

TABLE 4D13 ELASTICITIES OF DEMAND FOR PUBLIC TRANSPORT TICKETS IN STOCKHOLM CALCULATED USING VARIOUS MODELS

<i>Variables</i>	<i>Elasticity</i>		
	<i>Linear model</i>	<i>Box-Cox model</i>	<i>Box-Cox auto-regressive model</i>
<i>Utility and petrol price</i>			
Non-linear price index	0.057	0.148	0.100
Real petrol price	0.150	0.150	0.190
<i>Activity variables</i>			
Employment activity ("empact")	0.276	0.209	0.342
Shopping act. ("rretail") & rretail/Empl	0.109	0.156	0.135
Population act. ("Pop. per employed")	0.225	0.688	0.684
Vacation activity	0.017	0.022	-0.007
P.T. strike dummy Apr-May 1980	-0.068	-0.067	-0.097
Labour market strike dummy Oct 1986	-0.044	-0.053	-0.043
<i>Car competition & road network data</i>			
No. of cars in use	-0.799		
Car usage (vehicle-km) per "empact"		-0.040	0.096
New road link dummy	0.175	0.119	0.067
<i>Public Transport supply</i>			
No of P.T. vehicle-kilometres	0.167	0.289	0.072
<i>Public Transport events</i>			
Gullmarsplan bus terminal, May-90	-0.059	-0.074	-0.058
City bus terminal, March-89	-0.117	-0.113	-0.115
Metro ext. Öst.m.torg- KTH, Oct-73	0.082	0.040	0.109
Metro ext. KTH-univ & Fittja-N:bg, J-75	-0.017	-0.017	0.012
Metro ext. Hallonberg:n-Akalla, Jun-77	-0.077	-0.079	-0.06
Metro ext. TC-Kungsträdgåden Nov-77	0.068	0.040	0.036
Metro ext. Univ-Mörby, Feb-78	-0.028		
Metro ext. V.Skogen-Rinkeby, Aug-85	0.023		
Metro ext. to Skarpnäck, Aug-94	0.018		
<i>Validity rules</i>			
Summer card introduction dummy	0.110		
Seasonal card introduction dummy	-0.024		
Subscription bonus introduction dummy	-0.067		
Off-peak fare 1993 dummy	0.024		
Stockholm Water festival dummy	0.072	0.089	0.080
<i>Climate data</i>			
Temperature	-0.017	-0.012	-0.023
Number of sun-hours per month	-0.016	-0.005	-0.022
Rainfall or snowfall per month	-0.005	-0.002	-0.006
Number of days with snow per month	-0.011	-0.008	-0.009
Number of days with rain per month	-0.018	-0.017	-0.010
Cold winter + neg. temperature and >40mm snow	-0.007	-0.009	-0.005
Month for first snow	0.016	0.015	0.017
<i>Calender data</i>			
Number of work-days per month	0.083	0.083	0.007
Number of free-days per month	-0.020	-0.013	-0.031

Source Tegnér & Holmberg (1998, table 4, pp. 284-285).