

MBTA NEEDHAM LINE – INBOUND
WEEKDAY BOARDINGS, ALIGHTINGS, AND LOADS BY TRAIN AND STATION
Spring/Fall 2018 CTPS Commuter Rail Passenger Counts

Station	Train 600				Train 602				Train 604				Train 606				Train 608			
	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (AM)	Ons	Offs	Load
Needham Heights	6:05	15	—	15	6:40	41	—	41	7:32	94	—	94	8:02	79	—	79	8:45	30	—	30
Needham Center	6:09	17	0	32	6:44	27	0	68	7:36	47	0	141	8:06	44	0	123	8:49	25	0	55
Needham Junction	6:14	58	0	90	6:49	101	0	169	7:41	90	0	231	8:11	46	0	169	8:54	25	0	80
Hersey	6:17	48	0	138	6:52	100	0	269	7:44	142	0	373	8:15	146	0	315	8:57	44	0	124
West Roxbury	6:23	56	2	192	6:58	82	8	343	7:50	108	2	479	8:21	61	0	376	9:03	56	0	180
Highland	6:26	59	0	251	7:01	74	0	417	7:53	110	0	589	8:24	84	0	460	9:06	39	0	219
Bellevue	6:30	61	0	312	7:05	72	0	489	7:57	71	0	660	8:26	77	0	537	9:10	32	0	251
Roslindale Village	6:33	44	0	356	7:08	75	0	564	8:00	130	0	790	8:30	96	0	633	9:13	64	0	315
Forest Hills	6:36	14	9	361	7:11	24	0	588	8:03	40	0	830	8:33	32	4	661	9:16	13	0	328
Ruggles	6:41	1	166	196	7:16	2	98	492	8:08	6	81	755	8:38	2	76	587	9:21	0	55	273
Back Bay	6:45	2	74	124	7:20	23	191	324	8:12	6	275	486	8:42	5	189	403	9:25	1	88	186
South Station	6:50	—	124	—	7:25	—	324	—	8:18	—	486	—	8:47	—	403	—	9:30	—	186	—
Total Riders		375	375			621	621			844	844			672	672			329	329	
Maximum Load				361				588				830				661				328
Max. Load Point				Forest Hills				Forest Hills				Forest Hills				Forest Hills				Roslindale
S. Sta. Offs/Max. Load				42.4%				53.2%				58.0%				62.6%				60.4%
Interzone Pct.				0.5%				1.3%				0.2%				0.0%				0.0%

Notes: Times are based on schedule effective 11/20/17
“ f ” before time indicates train stops only on request

“—” indicates train does not serve this station, or item not applicable
S. Sta. Offs/Max. Load = South Station alightings/maximum load on train

Interzone Pct. = Percent of offs
before Forest Hills

MBTA NEEDHAM LINE – INBOUND
WEEKDAY BOARDINGS, ALIGHTINGS, AND LOADS BY TRAIN AND STATION
Spring/Fall 2018 CTPS Commuter Rail Passenger Counts

Station	Train 610				Train 612				Train 614				Train 616				Train 618			
	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load
Needham Heights	10:05	7	—	7	11:05	10	—	10	12:50	7	—	7	2:50	2	—	2	3:55	5	—	5
Needham Center	10:09	6	0	13	11:09	8	0	18	12:54	5	0	12	2:54	23	0	25	3:59	10	0	15
Needham Junction	10:13	12	0	25	11:13	5	0	23	12:58	6	0	18	2:58	2	0	27	4:03	4	0	19
Hersey	10:16	12	0	37	11:16	6	0	29	1:01	4	0	22	3:01	11	0	38	—	—	—	19
West Roxbury	10:21	12	0	49	11:21	5	0	34	1:06	3	0	25	3:06	21	2	57	4:09	10	1	28
Highland	10:23	10	0	59	11:23	9	0	43	1:08	2	0	27	3:08	1	1	57	—	—	—	28
Bellevue	10:25	8	0	67	11:25	7	0	50	1:10	2	0	29	3:10	3	0	60	—	—	—	28
Roslindale Village	10:28	19	0	86	11:28	13	0	63	1:13	8	2	35	3:13	4	6	58	—	—	—	28
Forest Hills	10:31	2	0	88	11:31	1	0	64	1:16	0	0	35	3:16	2	12	48	—	—	—	28
Ruggles	10:36	2	16	74	11:36	0	13	51	1:21	0	7	28	—	—	—	48	—	—	—	28
Back Bay	10:40	2	22	54	11:40	1	16	36	1:25	2	7	23	3:24	4	22	30	4:22	19	8	39
South Station	10:45	—	54	—	11:45	—	36	—	1:30	—	23	—	3:29	—	30	—	4:27	—	39	—
Total Riders		92	92			65	65			39	39			73	73			48	48	
Maximum Load				88				64				35				60				39
Max. Load Point				Forest Hills				Forest Hills				Forest Hills				Bellevue				Back Bay
S. Sta. Offs/Max. Load				61.4%				56.3%				65.7%				50.0%				100%
Interzone Pct.				0.0%				0.0%				5.1%				12.3%				2.1%

