

From: Henderson, Tony <Tony.Henderson@sfmta.com>
Sent: Friday, January 24, 2020 9:54 AM
To: Mike Alston <malston@kittelson.com>
Cc: White, Elizabeth (CPC) <elizabeth.white@sfgov.org>; Balboa Reservoir Compliance (ECN) <balboareservoircompliance.ecn@sfgov.org>
Subject: RE: SFMTA Transit Data

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Hi Mike – As discussed, here is the additional data requested.

Tony

Outbound, Including Dwell (note includes Monday-Friday)

Stop to Stop Travel Time - Before/After

From	To	Before			Difference in Travel Time (sec)
		Median Travel Time (sec)	Variability (90% - 50%)	Number of Records	
3rd St&Hudson/Innes Ave S-NS	3rd St&Evans Ave NE-FS/SI	73	35.1	110	
3rd St&Evans Ave NE-FS/SI	3rd St&Marin St SE-NS/SI	147	57.1	110	
3rd St&Marin St SE-NS/SI	3rd St&23rd St NE-FS/SI	208	68.0	121	
3rd St&23rd St NE-FS/SI	3rd St&20th St NE-FS/SI	101	61.6	105	
3rd St&20th St NE-FS/SI	UCSF Medical Center (Mar...	122	54.0	166	
UCSF Medical Center (Mariposa) OB NE-FS/..	UCSF / Chase Center (16t...	166	89.6	183	
UCSF / Chase Center (16th Street) SE-NS/SI	3rd St&Mission Rock St NE...	167	60.1	150	
3rd St&Mission Rock St NE-FS	4th Street & King Street S...	192	106.0	230	
4th Street & King Street SE-NS/SB	King St&2nd St W-NS/SI	281	133.2	257	
King St&2nd St W-NS/SI	The Embarcadero&Branna...	127	97.0	229	
The Embarcadero&Brannan St S-NS/SI	Embarcadero Folsom St N...	150	103.6	238	
Embarcadero Folsom St N-NS/SI	Embarcadero Station Outb...	255	100.5	146	
Embarcadero Station Outbound	Montgomery Station Outb...	137	96.0	131	
Montgomery Station Outbound	Powell Station Outbound	91	48.5	258	
Powell Station Outbound	Civic Center Station Outbo...	98	39.6	73	
Civic Center Station Outbound	Van Ness Station OB	86	25.7	72	
Van Ness Station OB	Church St Station Outbou...	143	19.4	167	
Church St Station Outbound	Castro Station Outbound	95	92.0	180	
Castro Station Outbound	Forest Hill Station Outbou...	221	21.0	310	
Forest Hill Station Outbound	West Portal Station N-FS/SB	140	179.0	258	
West Portal Station N-FS/SB	West Portal Ave&14th Ave...	154	69.0	212	
West Portal Ave&14th Ave N-NS/SI	Saint Francis Circle NW-NS...	102	92.7	214	
Saint Francis Circle NW-NS/SI	Junipero Serra Blvd&Ocea...	126	73.3	198	
Junipero Serra Blvd&Ocean Ave NW-NS/SI	Ocean Ave&San Leandro ..	104	35.0	111	
Ocean Ave&Aptos Ave W-NS/SI	Ocean Ave&Cerritos Ave ...	47	18.4	57	
Ocean Ave&Cerritos Ave W-NS/SI	Ocean Ave&Victoria St SW...	64	18.0	100	
Ocean Ave&Victoria St SW-NS/SI	Ocean Ave&Jules Ave SW...	61	40.0	139	
Ocean Ave&Jules Ave SW-NS/SI	Ocean Ave&Miramar Ave ...	88	17.5	166	
Ocean Ave&Miramar Ave SW-NS/SI	Ocean Ave&Lee St SW-NS	99	48.2	169	
Ocean Ave&Lee St SW-NS	City College Pedestrian Bri...	117	12.8	59	
City College Pedestrian Bridge SW	METRO TERMINAL-NS/SI	157	98.5	56	

Outbound, Excluding Dwell (note includes Monday-Friday)

