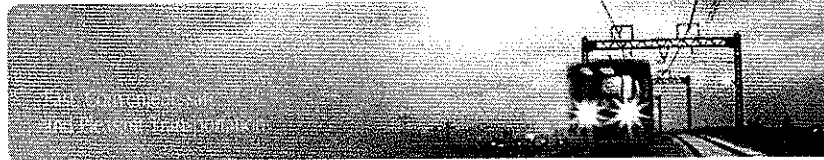


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* KNR (Korean National Railroad)

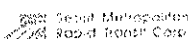
Category	Total	Gyeongbu Line	Gyeong-in Line	Gyeong-won Line	Ansan Line	Gwacheon Line	Bun-dang Line	Ilsan Line
Zones	whole lines	Seoul ↔ Suwon	Guro ↔ Incheon	Yongsan ↔ Suwon	Geumjeong ↔ Ansan	Namtaeyeong ↔ Geumjeong	Suseo ↔ Ori	Jichuk ↔ Daehwa
Length(Km)	177.8	41.5	27.0	31.2	26.0	14.4	18.5	19.2
Number of stations	104	22	20	21	12	8	11	10
Number of Trains / Number of Cars per Train	150/ 6-10	18/10	65/10	7/10		27/10	19/6	14/10
Journey Time	23-60.5	60.5	47	51	35	23	27	27.5
Speed(km/h)/ Kyong-in Line1 : Through traffic	41.7	43.3	34.8/54.2	36.0		41.0	41.1	41.8
Frequency	R.H 1.7-8 N.H 3.6-12	1.7/2 3.6	2/2.5 5.8	4.4/5 5.2	5/5.2 12	5/6 7.5	5 8	6/8 9
Number of Cars	1,672	230	760	90		300	132	160
Number of Trips per day /Kyongin Line1 ;Through traffic	2,074	338	642	152		312	356	274
Transportation Capacity (1000people/day)	2,177	579	613	409	134	144	160	138

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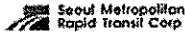
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Calculated Ve
 $338 \times 10 \times 27 = 9126$
 $642 \times 10 \times 31.2 = 200304$
 $152 \times 10 \times 26 = 39520$
 $312 \times 10 \times 18.5 = 57720$
 $356 \times 10 \times 19.2 = 68352$
 $274 \times 10 \times 14.4 = 39456$
 $2081514 \times km$
 20740×177.8

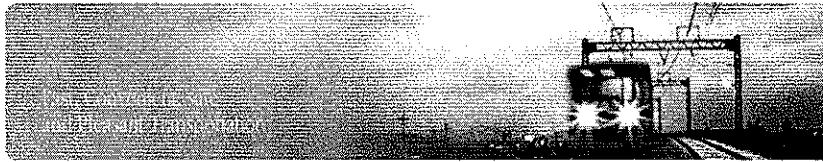
211
 1672
 1944
 1564
 200
 5380
 KNR
 $2074000 / day$
 2566000
 1647000
 $3885000 / day$
 $338 \times 41.5 \times 360 = 5049720$
 $642 \times 27.0 \times 360 = 6124040$
 $152 \times 31.2 \times 360 = 11707269$
 $312 \times 49.4 \times 360 = 41537728$
 $356 \times 18.5 \times 360 = 23709360$
 $274 \times 19.2 \times 360 = 1893880$
 2117998



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* SMSC (Seoul Metropolitan Subway Corporation)

category/Lines	Total	Line1	Line2	Line3	Line4
		Seoul ↔ Cheongnyangni	Seongsu ↔ Seongsu	Jichuk ↔ Suseo	Danggogae ↔ Namsaeryeong
Zones	whole lines				
Length(Km)	134.9	7.8	60.2	35.2	31.7
Number of stations	115	9	49	31	26
Number of Trains / Number of Cars per Train	199/4-10	16/10	88/4-10	48/10	47/10
Journey Time	15-84	15	84	62	53
Speed(km/h)/ Kyong-in Line1 :	33.7	31.2	33.7	34.1	35.9
Through traffic					
Frequency	R.H 2.5-3.0 N.H 4.0-6.0	3.0	2.5	3.0	2.5
Number of Cars	1,944	160	834	480	470
Number of trips per day	2,566	626	1,003	427	510
Transportation Capacity (1000people/day)	3,879	479	1,853	710	837
Profit (million won/day)	1,584	164	775	300	346

