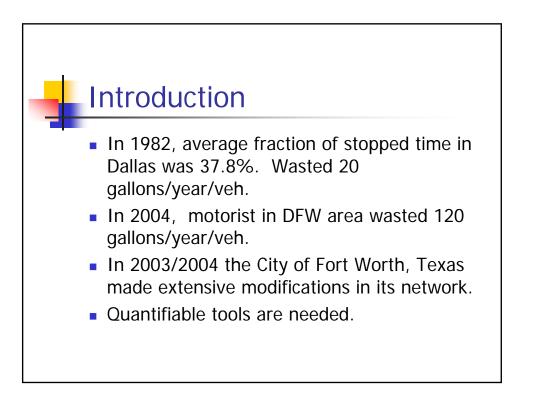
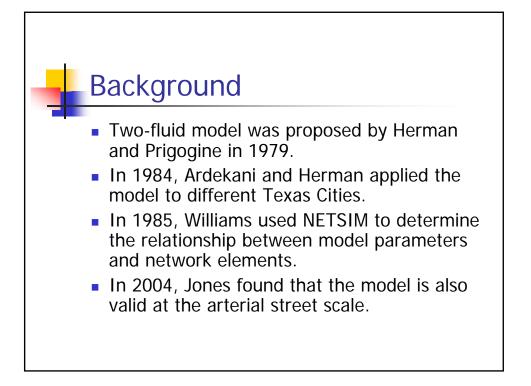
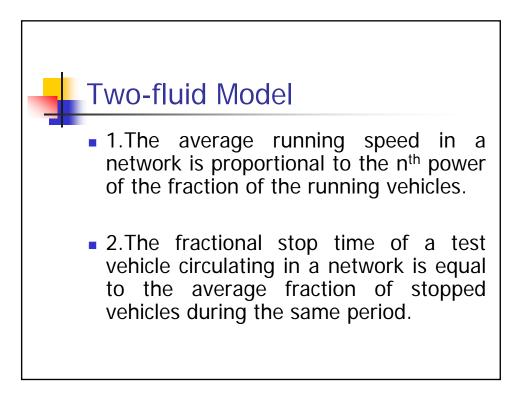
Comparison of the Quality of Service in Arlington, Dallas, Fort Worth CBD-A Two Fluid Model Approach

Stephen P. Mattingly, Phong Vo, Siamak Ardekani, Yasmin Dilshad The University of Texas at Arlington TexITE Winter Meeting 2007