Stop to Stop Travel Time - Before/After

From	To	Before			Difference in Travel Time (sec)
		Median Travel Time (sec)	Variability (90% - 50%)	Number of Records	
3rd St&Hudson/Innes Ave S-NS	3rd St&Evans Ave NE-FS/SI	47	20.6	108	
3rd St&Evans Ave NE-FS/SI	3rd St&Marin St SE-NS/SI	99	39.6	109	
3rd St&Marin St SE-NS/SI	3rd St&23rd St NE-FS/SI	160	65.0	121	
3rd St&23rd St NE-FS/SI	3rd St&20th St NE-FS/SI	69	34.5	106	
3rd St&20th St NE-FS/SI	UCSF Medical Center (Mar...	85	27.8	167	
UCSF Medical Center (Mariposa) OB NE-FS/..	UCSF / Chase Center (16t...	102	66.0	185	
UCSF / Chase Center (16th Street) SE-NS/SI	3rd St&Mission Rock St NE...	118	44.2	154	
3rd St&Mission Rock St NE-FS	4th Street & King Street S...	143	87.8	229	
4th Street & King Street SE-NS/SB	King St&2nd St W-NS/SI	142	72.9	252	
King St&2nd St W-NS/SI	The Embarcadero&Branna...	89	33.1	230	
The Embarcadero&Brannan St S-NS/SI	Embarcadero Folsom St N...	116	74.6	238	
Embarcadero Folsom St N-NS/SI	Embarcadero Station Outb...	180	50.0	146	
Embarcadero Station Outbound	Montgomery Station Outb...	63	68.1	130	
Montgomery Station Outbound	Powell Station Outbound	64	3.0	256	
Powell Station Outbound	Civic Center Station Outbo...	68	2.9	72	
Civic Center Station Outbound	Van Ness Station OB	61	1.0	72	
Van Ness Station OB	Church St Station Outbou...	118	5.4	167	
Church St Station Outbound	Castro Station Outbound	65	24.0	180	
Castro Station Outbound	Forest Hill Station Outbou...	193	3.0	312	
Forest Hill Station Outbound	West Portal Station N-FS/SB	102	130.3	258	
West Portal Station N-FS/SB	West Portal Ave&14th Ave...	95	29.0	213	
West Portal Ave&14th Ave N-NS/SI	Saint Francis Circle NW-NS...	81	85.0	216	
Saint Francis Circle NW-NS/SI	Junipero Serra Blvd&Ocea...	72	13.0	191	
Junipero Serra Blvd&Ocean Ave NW-NS/SI	Ocean Ave&San Leandro ..	44	11.0	110	
Ocean Ave&Aptos Ave W-NS/SI	Ocean Ave&Cerritos Ave ..	29	5.0	56	
Ocean Ave&Cerritos Ave W-NS/SI	Ocean Ave&Victoria St SW...	40	5.6	100	
Ocean Ave&Victoria St SW-NS/SI	Ocean Ave&Jules Ave SW...	44	9.0	138	
Ocean Ave&Jules Ave SW-NS/SI	Ocean Ave&Miramar Ave ..	44	14.0	167	
Ocean Ave&Miramar Ave SW-NS/SI	Ocean Ave&Lee St SW-NS	69	10.2	169	
Ocean Ave&Lee St SW-NS	City College Pedestrian Bri...	80	10.0	59	
City College Pedestrian Bridge SW	METRO TERMINAL-NS/SI	129	90.5	56	

From: Henderson, Tony

Sent: Monday, December 23, 2019 9:20 AM

To: Mike Alston <malston@kittelson.com>

Cc: White, Elizabeth (CPC) <elizabeth.white@sfgov.org>; Balboa Reservoir Compliance (ECN) <balboareservoircompliance.ecn@sfgov.org>

Subject: RE: SFMTA Transit Data

Hi Mike. Below are a bunch of screenshots of data we discussed. I had to expand parameters a bit, which are:

Dates: 3/1/2019 – 12/13/2019

Days: Tuesday, Wednesday, Thursday

Times: 8pm-midnight

Please feel free to call with any questions.

