



ARIZONA DEPARTMENT OF TRANSPORTATION

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AN EVALUATION OF ALTERNATIVE ECONOMIC INDUCEMENTS TO RIDESHARING FOR THE ARIZONA COMMUTER

Volume III: Appendices

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16. Abstract A report is offered on a study of the relative effectiveness of alternative inducements to ridesharing in the Phoenix and Tucson metropolitan areas. The objectives are to provide evidence on the efficacy of a broad range of incentives and to establish a clearly defined methodology for such assessment. The study was conducted in three phases: I. Comprehensive inventory of ridesharing incentives currently employed in metropolitan areas across the country, from which a group of incentives appropriate to the Arizona study areas were selected for further analysis. II. Surveys of both commuters and their employers were conducted. For commuters, information on present commuting arrangements, demographic and economic characteristics and general attitudes and perceptions of ridesharing, along with the conjoint analysis procedure designed to determine the effect of incentives upon ridesharing likelihood was gathered. Employer opinions about ridesharing, the acceptability or feasibility of each incentive, and the perceived effect on their employees were also gathered. III. A market segmentation methodology was first developed to categorize commuters based on behavioral indicators. Statistical estimation of each incentive's effect by segment was then performed. Finally, comparison of segments both within and between study areas was performed. Volume I, 68 pages, contains Project Overview. Volume II, 54 pages, contains Research Methodology.					
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AN EVALUATION OF ALTERNATIVE ECONOMIC
INDUCEMENTS TO RIDESHARING FOR THE ARIZONA COMMUTER

TABLE OF CONTENTS

VOLUME I

Project Overview and Findings

	<u>Page Number</u>
EXECUTIVE SUMMARY.....	1
INTRODUCTION.....	8
Study Scope and Objectives.....	10
METHOD OF STUDY.....	12
Phase I.....	12
Phase II.....	13
Phase III.....	19
FINDINGS.....	23
Identification of Ridesharing Incentives.....	23
Market Segmentation Analysis.....	34
Impact of Incentives on Commuter Ridesharing Intentions.....	41
Employer Feasibility and Effectiveness.....	55
CONCLUSIONS.....	59

AN EVALUATION OF ALTERNATIVE ECONOMIC
INDUCEMENTS TO RIDESHARING FOR THE ARIZONA COMMUTER

TABLE OF CONTENTS

VOLUME 2

Research Methodology

	<u>Page Number</u>
INTRODUCTION.....	1
PHASE I.....	1
Definition of Terms.....	2
Research Objectives.....	3
Administration of Questionnaire.....	4
PHASE II.....	5
Employee/Commuter Survey.....	5
Employer Survey.....	8
Sampling Design and Questionnaire Administration.....	10
PHASE III.....	11
Development of Segmentation Scheme.....	12
Estimation of Incentive Impacts.....	17
SUMMARY.....	23
APPENDIX A.....	24
APPENDIX B.1.....	31
APPENDIX B.2.....	43

An Evaluation of Alternative Economic
Inducements to Ridesharing
for the Arizona Commuter

TABLE OF CONTENTS

VOLUME 3

APPENDICES

	<u>Page Number</u>
APPENDIX C	
Detailed Tabulations of Phoenix Commuter Survey	1
APPENDIX D	
Detailed Tabulations of Tucson Commuter Survey	18
APPENDIX E	
Detailed Tabulations of Phoenix and Tucson Employer Survey	35

An Evaluation of Alternative Economic
Inducements to Ridesharing
for the Arizona Commuter

LIST OF TABLES

VOLUME 3

<u>Table Number</u>	<u>Title</u>	<u>Page Number</u>
<u>APPENDIX C: Detailed Tabulations of Phoenix Commuter Survey</u>		
C1	Demographic/Economic Profiles of Phoenix Respondent Groups ...	1
C2	Characteristics of the Journey-to-Work: Phoenix Sample	2
C3	Weekly Pattern of Modes Used to Commute to Work: Phoenix Sample	3
C4	Daily Activity Patterns Having an Impact on Ridesharing: Phoenix Sample	4
C5	Structure of Car/Van Pools: Phoenix Sample	6
C6	Overall Satisfaction with Current Commuting Arrangements: Phoenix Sample	7
C7	Sources of Dissatisfaction with Current Commuting Arrangements: Phoenix Sample	8
C8	Phoenix Commuters' Attitudes Toward Ridesharing	9
C9	Opinions About Ridesharing: Phoenix Sample	10
C10	General Attitudes Toward Ridesharing	12
C11	Likelihood of Ridesharing During the Next 12 Months: Phoenix Sample	13
C12	Bus Rider Satisfaction: Phoenix Sample	14
C13	Car/Van Pooler Satisfaction: Phoenix Sample	15
C14	Socio-Economic Profiles of Target Market Segments: Phoenix Non-Ridesharers	16
C15	Sources of Dissatisfaction with Current Commuting Arrangements: Phoenix Non-Ridesharers	17

<u>Table Number</u>	<u>Title</u>	<u>Page Number</u>
-------------------------	--------------	------------------------

APPENDIX D: Detailed Tabulations of Tucson Commuter Survey

D1	Demographic/Economic Profiles of Tucson Respondent Groups	18
D2	Characteristics of the Journey-to-Work: Tucson Sample	19
D3	Weekly Pattern of Modes Used to Commute to Work: Tucson Tucson Sample	20
D4	Daily Activity Patterns Having an Impact on Ridesharing: Tucson Sample	21
D5	Structure of Car/Van Pools: Tucson Sample	23
D6	Overall Satisfaction with Current Commuting Arrangements: Tucson Sample	24
D7	Sources of Dissatisfaction with Current Commuting Arrangements: Tucson Sample	25
D8	Tucson Commuters' Attitudes Toward Ridesharing	26
D9	Opinions About Ridesharing: Tucson Sample	27
D10	General Attitudes Toward Ridesharing: Tucson Sample	29
D11	Likelihood of Ridesharing During the Next 12 Months: Tucson Sample	30
D12	Bus Rider Satisfaction: Tucson Sample	31
D13	Car/Van Pooler Satisfaction: Tucson Sample	32
D14	Socio-Economic Profiles of Target Market Segments: Tucson Non-Ridesharers	33
D15	Sources of Dissatisfaction with Current Commuting Arrangements: Tucson Non-Ridesharers	34