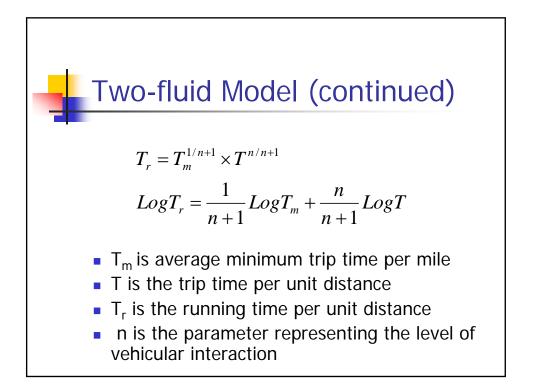


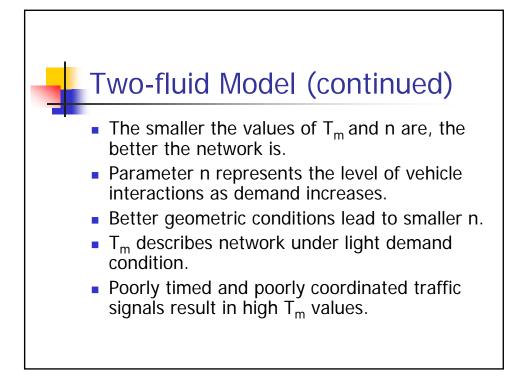




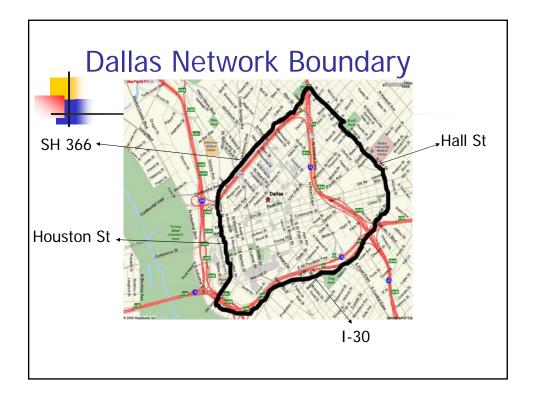
**Two-fluid Model (continued)**  

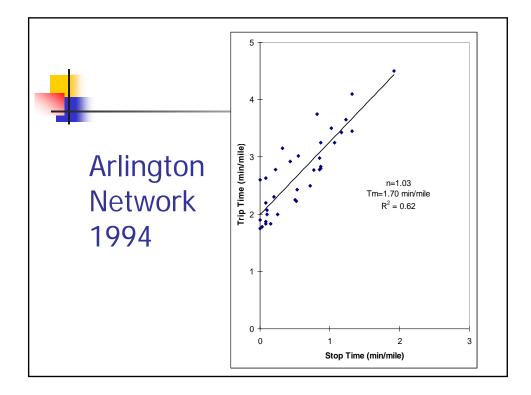
$$V_r = V / f_r = V_m f_r^n = V_m (1 - f_s)^n$$
  
 $f_s = T_s / T$   
 $T_m = 1 / V_m$ 

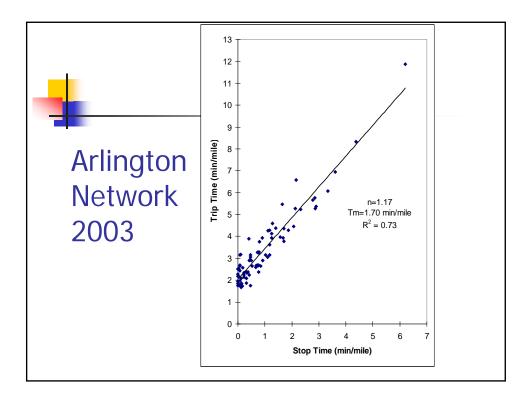


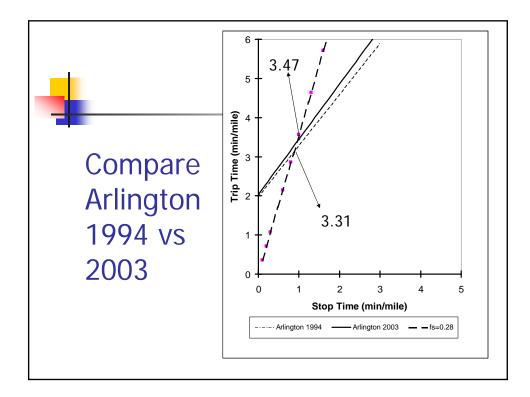


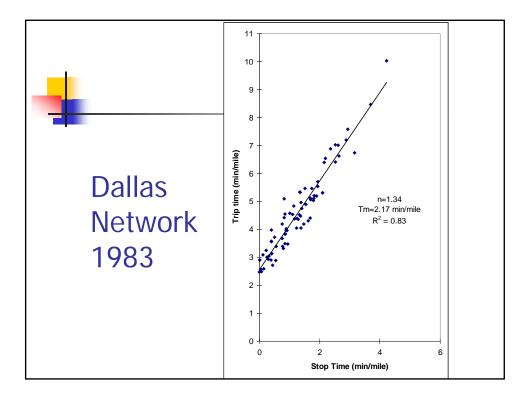
D	ata u	ses			
Arlington		Dallas		Fort Wort	h
Previous	New	Previous	New	Previous	New
1994	2003	1983	2003	1999	2004