MBTA NEEDHAM LINE – INBOUND
WEEKDAY BOARDINGS, ALIGHTINGS, AND LOADS BY TRAIN AND STATION
Spring/Fall 2018 CTPS Commuter Rail Passenger Counts

Station	Train 620				Train 622				Train 624				Train 626				Train 628			
	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load
Needham Heights	5:04	14	—	14	5:44	8	—	8	6:25	13	—	13	7:50	2	—	2	8:37	1	—	1
Needham Center	—	—	—	14	5:48	2	0	10	6:29	1	0	14	7:54	2	0	4	8:41	2	0	3
Needham Junction	—	—	—	14	5:52	9	0	19	6:33	3	0	17	7:58	1	0	5	8:45	4	0	7
Hersey	—	—	—	14	—	—	—	19	6:36	5	0	22	8:03	3	0	8	8:48	1	0	8
West Roxbury	5:18	9	1	22	5:59	6	1	24	6:41	1	0	23	8:08	0	1	7	8:53	0	0	8
Highland	5:20	1	0	23	—	—	—	24	6:43	1	0	24	8:10	0	0	7	8:55	0	1	7
Bellevue	5:22	3	0	26	—	—	—	24	6:45	0	0	24	8:12	0	0	7	8:57	0	1	6
Roslindale Village	5:25	6	1	31	—	—	—	24	6:48	1	5	20	8:15	0	2	5	9:00	1	2	5
Forest Hills	5:28	0	5	26	—	—	—	24	6:53	—	—	20	8:18	0	2	3	9:03	1	0	6
Ruggles	—	—	—	26	—	—	—	24	—	—	—	20	8:23	0	0	3	9:08	0	2	4
Back Bay	5:40	23	16	33	6:17	10	19	15	7:03	1	0	21	8:27	0	0	3	9:12	1	2	3
South Station	5:45	—	33	—	6:22	—	15	—	7:06	—	21	—	8:32	—	3	—	9:17	—	3	—
Total Riders		56	56			35	35			26	26			8	8			11	11	
Maximum Load				31				24				24				8				8
Max. Load Point				Roslindale				West Roxbury				Highland				Hersey				Hersey
S. Sta. Offs/Max. Load				58.1%				62.5%				87.5%				37.5%				37.5%
Interzone Pct.				3.6%				2.9%				19.2%				37.5%				36.4%

MBTA NEEDHAM LINE – INBOUND
WEEKDAY BOARDINGS, ALIGHTINGS, AND LOADS BY TRAIN AND STATION
Spring/Fall 2018 CTPS Commuter Rail Passenger Counts