APPENDIX E: Detailed Tabulations of Phoenix and Tucson Employer Survey

E1	Characteristics of Responding Organizations: Phoenix and Tucson	35
E2	Organizational Support for Ridesharing	36
E3	Current Implementation of Ridesharing Incentive Programs by by Respondent Organizations	37
E4	Increase in Likelihood of Adoption of Selected Incentive Programs Due to Employers' Cost Reimbursement	38

TABLE C1

Demographic/Economic Profiles of Phoenix Respondent Groups

Characteristics	Non-Ridesharers	Bus-Riders	Poolers
<u>Age</u>			
Under 25	6.7%	9.1%	12.5%
25 to 34	39.4	18.2	25.0
35 to 44	31.7	45.5	30.0
45 to 54	12.5	18.2	15.0
54 and over	<u>9.6</u>	<u>9.1</u>	<u>17.5</u>
	100.0%	100.0%	100.0%
<u>Sex</u>			
Male	59.6%	36.4%	47.5%
Female	<u>40.4</u>	<u>63.6</u>	<u>52.5</u>
	100.0%	100.0%	100.0%
<u>Marital Status</u>			
Married	58.7%	63.6%	67.5%
Single	16.3	27.3	15.0
Separated or Divorced	23.1	9.1	15.0
Widowed	<u>1.9</u>	<u>0.0</u>	<u>2.5</u>
	100.0%	100.0%	100.0%
<u>Education</u>			
Non High School Graduate	4.8%	9.1%	7.5%
High School Graduate	23.1	36.4	32.5
1 - 3 Years of College	43.3	36.4	50.0
College Graduate	14.4	0.0	10.0
Post Graduate Work	<u>14.4</u>	<u>18.2</u>	<u>0.0</u>
	100.0%	100.0%	100.0%
<u>Occupation</u>			
Professionals	21.4%	0.0%	10.0%
Managers or Administrators	34.0	27.3	22.5
Sales	0.0	0.0	5.0
Clerical & Support Staff	23.3	72.7	40.0
Craftsmen	8.7	0.0	12.5
Assembly or Line Workers	1.0	0.0	7.5
Laborers	1.9	0.0	0.0
Service Workers	<u>9.7</u>	<u>0.0</u>	<u>2.5</u>
	100.0%	100.0%	100.0%
<u>Household Income</u>			
Less than \$10,000	1.0%	9.1%	0.0%
\$10,000 to \$19,999	18.6	18.2	27.5
\$20,000 to \$29,999	28.4	36.4	22.5
\$30,000 to \$39,999	16.7	9.1	30.0
\$40,000 to \$49,999	16.7	18.2	12.5
\$50,000 and over	<u>18.6</u>	<u>9.1</u>	<u>7.5</u>
	100.0%	100.0%	100.0%
Number of Respondents	111	11	40

TABLE C2

Characteristics Of The Journey-to-Work: Phoenix Sample

Characteristics	Non-Ridershares	Bus-Riders	Poolers
<u>Travel Time</u>			
Less than 5 minutes	2.7%	0.0%	0.0%
5 to 15 minutes	23.6	0.0	9.8
16 to 30 minutes	43.6	18.2	46.3
31 to 45 minutes	20.9	36.4	34.1
46 to 60 minutes	4.5	36.4	4.9
More than 1 hour	<u>4.5</u>	<u>9.1</u>	<u>4.9</u>
	100.0%	100.0%	100.0%
<u>Distance (one-way)</u>			
Less than 1 mile	2.9%	0.0%	0.0%
1 to 5 miles	26.9	0.0	19.4
6 to 10 miles	22.1	54.5	19.4
11 to 15 miles	22.1	18.2	22.2
16 to 25 miles	19.2	27.3	37.8
26 to 35 miles	3.8	0.0	8.3
More than 35 miles	<u>2.9</u>	<u>0.0</u>	<u>2.8</u>
	100.0%	100.0%	100.0%
<u>Type of Parking at Work Place</u>			
Public lot or garage	3.7%	-	7.9%
Pay lot or garage	23.9	-	26.3
Employer-Owner lot or garage	63.3	-	47.4
On the street	5.5	-	7.9
Other	1.8	-	5.3
Do not park	<u>1.7</u>	<u>-</u>	<u>5.3</u>
	100.0%	-	100.0%
<u>Payment For Parking At Work Place</u>			
Respondent pays all	38.9%	-	19.4%
Employer pays all	5.3	-	6.5
Employer pays part	4.2	-	12.9
Cost shared with other poolers	-	-	12.9
Other	2.1	-	3.2
Parking is free	<u>49.5</u>	<u>-</u>	<u>45.2</u>
	100.0%	-	100.0%

TABLE C3

Weekly Pattern Of Modes Used To Commute To Work:
Phoenix Sample

<u>Mode</u>	<u>Number of Days per Week Mode is Used</u> <u>(Percentage of Respondents)</u>						
	<u>0 Days</u>	<u>1 Day</u>	<u>2 Days</u>	<u>3 Days</u>	<u>4 Days</u>	<u>5 Days</u>	<u>6 days</u>
Drive Car/Truck Alone	25.2%	8.0	3.7	1.2	1.8	58.9	1.2
Carpool/Vanpool	72.4%	1.2	1.2	2.5	6.1	16.6	--
Bus	91.4%	0.6	--	1.8	1.2	4.9	--
Motorcycle	98.8%	0.6	--	--	--	0.6	--
Bicycle	98.2%	--	--	1.2	0.6	--	--
Taxi	100.0%	--	--	--	--	--	--
Walk	99.4%	--	0.6	--	--	--	--
Other	98.8%	--	0.6	0.6	--	--	--
Combination of Modes	100.0%	--	--	--	--	--	--

Classification of
Respondents by Main
Mode of Commuting

	<u>Number</u>	<u>Percent of Total</u>
Non-Ridesharers	111	68.1%
Bus Riders	11	6.7
Poolers	<u>41</u>	<u>25.1</u>
Total	163	100.0%