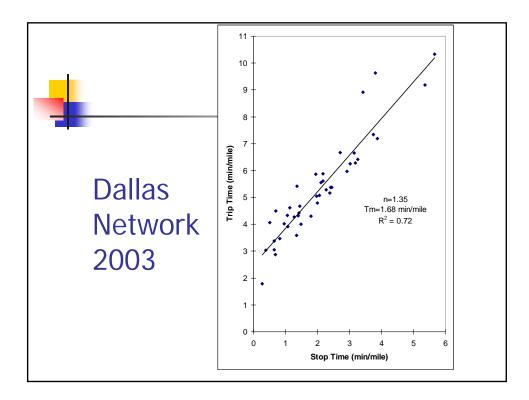


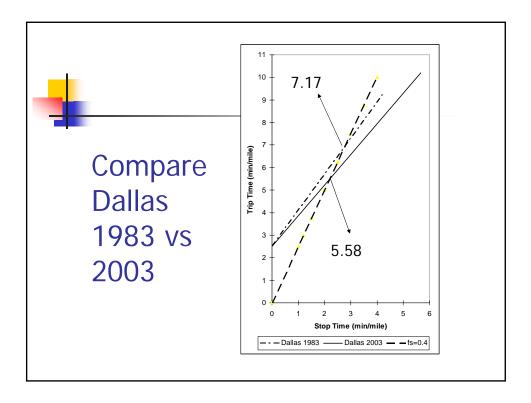


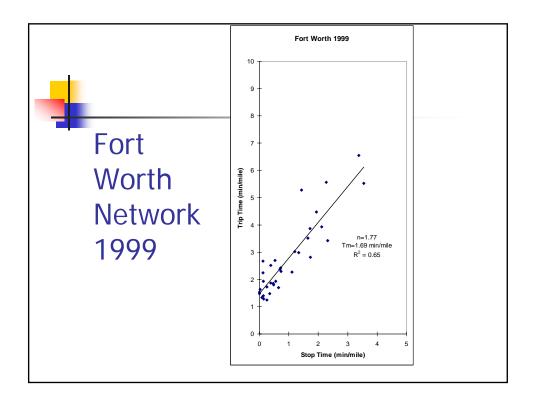


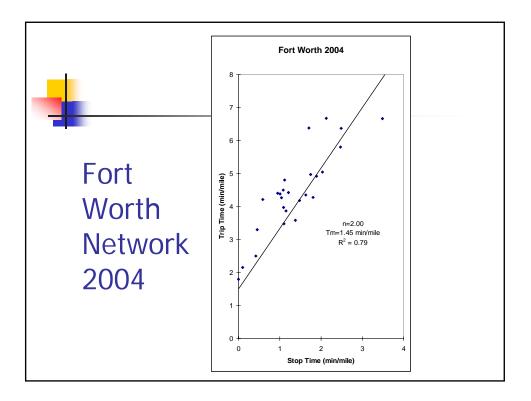


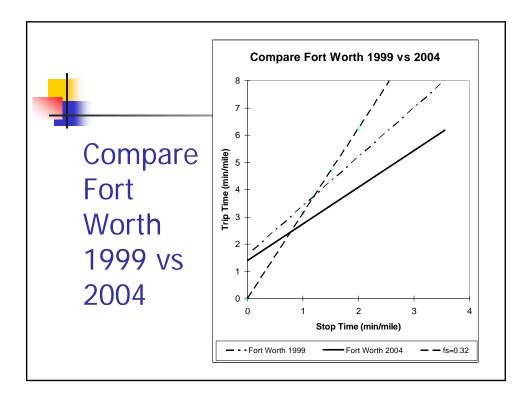












ımm	nary	of Re	esul	ts
Network	Year	T <sub>m</sub> (min/mile)	n	V <sub>m</sub> (mph)
Arlington	1994	1.70	1.03	35
Arlington	2003	1.70	1.17	35
Dallas	1983	2.17	1.34	28
Dallas	2003	1.68	1.35	36
Fort Worth	1999	1.69	1.77	36
Fort Worth	2004	1.45	2.00	41

