



TransLink
2016 Transit Service Performance Review

Appendix E

SkyTrain and West Coast Express Line Summaries



2016 Transit Service Performance Review

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Canada Line



Key Characteristics

Length: 19 km

Number of Stations: 16

Year Opened: 2009

Average Speed: 32 km/h

Cost & Performance

	2012 (APC)	2013 (APC)	2014 (APC)	2015 (APC)	2016 (Compass)
Annual Station Entries:	39,070,000	38,445,000	38,394,000	39,142,000	43,530,000
Avg. Daily Station Entries (Mon-Fri):	120,300	118,900	117,300	121,700	138,700
Avg. Daily Station Entries (Sat):	90,300	88,100	89,600	87,000	102,400
Avg. Daily Station Entries (Sun/Hol):	72,900	71,800	71,400	78,700	88,600

2012-2015 data from Automated Passenger Counters (APC) from January-December of given year.

2016 data from Compass collected June-December 2016.

Automated Passenger Counter (APC) sensor issues at some stations in 2014 and 2015 resulted in total station entries being underreported.

Service Changes Since 2011

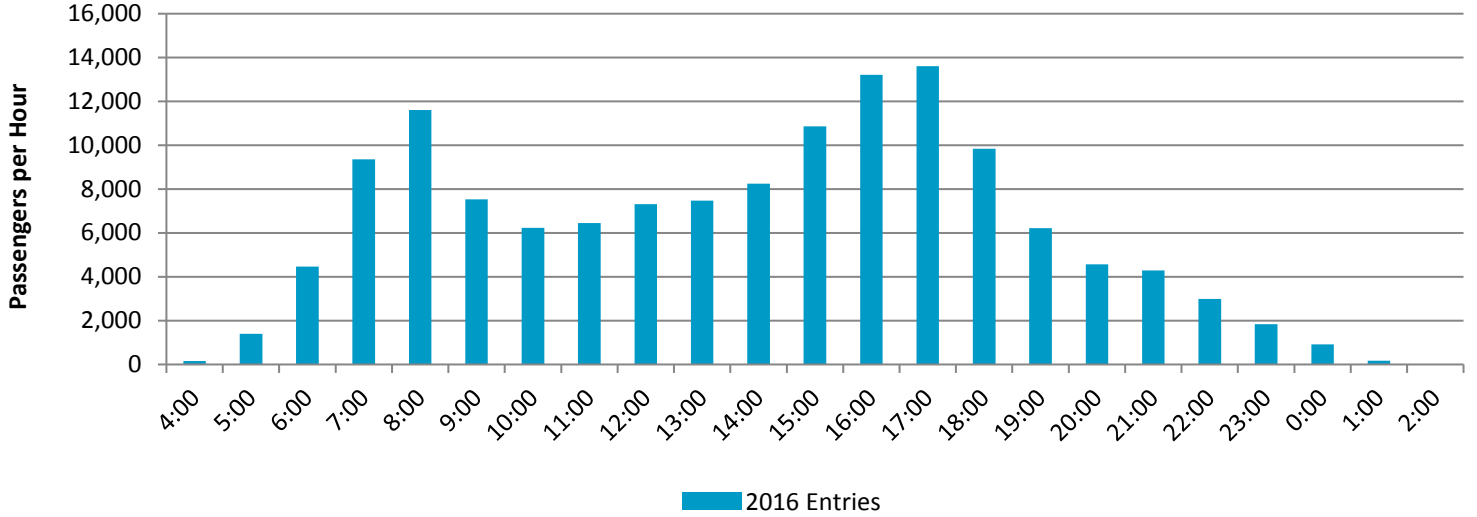
- August 2011, Increase peak frequency from 3m45 to 3m20 (7-18h M-F, 9-18h Sa, 10-18h S/H)
- August 2011, Extend peak frequency to 6:30-7h (M-F) and 18-19h (all days)
- September 2014, Add one train departing Richmond-Brighouse to Waterfront at 7:55

