

# LA Metro Fare Evasion Assessment



Prepared for:



**Metro Board**  
**October 25, 2007**

Prepared By:



Supported By:

**T.E.M.P.S., INC.**

# Independent Assessment - Fare Evasion Rates

## All Metro Rail + Metro Orange Lines

- Systematic sampling of Red, Blue, Gold, Green, Orange
  - 16 hours for weekday
  - 8-12 hours for weekends
- Inspection teams consisted of LA County Sheriffs, Metro Security with TMD staff recording findings
- Performed in “plain clothes”
- Passengers lacking correct fare were not fined
  - asked to leave the vehicle at the next station to purchase a ticket

# Sample Recording

- 100% sampling of each train car or bus
- Recorded total load, total valid fares and areas of evasion:
  - Valid Ticket
  - No ticket
  - Incorrect Fare
  - Fraudulent ticket
  - Not cited for good reason
  - Metro employees with internal passes

# System Wide

## Weekday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-9am	3,770	112	7	3,889	3.06%
9am-3pm	4,936	256	15	5,207	5.20%
3pm-7pm	5,111	192	26	5,329	4.09%
7pm-11pm	2,200	167	31	2,398	8.26%
<b>Total:</b>	<b>16,017</b>	<b>727</b>	<b>79</b>	<b>16,823</b>	<b>4.79%</b>

## Saturday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	2,007	87	9	2,103	4.56 %
10am-6pm	3,676	163	56	3,895	5.62 %
6pm-11pm	1,575	140	14	1,729	8.91 %
<b>Total:</b>	<b>7,258</b>	<b>390</b>	<b>79</b>	<b>7,727</b>	<b>6.07%</b>

## Sunday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	1,277	70	5	1,352	5.55%
10am-6pm	2,771	144	51	2,966	6.57%
6pm-11pm	943	82	25	1,050	10.19%
<b>Total</b>	<b>4,991</b>	<b>296</b>	<b>81</b>	<b>5,368</b>	<b>7.02%</b>

# Overall Totals

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
<b>Red</b>	10,561	519	74	11,107	5.34%
<b>Green</b>	4,513	292	42	4,847	6.89%
<b>Blue</b>	6,068	322	70	6,460	6.07%
<b>Gold</b>	3,952	117	28	4,097	3.54%
<b>Orange</b>	3,172	163	25	3,360	5.60%
<b>Overall Total for all Lines</b>	28,266	1,413	239	29,918	5.52%

# Key Systemwide Observations

- Overall evasion rates across all lines were
  - 5 percent Weekdays
  - 6 percent Saturdays
  - 7 percent Sundays
- Evenings systemwide had the highest evasion rates of 8-10 percent
- Midday weekday and weekend daybase also evasion of 5-7 percent.
- Peak period evasion rates lowest noted, between 3-5 percent.