SUMMARY BY TIME PERIOD

Station	Train 630				AM Peak Trains 600–608		Midday Trains 610–616		PM Peak Trains 618–622		Evening Trains 624–630		All Day Trains 600–630	
	Scheduled Time (PM)	Ons	Offs	Load	Ons	Offs	Ons	Offs	Ons	Offs	Ons	Offs	Ons	Offs
	Needham Heights	10:02	1	—	1	259	—	26	—	27	—	17	—	329
Needham Center	10:06	4	0	5	160	0	42	0	12	0	9	0	223	0
Needham Junction	10:10	0	0	5	320	0	25	0	13	0	8	0	366	0
Hersey	10:13	0	0	5	480	0	33	0	0	0	9	0	522	0
West Roxbury	10:23	3	0	8	363	12	41	2	25	3	4	1	433	18
Highland	10:25	1	0	9	366	0	22	1	1	0	2	1	391	2
Bellevue	10:27	1	0	10	313	0	20	0	3	0	1	1	337	1
Roslindale Village	10:30	2	3	9	409	0	44	8	6	1	4	12	463	21
Forest Hills	10:33	1	0	10	123	13	5	12	0	5	2	2	130	32
Ruggles	10:38	0	0	10	11	476	2	36	0	0	0	2	13	514
Back Bay	10:42	0	8	2	37	817	9	67	52	43	2	10	100	937
South Station	10:47	—	2	—	—	1523	—	143	—	87	—	29	—	1,782
Total Riders		13	13		2,841	2,841	269	269	139	139	58	58	3,307	3,307
Maximum Load				10										
Max. Load Point				Bellevue										
S. Sta. Offs/Max. Load				20.0%										
Interzone Pct.				23.1%										
					INTERZONE PERCENT (Percent of Offs before Forest Hills)									
					AM Peak	Midday	PM Peak	Evening	All Day					
					0.4%	4.1%	2.9%	25.9%	1.3%					

MBTA NEEDHAM LINE – OUTBOUND
WEEKDAY BOARDINGS, ALIGHTINGS, AND LOADS BY TRAIN AND STATION
Spring/Fall 2018 CTPS Commuter Rail Passenger Counts

Station	Train 601				Train 603				Train 605				Train 607				Train 609			
	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (AM)	Ons	Offs	Load	Scheduled Time (AM)	Ons	Offs	Load
South Station	7:05	67	—	67	7:52	42	—	42	9:05	38	—	38	9:53	15	—	15	11:50	25	—	25
Back Bay	7:10	2	24	45	7:57	5	36	11	9:10	8	24	22	9:58	2	6	11	11:55	8	4	29
Ruggles	—	—	—	45	—	—	—	11	—	—	—	22	10:02	4	0	15	11:59	4	0	33
Forest Hills	7:17	7	2	50	—	—	—	11	9:18	0	0	22	10:08	0	0	15	12:05 PM	0	2	31
Roslindale Village	7:20	6	2	54	—	—	—	11	9:21	2	0	24	10:11	1	2	14	12:08	0	1	30
Bellevue	7:23	1	1	54	—	—	—	11	9:24	0	1	23	10:14	0	0	14	12:11	0	5	25
Highland	7:25	0	0	54	—	—	—	11	9:26	0	1	22	10:16	1	2	13	12:13	0	6	19
West Roxbury	7:27	1	22	33	8:09	0	3	8	9:29	0	4	18	10:18	2	0	15	12:15	0	3	16
Hersey	7:32	0	9	24	—	0	0	8	9:34	0	0	18	10:25	0	2	13	12:20	0	2	14
Needham Junction	7:44	0	8	16	8:25	0	0	8	9:36	0	4	14	10:28	0	4	9	12:23	0	1	13
Needham Center	7:47	0	8	8	8:28	0	3	5	9:39	0	5	9	10:31	0	6	3	12:26	0	5	8
Needham Heights	7:51	—	8	—	8:32	—	5	—	9:43	—	9	—	10:35	—	3	—	12:30	—	8	—
Total Riders		84	84			47	47			48	48			25	25			37	37	
Maximum Load				67				42				38				15				33
Max. Load Point				South Station				South Station				South Station				South Station				Ruggles
S. Sta. Ons/Max. Load				100%				100%				100%				100%				75.8%
Interzone Pct.				9.5%				0.0%				4.2%				16.0%				0.0%

Notes: Times are based on schedule effective 11/20/17
“ f ” before time indicates train stops only on request

“—” indicates train does not serve this station, or item not applicable
S. Sta. Ons/Max. Load = South Station boardings/maximum load on train

Interzone Pct. = Percent of ons after Forest Hills

MBTA NEEDHAM LINE – OUTBOUND
WEEKDAY BOARDINGS, ALIGHTINGS, AND LOADS BY TRAIN AND STATION
Spring/Fall 2018 CTPS Commuter Rail Passenger Counts

