



System Ridership Report: February 2018

System-wide ridership increased 3.6%, or more than 19,000 passengers, for the month of February as compared to February 2017. Shuttle ridership increased 17.7%

Table A: Ridership Trends by Fare Component

Fare Categories	Month			Fiscal Year to Date		
	Feb-18	Feb-17	%Change	Jul 17 - Feb 18	Jul 16 - Feb 17	%Change
General Fare	63,012	61,980	1.7%	582,679	611,346	-4.7%
Transfers	40,392	36,245	11.4%	354,852	342,902	3.5%
Full Fare Prepaid ⁽¹⁾	70,498	69,079	2.1%	625,521	648,787	-3.6%
Santa Barbara City College	69,461	72,223	-3.8%	449,396	495,216	-9.3%
Senior & Disabled Prepaid ⁽²⁾	55,261	49,383	11.9%	455,285	435,276	4.6%
Shuttle (DWE & Seaside)	13,396	11,386	17.7%	145,268	150,943	-3.8%
UC Santa Barbara	168,808	162,971	3.6%	839,243	784,467	7.0%
Student Prepaid ⁽³⁾	47,629	48,142	-1.1%	360,303	391,718	-8.0%
Free	10,535	8,028	31.2%	90,351	84,167	7.3%
My Ride	5,563	5,766	-3.5%	54,598	62,839	-13.1%
Senior	12,749	12,198	4.5%	114,828	126,554	-9.3%
Persons with Disabilities	2,714	2,546	6.6%	22,537	24,894	-9.5%
Tokens	1,873	2,296	-18.4%	15,752	16,611	-5.2%
Total	561,891	542,243	3.6%	4,110,613	4,175,720	-1.6%

(1) Includes adult 10-Ride and Unlimited 30-Day Passport use.

(2) Includes seniors' and persons with disabilities' 10-Ride and Unlimited 30-Day Passport use.

(3) Includes student 10-Ride and Unlimited 30-Day Passport use.

Table B: Revenue Hours and Revenue Miles

Metrics	Month			Fiscal Year to Date		
	Feb-18	Feb-17	%Change	Jul 17 - Feb 18	Jul 16 - Feb 17	%Change
Passengers	561,891	542,243	3.6%	4,110,613	4,175,720	-1.6%
Revenue Hours	17,302	17,140	0.9%	143,490	142,611	0.6%
Passengers per Rev Hour	32.48	31.64	2.7%	28.65	29.28	-2.2%
Miles	209,950	211,697	-0.8%	1,725,783	1,732,768	-0.4%
Passengers per Mile	2.68	2.56	4.5%	2.38	2.41	-1.2%

