# Metro Rail – April Weekday Boardings

<table>
<thead>
<tr>
<th>Line</th>
<th>May 2008</th>
<th>May 2009</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Line</td>
<td>78,527</td>
<td>80,175</td>
<td>+2.1%</td>
</tr>
<tr>
<td>Green Line</td>
<td>38,829</td>
<td>38,301</td>
<td>-1.4%</td>
</tr>
<tr>
<td>Gold Line</td>
<td>21,919</td>
<td>24,550</td>
<td>+12.0%</td>
</tr>
<tr>
<td>Red/Purple Lines</td>
<td>137,876</td>
<td>154,355</td>
<td>+12.0%</td>
</tr>
<tr>
<td>Total Rail System</td>
<td>267,151</td>
<td>297,381</td>
<td>+11.3%</td>
</tr>
</tbody>
</table>
Metro Gold Line Eastside Extension

- Limited testing / Train Operator familiarization in June
- Ventilation Tests have been successfully completed
- Software modifications to the Ventilation and Emergency Management Panels is expected to be completed in July
- System Component tests expected to be completed in July
- SCADA testing is ongoing and expected to be complete for ROD
  - Ventilation
  - Train Control
  - Traction Power
- 26 AnsaldoBreda vehicles conditionally accepted
- Full Pre-Revenue Testing Expected to begin in August
Eastside Peer Review Conducted During the Week of June 29th
Metro Gold Line Eastside Extension
Implementation of Photo Enforcement

- Photo Enforcement to occur at 14 Intersections throughout alignment
- Enforces prohibition of illegal left-turns across the guideway
- Installation to take place during the summer and fall of 2009
• Implementation of Quad Gates will have impacts on adjacent properties, traffic and utilities

• City, County and CPUC approvals and environment clearances will be required

• Implementation of the Quad Gates will take approximately four years to complete
Rail Ambassadors have been advising the community of rail safety at specific intersections throughout the alignment.

Rail Ambassadors have made a number of observations to enhance safety that are currently being evaluated. These include,

a. Extra signage;

b. Limiting right-of-way fence heights;

c. Extending pipe railing to deter jay walkers.
Safety Enhancements under evaluation:

- Addition of delineators and bollards to control pedestrian and motorist traffic;
- Additional traffic signalization, such as “Red” right arrows to deter right turns at 1st/Indiana;
- Placement of pedestrian barriers for the full length of the street running section to deter jay walkers.
The Number of Bicycles are exceeding Capacity and are blocking doors and aisle ways.
Trains are being filled with Other Items
Bike Policy Change Will Make Metro Safer and Easier to Ride

- **Current Policy**
  - Time Restrictive & Confusing
  - With no bike restrictions clearly identified
    - Doors are blocked
    - Passengers are inconvenienced
  - Is not supportable

- **Proposed Policy**
  - No Time Restrictions
  - Limits 2 Bikes Per Car (Not Train)
  - Will be supported via LASD / LAFD
  - Will incorporate Marketing Media Support
    - Train Graphics
    - Handouts
    - Website
## Matrix of Key Rail Properties Bike Policy

<table>
<thead>
<tr>
<th>Rail Property</th>
<th>Mode</th>
<th>Peak</th>
<th>Non-Peak</th>
<th>Comments</th>
<th>Policy Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA Metro</td>
<td>LRT</td>
<td>No</td>
<td>Yes</td>
<td>Reverse Commute OK</td>
<td>2002</td>
</tr>
<tr>
<td></td>
<td>HRT</td>
<td>No</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF Muni</td>
<td>LRT</td>
<td>No</td>
<td>No</td>
<td>Operational Safety Issues</td>
<td>Current</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No Bikes At All</td>
<td></td>
</tr>
<tr>
<td>Bart</td>
<td>HRT</td>
<td>Some Restrictions</td>
<td>Yes</td>
<td>Schedule Restrictions/Car Restrictions</td>
<td>Current</td>
</tr>
<tr>
<td>CTA</td>
<td>HRT</td>
<td>No</td>
<td>Yes</td>
<td>Bike Racks inside Stations</td>
<td>Current</td>
</tr>
<tr>
<td>MBTA</td>
<td>Commuter</td>
<td>No</td>
<td>Yes</td>
<td></td>
<td>Current</td>
</tr>
<tr>
<td>MBTA</td>
<td>Subway</td>
<td>No</td>
<td>Yes</td>
<td></td>
<td>Current</td>
</tr>
<tr>
<td>NJ Transit</td>
<td>LRT</td>
<td>No</td>
<td>Yes</td>
<td>No bikes on Holidays</td>
<td>Current</td>
</tr>
<tr>
<td>Tri Met</td>
<td>LRT</td>
<td>Yes</td>
<td>Yes</td>
<td>Growing Pains Now, tightening restrictions</td>
<td>Current</td>
</tr>
<tr>
<td>MTA-NY</td>
<td>HRT</td>
<td>Yes</td>
<td>Yes</td>
<td>Not that many bikes</td>
<td>Current</td>
</tr>
</tbody>
</table>
Seat Removal is Only Feasible on Subway Cars
On Light Rail Vehicles the Center Articulated Section is the only feasible option for locating bikes.
WMATA Accident and Metro Implications

- Metro has similar systems as WMATA on its Red/Purple Lines
- WMATA Investigation is ongoing
- Automatic Train Protection is the mode of protection employed to prevent such accidents
- Metro has over 250 Track Circuits on the Red/Purple Line and 1,700 throughout its total rail system
- All of the inspections for these circuits are current and confirmed by CPUC audit conducted during the week of July 6th.
Actions Taken

- Senior Management/Engineering Team review of track circuit inspection logs
- Deployment of Train Operation Communications to remain vigilant
- Maintaining communications with NTSB, Alstom, WMATA for information that may pertain to Metro
Safety  Vigilance Through Training

