



statistical addendums
metro s.a.

'07



METRO
DE SANTIAGO

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Resources per Position

POSITIONS	2007
Executive Staff	48
Managers/Assistant Managers	15
Heads of Department	26
Heads of Construction Projects	7
SECTION LEADERS	49
PROFESSIONAL STAFF	163
ADMINISTRATIVE STAFF	305
Administrative Staff (Operation Support)	72
Administrative Staff (other)	175
Secretaries	32
Messengers and Drivers	26
MAINTENANCE STAFF	432
Supervisors	61
Specialists	371
OPERATIONS STAFF	994
Operation Supervisors	123
Communication Center Agents	24
Full-time drivers	524
Part-time drivers	323
STATION AND SECURITY STAFF	730
Supervisors	38
Heads of Station	317
Guards	375
Company's Total Resources	2,721

:_network features

General Features of the Metro System

	Lines 1, 2 and 5	Line 4
Electrification	750 Vc.c. through lateral guides	750 Vc.c. through third rail
Ticket System	Through magnetic coding ticket with control in all stations and 1 Kb card without MIFARE contact.	
Traffic Control	Through Centralized Command System (Automated)	
Train Driving	Normally automated and eventually in controlled manual driving. Just in extreme cases, "visual" driving.	
Train Composition	A minimum of 5 coaches, a maximum of 8 coaches.	3 or 6 coaches
Commercial Speed	32 km / h	35 km / h
Circulation	On rolling tracks, lateral guide bars and safety rails	On steel tracks UIC 60 rails
Circulation/Traffic Direction	To the right	To the right
Rolling System	Neumatic	On steel
Rail Type	40 kg / m, with welded joints	60 kg / m, with welded joints

Stations and track features 2007

	Line 1	Line 2	Line 4	Line 4A	Line 5
Number of stations	24	22	22	6	18
Total Length (Km) *	15.9	20.5	24.4	8.3	16.0
Average distance between stations	662.6 m.	963.7 m.	1,105 m.	1,535 m.	889.8 m.
Longest distance between stations (**)	989 m. (NP-PJ)	1,432 m. (ZA-VN)	1,704 m. (TR-LQ)	1,988 m. (SR-LI)	1,543 m. (NU-IR)
Shortest distance between stations (**)	458.0 m. (LM-CH)	692 m. (LV-DE)	715 m. (GA-SB)	856 m. (LG-RN)	502 m. (PB-BQ)
Maximum slope (**)	4.8% (TB-GO)	4.3% (AN-CA)	3.5% (VA-RM)	3.50% (JU-LG)	3.5% (RA-NU) (LF-MA)
Minimum Radius of Curvature (**)	280 m. (LE-TB)	205 m. (AN-CA)	248 m. (BI-GA)	450 m. (JU-LG)	100 m. (BQ-BE)
Turn extension	31.2	39.2	46.5	15.3	30.2

* Measure considers tail maneuver

General features

	Line 1	Line 2	Line 4	Line 4A	Line 5	Network
Coach-kilometres (miles)	32,350	19,541	21,361	3,895	17,051	94,196.91
N° of trains	40	27	52*	8*	25	152
N° served districts	5	7	5	2	4	23
N° Stations	24	22	22	6	18	92

* Corresponds to three-coach units.

:_ metro
indicators

January - December period of each year

	2000	2001	2002	2003	2004	2005	2006	2007
Length (km)	40.3	40.3	40.3	40.3	46.1	67.4	85.1	85.1
N° of stations	52	52	52	52	58	78	92	92
N° of trains	68	68	69	83	83	133	143	152
Coach fleet	394	394	402	486	486	636	666	751
Annual flow (millions of passengers)	208	203	199	203	232	267	331	601
Medium flow (per work day)*	741,966	725,267	707,749	721,693	819,135	936,530	1,147,214	1,996,077
Maximum flow	902,483	867,309	851,046	877,814	1,010,406	1,200,038	1,405,951	2,453,270
Maximum flow (date)	1/9	31/8	23/12	31/10	5/11	2/12	7 /12	31/08
Coach-kilometers (thousands)	38,413	40,051	39,009	40,999	45,097	51,344	71,181	94,197
Total Energy (thousands kWh)	131,793	136,457	131,447	131,227	150,261	178,201	246,856	321,961
N° of workers	1,362	1,356	1,429	1,424	1,502	1,636	1,846	2,721

* Average January - December flow.