*SOURCE: MTD PASSDAT PROGRAM, MTD TRANSIT DEVELOPMENT DEPARTMENT, PLANNING SECTION

Table C: February 2018 System Ridership

LINE	Month			Fiscal Year to Date		
	Feb-18	Feb-17	%Change	Jul 17 - Feb 18	Jul 16 - Feb 17	%Change
1 West Santa Barbara	26,491	25,790	2.7%	218,970	225,430	-2.9%
2 East Santa Barbara	40,887	37,641	8.6%	342,708	341,940	0.2%
3 Oak Park	15,778	15,126	4.3%	131,208	129,015	1.7%
4 Mesa/SBCC	11,427	9,313	22.7%	84,785	81,688	3.8%
5 Mesa / La Cumbre	10,795	11,054	-2.3%	84,716	92,529	-8.4%
6 Goleta	45,652	42,829	6.6%	377,747	384,709	-1.8%
7 County Health / Fairview	21,596	18,716	15.4%	181,799	151,904	19.7%
8 County Health	-	-	0.0%	-	13,743	-100.0%
9 Calle Real / Old Town Shuttle	-	-	0.0%	-	4,257	-100.0%
10 Cathedral Oaks	1,644	1,794	-8.4%	11,768	14,056	-16.3%
11 UCSB	89,862	82,058	9.5%	634,959	618,595	2.6%
12x Goleta Express	15,618	15,341	1.8%	129,531	146,788	-11.8%
14 Montecito	5,142	6,123	-16.0%	49,883	55,488	-10.1%
15x SBCC / UCSB Express	25,500	27,051	-5.7%	151,801	171,703	-11.6%
16 City College Shuttle	10,689	10,238	4.4%	58,769	64,069	-8.3%
17 Lower West / SBCC	12,963	12,592	2.9%	99,490	103,086	-3.5%
20 Carpinteria	20,057	20,955	-4.3%	177,096	189,423	-6.5%
21x Carpinteria Express	5,824	6,652	-12.4%	47,460	55,680	-14.8%
23 Winchester Canyon	4,555	4,481	1.7%	31,893	39,635	-19.5%
24x UCSB Express	47,804	52,770	-9.4%	348,460	384,288	-9.3%
25 Elwood	5,109	4,900	4.3%	41,913	38,192	9.7%
27 Isla Vista Shuttle	37,097	38,172	-2.8%	186,406	176,245	5.8%
28 UCSB Shuttle	53,593	49,102	9.1%	263,464	222,757	18.3%
36 Seaside Shuttle	4,354	3,814	14.2%	37,052	41,507	-10.7%
37 Crosstown Shuttle	8,113	6,016	34.9%	63,258	57,288	10.4%
Booster Services	21,710	22,845	-5.0%	138,429	155,787	-11.1%
System Subtotal	542,260	525,373	3.2%	3,893,565	3,959,802	-1.7%
Downtown Waterfront Shuttles						
30 Downtown Shuttle	16,755	14,655	14.3%	176,302	194,576	-9.4%
31 East Beach Waterfront Shuttle	1,710	1,406	21.6%	25,793	27,592	-6.5%
32 West Beach Waterfront Shuttle	1,166	809	44.1%	14,953	12,024	24.4%
Unknown/Miscellaneous			0.0%	-	-	0.0%
System Total	561,891	542,243	3.6%	4,110,613	4,193,994	-2.0%
Related Routes						
20, 21x Carpinteria	25,881	27,607	-6.3%	224,556	245,103	-8.4%
1, 2, 37 East/West & Crosstown	75,491	69,447	8.7%	624,936	624,658	0.0%
4, 5, 15x, 16, 17 Mesa Lines	71,374	70,248	1.6%	479,561	513,075	-6.5%
7, 8, 9 Calle Real	21,596	18,716	15.4%	181,799	169,904	7.0%
6, 11 State/Hollister	135,514	124,887	8.5%	1,012,706	1,003,304	0.9%

*SOURCE: MTD PASSDAT PROGRAM, MTD TRANSIT DEVELOPMENT DEPARTMENT, PLANNING SECTION

TABLE C NOTES - PERIOD OVER PERIOD COMPARISON EXCEPTIONS: SYSTEM CHANGES AND ENHANCEMENTS OCCUR THROUGHOUT THE YEAR. THESE AFFECT THE QUALITY OF CONCLUSIONS DRAWN WHEN COMPARING RIDERSHIP PERIOD OVER PERIOD FOR THOSE LINES THAT ARE MODIFIED.

