## LA Metro <br> Fare Evasion Assessment



Prepared for:
$\mathbb{M}_{\text {Metro }}$

Metro Board October 25, 2007

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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 <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 \mathrm{~mm}-9 \mathrm{am}$ | 3,770 | 112 | 7 | 3,889 |  |
| $9 \mathrm{am}-3 \mathrm{pm}$ | 4,936 | 256 | 15 | 5,207 | $5.06 \%$ |
| $3 \mathrm{pm}-7 \mathrm{pm}$ | 5,111 | 192 | 26 | 5,329 | $4.09 \%$ |
| $7 \mathrm{pm}-11 \mathrm{pm}$ | 2,200 | 167 | 727 | 79 | 2,398 |
| Total: | 16,017 |  |  | 16,823 | $8.26 \%$ |

Saturday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 2,007 | 87 | 9 | 2,103 |  |
| $10 a m-6 p m$ | 3,676 | 163 | 56 | 3,895 | $5.56 \%$ |
| $6 p m-11 p m$ | 1,575 | 7,258 | 390 | 74 | 1,729 |
| Total: |  |  | 7,727 | $8.91 \%$ |  |

## Sunday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 1,277 | 70 | 5 | 1,352 | $5.55 \%$ |
| $10 a m-6 p m$ | 2,771 | 144 | 51 | 2,966 | $6.57 \%$ |
| $6 p m-11 \mathrm{pm}$ | 943 | 82 | 25 | 1,050 | $10.19 \%$ |
| Total | 4,991 | 296 | 81 | 5,368 | $7.02 \%$ |

## Overall Totals

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

## Key Systemwide Observations

$\square$ Overall evasion rates across all lines were
-5 percent Weekdays

- 6 percent Saturdays
- 7 percent Sundays
$\square$ Evenings systemwide had the highest evasion rates of 8-10 percent
$\square$ Midday weekday and weekend daybase also evasion of 5-7 percent.
$\square$ Peak period evasion rates lowest noted, between 3-5 percent.


## Key Evasion Observations

$\square$ Overall evasion rates across all lines were dominated by no fares.
$\square$ 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
$\square$ 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



## Saturday



## Sunday



## Red Line

## Weekday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-9 a m$ | 1,430 | 40 | 0 | 1,470 |  |
| $9 a m-3 p m$ | 1,893 | 94 | 6 | 1,993 | $5.72 \%$ |
| $3 p m-7 p m$ | 1,603 | 1,113 | 62 | 13 | 1,668 |
| $7 \mathrm{pm}-11 \mathrm{pm}$ | 6,039 | 254 | 27 | 1,189 | $3.90 \%$ |
| Total: |  |  | 6,320 | $6.39 \%$ |  |

## Saturday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 785 | 30 | 3 | 771 | $4.28 \%$ |
| $10 a m-6 p m$ | 1,061 | 46 | 20 | 1,127 | $5.86 \%$ |
| $6 p m-11 p m$ | 78 | 154 | 28 | 954 | $8.70 \%$ |
| Total: | 2,717 |  | 2,852 | $6.38 \%$ |  |

Sunday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 615 | 27 | 4 | 646 | $4.8 \%$ |
| $10 a m-6 p m$ | 626 | 29 | 10 | 665 | $5.86 \%$ |
| $6 p m-11 \mathrm{pm}$ | 564 | 111 | 19 | 624 | $9.62 \%$ |
| Total | 1,805 |  | 1,935 | $6.72 \%$ |  |

## Green Line

## Weekday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-9 a m$ | 758 | 24 | 2 | 784 | $3.32 \%$ |
| $9 a m-3 p m$ | 697 | 70 | 5 | 772 | $9.72 \%$ |
| $3 p m-7 p m$ | 1,468 | 189 | 18 | 6 | 18 |
| $7 \mathrm{pm}-11 \mathrm{pm}$ | 3,105 | 181 |  | 206 | $4.80 \%$ |
| Total: |  |  |  | $11.65 \%$ |  |

## Saturday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 392 | 22 | 2 | 416 | $5.77 \%$ |
| $10 a m-6 p m$ | 284 | 24 | 8 | 316 | $10.13 \%$ |
| $6 p m-11 p m$ | 182 | 16 | 1 | 11 | $8.54 \%$ |
| Total: | 858 | 62 |  | 931 | $7.84 \%$ |