Medium Density Evolution per Line (Standing passengers/m²)

	Morning peak				Off-peak				Evening peak	
	L1	L2	L5	L4	L1	L2	L5	L4	L1	L4
February	4.9	5.1	3.7	4.1	2.4	2.7	2.7	1.4	4.4	4.1
March	6.4	6.1	5.8	6.0	3.0	3.2	3.0	1.3	5.6	5.0
April	6.2	6.0	5.8	5.5	3.1	2.9	3.0	2.2	6.3	4.7
May	6.0	5.7	5.6	5.4	3.1	2.8	2.8	2.2	6.3	4.9
June	6.0	5.7	5.4	5.5	3.2	2.9	2.9	2.1	6.0	4.7
July	5.8	5.2	4.9	4.9	3.2	3.1	3.0	2.3	5.8	4.9
August	6.0	6.0	5.6	5.5	3.2	3.0	2.9	2.1	5.8	4.9
September	5.9	5.9	5.5	5.5	3.1	3.1	3.0	2.3	5.4	4.8
October	6.0	5.9	5.7	5.8	2.9	2.8	2.9	2.4	5.2	4.8
November	6.0	5.7	5.4	5.6	2.9	2.7	2.9	2.4	4.8	4.6
December	5.5	5.1	4.8	5.3	2.9	3.0	2.8	2.7	4.0	3.4

Stations Closings per Month (Exceptional measure related to the flow management)

Line	Month											
	February	March	April	May	June	July	August	September	October	November	December	
1	5	41	105	268	208	3	2	1	4			
2	2	4	3									
4	15	8	4				4					
5		10						1				
4A												
Overall Total	22	63	112	268	208	3	6	2	4	0	0	

:_flow per station

march - december period WD

(in thousands travels per day)

Line 1 Station	Passengers
San Pablo (SP)	42.4
Neptuno (NP)	14.9
Pajaritos (PJ)	35.9
Las Rejas (LR)	66.3
Ecuador (EC)	13.7
San Alberto Hurtado (AH)	27.8
Universidad de Santiago (US)	33.8
Estación Central (EL)	61.5
Unión Latino Americana (LA)	21.5
República (RP)	41.6
Los Héroes L1 (LH)	39.3
La Moneda (LM)	46.4
Universidad de Chile (CH)	94.7
Santa Lucía (SL)	43.3
Universidad Católica (UC)	22.4
Baquedano L1 (BA)	22.3
Salvador (SA)	32.7
Manuel Montt (MM)	33.1
Pedro de Valdivia (PV)	52.2
Los Leones (LE)	48.0
Tobalaba (TB)	27.9
El Golf (GO)	20.2
Alcántara (AL)	14.3
Escuela Militar (EM)	85.4
Total Line 1	941.4

Line 2 Station	Passengers
Américo Vespucio (VN)	22.7
Zapadores (ZA)	20.3
Dorsal (DO)	13.8
Einstein (EI)	14.4
Cementerios (CE)	8.7
Cerro Blanco (CB)	13.4
Patronato (PT)	20.1
Cal y Canto (CA)	60.8
Santa Ana L2 (AN)	38.5
Los Héroes L2 (HE)	5.7
Toesca (TO)	16.2
Parque O'Higgins (PQ)	15.1
Rondizoppi (RO)	15.9
Franklin (FR)	14.5
El Llano (LL)	13.7
San Miguel (SM)	15.7
Lo Vial (LV)	10.8
Departamental (DE)	12.3
Ciudad del Niño (CN)	11.9
Lo Ovalle (LO)	24.7
El Parrón (EP)	11.7
La Cisterna (LC)	43.4