Tony

Inbound – Includes Dwell

Stop to Stop Travel Time - Before/After

From	To	After			Difference in Travel Time (sec)
		Median Travel Time (sec)	Variability (90% - 50%)	Number of Records	
San Jose & Geneva N-MB/BZ	City College Pedestrian Br..	883	601.8	89	
City College Pedestrian Bridge N-MB	Ocean Ave&Lee St NE-NS/SI	71	61.0	73	
Ocean Ave&Lee St NE-NS/SI	Ocean Ave&Miramar Ave ..	139	27.6	65	
Ocean Ave&Miramar Ave NE-NS/SI	Ocean Ave&Dorado Ter N..	92	16.5	60	
Ocean Ave&Dorado Ter NE-NS	Ocean Ave&Fairfield Way ..	73	38.2	57	
Ocean Ave&Junipero Serra Blvd NE-NS	Saint Francis Circle NE-FS/SI	113	43.7	88	
Saint Francis Circle NE-FS/SI	West Portal Ave&14th Ave..	184	112.0	116	
West Portal Ave&14th Ave S-NS/SI	West Portal Station E-FS	117	65.6	113	
West Portal Station E-FS	Forest Hill Station Inbound	185	87.1	128	
Forest Hill Station Inbound	Castro Station Inbound	193	77.8	143	
Castro Station Inbound	Church St Station Inbound	90	33.6	144	
Church St Station Inbound	Van Ness Station Inbound	136	92.6	94	
Embarcadero Station Inbound	The Embarcadero&Folsom ..	157	97.4	170	
The Embarcadero&Folsom St S-FS/SI	The Embarcadero&Brannan..	185	70.8	77	
The Embarcadero&Brannan St S-FS/SI	King St&2nd St S-FS/SI	140	85.7	84	
King St&2nd St S-FS/SI	4th Street & King Street	195	179.6	165	
4th Street & King Street	3rd St&Mission Rock St S..	301	95.5	156	
3rd St&Mission Rock St SW-FS	UCSF / Chase Center (16t..	166	90.2	109	
UCSF / Chase Center (16th Street) SW-FS/SI	UCSF Medical Center (Mar..	167	62.0	85	
UCSF Medical Center (Mariposa) IB	3rd St&20th St SW-FS/SI	154	55.1	114	
3rd St&20th St SW-FS/SI	3rd St&23rd St SW-FS/SI	100	57.3	108	
3rd St&23rd St SW-FS/SI	3rd St&Marin St NW-NS/SI	190	70.6	117	
3rd St&Marin St NW-NS/SI	3rd St&Evans Ave SW-FS/SI	142	64.3	98	
3rd St&Evans Ave SW-FS/SI	3rd St&Hudson/Innes Ave ..	90	72.2	114	
3rd St&Hudson/Innes Ave S-FS	3rd St&Kirkwood/La Salle ..	69	47.4	129	
3rd St&Kirkwood/La Salle S-FS	3rd St&Oakdale/Palou N-N..	144	49.7	134	
3rd St&Oakdale/Palou N-NS SI	3rd St&Revere/Shafter S-FS	88	54.9	108	
3rd St&Revere/Shafter S-FS	3rd St&Williams Ave SW-F..	106	35.2	105	
3rd St&Williams Ave SW-FS/SI	3rd St&Carroll Ave SW-FS/SI	128	48.9	104	
3rd St&Carroll Ave SW-FS/SI	3rd St&Paul Ave SW-FS/SI	75	33.6	93	
3rd St&Paul Ave SW-FS/SI	3rd St&Le Conte Ave S-FS/..	102	41.2	82	