Canada Line

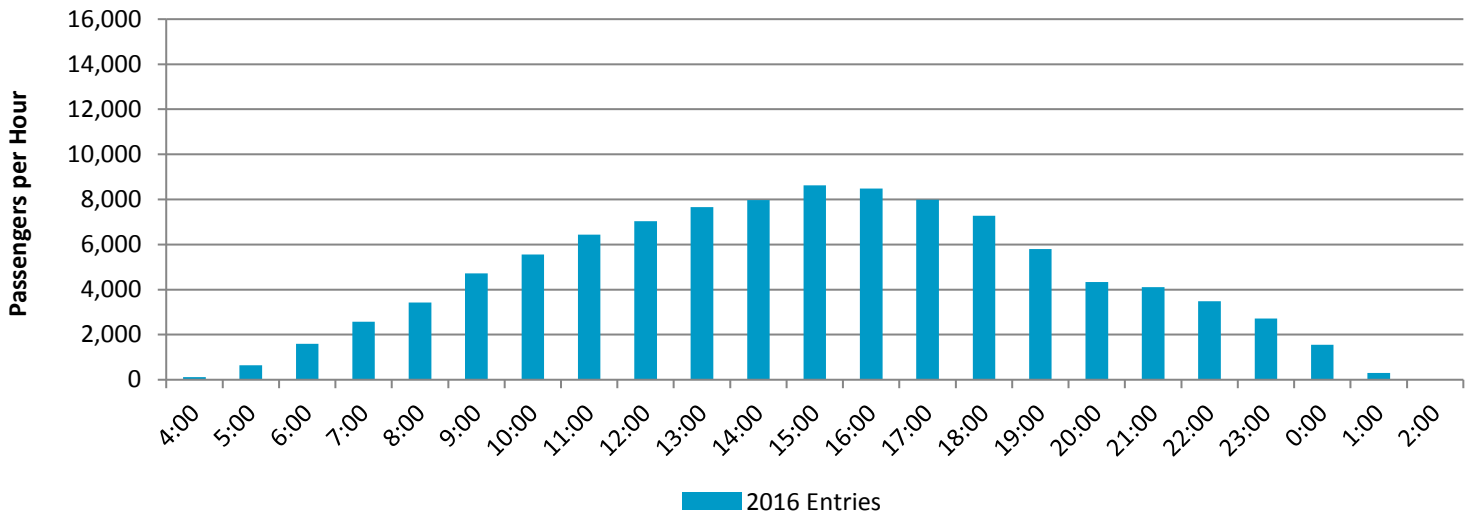
Total Station Entries

Compass data collected June-December 2016

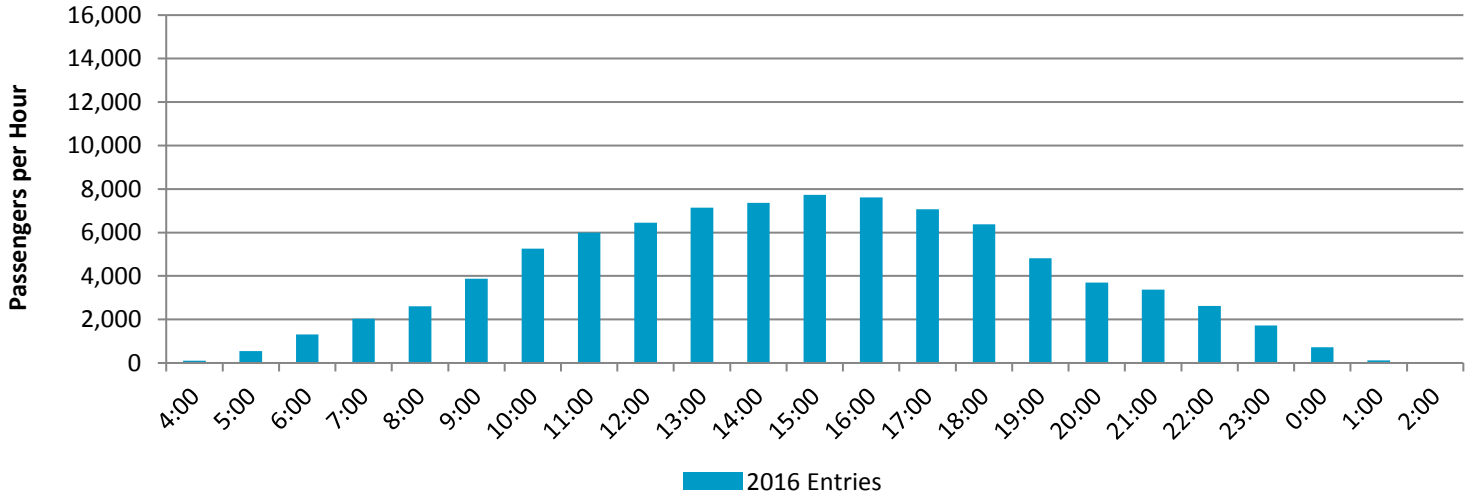
Monday-Friday



Saturday



Sunday/Holiday



Entries and Exits by Station

Compass data collected June-December 2016

Station	Monday-Friday		Saturday		Sunday/Holiday	
	Entries	Exits	Entries	Exits	Entries	Exits
Waterfront	18,200	18,800	11,500	12,300	10,000	10,700
Vancouver City Centre	18,500	19,400	13,900	14,700	12,100	12,400
Yaletown-Roundhouse	10,000	9,500	7,400	7,400	6,000	5,600
Olympic Village	5,100	4,400	3,100	2,700	2,400	2,200
Broadway-City Hall	14,400	14,400	9,200	9,300	7,500	8,000
King Edward	6,300	6,100	4,600	4,300	3,800	3,900
Oakridge-41st Avenue	8,400	8,200	6,800	6,400	5,600	5,500
Langara-49th Avenue	7,000	6,500	4,200	3,700	3,500	3,300
Marine Drive	9,000	8,900	7,300	7,000	6,300	6,200
Bridgeport	10,900	11,200	8,400	8,700	7,500	7,500
Aberdeen	4,500	4,800	4,800	5,000	4,100	4,100
Lansdowne	4,500	4,700	3,600	3,600	2,900	2,900
Richmond-Brighouse	11,600	10,800	8,500	8,000	7,100	6,800
Templeton	2,600	2,800	2,500	2,700	2,500	2,700
Sea Island Centre	700	800	400	500	400	500
YVR-Airport	7,100	7,200	6,200	6,200	6,700	6,300