Sunday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 270 | 14 | 0 | 284 | $4.93 \%$ |
| $10 a m-6 p m$ | 163 | 28 | 8 | 199 | $18.09 \%$ |
| $6 p m-11 \mathrm{pm}$ | 117 | 79 | 13 | 129 | $9.30 \%$ |
| Total | 550 |  |  | 612 | $10.13 \%$ |

## Blue Line

Weekday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-9 a m$ | 721 | 23 | 0 | 744 | $3.09 \%$ |
| $9 a m-3 p m$ | 1,099 | 53 | 3 | 1,155 | $4.85 \%$ |
| $3 p m-7 p m$ | 36 | 41 | 2 | 783 | $4.85 \%$ |
| $7 \mathrm{pm}-11 \mathrm{pm}$ | 324 | 153 | 8 | 368 | $11.96 \%$ |
| Total: | 2,889 |  |  | 3,050 | $5.28 \%$ |

## Saturday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 423 | 11 | 2 | 436 | $2.98 \%$ |
| $10 a m-6 p m$ | 1,067 | 43 | 21 | 1,131 | $5.66 \%$ |
| $6 p m-11 p m$ | 300 | 79 | 5 | 330 | $9.09 \%$ |
| Total: | 1,790 |  | 1,897 | $5.64 \%$ |  |

Sunday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5am-10am | 206 | 23 | 1 | 230 | $10.43 \%$ |
| $10 a m-6 p m$ | 921 | 47 | 18 | 986 | $6.59 \%$ |
| $6 p m-11 \mathrm{pm}$ | 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 <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-9 a m$ | 327 | 9 | 4 | 340 | $3.82 \%$ |
| $9 a m-3 p m$ | 862 | 14 | 1 | 877 | $1.71 \%$ |
| $3 p m-7 p m$ | 205 | 25 | 5 | 935 | $3.21 \%$ |
| $7 \mathrm{pm}-11 \mathrm{pm}$ | 2,364 | 60 | 12 | 286 | $5.59 \%$ |
| Total: |  |  |  | 3,438 |  |

## Saturday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 0 | 0 | 0 | 0 | --- |
| $10 a m-6 p m$ | 751 | 27 | 6 | 784 | $4.21 \%$ |
| $6 p m-11 p m$ | 0 | 0 | 6 | 0 | --- |
| Total: | 751 |  |  | 784 | $4.21 \%$ |

Sunday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5am-10am | 0 | 0 | 0 | 0 | --- |
| $10 a m-6 p m$ | 837 | 30 | 8 | 875 | $4.34 \%$ |
| $6 p m-11 \mathrm{pm}$ | 0 | 0 | 0 | 0 | --- |
| Total | 837 | 30 | 8 | 875 | $4.34 \%$ |

## Orange Line

Weekday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-9 a m$ | 534 | 16 | 1 | 551 | $3.09 \%$ |
| $9 a m-3 p m$ | 385 | 25 | 0 | 410 | $6.10 \%$ |
| $3 p m-7 p m$ | 390 | 10 | 1 | 401 | $2.74 \%$ |
| $7 p m-11 p m$ | 311 | 1,620 | 12 |  | 349 |
| Total: |  |  | 1,711 | $5.39 \%$ |  |

## Saturday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 407 | 24 | 2 | 433 | $6.00 \%$ |
| $10 a m-6 p m$ | 513 | 23 | 1 | 537 | $4.47 \%$ |
| $6 p m-11 p m$ | 222 | 68 | 3 | 246 | $9.76 \%$ |
| Total: | 1,142 |  |  | 1,216 | $6.09 \%$ |

Sunday

|  | Total Valid Fares | Total No Fares | Total Incorrect <br> Fares | Total Checked | Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5 a m-10 a m$ | 186 | 6 | 0 | 192 | $3.13 \%$ |
| $10 a m-6 p m$ | 224 | 10 | 7 | 241 | $7.05 \%$ |
| $6 p m-11 \mathrm{pm}$ | 0 | 0 | 0 | 0 | --- |
| Total | 410 | 16 | 7 | 433 | $5.31 \%$ |