Inbound – Excludes Dwell

Stop to Stop Travel Time - Before/After

From	To	After			Difference in Travel Time (sec)
		Median Travel Time (sec)	Variability (90% - 50%)	Number of Records	
San Jose & Geneva N-MB/BZ	City College Pedestrian Bri..	185	74.2	90	
City College Pedestrian Bridge N-MB	Ocean Ave&Lee St NE-NS/SI	45	8.0	71	
Ocean Ave&Lee St NE-NS/SI	Ocean Ave&Miramar Ave ..	69	42.6	65	
Ocean Ave&Miramar Ave NE-NS/SI	Ocean Ave&Dorado Ter N..	45	29.5	60	
Ocean Ave&Dorado Ter NE-NS	Ocean Ave&Fairfield Way ..	45	17.6	57	
Ocean Ave&Junipero Serra Blvd NE-NS	Saint Francis Circle NE-FS/SI	61	17.8	88	
Saint Francis Circle NE-FS/SI	West Portal Ave&14th Ave..	89	32.0	116	
West Portal Ave&14th Ave S-NS/SI	West Portal Station E-FS	84	71.4	113	
West Portal Station E-FS	Forest Hill Station Inbound	84	5.0	129	
Forest Hill Station Inbound	Castro Station Inbound	171	8.7	144	
Castro Station Inbound	Church St Station Inbound	63	2.0	145	
Church St Station Inbound	Van Ness Station Inbound	105	52.1	94	
Embarcadero Station Inbound	The Embarcadero&Folsom ..	99	57.4	167	
The Embarcadero&Folsom St S-FS/SI	The Embarcadero&Branna..	119	43.0	76	
The Embarcadero&Brannan St S-FS/SI	King St&2nd St S-FS/SI	89	46.9	82	
King St&2nd St S-FS/SI	4th Street & King Street	156	146.8	164	
4th Street & King Street	3rd St&Mission Rock St S..	155	43.0	156	
3rd St&Mission Rock St SW-FS	UCSF / Chase Center (16t..	113	58.0	111	
UCSF / Chase Center (16th Street) SW-FS/SI	UCSF Medical Center (Mar..	111	65.8	83	
UCSF Medical Center (Mariposa) IB	3rd St&20th St SW-FS/SI	75	30.6	114	
3rd St&20th St SW-FS/SI	3rd St&23rd St SW-FS/SI	69	22.0	111	
3rd St&23rd St SW-FS/SI	3rd St&Marin St NW-NS/SI	151	57.2	119	
3rd St&Marin St NW-NS/SI	3rd St&Evans Ave SW-FS/SI	115	28.0	97	
3rd St&Evans Ave SW-FS/SI	3rd St&Hudson/Innes Ave...	44	22.7	114	
3rd St&Hudson/Innes Ave S-FS	3rd St&Kirkwood/La Salle ...	40	35.2	129	
3rd St&Kirkwood/La Salle S-FS	3rd St&Oakdale/Palou N-N..	69	36.6	133	
3rd St&Oakdale/Palou N-NS SI	3rd St&Revere/Shafter S-FS	45	19.0	108	
3rd St&Revere/Shafter S-FS	3rd St&Williams Ave SW-F..	54	24.0	106	
3rd St&Williams Ave SW-FS/SI	3rd St&Carroll Ave SW-FS/SI	82	39.8	104	
3rd St&Carroll Ave SW-FS/SI	3rd St&Paul Ave SW-FS/SI	52	17.9	90	
3rd St&Paul Ave SW-FS/SI	3rd St&Le Conte Ave S-FS/..	61	37.5	82	