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$$7 = 9,36.84$$

$$19 = 32$$

$$88.$$

$$\frac{32}{56}$$

$$20 \times 74 = 140 \text{ Train.}$$

$$15 \times 12 = \frac{180}{320}$$

$$626 \text{ train. } \times 7,8 \text{ km} = 48828 \text{ Veh km}$$

$$2566 \times 134.9 = 3461534$$

$$60884527 \text{ km train}$$

SMSC

Per train km

$$64,608, 6 \times 5 \times 52 =$$

$$16,798,236 \text{ M Train km}$$

$$60,034,2 \times 1 \times 52 =$$

$$3,121,778,4$$

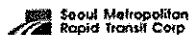
$$\text{Holidays } 51,656,6 \times 1 \times 30 =$$

$$1,549,698$$

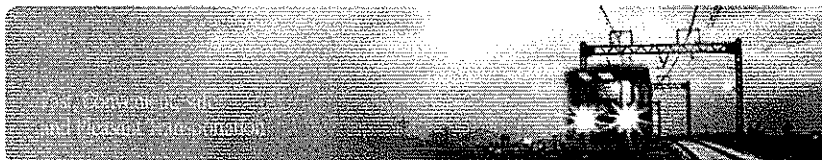
$$\text{Saudi } 60,034,2 \times 1 \times 22 =$$

$$1,320,752$$

$$22,79,0464 \text{ Train km}$$



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* SMRT (Seoul Metropolitan Rapid Transit Corporation)

Category	Total	Line5	Line6	Line7	Line8
		Banghwa ↔ Sangli-dong, Macheon	Eungam ↔ Bonghwasan	Jangam ↔ Onsu	Moran ↔ Amsa
Zones	whole lines				
Length(Km)	152.0	52.3	35.1	46.9	17.7
Number of stations	148 (Except Magok)	51 (Except Magok)	38	42	17
Number of Trains / Number of Cars per Train	201/6-8	76/8	41/8	62/8	22/6
Journey Time	31-87	83/87	70	87	31
Speed(Km/h)	32.3	32.7	30.1	32.3	34.2
Frequency	R.H 2.5-6 N.H 5-6	2.5/5 5	4/6 6	3/5 5	4.5/6 6
Number of Cars	1,564	608	328	496	132
Number of trips per day	1,647	489	382	430	346
Transportation Capacity (1000people/day)	2,037	828	284	703	222
Profit (millionwon/day)	773	315	105	271	82

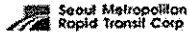
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$$\begin{aligned}
 &489 \times 52.3 \times 360 = 9,206,892 \text{ m} \\
 &382 \times 35.1 \times 360 = 4,876,912 \text{ m} \\
 &430 \times 46.9 \times 360 = 7,260,120 \text{ m} \\
 &346 \times 17.6 \times 360 = 2,204,712 \text{ m} \\
 &\hline
 &23,149,867 \text{ m}
 \end{aligned}$$

152 km
201 train

Total 68,088.4 M Train/k



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• IRTC (Incheon Rapid Transit Corporation)

Category	Total	Line1
Zones	whole lines	Gyulhyeon ← Dongmak
Length(Km)	21.9	21.9
Number of stations	22	22
Number of Trains / Number of Cars per Train	25/8	25/8
Journey Time	42.5	42.5
Speed(Km/h)	30.9	30.9
Frequency	R.H 4/6 N.H 7.5	4/6 7.5
Number of Cars	200	200
Number of trips per day	325	325
Transportation Capacity (1000people/day)	189	189
Profit(million won/day)	92	92

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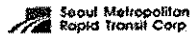
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$$325 \times 21.9 = 7117.5 \times 360 = 2,562,300$$