TABLE C4

Daily Activity Patterns Having An Impact
On Ridesharing: Phoenix Sample

<u>Activity Pattern Characteristic</u>	<u>Percentage of Respondents</u>	
	<u>Non-Ridesharers</u>	<u>Poolers</u>
<u>Average Number of Days Respondent's Car is Used During Work Hours</u>		
0 Days per Week	43.2%	43.9%
1 Day per Week	21.6	26.8
2 Days per Week	10.8	14.6
3 Days per Week	13.5	7.3
4 Days per Week	1.8	4.9
5 Days per Week	9.0	2.4
	100%	100%
Mean Days per Week:	1.36	1.10
<u>Reason(s) Car is Used During Work Hours</u>		
For Work-Related Activities	27.0%	21.9%
To Get a Meal or Snack	39.6	31.7
To Pick Up a Few Grocery Items	12.6	9.8
To Pick Up Another Person	0.9	7.3
To Shop for Clothes	6.3	12.2
To Go to Another Job or School	1.8	7.3
To Run Errands	38.7	43.1
<u>Average Number of Days Stops Are Made On The Way To and From Work</u>		
0 Days per Week	18.0%	26.8%
1 Day per Week	22.5	29.3
2 Days per Week	23.4	17.1
3 Days per Week	18.0	7.3
4 Days per Week	6.3	12.2
5 Days per Week	10.8	7.3
6 Days per Week	0.9	-
	100%	100%
Mean Days per Week:	2.08	1.71

Continued

Table C4 (Continued)

<u>Activity Pattern Characteristic</u>	<u>Percentage of Respondents</u>	
	<u>Non-Ridesharers</u>	<u>Poolers</u>
<u>Reason(s) Stops Are Made</u>		
To Get a Meal or Snack	22.5	22.0
To Pick Up a Few Grocery Items	46.8	39.0
To Pick Up Another Person	6.3	26.8
To Shop for the Week's Groceries	9.0	17.1
To Shop for Clothes	12.6	12.2
To Go to Another Job or School	7.2	4.9
To Run Errands	48.6	43.9
Number of Respondents:	111	41

TABLE C5

Structure of Car/Van Pools: Phoenix Sample

Characteristic	Percentage
Size of Pool	
<u>(Including Respondent)</u>	
2 Persons	63.4%
3 Persons	9.8
4 Persons	14.6
5 Persons	4.9
6 or More Persons	7.3
	<hr/> 100%
Mean Size of Pools	3.17 persons
<u>Type of Pool</u>	
All Poolers Work at the Same Site.	68.3%
Poolers Work at More Than One Site.	31.7
	<hr/> 100%
<u>Number of Days per Month Respondent Drives for the Pool</u>	
0 Days	22.0%
1 to 10 Days	17.1
11 to 15 Days	7.3
16 to 20 Days	31.7
21 to 25 Days	17.1
26 Days or More	4.9
	<hr/> 100%
<u>Reimbursement Policy in the Pool</u>	
Others Pay Respondent	27.5%
Respondent Shares Expenses	40.0
No Money is Transferred	32.5
	<hr/> 100%
Number of Respondents:	41

TABLE C6

Overall Satisfaction With Current Commuting Arrangements:

Phoenix Sample

Satisfaction with Current Commuting Arrangement	Percentage of Respondents		
	Non-Ridesharers	Bus Riders	Poolers
"Delighted"	13.0%	0.0%	23.1%
"Pleased"	31.0	9.1	35.9
"Mostly Satisfied"	35.0	54.5	23.1
"Mixed (About Equally) Satisfied and Dissatisfied"	8.0	18.2	10.3
"Mostly Dissatisfied"	6.0	9.1	5.1
"Unhappy"	3.0	9.1	2.6
"Terrible"	4.0	0.0	0.0
	100.0%	100.0%	100.0%
Number of Respondents	100	11	39
	<u>Non-Ridesharers</u>	<u>Bus-Riders</u>	<u>Poolers</u>
Satisfaction Mean ^a	5.12	4.46	5.54

^a Mean of Responses by Respondent Group Based on "Terrible" = 1, "Unhappy" = 2, "Mostly Dissatisfied" = 3, "Mixed" = 4, "Mostly Satisfied" = 5, "Pleased" = 6, "Delighted" = 7.

Table C7
Sources of Dissatisfaction with Current
Commuting Arrangements: Phoenix Sample

Potential source of Dissatisfaction	Percentage Distributions on 0 to 4 Rating Scale					Mean Rating on 0-4 Scale	Number of Respondents
	0	1	2	3	4		
<u>Worksite Parking</u>							
Non-Ridesharers	65.7%	8.3	8.3	6.5	11.1	0.89	108
Poolers	53.7%	19.5	7.3	4.9	14.6	1.07	41
<u>Road Congestion</u>							
Non-Ridesharers	11.1%	15.7	25.9	17.6	29.6	2.39	103
Bus Riders	20.0%	-	10.0	10.0	60.0	2.90	0
Poolers	9.8%	19.5	14.6	22.0	34.1	2.51	41
<u>Trip Duration</u>							
Non-Ridesharers	37.6%	20.2	16.5	10.1	15.6	1.46	109
Bus Riders	10.0%	20.0	40.0	30.0	-	1.90	10
Poolers	9.8%	19.5	14.6	22.0	34.1	2.51	41
<u>Other (Individually Specified)</u>							
Non-Ridesharers	9.5%	-	4.8	28.6	57.1	3.24	21
Bus Riders	-	-	-	25.0	75.0	3.75	4
Poolers	20.0%	-	-	20.0	60.0	3.00	10

^a Expressed on a 5-point scale with 0 = "Not at all Botherome" to 4 = "Very Botherome."