Outbound – Includes Dwell

Stop to Stop Travel Time - Before/After

From	To	After			Difference in Travel Time (sec)
		Median Travel Time (sec)	Variability (90% - 50%)	Number of Records	
3rd St&Carroll Ave NE-FS/SI	3rd St&Van Dyke Ave NE-F..	107	28.6	55	
3rd St&Van Dyke Ave NE-FS/SI	3rd St&Revere/Shafter S-N..	96	62.8	98	
3rd St&Revere/Shafter S-NS/SI	3rd St&Oakdale/Palou N-F..	89	40.0	105	
3rd St&Oakdale/Palou N-FS/SI	3rd St&Kirkwood/La Salle ..	114	40.0	124	
3rd St&Kirkwood/La Salle N-FS	3rd St&Hudson/Innes Ave ..	84	52.1	88	
3rd St&Hudson/Innes Ave S-NS	3rd St&Evans Ave NE-FS/SI	75	34.5	70	
3rd St&Evans Ave NE-FS/SI	3rd St&Marin St SE-NS/SI	147	58.1	70	
3rd St&Marin St SE-NS/SI	3rd St&23rd St NE-FS/SI	211	65.0	81	
3rd St&23rd St NE-FS/SI	3rd St&20th St NE-FS/SI	100	63.0	71	
3rd St&20th St NE-FS/SI	UCSF Medical Center (Mar..	116	58.7	100	
UCSF Medical Center (Mariposa) OB NE-FS/..	UCSF / Chase Center (16t..	172	82.7	110	
UCSF / Chase Center (16th Street) SE-NS/SI	3rd St&Mission Rock St NE..	169	60.0	86	
3rd St&Mission Rock St NE-FS	4th Street & King Street S..	187	118.8	135	
4th Street & King Street SE-NS/SB	King St&2nd St W-NS/SI	284	122.0	151	
King St&2nd St W-NS/SI	The Embarcadero&Branna..	124	88.8	137	
The Embarcadero&Brannan St S-NS/SI	Embarcadero Folsom St N-..	151	101.2	142	
Embarcadero Folsom St N-NS/SI	Embarcadero Station Outb..	259	112.4	89	
Embarcadero Station Outbound	Montgomery Station Outb..	133	88.0	82	
Montgomery Station Outbound	Powell Station Outbound	92	47.0	159	
Van Ness Station OB	Church St Station Outbou..	143	16.7	104	
Church St Station Outbound	Castro Station Outbound	94	93.0	114	
Castro Station Outbound	Forest Hill Station Outbou..	221	15.0	182	
Forest Hill Station Outbound	West Portal Station N-FS/SB	140	185.0	151	
West Portal Station N-FS/SB	West Portal Ave&14th Ave..	154	73.2	125	
West Portal Ave&14th Ave N-NS/SI	Saint Francis Circle NW-NS..	103	78.0	126	
Saint Francis Circle NW-NS/SI	Junipero Serra Blvd&Ocea..	128	71.7	114	
Junipero Serra Blvd&Ocean Ave NW-NS/SI	Ocean Ave&San Leandro ..	104	41.5	70	
Ocean Ave&Cerritos Ave W-NS/SI	Ocean Ave&Victoria St SW..	67	15.3	58	
Ocean Ave&Victoria St SW-NS/SI	Ocean Ave&Jules Ave SW-..	62	42.0	84	
Ocean Ave&Jules Ave SW-NS/SI	Ocean Ave&Miramar Ave ..	88	23.0	101	
Ocean Ave&Miramar Ave SW-NS/SI	Ocean Ave&Lee St SW-NS	99	51.4	100	