Table D: February 2018 - Passengers per Hour

LINE	Month			Fiscal Year to Date			
	Feb-18	Feb-17	%Change	Jul 17 - Feb 18	Jul 16 - Feb 17	%Change	
1	West Santa Barbara	31.0	28.8	7.7%	29.5	29.3	0.8%
2	East Santa Barbara	30.7	26.5	15.8%	29.6	28.0	5.6%
3	Oak Park	21.5	20.6	4.3%	20.8	19.4	7.4%
4	Mesa/SBCC	32.0	26.1	22.7%	27.7	26.6	4.0%
5	Mesa / La Cumbre	20.0	20.4	-2.3%	18.4	19.9	-7.7%
6	Goleta	29.2	30.0	-2.6%	28.7	31.1	-7.6%
7	Calle Real / Fairview	18.5	16.0	15.4%	18.0	17.5	3.0%
8	Calle Real / Turnpike	-	-	0.0%	-	26.0	-100.0%
9	Calle Real / Old Town Shuttle	-	-	0.0%	-	11.7	-100.0%
10	Cathedral Oaks	12.6	13.7	-8.4%	10.4	13.2	-21.3%
11	UCSB	38.1	36.2	5.4%	31.6	31.2	1.3%
12x	Goleta Express	27.7	28.0	-1.2%	26.9	30.9	-13.1%
14	Montecito	13.1	15.6	-16.0%	15.5	16.6	-6.4%
15x	SBCC / UCSB Express	36.0	37.9	-5.0%	32.2	36.8	-12.3%
16	City College Shuttle	37.1	35.5	4.4%	36.6	38.1	-3.9%
17	Lower West / SBCC	52.1	50.6	2.9%	46.5	48.1	-3.3%
20	Carpinteria	18.2	19.9	-8.4%	20.0	20.3	-1.6%
21x	Carpinteria Express	18.3	23.5	-22.0%	18.7	22.1	-15.6%
23	Winchester Canyon	25.0	24.2	3.1%	20.3	22.2	-8.7%
24x	UCSB Express	50.9	54.7	-7.0%	42.9	46.8	-8.3%
25	Elwood	24.4	27.2	-10.1%	24.0	26.4	-9.2%
27	Isla Vista Shuttle	60.4	62.1	-2.8%	43.9	41.4	6.1%
28	UCSB Shuttle	81.3	74.9	8.6%	58.8	62.1	-5.3%
36	Seaside Shuttle	13.3	11.7	14.2%	13.8	14.8	-6.6%
37	Crosstown Shuttle	17.4	12.9	34.9%	15.8	14.2	11.2%
	Booster Services	79.2	83.4	-5.0%	81.0	87.5	-7.4%
<i>System Average</i>		33.2	32.5	2.0%	29.1	29.7	-2.0%
Downtown Waterfront Shuttles							
30	Downtown Shuttle	22.6	19.1	18.6%	24.8	25.7	-3.7%
31	East Beach Waterfront Shuttle	11.2	9.2	21.6%	15.3	16.1	-5.0%
32	West Beach Waterfront Shuttle	15.5	10.8	42.9%	18.8	15.1	24.4%
<i>System Total</i>		32.5	31.6	2.7%	28.6	29.2	-2.0%

Related Routes							
20, 21x	Carpinteria	18.2	20.6	-11.6%	19.7	20.7	-4.8%
1, 2, 37	East/West & Crosstown	28.5	25.0	14.1%	27.1	26.1	4.1%
4, 5, 15x, 16, 17	Mesa Lines	33.3	32.7	1.9%	29.7	31.7	-6.1%
7, 8, 9	Calle Real/Fairview	18.4	16.0	15.4%	18.0	17.8	1.6%
6, 11	State/Hollister	34.6	33.8	2.3%	30.5	31.1	-2.2%

*SOURCE: GFI GENFARE, MTD TRANSIT DEVELOPMENT DEPARTMENT, PLANNING SECTION

Table E: February 2018 – ‘At Capacity’ Loads Indicated

Classified as a 30-foot vehicle with 10 or more standees, or a 40-foot vehicle with 20 or more standees.

LINE	Month			Fiscal Year to Date		
	Feb-18	Feb-17	%Change	Jul 17 - Feb 18	Jul 16 - Feb 17	%Change
1 West Santa Barbara	6	1	500.0%	41	16	156.3%
2 East Santa Barbara	10	6	66.7%	79	42	88.1%
3 Oak Park	2	1	100.0%	6	15	-60.0%
4 Mesa/SBCC	1	2	-50.0%	9	7	28.6%
5 Mesa / La Cumbre	3	2	50.0%	24	26	-7.7%
6 Goleta	16	15	6.7%	154	195	-21.0%
7 Calle Real / Fairview	3	2	50.0%	13	14	-7.1%
8 Calle Real / Turnpike	-	-	0.0%	-	1	-100.0%
9 Calle Real / Old Town Shuttle	-	-	0.0%	-	-	0.0%
10 Cathedral Oaks	-	2	-100.0%	2	7	-71.4%
11 UCSB	47	34	38.2%	248	221	12.2%
12x Goleta Express	6	5	20.0%	72	40	80.0%
14 Montecito	-	-	0.0%	11	5	120.0%
15x SBCC / UCSB Express	11	22	-50.0%	68	126	-46.0%
16 City College Shuttle	1	-	100.0%	16	17	-5.9%
17 Lower West / SBCC	3	3	0.0%	11	21	-47.6%
20 Carpinteria	7	-	100.0%	27	22	22.7%
21x Carpinteria Express	3	1	200.0%	4	9	-55.6%
23 Winchester Canyon	-	-	0.0%	4	6	-33.3%
24x UCSB Express	33	41	-19.5%	257	303	-15.2%
25 Elwood	2	1	100.0%	6	6	0.0%
27 Isla Vista Shuttle	62	14	342.9%	234	72	225.0%
28 UCSB Shuttle	43	14	207.1%	150	127	18.1%
36 Seaside Shuttle	-	-	0.0%	1	5	-80.0%
37 Crosstown Shuttle	-	1	-100.0%	5	7	-28.6%
Booster Services	9	25	-64.0%	99	138	-28.3%
System Subtotal	268	192	39.6%	1,541	1,448	6.4%
Downtown Waterfront Shuttles						
30 Downtown Shuttle	15	-	100.0%	91	91	0.0%
31 East Beach Waterfront Shuttle	-	-	0.0%	7	7	0.0%
32 West Beach Waterfront Shuttle	1	-	100.0%	1	-	100.0%
Unknown	-	-	0.0%	-	23	-100.0%
System Total	284	192	47.9%	1,640	1,569	4.5%