Expo Line

Millennium Line

Entries and Exits by Station

Compass data collected June-December 2016

Station	Monday-Friday		Saturday		Sunday/Holiday	
	Entries	Exits	Entries	Exits	Entries	Exits
Expo Line						
Waterfront	18,400	16,700	13,000	12,400	11,400	10,600
Burrard	21,000	21,800	10,500	11,200	9,100	9,000
Granville	20,600	23,100	14,900	17,500	12,500	13,900
Stadium-Chinatown	15,000	15,700	11,400	12,600	8,600	8,900
Main Street-Science World	13,100	12,700	9,200	9,100	7,600	7,300
Commercial-Broadway	24,100	24,900	16,200	16,500	13,300	13,800
Nanaimo	6,800	6,800	5,000	4,800	4,200	4,200
29th Avenue	7,100	7,000	5,400	5,200	4,600	4,600
Joyce-Collingwood	13,800	13,600	10,700	10,000	9,600	9,500
Patterson	5,500	5,300	3,700	3,500	3,100	3,000
Metrotown	19,400	21,000	17,200	18,300	14,500	15,500
Royal Oak	5,400	5,100	3,400	3,300	2,800	2,700
Edmonds	11,700	10,900	7,100	6,400	5,800	5,400
22nd Street	9,500	9,800	5,800	5,600	4,800	4,800
New Westminster	13,700	14,200	9,100	9,300	7,000	7,300
Columbia	4,800	4,000	3,200	2,900	2,400	2,100
Scott Road	8,400	8,700	5,300	5,300	4,100	4,200
Gateway	5,000	4,100	3,300	2,700	2,700	2,300
Surrey Central	11,600	16,000	7,500	10,100	6,100	8,300
King George	12,300	6,800	7,000	4,000	5,600	3,200
Sapperton	3,000	2,900	1,500	1,400	1,200	1,000
Braid	5,300	5,400	3,500	3,500	2,800	2,700
Lougheed Town Centre			See Below			
Production Way-University						
Millennium Line						
VCC-Clark	3,000	2,700	1,000	800	700	600
Commercial-Broadway			See Above			
Renfrew	3,800	3,500	2,300	2,000	2,000	1,800
Rupert	3,100	2,900	2,300	2,100	2,000	1,900
Gilmore	3,900	3,800	1,800	1,700	1,400	1,300
Brentwood Town Centre	5,100	5,100	2,700	2,700	2,100	2,100
Holdom	3,200	2,900	2,000	1,800	1,600	1,500
Sperling-Burnaby Lake	2,200	1,900	1,300	1,200	1,100	1,000
Lake City Way	1,300	1,400	700	600	500	500
Production Way-University	6,500	6,600	2,400	2,300	1,800	1,800
Lougheed Town Centre	15,100	15,100	10,100	10,100	8,100	8,200
Burquitlam*	2,100	2,100	1,700	1,600	1,400	1,400
Moody Centre*	1,400	1,300	1,000	1,000	800	900
Inlet Centre*	1,700	1,600	1,300	1,200	1,200	1,200
Coquitlam Central*	3,100	3,500	2,400	2,800	2,100	2,600
Lincoln*	3,100	3,000	3,100	2,800	3,100	2,700
Lafarge Lake-Douglas*	2,100	2,000	1,700	1,600	2,000	2,000

*Millennium Line Evergreen Extension stations opened December 2, 2016; station entries and exits shown reflect a smaller data set.

Expo Line

Millennium Line



Key Characteristics

Length: 60 km

Number of Stations: 38

Year First Opened: 1985 (Expo), 2001 (Millennium)

Average Speed: 40 km/h

Cost & Performance

	2012	2013	2014	2015	2016
Ridership	Annual Station Entries:				93,850,000
	Avg. Daily Station Entries (Mon-Fri):				315,900
	Avg. Daily Station Entries (Sat):				211,700
	Avg. Daily Station Entries (Sun/Hol):				175,700

2016 data from Compass collected June-December 2016.

