# Finance, Administration and Oversight Committee <br> I nformation I tem |I-B 

September 27, 2007

# Fare Policy and Proposal Consideration 

# Washington Metropolitan Area Transportation Authority Board Action/ I nformation Summary 



## PURPOSE

To present the Board of Directors with fare policy information and proposals.

## DESCRIPTION

The FY09 budget forecasts a funding need of $\$ 109$ million. Two primary fare policy decisions should be discussed: 1) how to increase fares and 2) when to increase fares. Four different fare proposals are contained in the attached presentation with each proposal generating $\$ 109$ million.

## NEXT STEPS

To proceed, the Board of Directors will review and consider a fare policy.

# Fare Policy and Proposal Consideration 

## Presented to the Board of Directors:

Finance, Administration and Oversight Committee

September 27, 2007

## Consideration of Fare Policy

Two primary fare policy decisions:

1. How to increase fares:
a. Proportional fare changes
b. Market-based fare changes
II. When to increase fares:
a. As needed (budgetary response)
b. Calendar (annual, semi, etc)
c. Indexed (ratios, economic indicators)

## Consideration of Fare Policy

I. How to increase fares:

Two policy directions to use when setting fares -
a. Proportional fare increases
b. Market-based fare increases

- These policy directions tend to conflict with each other
- It is possible to blend some aspects of each
- Each policy direction has pros and cons
- There is no "right way" or "wrong way"


## Consideration of Fare Policy

I a. Proportional fare increases

Description All fare elements are increased at the same percentage rate regardless of customer willingness or ability to pay

Example $\$ 1.35$ rail fare increases $19 \%$ to $\$ 1.60$ $\$ 1.25$ bus fare increases 20\% to \$1.50
Pros

- Very easy for customers to understand
- Minimizes barriers to entry (complicated fares cause customers to seek other travel options)
- Maintains current equity (city/ suburban) (bus/ rail)


## Cons

- Ridership impact tends to be greatest on low income
- Generates less revenue (more subsidy) per rider
- Maximizes ridership losses


## Consideration of Fare Policy

## I b. Market-based fare increases

Description Customer willingness or ability to pay determines which fares change and by how much

Customers who do not want to pay the increase are replaced by new customers who will pay

Example Peak/ Off-peak rail fares
Pros

- Generates less subsidy (more revenue) per rider
- Minimizes ridership losses
- Maximizes use of limited bus and rail system capacity

Cons

- Complicated to explain, except point-to-point fares
- Creates shifting bus/ rail/ city/ suburban


## Consideration of Fare Policy

## Other variable is "elasticity"

- Elasticity is a measure that determine how many riders stop taking transit when fares are increased
- Simple, valid economic theory, but nearly impossible to measure in real life
- Simpson-Curtin rule of thumb: 10 percent fare increase will cause 3 percent of
 riders to leave transit
- Metro's experience has been nowhere near this dramatic
- Current metro fare models assume much less elasticity and varies the elasticity by day, time of day, and distance traveled
- It's still just an assumption

Consideration of Fare Policy
II. When to increase fares:
a. As needed (budgetary response)
b. Calendar (annual, semi, etc)
c. Indexed (ratios, economic indicators)

Consideration of Fare Policy
11. When to increase fares:
a. As needed (budgetary response)
> Seems to be transit practice nationwide
> Metro has long history of multi-year gaps, then large increases
> Often a result of some economic downturn
> Pressure to increase fares just when customers can least afford it
> Limited time to discuss/ debate policy implications

## Consideration of Fare Policy

11. When to increase fares:
b. Calendar based
$>$ Very easy for customer planning and budgeting
> Would result in smaller, repeating fare increases
$>$ Not tied to economic ups and downs
> Process driven rather than policy or issue driven
> Can be annual, semi-annual, or more often
> Shorter time frames increase administrative costs

## Consideration of Fare Policy

11. When to increase fares:
c. I ndex triggered
> Pre-set policy determines timing (optionally, amount)
> Multiple index methods can be combined to balance various policy considerations

Examples of index methods:

- Constant subsidy growth index
- Economic growth index
- Constant cost recovery index

Consideration of Fare Policy

Subsidy growth index
$>$ Has guided metro budget and fare policy in recent years
> Annual "Board Guidance" with targeted subsidy increase ceilings
> Blue Ribbon panel recommendations
Brookings institute report GAO recommendations
> Good at linking Metro's budget to jurisdictional budgets
$>$ Least common denominator budgeting (J urisdiction that can afford the least controls the process)

Consideration of Fare Policy

Economic growth index
> CPI Consumer Price Index is a common measure of inflation used to judge budget growth
$>$ CPI measures household inflation - not transit
$>$ Metro cost growth more akin to airlines, trucking, shipping - Labor intensive, energy dependent
> Household market basket vs. transportation market basket
$>$ Metro Transportation I ndex is estimated at twice CPI Still being developed
> Cannot account for budget impact such as one-time-only actions