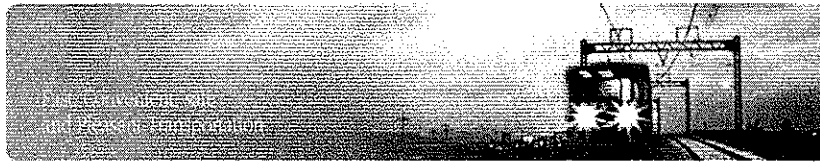
Rail Car Major Specifications

Classification		1Line	2Line	4Line	4Line/ Gwacheon Line
Control method	Resistor control	VVVF control	Chopper control	Chopper control	VVVF control
Number of cars	60 rail cars	100 rail cars	834 rail cars	480 rail cars	470 rail cars
Train sets established	10 rail cars	10 rail cars	4,6,10 rail cars	10 rail cars	10 rail cars
Production year	1977-1990	1998-2002	1981-1995	1985-1993	1993-1995
Electricity method	DC 1,500V	DC 1,500V	DC 1,500V	DC 1,500V	DC 1,500V
	AC 25,000V	AC 25,000V			AC 25,000V
Capacity (seats)	160 persons	160 persons	160 persons	160 persons	160 persons
	control car:48	control car:45	control car:48	control car:48	control car:48
	Others:54	Others:54	Others:54	Others:54	Others:54
Self weight	TC:33.3t	TC:33.1t	MC:41.5t	TC:33.0t	TC:33.1t
	M:42.1t	M:41.2t	M1:41.5t	M1:42.21t	M:41.2t
	M1:46.1t	T:26.5t	M2:32.0t	M2:41.8t	T:26.5t
Rail car length	19.5m	19.5m	19.5m	19.5m	19.5m
Roof height	3.8m	3.75m	3.75m	3.75m	3.75m
Bed height	1.2m	1.15m	1.15m	1.15m	1.15m
Maximum speed	110km/h	110km/h	100km/h	100km/h	100km/h
Acceleration	2.5km/h/s	3.0km/h/s	3.0km/h/s	3.0km/h/s	3.0km/h/s
Deceleration (normal)	3.0km/h/s	3.5km/h/s	3.5km/h/s	3.5km/h/s	3.5km/h/s
Deceleration (emergency)	4.0km/h/s	4.5km/h/s	4.5km/h/s	4.5km/h/s	4.5km/h/s
Bogie	Coil spring	Air spring bolsterless bogie	Air spring	Air spring	Air spring bolsterless bogie
Speed control method	Resistor control	Inverter control	Chopper control	Chopper control	Inverter control
Main motor	120kw	200kw	150-162kw	162kw	200kw
Brake	Dynamic	Regenerative	Regenerative	Regenerative	Regenerative
	braking/ air braking	braking/ air braking	braking/ air braking	braking/ air braking	braking/ air braking
Security equipment	ATS	ATS	ATS	ATS	ATS/ATC

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* SMRT (Seoul Metropolitan Rapid Transit Corporation)

Category	Total	Line5	Line6	Line7	Line8
		Banghwa ↔ Sangil-dong, Macheon	Eungam ↔ Bonghwasan	Jangam ↔ Onsu	Moran ↔ Amsa
Zones	whole lines				
Length(Km)	152.0	52.3	35.1	46.9	17.7
Number of stations	148 (Except Magok)	51 (Except Magok)	38	42	17
Number of Trains / Number of Cars per Train	201/6-8	76/8	41/8	62/8	22/6
Journey Time	31-87	83/87	70	87	31
Speed(Km/h)	32.3	32.7	30.1	32.3	34.2
Frequency	R,H	2.5/5	4/6	3/5	4.5/6
	N,H	5-6	5	6	5
Number of Cars	1,564	608	328	496	132
Number of trips per day	1,647	489	382	430	346
Transportation Capacity (1000people/day)	2,037	828	284	703	222
Profit (millionwon/day)	773	315	105	271	82

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Rail Car Status

Classification	Total	Period of using years	Number carried in	1Line	2Line	3Line	4Line	Remarks
Total	1,944			160	834	480	470	
'82	12	23	12		12			
'83	138	22	126		126			
'84	288	21	150		66	84		
'85	516	20	228		14	214		
'86	570	19	54 (10)		54 (10)			() Rail cars retired
'89	712	16	142	64	78			
'90	850	15	138		67	71		
'91	1,060	14	210		177	33		
'92	1,204	13	144		80	64		
'93	1,412	12	208		66	14	128	
'94	1,722	11	310		20		290	
'95	1,794	10	72		20		52	
'98	1,814	7	20	20				
'99	1,854	6	40	40				
'02	1,890	3	36	36				
'05	1,944		54		54			