TABLE C8

Phoenix Commuters' Attitudes Toward
Ridesharing

<u>Attitudes Toward Ridesharing^a</u>	<u>Non- Ridesharers</u>	<u>Bus Riders</u>	<u>Poolers</u>	<u>All Respondents</u>
Generally Unfavorable	22.9%	0.0%	4.9%	16.8%
Neutral or Mixed	41.0	22.2	14.6	32.9
Generally Favorable	32.4	66.7	63.4	42.6
Highly Favorable	<u>3.8</u>	<u>11.1</u>	<u>17.1</u>	<u>7.7</u>
	100.0%	100.0%	100.0%	100.0%
Number of Respondents:	105	9	41	155

^a Based on 9 item ridesharing attitude scale

TABLE C9
Opinions About Ridesharing: Phoenix Sample

Opinion Statements	Mean Response ^a		
	Non-Ridesharers	Bus Riders	Poolers
"Compared to driving alone...			
...Ridesharing is safer."	2.96	3.40	3.29
...Ridesharing is a faster way to get to and from work."	2.30	2.80	2.56
...Ridesharing saves money."	4.10	4.50	4.37
...Ridesharing makes the ride to and from work more relaxing."	3.14	3.80	3.76
...Ridesharing reduces pollution."	4.10	4.40	4.10
...Ridesharing reduces the strain of commuting."	3.50	4.00	3.61
...Ridesharing reduces traffic congestion."	4.14	4.20	4.37
...Ridesharing gets you home from work when expected."	2.97	3.30	3.44
...Ridesharing is convenient."	2.82	3.60	3.68
...Ridesharing saves energy."	4.12	4.44	4.27
...Ridesharing gives you a chance to be with friends or coworkers."	3.64	3.80	3.90
...Ridesharing is the 'right' thing to do."	3.29	3.70	3.71
...Ridesharing provides more personal security."	2.92	3.50	3.39

Continued

^a Expressed on a 5-point scale with 5 = "strongly agree", 4 = "agree", 3 = "neither agree nor disagree", 2 = "disagree", 1 = "strongly disagree."

TABLE C9 (Continued)

Opinion Statements	Mean Response ^a		
	Non-Ridesharers	Bus Riders	Poolers
"Compared to driving alone...			
...Ridesharing makes the vehicle too crowded."	3.19	3.50	3.76
...Ridesharing is not a reliable way to get to work."	3.12	4.00	3.76
...Ridesharing prevents you from doing errands or shopping on the way."	2.08	2.00	2.49
...Ridesharing increases the likelihood of being late for work."	2.73	3.10	3.10
...Ridesharing is more expensive than driving my own car."	3.80	3.60	4.12
...Ridesharing makes you wait."	2.42	3.10	2.93
...Ridesharing doesn't give you enough space for your packages."	3.13	3.10	3.49
...Ridesharing is not fashionable in most social circles."	3.28	3.60	3.49
...Ridesharing is a nuisance to arrange."	2.74	2.80	3.27
...Ridesharing doesn't allow the flexibility of setting your own work schedule."	2.15	2.30	2.56
...Ridesharing is really sort of a bother."	2.54	3.00	3.27
...Ridesharing can be aggravating."	2.30	2.40	2.59
...Ridesharing would increase my exposure to smoking."	2.83	2.60	3.34
Number of Respondents:	108	10	41

^a Expressed on a 5-point scale with 5 = "strongly agree", 4 = "agree", 3 = "neither agree nor disagree", 2 = "disagree", 1 = "strongly disagree."

TABLE C10

General Attitudes Toward Ridesharing:

Phoenix Sample

Attitude	Percentage Distribution of Overall Impressions of Ridesharing (Based on 7-Point Scale)							Mean Rating on 1-7 Scale	Number of Respondents	
Ridesharing is ...	[Bad]	<-----+----->						[Good]		
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>			
Non-Ridesharers	1.0	1.0	5.7	24.8	21.9	21.9	23.8	5.27	105	
Bus Riders	0.0	0.0	0.0	0.0	12.5	50.0	37.5	6.25	8	
Poolers	0.0	0.0	5.1	2.6	12.8	28.2	51.3	6.18	38	
Ridesharing is ...	[Foolish]	<-----+----->						[Wise]		
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>			
Non-Ridesharers	0.0	1.0	3.9	26.5	25.5	21.6	21.6	5.28	102	
Bus Riders	0.0	0.0	0.0	25.0	0.0	25.0	50.0	6.00	8	
Poolers	0.0	0.0	5.3	5.3	5.3	31.6	52.6	6.21	38	
Ridesharing is ...	[Undesirable]	<---+--->						[Desirable]		
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>			
Non-Ridesharers	7.8	6.9	12.7	35.3	13.7	10.8	12.7	4.24	102	
Bus Riders	0.0	0.0	0.0	12.5	50.0	12.5	25.0	5.50	8	
Poolers	2.6	2.6	5.3	5.3	23.7	28.9	31.6	5.58	38	

TABLE C11

Likelihood of Ridesharing During the Next 12 Months:

Phoenix Sample

<u>Percentage Likelihood</u>	<u>Percentage of Respondents</u>		
	Non-Ridesharers	Bus Riders	Poolers
0%	36.9%	11.1%	7.3%
10	30.1	33.3	2.4
20	9.7	-	2.4
30	2.9	-	2.4
40	3.9	11.1	2.4
50	5.8	11.1	2.4
60	2.9	-	2.4
70	2.9	11.1	-
80	2.9	-	9.8
90	1.0	11.1	14.6
100	<u>1.0</u>	<u>11.1</u>	<u>53.7</u>
	100.0%	100.0%	100.0%
Number of Respondents	103	9	41
Mean Likelihood	18.3%	42.2%	79.8%

TABLE C12

Bus Rider Satisfaction:

Phoenix Sample

Pooling Experiences	Percentage of Poolers
<u>Feelings About Pooling Experiences</u>	
"Delighted"	0.0%
"Pleased"	27.3
"Mostly Satisfied"	45.5
"Mixed"	18.2
"Mostly Dissatisfied"	0.0
"Unhappy"	9.1
"Terrible"	<u>0.0</u>
	100.0%
Number of Respondents:	11
<u>Bus Rider Experiences Have Been</u>	
"Much better than expected"	27.3%
"Slightly better than expected"	27.3
"About as expected"	45.7
"Slightly worse than expected"	0.0
"Much worse than expected"	<u>0.0</u>
	100.0%
Number of Respondents:	35

TABLE C13

Car/Van Pooler Satisfaction:

Phoenix Sample

Pooling Experiences	Percentage of Poolers
<u>Feelings About Pooling Experiences</u>	
"Delighted"	12.5%
"Pleased"	40.0
"Mostly Satisfied"	32.5
"Mixed"	10.0
"Mostly Dissatisfied"	0.0
"Unhappy"	2.5
"Terrible"	<u>2.5</u>
	100.0%
Number of Respondents:	40
<u>Car/Van Pooling Experiences Have Been</u>	
"Much better than expected"	45.7%
"Slightly better than expected"	8.6
"About as expected"	45.7
"Slightly worse than expected"	0.0
"Much worse than expected"	<u>0.0</u>
	100.0%
Number of Respondents:	35