Station	Train 611				Train 613				Train 615				Train 617				Train 619			
	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load
South Station	1:52	42	—	42	3:00	83	—	83	4:05	61	—	61	4:47	399	—	399	5:26	407	—	407
Back Bay	1:57	17	0	59	3:05	36	2	117	4:10	129	3	187	4:52	177	2	574	5:31	237	12	632
Ruggles	2:01	22	0	81	3:09	129	1	245	4:14	107	0	294	4:56	62	0	636	5:35	104	2	734
Forest Hills	2:07	0	4	77	3:15	1	10	236	4:20	1	16	279	5:02	1	29	608	5:41	1	31	704
Roslindale Village	2:10	0	12	65	3:18	2	33	205	4:25	1	42	238	5:07	3	74	537	5:47	1	85	620
Bellevue	2:13	0	8	57	3:21	0	32	173	4:28	0	41	197	5:10	2	47	492	5:50	0	92	528
Highland	2:15	0	9	48	3:23	0	65	108	4:30	0	28	169	5:12	1	96	397	5:52	0	105	423
West Roxbury	2:17	0	6	42	3:25	3	49	62	4:32	3	53	119	5:14	1	92	306	5:54	1	84	340
Hersey	2:22	0	12	30	3:30	0	23	39	4:37	0	53	66	5:20	2	132	176	6:00	0	135	205
Needham Junction	2:25	0	18	12	3:34	0	12	27	4:41	0	32	34	5:24	0	65	111	6:04	0	83	122
Needham Center	2:28	0	9	3	3:37	1	14	14	4:44	0	19	15	5:27	0	46	65	6:07	0	65	57
Needham Heights	2:33	—	3	—	3:42	—	14	—	4:49	—	15	—	5:32	—	65	—	6:12	—	57	—
Total Riders		81	81			255	255			302	302			648	648			751	751	
Maximum Load				81				245				294				636				734
Max. Load Point				Ruggles				Ruggles				Ruggles				Ruggles				Ruggles
S. Sta. Ons/Max. Load				51.9%				44.1%				14.6%				63.1%				62.9%
Interzone Pct.				0.0%				2.4%				1.3%				1.4%				0.3%

MBTA NEEDHAM LINE – OUTBOUND
WEEKDAY BOARDINGS, ALIGHTINGS, AND LOADS BY TRAIN AND STATION
Spring/Fall 2018 CTPS Commuter Rail Passenger Counts

Station	Train 621				Train 623				Train 625				Train 627				Train 629			
	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load	Scheduled Time (PM)	Ons	Offs	Load
South Station	5:58	369	—	369	6:36	183	—	183	7:30	122	—	122	8:50	55	—	55	9:50	23	—	23
Back Bay	6:03	100	9	460	6:41	73	4	252	7:35	48	1	169	8:55	27	1	81	9:55	17	2	38
Ruggles	6:07	41	7	494	6:45	11	5	258	7:39	9	2	176	8:59	5	0	86	9:59	7	0	45
Forest Hills	6:13	0	27	467	6:51	1	19	240	7:45	0	8	168	9:05	0	1	85	10:05	0	2	43
Roslindale Village	6:18	0	54	413	6:56	0	43	197	7:48	0	37	131	9:08	0	14	71	10:08	0	6	37
Bellevue	6:21	0	54	359	6:59	0	27	170	7:51	0	24	107	9:11	0	7	64	10:11	0	3	34
Highland	6:23	0	56	303	7:01	0	37	133	7:53	0	27	80	9:13	0	11	53	10:13	1	5	30
West Roxbury	6:25	0	57	246	7:03	0	5	128	7:55	0	20	60	9:15	0	10	43	10:15	0	7	23
Hersey	6:30	0	111	135	7:08	0	87	41	8:00	0	24	36	9:20	0	14	29	10:20	0	10	13
Needham Junction	6:37	0	59	76	7:12	0	27	14	8:03	0	10	26	9:23	0	11	18	10:23	0	4	9
Needham Center	6:40	0	26	50	7:15	0	14	0	8:06	0	12	14	9:26	0	11	7	10:26	0	1	8
Needham Heights	6:45	—	50	—	7:20	—	0	—	8:10	—	14	—	9:30	—	7	—	10:30	—	8	—
Total Riders		510	510			263	263			179	179			87	87			48	48	
Maximum Load				494				258				176				86				45
Max. Load Point				Ruggles				Ruggles				Ruggles				Ruggles				Ruggles
S. Sta. Ons/Max. Load				78.1%				71.3%				69.3%				64.0%				51.1%
Interzone Pct.				0.0%				0.0%				0.0%				0.0%				2.1%