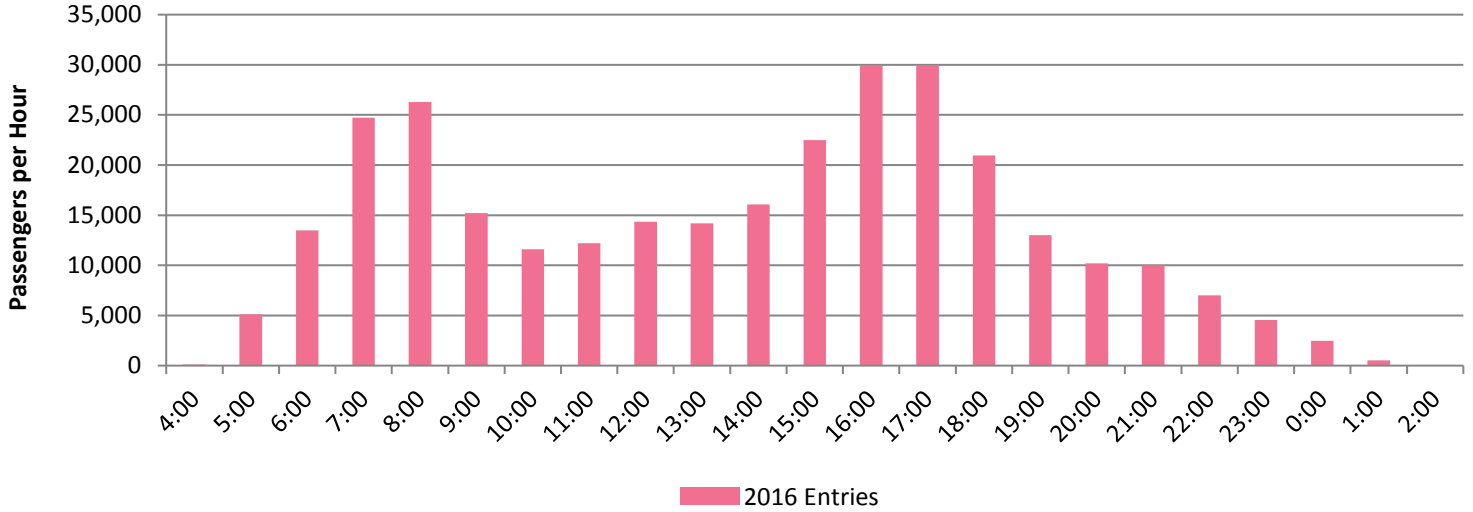
Service Changes Since 2011

- January 2013, Weekend midday frequency reduction from 3 to 3.5m (Columbia to Waterfront) and from 6 to 7m on each line
- 2014, Additional 'Train2Main' SkyTrain shuttle service March 30 – December 5 to accommodate Main Street Station upgrades
- 2014 to 2015, Power rail replacement after 21hr most Sun-Thurs nights; Expo Line experienced longer travel times (2 - 10m)
- Fall 2015, Rail grinding after 21hr on weekdays and all-day weekends; both lines experienced longer travel times (2 - 10m)
- October 22, 2016, Millennium Line truncated at Loughheed Town Centre (VCC-Clark to Loughheed Town Centre only)
- October 22, 2016, New Expo Line branch serving Sapperton, Braid, Loughheed Town Centre, and Production Way-University (Waterfront to Production Way-University)
- December 2, 2016, Millennium Line Evergreen Extension opens (extended from Loughheed Town Centre to Lafarge Lake-Douglas)

