False Promises: Light Rail Reduces Congestion

Does Rail Reduce Congestion-1?

From the Oregonian october 29, 1998 (just after the Westside lineopened): The debate about ridership on westside l ight rail and its effect on traffic continued Wednesday, with Tri-Met saying it has attracted 1,773 new bus and rail riders in the westside corridor

Tri-Met based its number on a count of buu riders between 6 and 9 a.m. on an average of five mornings in October 1997 compared with a similar count of bus and rail riders this month in the same corridor. The agencys transportation consultants counted 3,642 riders both directions in October 1997 and 5,415 this month.

Analysis: This is a real count, not a projection and is from the transit gency itself

Ridershipwent from 3,642 to 5,415 an increase of 1773. Of the 5.415 total transitusers, 3,642 (**67%**) were previous transitusers and 1773 (33%) were not. Typicallylightraillineshave more riders in the firstmonthdue to the hoopla surrounding heiropening and before some riders realize that, for them, the <u>railis actuallyworse</u> than the bus that it replaced so this number of new riders is probably an ABSOLUTEMAXIMUM Conclusions

- 1. Trimetfound that, over a three hour period, 1773 people were removed from the freeway for a total of 591 people per hour.
- 2. A freewaylane has a capacity of around 1800 cars per hour.
- 3. 591 people would occupy 492 cars at 1.2 people per car.
- 4. 492/1800 = 0.27, or about 1/4 of one lane of freeway capacity.
- 5. MAX removed ONE-QUARTER OF ONE LANE worthof traffic from the Sunset duringrush hour.

Does Rail Reduce Congestion-2?

A TrimetFactSheet (year 2006, 8 years after the Westside lineopened) claimsthat:

• "Westside MAX provides the transportation capacity equivalent to another 1.2 lanes in each direction on the Sunset Hwy."

Conclusion

- 1. 2/3 of MAX riders would be on a bus if MAX had not been built(as shown above: "Of the 5.415 total transitusers, 3,642 (67%) were previous transit users...")
- 2. ThereforeMAX carries a number of people equal to 1/3 of the number of people on 1.2 lanes of the freeway. $1/3 \times 1.2 = 40\%$ The number of cars removed is 40% of one lane/ 1.3 people per car = 31% of one lane of US-26
- 3. MAX only reduces traffic by 31% of one lane of freeway, according to Trimet's own data.

Comment

- 1. Those 3 lanes of the Sunset, also carry trucks and buses along with a share of commuter sequal to MAX.
- 2. 18 milesof MAX cost \$963 millionor \$53.5 millioner route mileof double track (\$26.75 millioner track-mile).
- 3. Freeways typicallycost \$5-10 milliopper lane-mile
- 4. The cost was 267% -535% that of a freewaylane for removing31% of one freewaylane of traffic- **a cost of 950% 1900% above that of a freeway per usefulness**.

Does Rail Reduce Congestion-3?

The <u>Portland'VancouverI-5 Transportation and Trade Partnership</u>used 18% and 31% as the percentage of railriders that would be in cars if lightrailwasn't built <u>See here for the method used</u>.

Conclusion:

The above two methods produce answers consistent with the <u>PortlandVancouverI-5 Transportation and Trade</u> <u>Partnership</u> and we can be fairly confident that Portlands MAX only removes less than 1/3 of one lane worthof traffic from a three lane freeway. LRT costs about 10-19 as much as freways for the same capacity.

Final Conclusion: LIGHT RAIL COSTS TOO MUCH AND DOES TOO LITTLE

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