*SOURCE: GFI GENFARE, MTD TRANSIT DEVELOPMENT DEPARTMENT, PLANNING SECTION

Table F: February 2018 – ‘Too Full to Board’ Loads Indicated

Passengers were refused service because a vehicle was too full to safely board additional riders.

LINE	Month			Fiscal Year to Date			
	Feb-18	Feb-17	%Change	Jul 17 - Feb 18	Jul 16 - Feb 17	%Change	
1	West Santa Barbara	3	-	100.0%	6	7	-14.3%
2	East Santa Barbara	3	-	100.0%	22	10	120.0%
3	Oak Park	-	2	-100.0%	-	7	-100.0%
4	Mesa/SBCC	-	-	0.0%	-	1	-100.0%
5	Mesa / La Cumbre	-	-	0.0%	13	2	550.0%
6	Goleta	9	4	125.0%	55	72	-23.6%
7	Calle Real / Fairview	-	-	0.0%	5	2	150.0%
8	Calle Real / Turnpike	-	-	0.0%	-	-	0.0%
9	Calle Real / Old Town Shuttle	-	-	0.0%	-	-	0.0%
10	Cathedral Oaks	-	-	0.0%	1	2	-50.0%
11	UCSB	126	60	110.0%	477	292	63.4%
12x	Goleta Express	4	2	100.0%	40	29	37.9%
14	Montecito	-	-	0.0%	2	3	-33.3%
15x	SBCC / UCSB Express	5	21	-76.2%	36	91	-60.4%
16	City College Shuttle	-	-	0.0%	5	6	-16.7%
17	Lower West / SBCC	-	-	0.0%	1	6	-83.3%
20	Carpinteria	-	-	0.0%	1	5	-80.0%
21x	Carpinteria Express	-	-	0.0%	-	-	0.0%
23	Winchester Canyon	3	2	50.0%	11	7	57.1%
24x	UCSB Express	47	65	-27.7%	310	419	-26.0%
25	Elwood	1	-	100.0%	3	4	-25.0%
27	Isla Vista Shuttle	70	82	-14.6%	237	268	-11.6%
28	UCSB Shuttle	104	132	-21.2%	430	439	-2.1%
36	Seaside Shuttle	-	-	0.0%	-	12	-100.0%
37	Crosstown Shuttle	-	1	-100.0%	1	8	-87.5%
	Booster Services	5	9	-44.4%	82	69	18.8%
System Subtotal		380	380	0.0%	1,738	1,761	-1.3%
Downtown Waterfront Shuttles							
30	Downtown Shuttle	21	14	50.0%	360	477	-24.5%
31	East Beach Waterfront Shuttle	-	-	0.0%	3	36	-91.7%
32	West Beach Waterfront Shuttle	-	-	0.0%	7	2	250.0%
Unknown		-	1	-100.0%	-	51	-100.0%
System Total		401	395	1.5%	2,108	2,327	-9.4%