- **Rule 2020 Alertness**
  - Keep fully alert at all times
  - Sleeping prohibited
  - Do not operate if fatigued or ill
  - Report fatigue or illness to proper authority

- **Rule 2027 Electronic Devices**
  - Must power off while operating equipment
  - Keep out of sight while operating
  - Electronic devices include:
    - cell phones, personal stereos, video games, TVs, computers, etc.
Rail Operations Control Alarms

- Ongoing investigation reveals an interest in Agencies with Automatic Train Control to provide back up alarms at Rail Operation Control Centers
- Similar alarms are indicated to Operator on his/her console
- Metro is investigating the feasibility of implementing warnings to Controllers at ROC at this time
LRV Industry Review

- Made available to Industry Tuesday, July 14th
- Advertised in the following publications
  - July 20 issue of Passenger Transport
  - July 20 in the Engineering News Report and the Transit Talent publications
- Industry Review Comments requested by August 3rd
- September RFP Release
- November Proposals Due
- Anticipated Award May/June of 2010
- NTP of July of 2010
- Best Value Method is proposed
- Base Order for 113 Light Rail Vehicles Plus Options
## Basis for 113 LRVs For 2020

### Existing Fleet

<table>
<thead>
<tr>
<th>VEHICLE TYPE</th>
<th>Blue</th>
<th>Expo</th>
<th>Green</th>
<th>Gold</th>
<th>Total</th>
<th>Accum</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUMITOMO P865 (RETIRED)</td>
<td>54</td>
<td></td>
<td></td>
<td></td>
<td>54</td>
<td>54</td>
</tr>
<tr>
<td>SUMITOMO P2020 (RETIRED)</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td>15</td>
<td>69</td>
</tr>
<tr>
<td>SIEMENS P2000</td>
<td>16</td>
<td>36</td>
<td></td>
<td></td>
<td>52</td>
<td>121</td>
</tr>
<tr>
<td>ANSALDOBREDA 2550 BASE</td>
<td></td>
<td></td>
<td>50</td>
<td>50</td>
<td>100</td>
<td>171</td>
</tr>
<tr>
<td><strong>SUBTOTAL - ORIGINAL 171 CAR FLEET</strong></td>
<td>0</td>
<td>16</td>
<td>36</td>
<td>50</td>
<td>171</td>
<td></td>
</tr>
</tbody>
</table>

### New Cars

| NEW CARS - EXPOSITION TO SANTA MONICA |       |      |       |      | 52    | 52    |
| NEW CARS - GOLD LINE TO AZUSA       |       |      |       | 50   | 102   |       |
| NEW CARS - SYSTEM SERVICE IMPROVEMENTS | 11 |      |       |      |       | 113   |
| **SUBTOTAL NEW CARS - MEASURER (APPROX.), SERV. IMP.** | 11   | 52   | 0     | 50   | 113   |       |
| **TOTAL - BY LINE**                 | 80   | 68   | 36    | 100  | 284   |       |

### Weekday Peak Period

<table>
<thead>
<tr>
<th>Scheduled Headway (Minutes)</th>
<th>6</th>
<th>6</th>
<th>6</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cars per Train</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total by Line</strong></td>
<td>80</td>
<td>68</td>
<td>36</td>
<td>100</td>
</tr>
</tbody>
</table>
Options

- 69 - Replacement of Blue Line Cars which will reach 30 years in age by 2020

- 52 - Potential Replacement of Gold and Green Line Cars due to age and high mileage

- 50 and 50 to reserve Metro’s ability to sustain fleet over the course of 10 years of planning and other Measure R Projects including Crenshaw, LAX Connector & Regional Connector.
Blue Line Grade Crossing Rehabilitation

- Manville St. - June 5-7 (completed)
- Gage Ave. - July 10-12 (completed)
- Elm St. – August 21-23

17 of the 25 crossings included in this project have been completed.
Exposition Line / Blue Line Update

- New Expo Junction
- New Venice Crossovers
- Lift and Insulate Rail – 12th St. to Long Beach Ave.
- New Maple Crossovers
- New Hooper Crossover
- Repositioned Washington South Crossover
- New Washington Storage and Inspection Facility (12-car capacity)
- New Maple Crossovers
- New Hooper Crossover
- Repositioned Washington South Crossover

FLOWER S.
WASHINGTON BL.
LONG BEACH AVE.
PICO GRAND SAN PEDRO
WASHINGTON VERNON
Lift and Insulate Rail – 12th St. to Long Beach Ave.
New Washington Storage and Inspection Facility (12-car capacity)
Phase 1 - Rail Insulation work started on June 28. Work is completed at night, between 9pm and 4am, Sundays thru Thursdays. Trains run every 30 minutes, single tracking between Washington and 7th St./Metro Center.

Phase 2 – Special Track, Overhead Catenary and associated work will require up to 26 weekend closures of the Blue Line, between Vernon Station and 7th St./Metro Center, in various station combinations:

- Grand - 7th/Metro Center
- San Pedro - 7th/Metro Center
- Washington - 7th/Metro Center

Closures will require bus bridge service, starting at 9:00pm Friday and continue through close of service on Sunday (1:00am Monday).
Phase 3 – 12-car Storage and Inspection Facility. Design is currently at 60%, with the construction plan to follow. Significant Track, Overhead Catenary and Signal work will require numerous closures of the Blue Line, between Vernon Station and San Pedro Station, in various station combinations:

- Washington - Grand
- Vernon - San Pedro

Closures will require bus bridge service, starting at 9:00pm Friday and continue through close of service on Sunday (1:00am Monday).
Special Events

- Michael Jackson Memorial Event
  July 7 – Blue, Red, Purple & Gold Lines