Total Line 2 424.1

Line 4 Station	Passengers
Plaza de Puente Alto (PP)	43.1
Las Mercedes (ME)	17.6
Protectora de la Infancia (TI)	17.4
Hospital Sótero del Río (HS)	27.4
Elisa Correa (EA)	18.0
Los Quillayes (LQ)	11.8
Trinidad (TR)	13.5
Rojas Magallanes (RM)	7.1
Vicente Valdés (VA)	29.5
Vicuña Mackenna (VM)	19.0
Macul (MC)	24.6
Las Torres (LT)	10.6
Rotonda Quilín (RQ)	9.9
Los Presidentes (LP)	8.6
Rotonda Grecia (RG)	23.0
Los Orientales (OR)	9.0
Plaza Egaña (EG)	23.9
Simón Bolívar (SB)	8.5
Príncipe de Gales (GA)	12.4
Bilbao (BI)	22.0
Colón (CO)	12.3
Tobalaba L4 (TL)	33.2

Total Line 4 402.1

:_flow per station

march - december period WD

(in thousands travels per day)

Line 4A Station	Passengers
Santa Julia (JU)	7.5
La Granja (LG)	9.3
Santa Rosa (SR)	25.6
San Ramón (RN)	8.4
La Cisterna (LI)	21.2
Total Line 4A	72,0

Average Flow March-Dec WD	Passengers
L1	941.4
L2	424.1
L4	402.1
L4A	72.0
L5	323.6
Network	2,163.2

Line 5 Station	Passengers
Quinta Normal (QN)	26.5
Ricardo Cumming (RC)	13.4
Santa Ana L5 (NA)	14.7
Plaza de Armas (PZ)	56.2
Bellas Artes (BE)	12.6
Baquedano L5 (BQ)	8.3
Parque Bustamante (PB)	15.1
Santa Isabel (SI)	14.3
Irarrázaval (IR)	30.8
Ñuble (NU)	18.5
Rodrigo de Araya (RA)	10.3
Carlos Valdovinos (CV)	12.2
Agrícola (AG)	12.0
San Joaquín (SJ)	15.6
Pedrero (PE)	14.5
Mirador Azul (MA)	14.1
Bellavista de la Florida (LF)	34.5
Total Line 5	323.6

Monthly Flow per User Type (trips)

	Full Fare	Paid Student	Free Student	Senior Citizen	Total
January	23,495,569	4,300,847	156,025	418,631	28,371,072
February	27,902,224	1,351,971	45,865	263,220	29,563,280
March	40,996,339	11,144,767	986,637	100,471	53,228,214
April	37,765,973	11,198,484	2,813,796	37,222	51,815,475
May	39,243,890	13,862,015	1,423,198	20,613	54,549,716
June	38,709,396	14,094,619	1,461,949	11,518	54,277,482
July	38,124,331	12,081,774	1,434,935	8,498	51,649,538
August	40,788,302	15,073,960	1,773,779	6,827	57,642,868
September	35,778,432	12,928,621	1,660,841	4,781	50,372,675
October *	41,336,026	15,807,629	1,927,167	0	59,070,822
November *	39,768,809	14,651,593	1,793,661	0	56,214,063
December *	39,948,318	12,365,330	1,705,234	0	54,018,882
Totals	443,857,609	138,861,610	17,183,087	871,781	600,774,087

* As from September 2007, Senior Citizen is included in Paid Student flow.

Annual Flow per Line in Peak and Off-Peak Hours

	Line 1	Line 2	Line 4	Line 4A	Line 5
Peak Hour*	73,653,882	38,723,486	39,236,844	7,549,996	28,225,387
Off-Peak Hours	182,383,537	81,745,409	74,771,483	13,324,446	61,159,617
Subtotal per Line	256,037,419	120,468,895	114,008,327	20,874,442	89,385,004

* Morning and evening Peak Hour.

