Impacts of the Alphaville Ride Sharing Tax Proposal

Data

Original price 20 price0
Tax 2 tax

Alphaville Survey

HPopulation100,000200,000popPer capita income80,00027,000incomePer capita rides5030quant0

Betatown Data

Impacts of the Alphaville Ride Sharing Tax Proposal

Analysis

New price with tax	price1 = price0 + tax

Per capita impacts

	Н	L	
Initial spending on rides			spend0 = price0*quant0
Change in Q			q_change = quant0*pct_change
New Q			quant1 = quant0 + q_change
New spending			spend1 = price1*quant1
Tax revenue			rev = tax*quant1
Effective tax rate			etr = rev/income

Community impacts

	Н	L	Total	_
Initial rides				rides0 = pop*quant0
New rides				rides1 = pop*quant1
Percent change				pct_tot = (rides1-rides0)/rides0
Tax revenue				rev_tot = pop*rev

Impacts of the Alphaville Ride Sharing Tax Proposal

Analysis

New price with tax

22

price1 = price0 + tax

Per capita impacts

Н

Н

L

Initial spending on rides

Change in Q

New Q

New spending

Tax revenue

Effective tax rate

600	1,000
-3	-10
27	40
594	880
54	80
0.2%	0.1%

spend0 = price0*quant0

q change = quant0*pct change

quant1 = quant0 + q_change

spend1 = price1*quant1

rev = tax*quant1

etr = rev/income

Community impacts

L

Total

Initial rides

New rides

Percent change

Tax revenue

5,000,000	6,000,000	11,000,000
4,000,000	5,400,000	9,400,000
-20.0%	-10.0%	-14.5%
8,000,000	10,800,000	18,800,000