	Classification	Total	1Line	2Line	3Line	4Line
2004	number of passengers	1,453,858,667	172,081,871	703,795,715	265,398,537	312,582,544
	fare income	659,377,114	66,011,252	330,908,541	120,601,140	141,856,181
2003	number of passengers	1,429,295,846	166,914,137	692,287,339	263,872,678	306,221,692
	fare income	644,303,876	64,657,529	320,100,995	120,463,401	139,081,951
2002	number of passengers	1,439,715,951	171,060,762	692,766,114	265,141,674	310,747,401
	fare income	579,635,147	59,267,826	285,528,548	108,769,878	126,068,894
2001	number of passengers	1,415,737,799	174,659,816	676,270,467	259,142,418	305,665,098
	fare income	578,218,909	59,859,916	282,798,372	109,362,886	126,197,735
2000	number of passengers	1,369,718,707	176,766,072	656,566,816	237,668,711	298,717,108
	fare income	519,950,535	55,065,627	253,750,939	96,388,307	114,745,662
1999	number of passengers	1,301,720,368	175,961,957	601,462,368	227,610,899	296,685,144
	fare income	472,795,597	53,016,951	222,261,378	88,799,875	108,717,393
1998	number of passengers	1,306,277,751	178,680,186	595,319,840	234,009,772	298,267,953
	fare income	438,694,700	51,231,507	202,094,929	83,359,924	102,008,340
1997	number of passengers	1,354,818,219	183,609,058	619,405,286	247,367,918	304,435,957
	fare income	421,597,318	47,607,876	196,524,901	81,423,886	96,040,655
1996	number of passengers	1,422,570,459	190,073,279	684,411,859	252,824,228	295,261,093
	fare income	444,156,646	47,055,388	218,876,073	83,030,741	95,194,444
1995	number of passengers	1,476,788,160	379,763,222	614,087,862	226,564,053	256,373,023
	fare income	401,471,486	40,220,044	201,742,223	74,913,408	84,595,811
1994	number of passengers	1,404,232,972	356,123,906	588,761,851	208,430,560	250,916,655
	fare income	379,861,913	40,713,530	189,893,825	67,925,523	81,329,035
1993	number of passengers	1,388,037,097	346,999,413	592,248,139	193,672,270	255,117,275
	fare income	326,438,770	38,033,310	163,279,995	54,376,545	70,748,920
1992	number of	1,354,150,224	338,521,320	574,529,210	189,269,767	251,829,927

1,453,858,667
 794,160,503
 KNR 743,150,301
 SMRT 68,985
 Incheon
 306,019,533

Operational Status

Line Classification		Total	1Line (05.12.21)	2Line (06.1.21)		3Line (05.07.15)	4Line (05.09.30)
Section	entire section		Seoul.St↔ Cheongnyangni	Seongsu↔ Seongsu	Seongsu↔ Sinjeong	Jichuk↔ Suseo	Danggogae↔ Namsaeryeong
Operation distance	134.9	7.8		48.8	5.4 / 6.0	35.2	31.7
Number of stations	117	10		43	4 / 3	31	26
Time required	238	16		87	9.0 / 11.0	62	53
Schedule speed (Km/h)	34.0	29.3		33.6	36.0 / 32.7	34.0	35.8
Headway	r-h	2.5-3.0	3.0	2.5	7.0 / 10.0	3.0	2.5
	n-h	4.0-6.0	4.0	5.5	10.0 / 10.0	6.0	5.0
Operational frequency	Week-days	2,605 s1,841 k764	604 s104 k500	577	454	440	530
	Week-ends	2,430 s1,702 k728	580 s102 k478	577	230 / 224	s338 k102	s368 k162
	Holi-days	2,173 s1,515 k658	580 s102 k478	497	422	421	510
	07~09	349 s238 k111	554 s104 k450	497	208 / 214	s331 k90	s350 k160
Weekday frequency	18~20	2,173 s1,515 k658	554 s104 k450	420	422	355	422
	n.h	349 s238 k111	72 s7 k65	420	208 / 214	s283 k72	s286 k136
	Week-days	349 s238 k111	72 s7 k65	83	56	64	74
	18~20	338 s239 k99	73 s9 k64	83	30 / 26	s50 k14	s42 k32
Train-km	Week-days	338 s239 k99	73 s9 k64	80	55	60	70
	Week-ends	1,918 s1,364 k554	459 s88 k371	80	29 / 26	s47 k13	s48 k22
	Holi-days	64,608.6 (12,439.2)	5,636.4 (4,760.4)	414	343	316	386
	07~09	64,608.6 (12,439.2)	5,636.4 (4,760.4)	414	171 / 172	s241 k75	s278 k108
Rail cars retained	1,944 rail cars						
	10x190, 4x5, 6x4	160 rail cars	790 rail cars	20 rail cars	24 rail cars	480 rail cars	470 rail cars
	total 199 train sets	16 train sets	10x79 train sets (35,44)	4x5 train sets	6x4 train sets	10x48 train sets (20,28)	10x47 train sets (DC26,AD21)
	1,554 rail cars total 159 train sets	120 rail cars 12 train sets	640 rail cars 64 train sets (28,36)	16 rail cars 4 train sets	18 rail cars 3 train sets	380 rail cars 38 train sets (16,22)	380 rail cars 38 train sets (DC22,AD16)
Rail cars required	rh						
	ope-ration						
Rail cars required	rh						
	ope-ration						

* Korea National Railroad

Line : 113 train sets 1,130 rail cars retained (Operate R.H : 94 train sets 940 rail cars)

Ilsan Line : 16 train sets 160 rail cars retained (Operate R.H : 14 train sets 140 rail cars)

Gwacheon Line : 30 train sets 300 rail cars retained (Operate R.H : 26 train sets 260 rail cars)