TABLE C14

Socio-Economic Profiles Of Target Market Segments:

Phoenix Non-Ridesharers

Characteristics	All Non-Ridesharers	Target Market Segment			
		A	B	C	D
<u>Sex</u>					
Male	59.6%	75.0%	54.2%	50.0%	56.3%
Female	<u>40.4</u>	<u>24.0</u>	<u>45.8</u>	<u>50.0</u>	<u>48.8</u>
	100.0%	100.0%	100.0%	100.0%	100.0%
<u>Age</u>					
Under 35	46.1%	16.7%	54.2%	33.3%	56.3%
35 to 44	31.7	50.0	25.0	50.0	18.8
45 and Over	<u>22.1</u>	<u>33.3</u>	<u>20.8</u>	<u>16.7</u>	<u>25.1</u>
	100.0%	100.0%	100.0%	100.0%	100.0%
<u>Education</u>					
No College	27.9%	8.3%	37.5%	33.3%	37.6%
1 to 3 Yrs. of College	43.3	58.8	45.8	41.7	18.8
College Graduate	<u>288.8</u>	<u>33.3</u>	<u>16.6</u>	<u>25.0</u>	<u>43.8</u>
	100.0%	100.0%	100.0%	100.0%	100.0%
<u>Total Household Income</u>					
Less than \$20,000	19.6%	8.3%	25.0%	25.0%	12.6%
\$20,000 - \$39,999	45.1	25.0	50.0	41.7	50.6
\$40,000 or more	<u>35.3</u>	<u>66.7</u>	<u>25.0</u>	<u>33.3</u>	<u>37.6</u>
	100.0%	100.0%	100.0%	100.0%	100.0%
Number of Respondents:	104	12	24	12	16

TABLE C15

Satisfaction With Current Commuting Arrangements:

Phoenix Non-Ridesharers

Aspect of Commuting	Mean Rating of "Bothersomeness" Target Market Segment			
	A	B	C	D
Worksite Parking	0.75	0.76	0.86	1.25
Road Congestion	2.42	2.12	2.57	2.50
Trip Length	1.33	1.64	1.29	1.56
Number of Respondents:	12	25	14	16

^a Expressed on a 5-point scale with 0 = "Not at all Bothersome" and
4 = "Very Bothersome"

TABLE D1
Demographic/Economic Profiles of Tucson Respondent Groups

Characteristics	Non-Ridesharers	Bus-Riders	Poolers
<u>Age</u>			
Under 25	2.9%	0.0%	6.5%
25 to 34	35.9	20.0	30.6
35 to 44	36.9	20.0	33.9
45 to 54	18.4	20.0	17.7
54 and over	<u>5.9</u>	<u>40.0</u>	<u>11.3</u>
	100.0%	100.0%	100.0%
<u>Sex</u>			
Male	33.0%	20.0%	48.4%
Female	<u>67.0</u>	<u>80.0</u>	<u>51.6</u>
	100.0%	100.0%	100.0%
<u>Marital Status</u>			
Married	66.0%	80.0%	66.1%
Single	15.5	10.0	22.6
Separated or Divorced	16.5	10.0	8.1
Widowed	<u>1.9</u>	<u>0.0</u>	<u>3.2</u>
	100.0%	100.0%	100.0%
<u>Education</u>			
Non High School Graduate	2.9%	0.0%	1.6%
High School Graduate	20.4	40.0	19.4
1 - 3 Years of College	42.7	40.0	35.5
College Graduate	19.4	10.0	21.0
Post Graduate Work	<u>14.6</u>	<u>10.0</u>	<u>22.6</u>
	100.0%	100.0%	100.0%
<u>Occupation</u>			
Professionals	30.6%	10.0%	50.8%
Managers or Administrators	24.5	10.0	9.8
Sales	10.2	20.0	3.3
Clerical & Support Staff	26.5	60.0	32.8
Craftsmen	3.1	0.0	1.6
Assembly or Line Workers	3.1	0.0	1.6
Laborers	2.0	0.0	0.0
Service Workers	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
	100.0%	100.0%	100.0%
<u>Household Income</u>			
Less than \$10,000	6.1%	11.1%	1.7%
\$10,000 to \$19,999	16.3	11.1	12.1
\$20,000 to \$29,999	25.5	44.4	32.8
\$30,000 to \$39,999	19.4	11.1	25.9
\$40,000 to \$49,999	17.3	22.2	19.0
\$50,000 and over	<u>15.3</u>	<u>0.0</u>	<u>8.6</u>
	100.0%	100.0%	100.0%
Number of Respondents	103	10	65

TABLE D2

Characteristics of the Journey-to-Work: Tucson Sample

Characteristics	Non-Ridesharers	Bus-Riders	Poolers
<u>Travel Time</u>			
Less than 5 minutes	4.5%	0.0%	1.6%
5 to 15 minutes	32.7	10.0	1.6
16 to 30 minutes	39.1	30.0	40.6
31 to 45 minutes	20.9	40.0	40.6
46 to 60 minutes	2.7	20.0	14.1
More than 1 hour	<u>0.0</u>	<u>0.0</u>	<u>1.6</u>
	100.0%	100.0%	100.0%
<u>Distance (one-way)</u>			
Less than 1 mile	2.8%	11.1%	0.0%
1 to 5 miles	21.7	11.1	5.1
6 to 10 miles	31.1	11.1	6.8
11 to 15 miles	17.9	11.1	8.5
16 to 25 miles	19.8	44.4	45.8
26 to 35 miles	4.7	11.1	18.6
More than 35 miles	<u>1.9</u>	<u>0.0</u>	<u>15.3</u>
	100.0%	100.0%	100.0%
<u>Type of Parking at Work Place</u>			
Public lot or garage	15.9%	-	6.5%
Pay lot or garage	3.7	-	0.0
Employer-Owner lot or garage	71.0	-	90.3
On the street	2.8	-	1.6
Other	5.6	-	0.0
Do not park	<u>0.9</u>	<u>-</u>	<u>1.6</u>
	100.0%	-	100.0%
<u>Payment For Parking At Work Place</u>			
Respondent pays all	16.0%	-	0.0%
Employer pays all	0.0	-	0.0
Employer pays part	0.0	-	0.0
Cost shared with other poolers	-	-	0.0
Other	4.9	-	10.6
Parking is free	<u>79.0</u>	<u>-</u>	<u>89.4</u>
	100.0%	-	100.0%