:_multired

Transactional Movements

Months	N° of Freight Transactions	N° of Sold Tickets	N° of Issued Cards
January	4,019,184	13,308,626	1,228,416
February	6,460,413	7,707,315	482,371
March	12,203,975	6,403,161	239,815
April	11,068,199	6,051,915	138,269
May	11,841,586	6,499,605	121,473
June	11,507,034	6,038,837	109,280
July	11,257,976	5,649,694	111,710
August	12,224,242	5,928,965	106,281
September	10,935,600	5,174,334	97,293
October	12,557,306	5,953,738	103,677
November	12,262,356	5,704,332	98,686
December	12,139,001	5,718,101	109,149
Total	128,476,872	80,138,623	2,946,420

:_rolling
stock

Coach fleet in 2007

Trains	Coaches	
	With cabin	Without cabin
NS-74	98	147
NS-88	2	3
NS-93	68	168
AS-2002	120	60
NS-2004	22	63
Total	310	441
Total coaches	751	

:_km of
rolling stock

Traveled kilometers in 2007

Coach-kilometers (thousands)

Month	Line 1	Line 2	Line 4	Line 4A	Line 5	Network
January	2,317,244	1,338,575	1,406,079	307,833	1,217,815	6,587,546
February	2,269,592	1,285,360	1,564,986	271,908	1,135,350	6,527,196
March	2,714,347	1,652,660	2,063,703	340,359	1,388,466	8,159,535
April	2,576,720	1,605,915	1,793,454	323,124	1,361,530	7,660,743
May	2,651,251	1,718,380	1,767,363	335,970	1,450,614	7,923,578
June	2,645,755	1,691,140	1,747,731	328,953	1,434,676	7,848,255
July	2,703,075	1,667,775	1,709,520	332,280	1,440,313	7,852,963
August	2,836,889	1,729,685	1,824,879	338,475	1,508,910	8,238,838
September	2,659,574	1,591,860	1,753,758	314,337	1,349,667	7,669,196
October	3,042,484	1,761,211	1,910,328	339,609	1,572,245	8,625,877
November	2,951,097	1,729,922	1,864,713	325,167	1,565,785	8,436,684
December	2,981,503	1,768,247	1,954,242	337,122	1,625,381	8,666,495
Total	32,349,531	19,540,730	21,360,756	3,895,137	17,050,752	94,196,906

:_commercial
premises and
services

Station	Number of Premises and/or Spaces	Area
Escuela Militar	3	4.608.0
El Golf	2	14.4
Tobalaba	14	546.9
Los Leones	4	208.5
Pedro de Valdivia	11	297.0
Manuel Montt	2	59.5
Salvador	2	14.0
Universidad Católica	1	20.0
Santa Lucía	1	5.0
Universidad de Chile	47	1.548.3
La Moneda	16	468.0
Estación Central	4	145.9
Las Rejas	1	7.6
Vespucio Norte	6	120.0
Cerro Blanco	6	161.2
Patronato	1	8.0
Cal y Canto	12	263.5
Santa Ana	1	10.0
Los Héroes	1	10.0
Lo Ovalle	2	43.0
El Parrón	1	25.2
La Cisterna	4	196.5
Tobalaba L4	3	45.6
Colón	1	24.5
Bilbao	1	24.5
Príncipe de Gales	1	24.5
Simón Bolívar	1	24.5
Plaza Egaña	1	48.5
Los Orientales	1	17.0
Grecia	6	90.0
Los Presidentes	2	24.0
Quilín	2	24.0
Las Torres	2	24.0
Vicente Valdés L4	3	109.3
Hospital Sótero del Río	7	173.9
Las Mercedes	3	87.7
Plaza Puente Alto	6	185.4
La Cisterna L-4A	15.0	475.0
San Ramón	1.0	12.5
Santa Rosa	6.0	106.2
La Granja	1.0	12.5
Santa Julia	1.0	12.5
Plaza de Armas	6	125.7
Baquedano	3	30.8
Irarrázaval	10	263.5
La Florida	3	27.5
Term. Bellavista de La Florida	1	6.0
Term. Metrobus Lo Ovalle	3	128.5
Term. Pajaritos	4	206.1
Total		11,114.7