*SOURCE: GFI GENFARE, MTD TRANSIT DEVELOPMENT DEPARTMENT, PLANNING SECTION

Table G: February 2018 – Bicycles Carried

LINE	Month			Fiscal Year to Date			
	Feb-18	Feb-17	%Change	Jul 17 - Feb 18	Jul 16 - Feb 17	%Change	
1	West Santa Barbara	135	140	-3.6%	1,290	1,544	-16.5%
2	East Santa Barbara	346	379	-8.7%	3,237	3,665	-11.7%
3	Oak Park	134	159	-15.7%	1,159	1,141	1.6%
4	Mesa/SBCC	115	79	45.6%	1,137	1,069	6.4%
5	Mesa / La Cumbre	210	162	29.6%	1,794	1,868	-4.0%
6	Goleta	997	906	10.0%	8,758	9,900	-11.5%
7	Calle Real / Fairview	399	332	20.2%	4,172	3,426	21.8%
8	Calle Real / Turnpike	-	-	0.0%	-	330	-100.0%
9	Calle Real / Old Town Shuttle	-	-	0.0%	-	51	-100.0%
10	Cathedral Oaks	24	18	33.3%	270	297	-9.1%
11	UCSB	1,688	1,542	9.5%	13,436	14,546	-7.6%
12x	Goleta Express	461	400	15.3%	4,506	4,806	-6.2%
14	Montecito	82	65	26.2%	852	1,017	-16.2%
15x	SBCC / UCSB Express	348	379	-8.2%	2,405	2,467	-2.5%
16	City College Shuttle	97	90	7.8%	515	564	-8.7%
17	Lower West / SBCC	77	52	48.1%	640	832	-23.1%
20	Carpinteria	489	436	12.2%	5,051	4,646	8.7%
21x	Carpinteria Express	144	202	-28.7%	1,415	1,781	-20.6%
23	Winchester Canyon	73	63	15.9%	535	770	-30.5%
24x	UCSB Express	710	900	-21.1%	6,750	8,932	-24.4%
25	Elwood	100	87	14.9%	695	783	-11.2%
27	Isla Vista Shuttle	265	234	13.2%	1,314	1,217	8.0%
28	UCSB Shuttle	532	350	52.0%	2,152	1,486	44.8%
36	Seaside Shuttle*	-	-	0.0%	-	-	0.0%
37	CrossTown Shuttle*	9	1	800.0%	119	26	357.7%
	Booster services	26	10	160.0%	129	114	13.2%
System Subtotal		7,461	6,986	6.8%	62,331	67,278	-7.4%
Downtown Waterfront Shuttles							
30	Downtown Shuttle*	-	-	0.0%	-	-	0.0%
31	East Beach Waterfront Shuttle*	-	-	0.0%	-	-	0.0%
32	West Beach Waterfront Shuttle*	-	-	0.0%	-	-	0.0%
Unknown		3	9	-66.7%	11	629	-98.3%
System Total		7,464	6,995	6.7%	62,342	67,907	-8.2%

*SOURCE: GFI GENFARE, MTD TRANSIT DEVELOPMENT DEPARTMENT, PLANNING SECTION
 *THE ELECTRIC SHUTTLE CANNOT CARRY BICYCLES, UNLESS REPLACED BY A DIESEL VEHICLE

Table H: February 2018 – Wheelchairs Boarded

LINE	Month			Fiscal Year to Date		
	Feb-18	Feb-17	%Change	Jul 17 - Feb 18	Jul 16 - Feb 17	%Change
1 West Santa Barbara	184	94	95.7%	1,306	867	50.6%
2 East Santa Barbara	255	151	68.9%	1,989	1,335	49.0%
3 Oak Park	89	79	12.7%	670	937	-28.5%
4 Mesa/SBCC	7	8	-12.5%	79	90	-12.2%
5 Mesa / La Cumbre	59	52	13.5%	497	487	2.1%
6 Goleta	174	183	-4.9%	1,469	1,488	-1.3%
7 Calle Real / Fairview	188	123	52.8%	1,449	1,125	28.8%
8 Calle Real / Turnpike	-	-	0.0%	-	86	-100.0%
9 Calle Real / Old Town Shuttle	-	-	0.0%	-	33	-100.0%
10 Cathedral Oaks	-	-	0.0%	4	10	-60.0%
11 UCSB	220	225	-2.2%	1,815	1,645	10.3%
12x Goleta Express	54	49	10.2%	466	452	3.1%
14 Montecito	35	55	-36.4%	311	212	46.7%
15x SBCC / UCSB Express	22	17	29.4%	166	148	12.2%
16 City College Shuttle	49	18	172.2%	193	197	-2.0%
17 Lower West / SBCC	24	19	26.3%	148	181	-18.2%
20 Carpinteria	121	131	-7.6%	1,163	793	46.7%
21x Carpinteria Express	19	11	72.7%	166	172	-3.5%
23 Winchester Canyon	2	5	-60.0%	28	44	-36.4%
24x UCSB Express	41	47	-12.8%	407	359	13.4%
25 Elwood	8	6	33.3%	54	42	28.6%
27 Isla Vista Shuttle	1	5	-80.0%	43	19	126.3%
28 UCSB Shuttle	12	8	50.0%	68	30	126.7%
36 Seaside Shuttle	8	3	166.7%	35	42	-16.7%
37 Crossstown Shuttle	22	3	633.3%	125	52	140.4%
Booster Services	4	1	300.0%	10	5	100.0%
System Subtotal	1,598	1,293	23.6%	12,661	10,851	16.7%
Downtown Waterfront Shuttles						
30 Downtown Shuttle	91	78	16.7%	524	630	-16.8%
31 East Beach Waterfront Shuttle	14	2	600.0%	72	67	7.5%
32 West Beach Waterfront Shuttle	9	2	350.0%	43	12	258.3%
Unknown	-	-	0.0%	2	43	-95.3%
System Total	1,712	1,375	24.5%	13,302	11,603	14.6%