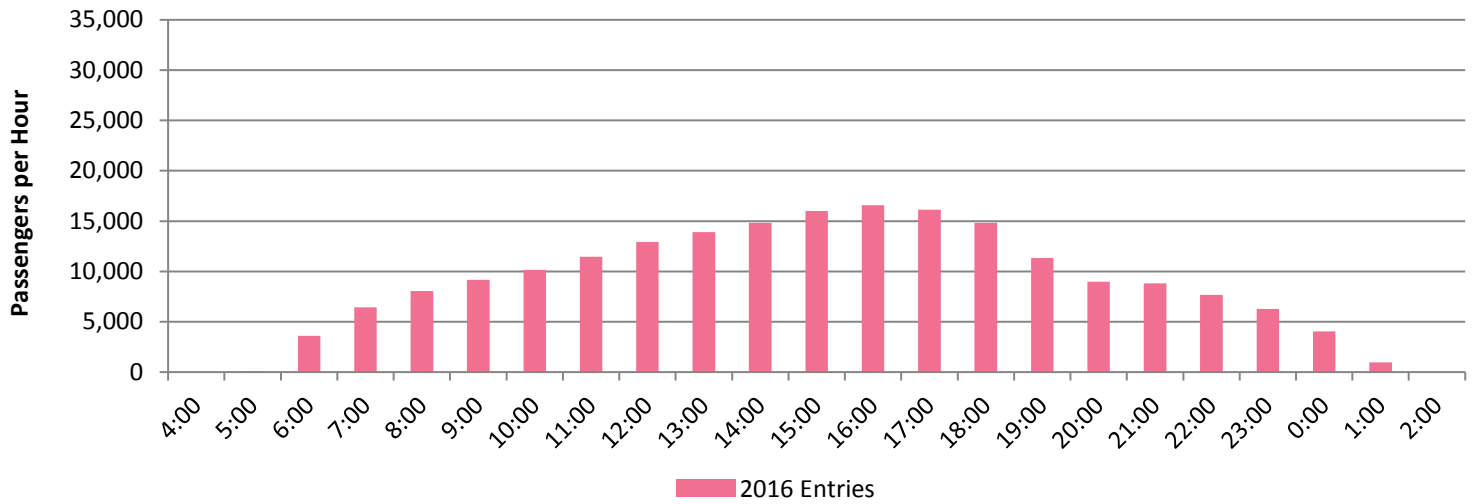
Total Station Entries

Compass data collected June-December 2016

Monday-Friday



Saturday



Sunday/Holiday



West Coast Express



Cost & Performance

Manual data collected between early Sep. and mid-Dec. of the given year

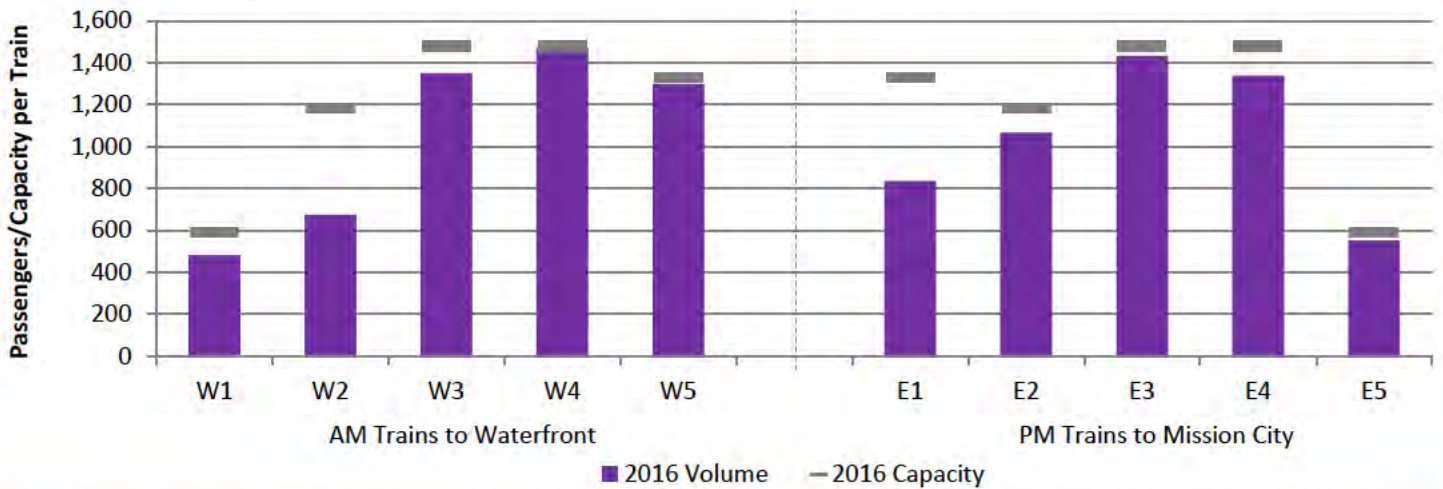
	2012	2013	2014	2015	2016
Average Daily Boardings (Mon-Fri):	11,600		10,500	10,400	10,700

Service Changes Since 2011

- January 2013: Remove one car from train W1/E5 to make a four-car train; add one car to train W5/E1 to make a nine-car train

Peak Passenger Volume and Capacity by Train

Manual data collected between early Sep. and mid-Dec. of the given year



Entries by Station

Compass data collected January-December 2016