Consideration of Fare Policy

Constant cost-recovery index
$>$ Cost recovery is ratio of revenue/ costs (i.e., How much of the budget is paid for by revenue versus jurisdictional assistance)
$>$ FY08 cost recovery is 57 percent
57 percent of the budget is funded by revenue (fares, advertising, etc)
43 percent is funded by local taxes (property tax, gasoline taxes, etc)
> Ratio has remained relatively constant over many years
$>$ Balance of who pays for Metro remains unchanged

Consideration of Fare Policy

Combined index example:
Economic index (Metro transportation index) sets guideline on annual budgeted cost growth
and

Constant-cost recovery index determines when a fare increase is implemented to maintain public policy balance of who pays (taxpayer/ rider)

## Consideration of Fare Policy

## Matrix of Fare I ncrease Policy Choices:



Consideration of Fare Policy

## Recommendations

1. I mplement a proportional fare increase
2. Adopt a policy of indexing future fare increases using the Metro transportation index and constant cost recovery index
3. I mplement as soon as possible to allow for smallest possible fare increase

## Consideration of Fare Proposals

- Four different fare proposals
- Each proposal generates \$109 million
- Variables -

I mplementation date and ridership loss assumptions


|  |  |  | Current |  | e Increa | proposa |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Fare | A | B | C | D |
| Rail | Peak | Boarding | \$1.35 | $\begin{array}{r} \$ 0.20 \\ 15 \% \end{array}$ | $\begin{array}{r} \$ 0.25 \\ 19 \% \end{array}$ | $\begin{array}{r} \$ 0.35 \\ 26 \% \end{array}$ | $\begin{array}{r} \$ 0.40 \\ 30 \% \end{array}$ |
|  |  | Max Fare | \$3.90 | $\begin{array}{r} \$ 0.60 \\ 15 \% \end{array}$ | $\begin{array}{r} \$ 0.60 \\ 15 \% \end{array}$ | $\begin{array}{r} \$ 1.10 \\ 28 \% \end{array}$ | $\begin{gathered} \$ 1.25 \\ 32 \% \end{gathered}$ |
|  | Off-peak | Boarding | \$1.35 | $\begin{array}{r} \$ 0.20 \\ 15 \% \end{array}$ | $\begin{array}{r} \$ 0.25 \\ 19 \% \end{array}$ | $\begin{array}{r} \$ 0.35 \\ 26 \% \end{array}$ | $\begin{gathered} \$ 0.35 \\ 26 \% \end{gathered}$ |
|  |  | Max Fare | \$2.35 | $\begin{gathered} \$ 0.20 \\ 9 \% \end{gathered}$ | $\begin{array}{r} \$ 0.25 \\ 11 \% \end{array}$ | $\begin{gathered} \$ 0.35 \\ 15 \% \end{gathered}$ | $\begin{gathered} \$ 0.35 \\ 15 \% \end{gathered}$ |
| Bus | Regular | Boarding | \$1.25 | $\begin{gathered} \$ 0.25 \\ 20 \% \end{gathered}$ | $\begin{gathered} \$ 0.25 \\ 20 \% \end{gathered}$ | $\begin{array}{r} \$ 0.25 \\ 20 \% \end{array}$ | $\begin{array}{r} \$ 0.25 \\ 20 \% \end{array}$ |
|  | Express | Boarding | \$3.00 | $\begin{array}{r} \$ 0.60 \\ 20 \% \end{array}$ | $\begin{array}{r} \$ 0.60 \\ 20 \% \end{array}$ | $\begin{array}{r} \$ 0.60 \\ 20 \% \end{array}$ | $\begin{array}{r} \$ 0.60 \\ 20 \% \end{array}$ |
|  | Passes | 1-Day | \$3.00 | eliminate | eliminate | eliminate | eliminate |
|  |  | Weekly | \$11.00 | $\begin{array}{r} \$ 2.00 \\ 18 \% \end{array}$ | $\begin{array}{r} \$ 2.00 \\ 18 \% \end{array}$ | $\begin{array}{r} \$ 2.00 \\ 18 \% \end{array}$ | $\begin{array}{r} \$ 2.00 \\ 18 \% \end{array}$ |
| Parking (most common) |  | Daily | \$3.50 | $\begin{array}{r} \$ 0.50 \\ 14 \% \end{array}$ | $\begin{array}{r} \$ 0.50 \\ 14 \% \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.50 \\ 14 \% \end{array}$ | $\begin{array}{r} \$ 0.50 \\ 14 \% \end{array}$ |
| Assumed Ridership Loss (million annual trips) |  |  |  | $\begin{gathered} (17) \\ -2.3 \% \end{gathered}$ | $\begin{gathered} (22) \\ -3.6 \% \end{gathered}$ | $\begin{gathered} (18) \\ -3.7 \% \end{gathered}$ | $\begin{gathered} (22) \\ -5.2 \% \\ \hline \end{gathered}$ |