TABLE D3

Weekly Pattern of Modes Used to Commute to Work:

Tucson Sample

Mode	Number of Days per Week Mode is used (Percentage of Respondents)							
	0 Day	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
Drive Car /Truck Alone	32.8%	3.7	4.2	2.1	7.9	47.1	1.6	0.5
Carpool /Vanpool	65.1%	1.6	0.5	4.8	6.9	21.2	-	-
Bus	94.2%	-	-	0.5	1.6	3.7	-	-
Motorcycle	100.0%	-	-	-	-	-	-	-
Bicycle	98.0%	1.0	-	0.5	-	0.5	-	-
Taxi	100.0%	-	-	-	-	-	-	-
Walk	99.5%	0.5	-	-	-	-	-	-
Other	100.0%	-	-	-	-	-	-	-
Combination of Modes	100.0%	-	-	-	-	-	-	-

Classification of
Respondents by Main
Mode of Commuting

	Number	Percent of Total
Non-Ridesharers	114	60.3%
Bus Riders	10	5.3
Poolers	65	34.4
Total	189	100.0%

TABLE D4

Daily Activity Patterns Having An Impact
On Ridesharing: Tucson Sample

<u>Activity Pattern Characteristic</u>	<u>Percentage of Respondents</u>	
	<u>Non-Ridesharers</u>	<u>Poolers</u>
<u>Average Number of Days Respondent's Car is Used During Work Hours</u>		
0 Days per Week	53.5%	70.8%
1 Day per Week	21.9	16.9
2 Days per Week	7.9	10.8
3 Days per Week	7.9	1.5
4 Days per Week	-	-
5 Days per Week	7.9	-
6 Days per Week	0.9	-
	100%	100%
Mean Days per Week:	1.06	0.43
<u>Reason(s) Car is Used During Work Hours</u>		
For Work-Related Activities	22.8%	16.9%
To Get a Meal or Snack	28.1	20.0
To Pick Up a Few Grocery Items	9.6	7.7
To Pick Up Another Person	4.4	6.2
To Shop for Clothes	1.8	3.12
To Go to Another Job or School	6.1	6.2
To Run Errands	26.3	13.8
<u>Average Number of Days Stops Are Made On The Way To and From Work</u>		
0 Days per Week	16.7%	49.2%
1 Day per Week	20.2	20.0
2 Days per Week	25.4	12.3
3 Days per Week	19.3	7.7
4 Days per Week	5.3	3.1
5 Days per Week	12.3	7.7
6 Days per Week	0.9	-
	100%	100%

Continued

TABLE D4 (Continued)

<u>Activity Pattern Characteristic</u>	<u>Percentage of Respondents</u>	
	<u>Non-Ridesharers</u>	<u>Poolers</u>
<u>Reason(s) Stops Are Made</u>		
To Get a Meal or Snack	22.8	13.8
To Pick Up a Few Grocery Items	51.8	24.6
To Pick Up Another Person	10.5	32.3
To Shop for the Week's Groceries	16.7	7.7
To Shop for Clothes	7.0	1.5
To Go to Another Job or School	12.3	4.6
To Run Errands	57.0	26.2
Number of Respondents:	114	65

TABLE D5

Structure of Car/Van Pools: Tucson Sample

Characteristic	Percentage
<u>Size of Pool</u> (Including Respondent)	
2 Persons	42.2%
3 Persons	6.3
4 Persons	23.4
5 Persons	12.5
6 or More Persons	15.6
	<hr/> 100%
Mean Size of Pools	3.86 persons
<u>Type of Pool</u>	
All Poolers Work at the Same Site.	90.6%
Poolers Work at More Than One Site.	9.4
	<hr/> 100%
<u>Number of Days per Month Respondent Drives for the Pool</u>	
0 Days	21.0%
1 to 10 Days	21.0
11 to 15 Days	6.5
16 to 20 Days	29.0
21 to 25 Days	11.3
26 Days of More	11.3
	<hr/> 100%
<u>Reimbursement Policy in the Pool</u>	
Others Pay Respondent	3.1%
Respondent Shares Expenses	14.1
No Money is Transferred	82.8
	<hr/> 100%
Number of Respondents:	64

TABLE D6

Overall Satisfaction With Current Commuting Arrangements:

Tucson Sample

Percentage of Respondents Who Feel:	<u>Non-Ridesharers</u>	<u>Bus Riders</u>	<u>Poolers</u>
"Delighted"	26.9%	11.1%	20.0%
"Pleased"	23.7	22.2	30.0
"Mostly Satisfied"	24.7	55.6	31.7
"Mixed (About Equally) Satisfied and Dissatisfied"	14.0	11.1	16.7
"Mostly Dissatisfied"	5.4	0.0	1.7
"Unhappy"	3.2	0.0	0.0
"Terrible"	2.2	0.0	0.0
	-----	-----	-----
	100.0%	100.0%	100.0%
 Total Respondents:	 93	 9	 60
	<u>Non-Ridesharers</u>	<u>Bus-Riders</u>	<u>Poolers</u>
Satisfaction Mean*	5.34	5.33	5.50

* Mean of Responses by Respondent Group Based on Terrible = 1, Unhappy = 2, Mostly Dissatisfied = 3, Mixed = 4, Mostly Satisfied = 5, Pleased = 6, Delighted = 7.

Table D7
Sources of Dissatisfaction with Current
Commuting Arrangements: Tucson Sample

Potential Source of Dissatisfaction	Percentage Distributions on 0 to 4 Rating Scale				Mean Rating on 0-4 Scale	Number of Respondents
	0	1	2	3		
<u>Worksite Parking</u>						
Non-Ridesharers	6.6%	13.4	8.0	5.4	11.6	112
Poolers	83.1%	7.7	-	1.5	7.7	65
<u>Road Congestion</u>						
Non-Ridesharers	17.0%	12.5	20.5	24.1	25.9	112
Bus Riders	28.6%	-	-	-	71.4	7
Poolers	21.8%	15.4	29.2	23.1	10.8	65
<u>Trip Duration</u>						
Non-Ridesharers	41.1%	19.6	17.0	9.8	12.5	112
Bus Riders	42.9%	-	-	14.3	42.9	7
Poolers	29.2%	18.5	26.2	10.8	15.4	65
<u>Other (Individually Specified)</u>						
Non-Ridesharers	25.9%	-	3.7	11.1	59.3	27
Bus Riders	-	-	-	50.0	50.0	2
Poolers	12.5%	-	12.5	37.5	37.5	8

a Expressed on a 5-point scale with 0= "Not at all Bothersome" to 4= "Very Bothersome."