# Key Evasion Observations

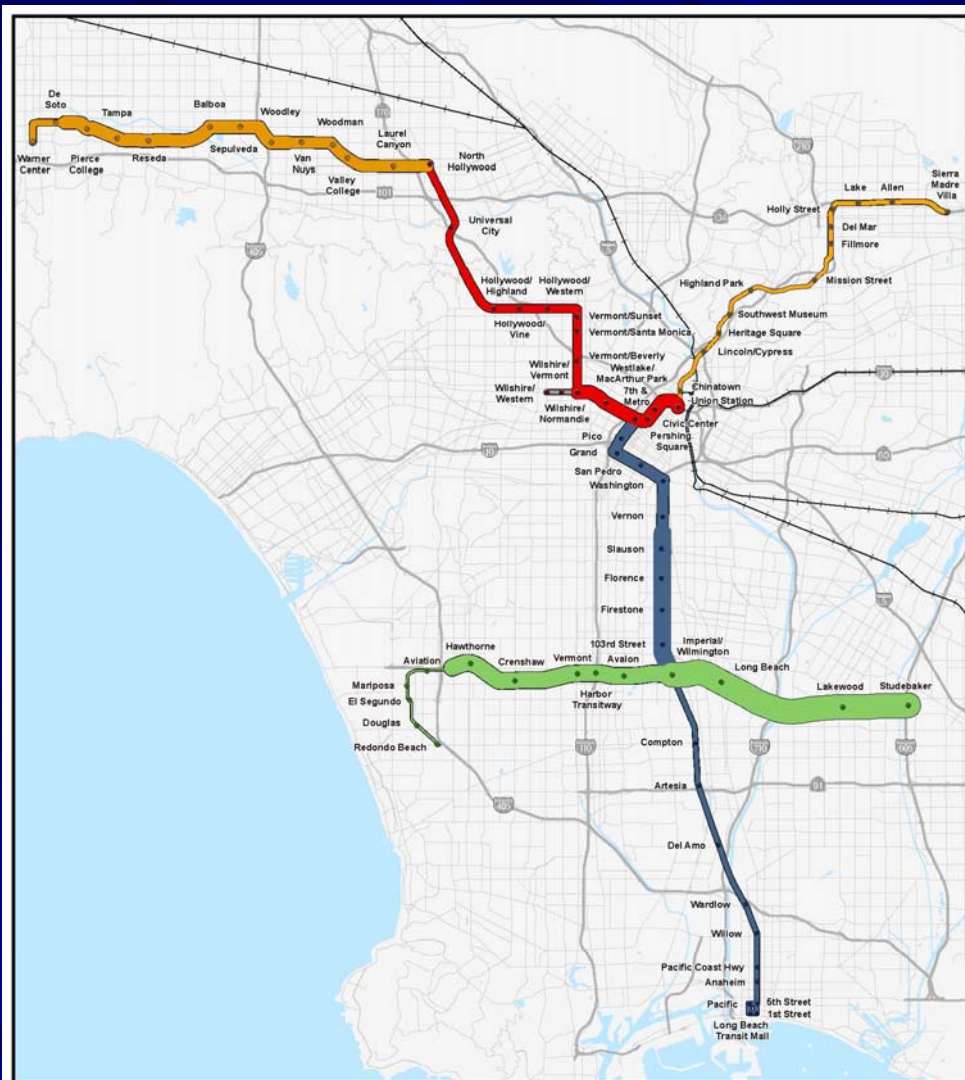
- Overall evasion rates across all lines were dominated by no fares.
- Of those with incorrect fares, most were not adhering to the rules regarding transfers between lines.
- Fraudulent tickets were rarely seen, though harder to determine during onboard inspections.

# Key Line Segment Observations

- Highest evasion noted on the Green Line
  - weekdays between Hawthorne and Norwalk,
  - weekends more between Hawthorne and Imperial/Wilmington
- Other higher evasion segments weekdays were:
  - Weekdays, Slauson to Imperial-Wilmington on Blue Line
  - Red Line between Union Station and Wilshire/Vermont
  - Orange Line
- Higher evasion more widespread geographically for weekends, covering the full length of most lines.
  - Exception with lower evasion rates was the Gold Line
  - Blue Line south of Imperial-Wilmington was high



# Weekday



**Los Angeles  
Metro Rail System  
Fare Evasion Study**

**Percentage of Total Vehicle Passenger  
Load Without a Valid Ticket or Pass**

Date Created  
October 2007

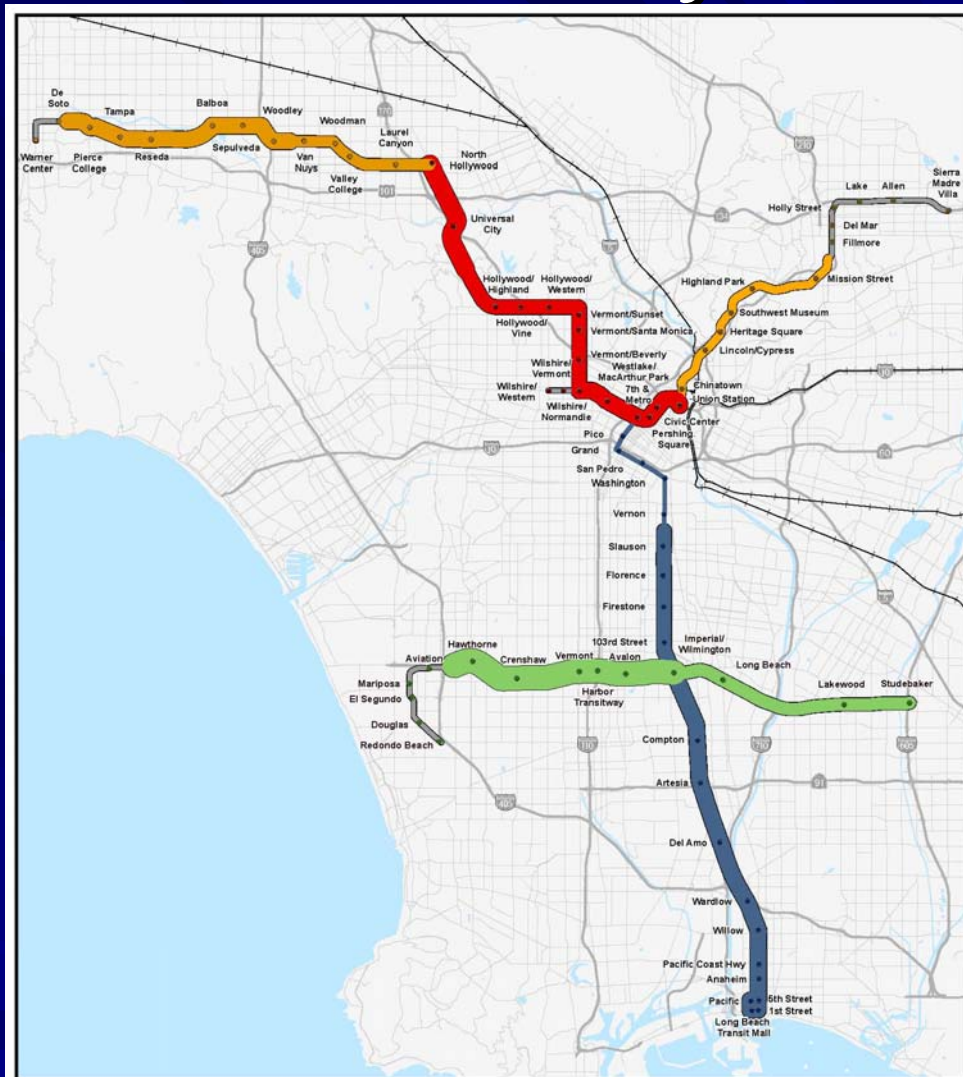
9.0% 8.0% 7.0% 6.0% 5.0% 4.0% 3.0% 2.0% 1.0%