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WEEKDAY BOARDINGS, ALIGHTINGS, AND LOADS BY TRAIN AND STATION
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SUMMARY BY TIME PERIOD

Station	Train 631				AM Peak Trains 601–605		Midday Trains 607–613		PM Peak Trains 615–623		Evening Trains 625–631		All Day Trains 601–631	
	Scheduled Time (PM)	Ons	Offs	Load	Ons	Offs	Ons	Offs	Ons	Offs	Ons	Offs	Ons	Offs
	South Station	11:20	6	—	6	147	—	165	—	1,419	—	206	—	1,937
Back Bay	11:25	5	0	11	15	84	63	12	716	30	97	4	891	130
Ruggles	11:29	1	0	12	0	0	159	1	325	14	22	2	506	17
Forest Hills	11:35	0	1	11	7	2	1	16	4	122	0	12	12	152
Roslindale Village	11:38	0	4	7	8	2	3	48	5	298	0	61	16	409
Bellevue	11:41	0	1	6	1	2	0	45	2	261	0	35	3	343
Highland	11:43	0	1	5	0	1	1	82	1	322	1	44	3	449
West Roxbury	11:45	0	1	4	1	29	5	58	5	291	0	38	11	416
Hersey	11:50	1	3	2	0	9	0	39	2	518	1	51	3	617
Needham Junction	11:53	0	0	2	0	12	0	35	0	266	0	25	0	338
Needham Center	11:56	0	0	2	0	16	1	34	0	170	0	24	1	244
Needham Heights	12:00	—	2	—	0	22	0	28	0	187	0	31	0	268
Total Riders		13	13		179	179	398	398	2,479	2,479	327	327	3,383	3,383
Maximum Load				12										
Max. Load Point				Ruggles										
S. Sta. Ons/Max. Load				50.0%										
Interzone Pct.				7.7%										
					INTERZONE PERCENT (Percent of Ons after Forest Hills)									
					AM Peak		Midday		PM Peak		Evening		All Day	
					5.6%		2.5%		0.6%		0.6%		1.1%	

**MBTA NEEDHAM LINE
COMPARISONS OF BOARDINGS AND ALIGHTINGS BY STATION
IN CTPS 2018 AND 2012 WEEKDAY PASSENGER COUNTS**

Station	Inbound Change				Outbound Change			
	Boardings		Alightings		Boardings		Alightings	
	2018-2012	2018/2012	2018-2012	2018/2012	2018-2012	2018/2012	2018-2012	2018/2012
Needham Heights	75	1.30	Not Applicable		Not Applicable		-38	0.88
Needham Center	43	1.24	0	1.00	0	1.00	15	1.07
Needham Junction	-20	0.95	0	1.00	0	1.00	10	1.03
Hersey	9	1.02	-2	0.00	1	1.50	117	1.23
West Roxbury	86	1.25	7	1.64	-3	0.79	-33	0.93
Highland	102	1.35	0	1.00	0	1.00	101	1.29
Bellevue	89	1.36	-3	0.25	3	See Note	109	1.47
Roslindale Village	110	1.31	5	1.31	-4	0.80	-33	0.93
Forest Hills	64	1.97	-5	0.86	-19	0.39	43	1.39
Ruggles	7	2.17	251	1.95	231	1.84	6	1.55
Back Bay	18	1.22	171	1.22	41	1.05	-4	0.97
South Station	Not Applicable		159	1.10	43	1.02	Not Applicable	
Total Riders	583	1.21	583	1.21	293	1.09	293	1.09

Note: The 2012 counts for Bellevue showed no outbound boardings, so change from 2012 to 2018 cannot be expressed as a ratio