commercial
premises and
services

Other Services	Number of Automatic Tellers	Number of Public Phones	External Kiosks
L-1	61	78	3
L-2	34	73	0
L-4	30	56	0
L-4A	6	14	0
L-5	28	70	6
Network Total	159	281	9

(**)

Line 1 Station	Abbreviation
San Pablo	(SP)
Neptuno	(NP)
Pajaritos	(PJ)
Las Rejas	(LR)
Ecuador	(EC)
San Alberto Hurtado	(AH)
Universidad de Santiago	(US)
Estación Central	(EL)
Unión Latino Americana	(LA)
República	(RP)
Los Héroes L1	(LH)
La Moneda	(LM)
Universidad de Chile	(CH)
Santa Lucía	(SL)
Universidad Católica	(UC)
Baquedano L1	(BA)
Salvador	(SA)
Manuel Montt	(MM)
Pedro de Valdivia	(PV)
Los Leones	(LE)
Tobalaba	(TB)
El Golf	(GO)
Alcántara	(AL)
Escuela Militar	(EM)

Line 4A Station	Abbreviation
Santa Julia	(JU)
La Granja	(LG)
Santa Rosa	(SR)
San Ramón	(RN)
La Cisterna	(LI)

Line 2 Station	Abbreviation
Américo Vespucio	(VN)
Zapadores	(ZA)
Dorsal	(DO)
Einstein	(EI)
Cementerios	(CE)
Cerro Blanco	(CB)
Patronato	(PT)
Cal y Canto	(CA)
Santa Ana L2	(AN)
Los Héroes L2	(HE)
Toesca	(TO)
Parque O'Higgins	(PQ)
Rondizonni	(RO)
Franklin	(FR)
El Llano	(LL)
San Miguel	(SM)
Lo Vial	(LV)
Departamental	(DE)
Ciudad del Niño	(CN)
Lo Ovalle	(LO)
El Parrón	(EP)
La Cisterna	(LC)

Line 4 Station	Abbreviation
Plaza de Puente Alto	(PP)
Las Mercedes	(ME)
Protectora de la Infancia	(TI)
Hospital Sótero del Río	(HS)
Elisa Correa	(EA)
Los Quillayes	(LQ)
Trinidad	(TR)
Rojas Magallanes	(RM)
Vicente Valdés	(VA)
Vicuña Mackenna	(VM)
Macul	(MC)
Las Torres	(LT)
Rotonda Quilín	(RQ)
Los Presidentes	(LP)
Rotonda Grecia	(RG)
Los Orientales	(OR)
Plaza Egaña	(EG)
Simón Bolívar	(SB)
Príncipe de Gales	(GA)
Bilbao	(BI)
Colón	(CO)
Tobalaba L4	(TL)

Line 5 Station	Abbreviation
Quinta Normal	(QN)
Ricardo Cumming	(RC)
Santa Ana L5	(NA)
Plaza de Armas	(PZ)
Bellas Artes	(BE)
Baquedano L5	(BQ)
Parque Bustamante	(PB)
Santa Isabel	(SI)
Irarrázaval	(IR)
Ñuble	(NU)
Rodrigo de Araya	(RA)
Carlos Valdovinos	(CV)
Agrícola	(AG)
San Joaquín	(SJ)
Pedrero	(PE)
Mirador Azul	(MA)
Bellavista de la Florida	(LF)



:_coordination

commercial and customer
service management
metro de santiago

:_design and production

naranjo branddesign
alvaro ubeda

:_photography

thomas wedderville

:_printing

gráfica escorpio