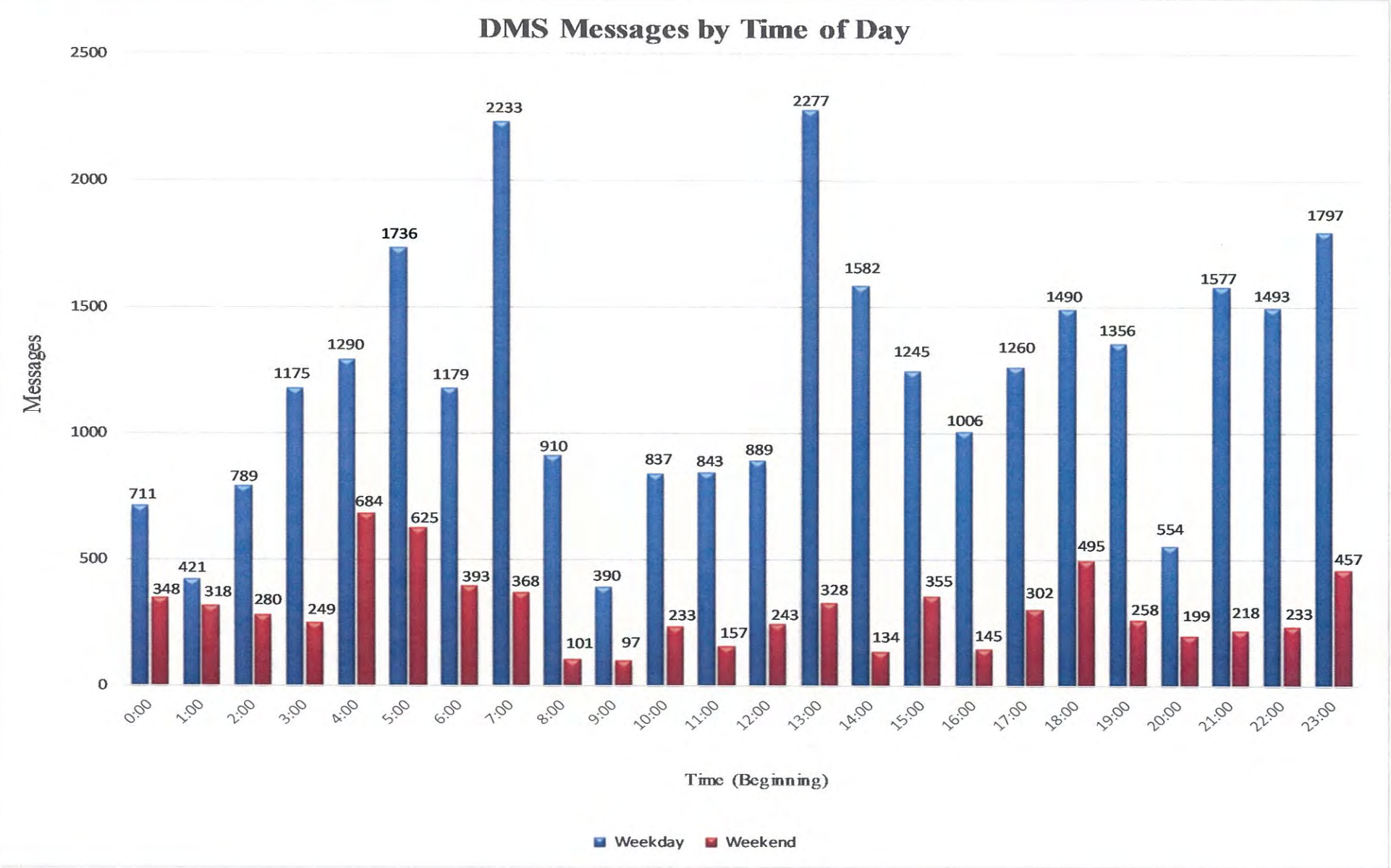
**DMS undergoing testing for Capital Improvement and were used periodically. Messages posted on these DMS are not computed and system availability is not measured for these devices.*

***DMS 826SB013.74, 826SB8.8-LL, 826NB010.36, 826SB010.99, 826NB0014.38, 075SB002.70, 43 and 075SB001.29 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			290	157	331	84	54	54	106	135	476	81	139	132
Safety Messaging			1645	964	1757	447	294	321	845	815	2922	373	774	795
District 6	Miami-Dade	I-95	2626	658	412	3	262	580	2698	1211	30	343	287	9
District 6	Miami-Dade	95 Express	946	958	262	0	3	248	3	738	0	6	233	1
District 6	Miami-Dade	I-195	406	0	0	0	398	55	120	0	0	656	20	0
District 6	Miami-Dade	I-395	53	6	0	0	6	92	12	0	0	9	7	0
District 6	Miami-Dade	MacArthur Causeway	395	6	0	0	0	203	3	0	0	0	20	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	101	68	1236	343	3	3	90	215	2826	0	55	2
District 6	Miami-Dade	I-75	0	0	34	62	0	0	0	0	38	0	0	0
District 6	Miami-Dade	US-1	31	1	0	0	1	8	7	0	0	0	64	6
District 6	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	167
District 6	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	7
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	3	3	0	0	0	0	6	5	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	54	12	18	45	6	3	0	3	0	6	9	89
District 6	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	169	0	276	0	0	169	3	0	0	0	0	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	34	23	0	0	21	0	8	0	0	0	0	0
MDX	Miami-Dade	SR-874	0	0	16	0	0	0	0	0	100	0	16	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	12	0	0	0	0	0	0	0	0
District 4	Broward	I-95	50	70	24	0	0	0	182	118	0	0	0	0
District 4	Broward	95 Express	18	10	10	0	0	0	0	10	0	0	0	0
District 4	Broward	I-75	0	0	0	0	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	24	7	11	3	0	0	34	34	6	0	3	2
Turnpike	Miami-Dade	Florida's Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Broward	Florida's Turnpike	12	8	4	4	0	0	0	8	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	62	31	0	0	0	0	32	0	0	0	16	0
Subtotal of On Route			2626	958	1236	62	398	92	2698	1211	2826	656	64	167
Subtotal of Off Route			4293	2024	3169	941	650	1644	1451	2081	3572	818	1580	1043
Total District 6			6550	2833	4050	984	1027	1567	3890	3122	6292	1474	1608	1208
Other Agencies			369	149	355	19	21	169	259	170	106	0	36	2
Total			6919	2982	4405	1003	1048	1736	4149	3292	6398	1474	1644	1210

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
Time (Beginning)
Weekday
Weekend
0
500
1000
1500
2000
2500
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
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1736
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1179
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1493
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