

Fleet Requirement

Not the Blue Line project's official data, designed and run for his own personal and educational evaluation purposes only.

Bangkok Subway Blue Line Fleet Requirement

Year	Line Loading (p/d/h)	Train Consist (car)	Optimum Trains Running	Optimum Headway (min.)	Spare Trains	Total Trains Required	Total Cars Required	Total Cars Available	Excess Cars	Cars Purchase
2002										81
2003	12202	3	16	4.43	2	18	54	81	27	0
2004	14617	3	19	3.73	2	21	63	81	18	0
2005	17229	3	22	3.22	3	25	75	81	6	0
2006	18218	3	23	3.08	3	26	78	81	3	0
2007	19206	3	24	2.95	3	27	81	81	0	24
2008	20194	3	26	2.72	3	29	87	105	18	0
2009	17890	3	23	3.08	3	26	78	105	27	0
2010	18780	3	24	2.95	3	27	81	105	24	0
2011	19670	3	25	2.83	3	28	84	105	21	0
2012	20446	3	26	2.72	3	29	87	105	18	0
2013	21221	3	27	2.62	3	30	90	105	15	0
2014	21997	3	28	2.53	3	31	93	105	12	0
2015	22772	3	29	2.44	3	32	96	105	9	0
2016	23548	3	30	2.36	3	33	99	105	6	21
2017	24323	3	31	2.28	4	35	105	126	21	0
2018	25099	3	32	2.21	4	36	108	126	18	0
2019	25874	3	33	2.15	4	37	111	126	15	0
2020	26650	3	34	2.08	4	38	114	126	12	0
2021	27425	3	35	2.02	4	39	117	126	9	0
2022	27813	3	35	2.02	4	39	117	126	9	0
2023	28201	6	18	3.93	2	20	120	126	6	0
2024	28558	6	18	3.93	2	20	120	126	6	0
2025	28976	6	18	3.93	2	20	120	126	6	0
2026	29364	6	19	3.73	2	21	126	126	0	0
2027	29752	6	19	3.73	2	21	126	126	0	0

Cars purchase years [*]		
	Total cars purchase	126
	Total 3-car trains purchase	42

Assumptions

1. 3-car train capacity : 950 pass
2. 6-car train capacity: 1900 pass
3. Length of line: 19.67 km
4. Non revenue km: 5 %
5. Commercial speed: 35 kph
6. Spare trains: 10 % of trains running in the system
7. Initial cars purchase: 81 cars (27 3-car trains)
8. Minimum headway: 2 min

^{*} Cars purchased that year will be available for service in the following year.

Calculated and run for his own personal and educational evaluation purposes
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