MDP-DPR604	Name:	Travel Cost Worksheet
Sahan T. M. Dissanayake Creating a Travel Cost Dei	mand Function	12/1/2015
C		0
Based on http://www.ecosystemvaluation.org/travel_costs.htm		Change this to 1 to propagate values
INSTRUCTIONS		
Fill in table 1 to calculate the visits per 1000 people from each zone		
Fill in table 2 to calculate the total travel costs		
Summarize the travel costs/trip and visists/1000 in Table 3		
We can run a regression on table 3 to find the 'a' and 'b' from		
visits/1000 = a + b*travel cost		
I give you the results for this equation		
Complete table 4 by pluging in the new travel cost into the		
regression equation to calculate the number of visits/1000		

Summarize the travel cost and total visits in table 5

Plot the results

Zone	Total	Zone	Visits/1000
	Visits/Year	Population	
0	250	1000	0
1	700	3500	0
Total Visits	0		

Table 1: Visitor Information

Travel cost (\$/mile) \$0.50
Wage (\$/hr) 30 Wage (\$/min) 0.5

Zone	Round Trip Travel Distance	Round Trip Travel Time	Distance times Cost/Mile (\$0.50)	Travel Time times Cost/Minute (\$0.50)	Total Travel Cost/Trip
0	5	10	\$0.00	0	0
1	10	20	0	0	0

Table 2: Travel Cost Calculation

Zone	Visits/1000	Total Travel Cost/Trip
0	0	0
1	0	0

Table 3: Data for Regression

Regression Requation

Visits/1000 = constant + coef*Total Travel Cost per Trip

(NOTE: We ignore demographic variables and other factors)

Visits/1000 = 0.00 + Total Travel Cost per Trip * 0.00

SUMMARY OUTPUT

atistics
1
1
65535
0
2

ANOVA

	df	SS	MS	F
Regression	1	1250	1250	#NUM!
Residual	0	0	65535	
Total	1	1250		

	Coefficienttanda	t Stat	P-value	
Intercept	300	0	65535	#NUM!
X Variable 1	-6.6667	0	65535	#NUM!

Visits/1000 =

0.00 + Total Travel Cost per Trip *

0.00

Visits/1000 = 300 +Total Travel Cost per Trip* -6.6667
The equation you need
Visits/1000 = 0.00 +Total Travel Cost per Trip* 0.00

Added Travel Cost

\$10

Zone	Travel Cost	Visits/1000	Population	Total Visits
	plus \$10			
0	0	0.00	1000	0.00
1	0	0.00	3500	0.00
			Total Visits	0.00

Table 4A: \$10 Added Travel Cost

Added Travel Cost

\$20

Zone	Travel Cost	Visits/1000	Population	Total Visits
	plus \$20			
0	0	0.00	1000	0.00
1	0	0.00	3500	0.00
			Total Visits	0.00

Table 4B: \$20 Added Travel Cost

Added Travel Cost

\$30

Zone	Travel Cost	Visits/1000	Population	Total Visits
	plus \$30			
0	0	0.00	1000	0.00
1	0	0.00	3500	0.00
			Total Visits	0.00

Table 4C: \$30 Added Travel Cost

Added Travel Cost

\$40

Zone	Travel Cost	Visits/1000	Population	Total Visits
	plus \$40			
0	0	0.00	1000	0.00
1	0	0.00	3500	0.00
			Total Visits	0.00

Table 4D: \$40 Added Travel Cost

Added Travel Cost	Total Visits
	0.00
	0.00
20	0.00
	0.00
40	0.00

Table 5: Added Travel Costs vs Visits