**Weekday**

- No Data Collected
- Freeway
- Major Road



# Saturday



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**Percentage of Total Vehicle Passenger  
Load Without a Valid Ticket or Pass**

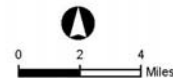
Date Created  
October 2007

9.0% 8.0% 7.0% 6.0% 5.0% 4.0% 3.0% 2.0% 1.0%

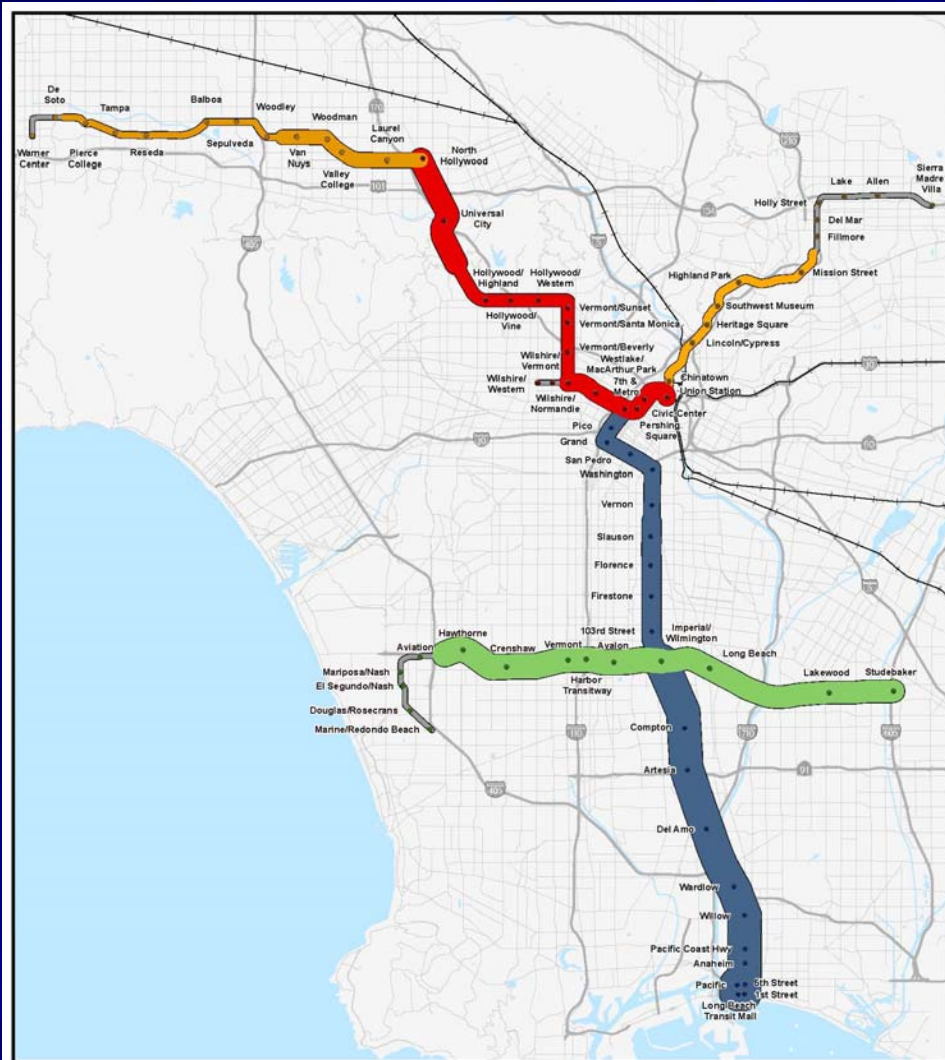


Saturday

- No Data Collected
- Freeway
- Major Road



# Sunday



**Los Angeles  
Metro Rail System  
Fare Evasion Study**

**Percentage of Total Vehicle Passenger  
Load Without a Valid Ticket or Pass**

12% 11% 10% 9% 8% 7% 6% 5% 4% 3% 2% 1%

**Sunday**

- No Data Collected
- Freeway
- Major Road

Date Created  
October 2007



# Red Line

## Weekday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-9am	1,430	40	0	1,470	2.72%
9am-3pm	1,893	94	6	1,993	5.02%
3pm-7pm	1,603	52	13	1,668	3.90%
7pm-11pm	1,113	68	8	1,189	6.39%
<b>Total:</b>	6,039	254	27	6,320	4.45%

## Saturday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	785	30	3	771	4.28%
10am-6pm	1,061	46	20	1,127	5.86%
6pm-11pm	871	78	5	954	8.70%
<b>Total:</b>	2,717	154	28	2,852	6.38%

## Sunday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	615	27	4	646	4.8%
10am-6pm	626	29	10	665	5.86%
6pm-11pm	564	55	5	624	9.62%
Total	1,805	111	19	1,935	6.72%

# Green Line

## Weekday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-9am	758	24	2	784	3.32%
9am-3pm	697	70	5	772	9.72%
3pm-7pm	1,468	69	5	1,542	4.80%
7pm-11pm	182	18	6	206	11.65%
<b>Total:</b>	3,105	181	18	3,304	6.02%

## Saturday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	392	22	2	416	5.77%
10am-6pm	284	24	8	316	10.13%
6pm-11pm	182	16	1	199	8.54%
<b>Total:</b>	858	62	11	931	7.84%

## Sunday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	270	14	0	284	4.93%
10am-6pm	163	28	8	199	18.09%
6pm-11pm	117	7	5	129	9.30%
Total	550	49	13	612	10.13%

# Blue Line

## Weekday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-9am	721	23	0	744	3.09%
9am-3pm	1,099	53	3	1,155	4.85%
3pm-7pm	745	36	2	783	4.85%
7pm-11pm	324	41	3	368	11.96%
<b>Total:</b>	2,889	153	8	3,050	5.28%

## Saturday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	423	11	2	436	2.98%
10am-6pm	1,067	43	21	1,131	5.66%
6pm-11pm	300	25	5	330	9.09%
<b>Total:</b>	1,790	79	28	1,897	5.64%

## Sunday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	206	23	1	230	10.43%
10am-6pm	921	47	18	986	6.59%
6pm-11pm	262	20	15	297	11.78%
Total	1,389	90	34	1,513	8.20%

# Gold Line

## Weekday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-9am	327	9	4	340	3.82%
9am-3pm	862	14	1	877	1.71%
3pm-7pm	905	25	5	935	3.21%
7pm-11pm	270	12	4	286	5.59%
<b>Total:</b>	2,364	60	14	2,438	3.04%

## Saturday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	0	0	0	0	---
10am-6pm	751	27	6	784	4.21%
6pm-11pm	0	0	0	0	---
<b>Total:</b>	751	27	6	784	4.21%

## Sunday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	0	0	0	0	---
10am-6pm	837	30	8	875	4.34%
6pm-11pm	0	0	0	0	---
<b>Total</b>	837	30	8	875	4.34%

# Orange Line

## Weekday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-9am	534	16	1	551	3.09%
9am-3pm	385	25	0	410	6.10%
3pm-7pm	390	10	1	401	2.74%
7pm-11pm	311	28	10	349	10.89%
<b>Total:</b>	1,620	79	12	1,711	5.32%

## Saturday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	407	24	2	433	6.00%
10am-6pm	513	23	1	537	4.47%
6pm-11pm	222	21	3	246	9.76%
<b>Total:</b>	1,142	68	6	1,216	6.09%

## Sunday

	Total Valid Fares	Total No Fares	Total Incorrect Fares	Total Checked	Percentage
5am-10am	186	6	0	192	3.13%
10am-6pm	224	10	7	241	7.05%
6pm-11pm	0	0	0	0	---
Total	410	16	7	433	5.31%