*SOURCE: GFI GENFARE, MTD TRANSIT DEVELOPMENT DEPARTMENT, PLANNING SECTION

Table I: Ridership by Day Type

February 2018

February 2017

	February 2018			February 2017			Change in Daily Ridership	% Change in Daily Ridership
	Ridership	Days	Avg Daily Ridership	Ridership	Days	Avg Daily Ridership		
Weekday	467,422	19	24,601	453,805	19	23,884	717	3.0%
Saturday	56,825	5	11,365	54,413	5	10,883	482	4.4%
Sunday	37,644	4	9,411	34,025	4	8,506	905	10.6%
Total	561,891	28	20,068	542,243	28	19,366	702	3.6%

FY 2018

FY 2017

	FY 2018			FY 2017			Change in Daily Ridership	% Change in Daily Ridership
	Ridership	Days	Avg Daily Ridership	Ridership	Days	Avg Daily Ridership		
Weekday	3,379,852	164	20,609	3,475,075	164	21,189	-581	-2.7%
Saturday	413,503	38	10,882	422,221	39	10,826	55	0.5%
Sunday	317,258	39	8,135	296,698	38	7,808	327	4.2%
Total	4,110,613	241	17,056	4,193,994	241	17,402	-346	-2.0%

*SOURCE: GFI GENFARE, MTD TRANSIT DEVELOPMENT DEPARTMENT, PLANNING SECTION

External Factors Affecting Ridership

Service Days & School Days: MTD provided the same number of service days this February as compared to February 2017.

	Weekdays	Saturdays	Sundays	HS + JHS	SBCC	UCSB
Feb-18	19	5	4	22	17	17
Feb-17	19	5	4	18	18	19

*SOURCE: GREGORIAN CALENDAR, SB AREA SCHOOL DISTRICT, SBCC, UCSB. SS=SUMMER SESSION

Weather: Average temperatures for February 2018 were slightly warmer than in February 2017. There was also less precipitation days in February 2018, compared to fifteen days in 2017.

	Temperature (°F)			Precipitation	
	Maximum	High	Average	Low	
Feb-18	Maximum	75	60	47	Weekday: 0.01 in (1 day)
	Mean	65	52	39	Saturday: 0 in (0 day) 0.01 in
	Minimum	57	45	31	Sunday: 0 in (0 days)
Feb-17	Maximum	64	55	45	Weekday: 8.05 in (10 days)
	Mean	64	54	44	Saturday: 0.05 in (2 days) 8.97 in
	Minimum	64	53	42	Sunday: 0.87 in (3 days)

*SOURCE: WWW.WUNDERGROUND.COM

Addendum: Data Source Documentation

*GFI Genfare data is taken directly from the electronic fare box system on each MTD vehicle so equipped. In general, GFI data has not been verified, modified, adjusted, added, or removed since being captured at the time of the driver/passenger transaction. GFI data is considered raw data.

*Passdat program accuracy is determined by the amount of GFI fare box data that remains unchanged as compared to Trapeze Run and Trip templates for the evaluation time period. Both human and mechanical errors influence the need to make manual adjustments. These corrections are defined and determined by evaluation of historical and experiential ridership patterns.