## Appendix

## Budget Unknowns:

- 6.5 percent subsidy increase is not guaranteed J urisdictional budgets have not yet been developed
- Many large variables in Metro's budget remain unknown Labor negotiations, claims cost, energy inflation, etc.
- Regional I ssues such as the US Military Base Realignment and Closings
- Economic downturns in housing and property value

Appendix

## Consideration of Fare Proposals

## Proposal A

I mplementation: J anuary 2008
Minimal Ridership Loss Assumption

| Proposal A = \$109.991 Million |  |  | Old Fare | New Fare |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Selected Fares: |  |  |  |  | Fare Change |  |
|  |  |  |  |  |  |  |
| Rail | Peak | Boarding | \$1.35 | \$1.55 | \$0.20 | 15\% |
|  |  |  | \$3.90 | \$4.50 | \$0.60 | 15\% |
|  | Off-peak | Boarding | \$1.35 | \$1.55 | \$0.20 | 15\% |
|  |  | Max Fare | \$2.35 | \$2.55 | \$0.20 | 9\% |
| Bus | Regular <br> Express <br> Passes | Boarding Boarding 1-Day Weekly | \$1.25 | \$1.50 | \$0.25 | 20\% |
|  |  |  | \$3.00 | \$3.60 | \$0.60 | 20\% |
|  |  |  | \$3.00 | eliminate |  |  |
|  |  |  | \$11.00 | \$13.00 | \$2.00 | 18\% |
| Parking |  | Daily | \$varies | \$varies | \$0.50 | varies |

## Consideration of Fare Proposals

## Proposal B

## I mplementation: J anuary 2008

Traditional Ridership Loss Assumption

| Proposal B = \$109.205 Million |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Selected Fares: |  |  | Old | New | Fare Change |  |
|  |  |  | Fare | Fare |  |  |
| Rail | Peak | Boarding <br> Max Fare | \$1.35 | \$1.60 | \$0.25 | 19\% |
|  |  |  | \$3.90 | \$4.50 | \$0.60 | 15\% |
|  | Off-peak | Boarding | \$1.35 | \$1.60 | \$0.25 | 19\% |
|  |  | Max Fare | \$2.35 | \$2.60 | \$0.25 | 11\% |
| Bus | Regular <br> Express <br> Passes | Boarding <br> Boarding 1-Day <br> Weekly | \$1.25 | \$1.50 | \$0.25 | 20\% |
|  |  |  | \$3.00 | \$3.60 | \$0.60 | 20\% |
|  |  |  | \$3.00 | eliminate |  |  |
|  |  |  | \$11.00 | \$13.00 | \$2.00 | 18\% |
| Parking |  | Daily | \$varies | \$varies | \$0.50 | varies |

## Consideration of Fare Proposals

## Proposal C

## I mplementation: J uly 2008 <br> Minimal Ridership Loss Assumption

| Proposal C = \$109.058 Million |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Selected Fares: |  |  | Old | New | Fare Change |  |
|  |  |  | Fare | Fare |  |  |
| Rail | Peak | Boarding <br> Max Fare <br> Boarding <br> Max Fare | \$1.35 | \$1.70 | \$0.35 | 26\% |
|  |  |  | \$3.90 | \$5.00 | \$1.10 | 28\% |
|  | Off-peak |  | \$1.35 | \$1.70 | \$0.35 | 26\% |
|  |  |  | \$2.35 | \$2.70 | \$0.35 | 15\% |
| Bus | Regular <br> Express <br> Passes | Boarding <br> Boarding <br> 1-Day <br> Weekly | \$1.25 | \$1.50 | \$0.25 | 20\% |
|  |  |  | \$3.00 | \$3.60 | \$0.60 | 20\% |
|  |  |  | \$3.00 | eliminate |  |  |
|  |  |  | \$11.00 | \$13.00 | \$2.00 | 18\% |
| Parking |  | Daily | \$varies | \$varies | \$0.50 | varies |

## Consideration of Fare Proposals

## Proposal D

## I mplementation: J uly 2008 <br> Traditional Ridership Loss Assumption

| Proposal D = \$108.942 Million |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Selected Fares: |  |  | Old | New | Fare Change |  |
|  |  |  | Fare | Fare |  |  |
| Rail | Peak | Boarding <br> Max Fare | \$1.35 | \$1.75 | \$0.40 | 30\% |
|  |  |  | \$3.90 | \$5.15 | \$1.25 | 32\% |
|  | Off-peak | Boarding | \$1.35 | \$1.70 | \$0.35 | 26\% |
|  |  | Max Fare | \$2.35 | \$2.70 | \$0.35 | 15\% |
| Bus | Regular <br> Express <br> Passes | Boarding <br> Boarding 1-Day <br> Weekly | \$1.25 | \$1.50 | \$0.25 | 20\% |
|  |  |  | \$3.00 | \$3.60 | \$0.60 | 20\% |
|  |  |  | \$3.00 | eliminate |  |  |
|  |  |  | \$11.00 | \$13.00 | \$2.00 | 18\% |
| Parking |  | Daily | \$varies | \$varies | \$0.50 | varies |