Outbound – Excludes Dwell

Stop to Stop Travel Time - Before/After

From	To	After			Difference in Travel Time (sec)
		Median Travel Time (sec)	Variability (90% - 50%)	Number of Records	
3rd St&Carroll Ave NE-FS/SI	3rd St&Van Dyke Ave NE-F..	76	38.6	55	
3rd St&Van Dyke Ave NE-FS/SI	3rd St&Revere/Shafter S-N..	53	29.6	98	
3rd St&Revere/Shafter S-NS/SI	3rd St&Oakdale/Palou N-F..	44	19.8	104	
3rd St&Oakdale/Palou N-FS/SI	3rd St&Kirkwood/La Salle ..	70	24.8	123	
3rd St&Kirkwood/La Salle N-FS	3rd St&Hudson/Innes Ave...	45	35.4	89	
3rd St&Hudson/Innes Ave S-NS	3rd St&Evans Ave NE-FS/SI	46	22.1	68	
3rd St&Evans Ave NE-FS/SI	3rd St&Marin St SE-NS/SI	98	43.8	69	
3rd St&Marin St SE-NS/SI	3rd St&23rd St NE-FS/SI	160	65.0	81	
3rd St&23rd St NE-FS/SI	3rd St&20th St NE-FS/SI	68	32.8	72	
3rd St&20th St NE-FS/SI	UCSF Medical Center (Mar..	81	29.1	100	
UCSF Medical Center (Mariposa) OB NE-FS/..	UCSF / Chase Center (16t..	100	68.0	111	
UCSF / Chase Center (16th Street) SE-NS/SI	3rd St&Mission Rock St NE..	128	43.6	90	
3rd St&Mission Rock St NE-FS	4th Street & King Street S...	143	102.7	134	
4th Street & King Street SE-NS/SB	King St&2nd St W-NS/SI	141	69.0	151	
King St&2nd St W-NS/SI	The Embarcadero&Branna...	88	32.4	137	
The Embarcadero&Brannan St S-NS/SI	Embarcadero Folsom St N-...	115	65.0	142	
Embarcadero Folsom St N-NS/SI	Embarcadero Station Outb...	182	50.6	89	
Embarcadero Station Outbound	Montgomery Station Outb...	64	67.8	82	
Montgomery Station Outbound	Powell Station Outbound	64	3.1	160	
Van Ness Station OB	Church St Station Outbou...	118	4.7	104	
Church St Station Outbound	Castro Station Outbound	65	24.0	114	
Castro Station Outbound	Forest Hill Station Outbou...	193	2.0	183	
Forest Hill Station Outbound	West Portal Station N-FS/SB	102	129.0	151	
West Portal Station N-FS/SB	West Portal Ave&14th Ave..	95	24.5	126	
West Portal Ave&14th Ave N-NS/SI	Saint Francis Circle NW-NS..	81	66.4	127	
Saint Francis Circle NW-NS/SI	Junipero Serra Blvd&Ocea...	73	12.1	110	
Junipero Serra Blvd&Ocean Ave NW-NS/SI	Ocean Ave&San Leandro...	46	10.2	70	
Ocean Ave&Cerritos Ave W-NS/SI	Ocean Ave&Victoria St SW..	40	5.6	58	
Ocean Ave&Victoria St SW-NS/SI	Ocean Ave&Jules Ave SW-...	44	8.8	83	
Ocean Ave&Jules Ave SW-NS/SI	Ocean Ave&Miramar Ave ..	45	11.4	102	
Ocean Ave&Miramar Ave SW-NS/SI	Ocean Ave&Lee St SW-NS	70	10.0	100	

From: Mike Alston <malston@kittelson.com>

Sent: Friday, December 20, 2019 3:16 PM

To: Henderson, Tony <Tony.Henderson@sfmta.com>

Cc: White, Elizabeth (CPC) <elizabeth.white@sfgov.org>; Balboa Reservoir Compliance (ECN) <balboareservoircompliance.ecn@sfgov.org>

Subject: RE: SFMTA Transit Data

EXT

Tony. Good luck with the hectic pre-holiday items!

Mike Alston, RSP
Engineering Associate / Planner
(he/his)
[Kittelson & Associates, Inc.](http://www.kittelson.com)
Transportation Engineering / Planning
510.433.8078 (direct)
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From: Henderson, Tony <Tony.Henderson@sfmta.com>

Sent: Friday, December 20, 2019 1:55 PM

To: Mike Alston <malston@kittelson.com>

Cc: White, Elizabeth (CPC) <elizabeth.white@sfgov.org>; Balboa Reservoir Compliance (ECN) <balboareservoircompliance.ecn@sfgov.org>

Subject: RE: SFMTA Transit Data

Hi Mike – I've been trying to get the data together, but ended up with an unusually hectic week. I'll aim to get you that data in the next few days.

Thanks,
Tony

From: Mike Alston <malston@kittelson.com>

Sent: Friday, December 20, 2019 1:53 PM

To: Henderson, Tony <Tony.Henderson@sfmta.com>

Cc: White, Elizabeth (CPC) <elizabeth.white@sfgov.org>

Subject: SFMTA Transit Data

EXT

Tony,

I am wondering if you can share the transit travel time data. Please feel free to call with questions.

Thanks!

Mike Alston, RSP

Engineering Associate / Planner
(he/his)

[Kittelson & Associates, Inc.](#)

Transportation Engineering / Planning

155 Grand Avenue, Suite 900

Oakland, California 94612

510.839.1742

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