TABLE D8

Tucson Commuters' Attitudes Toward
Ridesharing

Attitudes Toward Ridesharing ^a	Non- Ridesharers	Bus Riders	Poolers	All Respondents
Generally Unfavorable	29.6%	22.2%	3.2%	20.1%
Neutral or Mixed	40.7	22.2	16.1	31.3
Generally Favorable	24.1	33.3	53.2	34.6
Highly Favorable	<u>5.6</u>	<u>22.2</u>	<u>27.4</u>	<u>14.0</u>
	100.0%	100.0%	100.0%	100.0%
Number of Respondents:	108	9	62	179

^a Based on 9 item ridesharing attitude scale

TABLE D9

Opinions About Ridesharing: Tucson Sample

Opinion Statements	Mean Response ^a		
	Non-Ridesharers	Bus Riders	Poolers
"Compared to driving alone...			
...Ridesharing is safer."	2.98	3.11	3.52
...Ridesharing is a faster way to get to and from work."	2.11	2.44	2.42
...Ridesharing saves money."	4.05	4.11	4.43
...Ridesharing makes the ride to and from work more relaxing."	3.00	3.78	3.78
...Ridesharing reduces pollution."	4.07	4.44	4.11
...Ridesharing reduces the strain of commuting."	3.40	4.00	3.86
...Ridesharing reduces traffic congestion."	4.14	4.40	4.29
...Ridesharing gets you home from work when expected."	3.08	3.30	3.22
...Ridesharing is convenient."	2.75	3.78	3.61
...Ridesharing saves energy."	4.16	4.44	4.40
...Ridesharing gives you a chance to be with friends or coworkers."	3.64	3.44	3.87
...Ridesharing is the 'right' thing to do."	3.31	3.22	3.76
...Ridesharing provides more personal security."	3.12	3.11	3.40

Continued

^a Expressed on a 5-point scale with 5 = "strongly agree", 4 = "agree", 3 = "neither agree nor disagree", 2 = "disagree", 1 = "strongly disagree."

Table D9 (Continued)

Opinion Statements	Mean Response ^a		
	Non-Ridesharers	Bus Riders	Poolers
"Compared to driving alone...			
...Ridesharing makes the vehicle too crowded."	3.33	3.67	3.69
...Ridesharing is not a reliable way to get to work."	3.12	3.22	4.14
...Ridesharing prevents you from doing errands or shopping on the way."	1.97	2.33	2.70
...Ridesharing increases the likelihood of being late for work."	2.75	3.78	3.34
...Ridesharing is more expensive than driving my own car."	3.63	3.89	4.30
...Ridesharing makes you wait."	2.32	2.89	2.84
...Ridesharing doesn't give you enough space for your packages."	3.10	3.44	3.54
...Ridesharing is not fashionable in most social circles."	3.37	3.44	3.49
...Ridesharing is a nuisance to arrange."	2.56	2.67	3.30
...Ridesharing doesn't allow the flexibility of setting you own work schedule."	2.06	2.33	2.62
...Ridesharing is really sort of a bother."	2.44	3.00	3.49
...Ridesharing can be aggravating."	2.30	2.56	2.75
...Ridesharing would increase my exposure to smoking."	2.65	2.89	3.68
Number of Respondents:	113	9	64

^a Expressed on a 5-point scale with 5 = "strongly agree", 4 = "agree", 3 = "neither agree nor disagree", 2 = "disagree", 1 = "strongly disagree."

TABLE D10

General Attitudes Toward Ridesharing:

Tucson Sample

Attitude	Percentage Distribution of Overall Impressions of Ridesharing (Based on 7-Point Scale)							Mean Rating on 1-7 Scale	Number of Respondents
Ridesharing is ...	[Bad]	←-----+----->					[Good]		
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>		
Non-Ridesharers	0.0	1.9	1.9	34.3	22.2	22.2	17.6	5.14	108
Bus Riders	0.0	0.0	0.0	14.3	14.3	0.0	71.4	6.29	7
Poolers	0.0	0.0	0.0	9.7	11.3	29.0	50.0	6.19	62
Ridesharing is ...	[Foolish]	←-----+----->					[Wise]		
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>		
Non-Ridesharers	0.0	0.9	0.0	26.9	27.8	26.9	17.6	5.32	108
Bus Riders	0.0	0.0	14.3	14.3	0.0	0.0	71.4	6.00	7
Poolers	0.0	0.0	1.6	4.8	16.1	29.0	48.4	6.18	62
Ridesharing is ...	[Undesirable]	←---+--->					[Desirable]		
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>		
Non-Ridesharers	9.3	11.1	6.5	31.5	14.8	11.1	15.7	4.28	108
Bus Riders	12.5	0.0	12.5	12.5	12.5	0.0	50.0	5.13	8
Poolers	1.6	1.6	1.6	8.2	19.7	26.2	41.0	5.85	61

TABLE D11

Likelihood of Ridesharing During the Next 12 Months:

Tucson Sample

Percentage Likelihood	Percentage of Respondents		
	Non-Ridesharers	Bus Riders	Poolers
0%	45.5%	66.7%	4.7%
10	28.6	-	-
20	8.0	-	-
30	0.9	-	3.1
40	2.7	-	1.6
50	8.0	11.1	4.7
60	-	-	3.1
70	0.9	-	1.6
80	1.8	-	10.9
90	0.9	-	28.1
100	<u>2.7</u>	<u>22.2</u>	<u>42.2</u>
	100.0%	100.0%	100.0%
Number of Respondents	112	9	64
Mean Likelihood	15.4%	27.8%	83.1%

TABLE D12

Bus Rider Satisfaction:

Tucson Sample

Pooling Experiences	Percentage of Poolers
<u>Feelings About Pooling Experiences</u>	
"Delighted"	10.0
"Pleased"	20.0
"Mostly Satisfied"	50.0
"Mixed"	10.0
"Mostly Dissatisfied"	10.0
"Unhappy"	0.0
"Terrible"	<u>0.0</u>
	100.0
Number of Respondents:	10
<u>Bus Riders Experiences Have Been</u>	
"Much better than expected"	30.0
"Slightly better than expected"	30.0
"About as expected"	20.0
"Slightly worse than expected"	20.0
"Much worse than expected"	<u>0.0</u>
	100.0%
Number of Respondents:	10

TABLE D13

Car/Van Pooler Satisfaction:

Tucson Sample

Pooling Experiences	Percentage of Poolers
<u>Feelings About Pooling Experiences</u>	
"Delighted"	24.6
"Pleased"	31.1
"Mostly Satisfied"	34.4
"Mixed"	9.8
"Mostly Dissatisfied"	0.0
"Unhappy"	0.0
"Terrible"	<u>0.0</u>
	100.0
Number of Respondents:	60
<u>Car/Van Pooling Experiences Have Been</u>	
"Much better than expected"	40.6
"Slightly better than expected"	9.4
"About as expected"	48.4
"Slightly worse than expected"	1.6
"Much worse than expected"	<u>0.0</u>
	100.0%
Number of Respondents:	64

TABLE D14

Socio-Economic Profiles Of Target Market Segments:

Tucson Non-Ridesharers

Characteristics	All Non-Ridesharers	Target Market Segment			
		A	B	C	D
<u>Sex</u>					
Male	33.0%	22.7%	43.8%	12.5%	42.1%
Female	<u>67.0</u>	<u>77.3</u>	<u>56.3</u>	<u>87.5</u>	<u>57.9</u>
	100.0%	100.0%	100.0%	100.0%	100.0%
<u>Age</u>					
Under 35	38.8%	40.9%	31.3%	50.0%	31.6%
35 to 44	36.9	45.5	43.8	37.5	26.3
45 and Over	<u>24.3</u>	<u>13.5</u>	<u>25.1</u>	<u>12.5</u>	<u>42.1</u>
	100.0%	100.0%	100.0%	100.0%	100.0%
<u>Education</u>					
No College	23.3%	27.3%	12.5%	22.5%	21.1%
1 to 3 Yrs. of College	42.7	40.9	43.8	62.5	42.1
College Graduate	<u>34.0</u>	<u>31.8</u>	<u>43.8</u>	<u>25.0</u>	<u>36.8</u>
	100.0%	100.0%	100.0%	100.0%	100.0%
<u>Total Household Income</u>					
Less than \$20,000	22.4%	19.0%	20.0%	12.5%	15.8%
\$20,000 - \$39,999	44.9	71.4	33.4	25.0	47.4
\$40,000 or more	<u>32.6</u>	<u>9.5</u>	<u>46.6</u>	<u>62.5</u>	<u>36.8</u>
	100.0%	100.0%	100.0%	100.0%	100.0%
Number of Respondents:	103	21	15	8	19

TABLE D15

Satisfaction With Current Commuting Arrangements:
Tucson Non-Ridesharers

<u>Aspect of Commuting</u>	Mean Rating of "Bothersomeness" <u>Target Market Segment</u>			
	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
Worksite Parking	1.17	0.63	0.50	1.00
Road Congestion	1.96	1.95	1.75	2.65
Trip Length	0.74	1.32	0.88	1.65
Number of Respondents:	23	19	8	20

^a Expressed on a 5-point scale with 0 = "Not at all Bothersome" and
4 = "Very Bothersome"

TABLE E1

Characteristics of Responding Organizations:

Phoenix and Tucson

Characteristics	Phoenix	Tucson
<u>Type of Organization</u>		
Manufacturing	11.1%	50.0%
Retailing	11.1	12.5
Education	22.2	25.0
General Offices	22.2	0.0
Mining	0.0	12.5
Government	<u>33.3</u>	<u>0.0</u>
	100.0%	100.0%
<u>Employee Size</u>		
Less than 200 employees	33.3%	25.0%
201 - 499	11.1	12.5
500 - 999	0.0	0.0
1000 - 1999	11.1	12.5
2000 - 4999	11.1	12.5
5000 and over	22.2	12.5
Not specified	<u>11.1</u>	<u>12.5</u>
	100.0%	100.0%
Number of Respondents:	9	8

TABLE E2

Organizational Support for Ridesharing

<u>Attitude Toward Ridesharing</u>	<u>Support for Ridesharing Evaluation Provided By Key Informant^a</u>	
	<u>Phoenix Employers</u>	<u>Tucson Employers</u>
Degree of Active Encouragement of Ridesharing	2.111	2.750
Degree of Support and Enthusiasm for Ridesharing	2.111	2.250
Perception of Benefit of Ridesharing to Organization	1.556	1.500
Perception of Benefit of Ridesharing to Employee	2.333	2.875
Degree of Favorability Toward Ridesharing by:		
Top Management	1.444	1.875
Middle/Lower Management	1.333	2.000
Remainder of Workforce	1.556	2.000
Number of Respondents:	9	8

^a Expressed on 11-point scale (+5 to -5) with +5 representing highest degree of favorability and zero representing neutrality.

TABLE E3

Current Implementation of Ridesharing Incentive Programs
by Respondent Organizations

<u>Ridesharing Incentive Program</u>	<u>Percentage of Employers Offering Program</u>	
	<u>Phoenix Employers</u>	<u>Tucson Employers</u>
<u>Parking</u>		
Parking lot for all employees	77.8%	75.0%
Reserved parking for ridesharers	22.2	25.0
Covered parking for ridesharers	0.0	0.0
Free parking for ridesharers	0.0	12.5
Reimbursement of ridesharers parking cost	11.1	0.0
<u>Transit</u>		
Employee discounts for transit use	11.1	25.0
Specially arranged transit stops	11.1	25.0
Express bus service	0.0	12.5
<u>Hours</u>		
Staggered work hours	44.4	27.5
Flexible work hours	33.3	25.0
<u>Ridesharing Programs</u>		
Ridematching service	88.9	50.0
Employee time off to arrange pooling	22.2	12.5
Company-owned vans provided	0.0	12.5
Direct ridesharing subsidies	11.1	0.0
Distribution of ridesharing literature	66.7	62.5
Number of Respondents:	9	8

TABLE E4

Increase in Likelihood of Adoption of Selected
Incentive Programs Due to Employers' Cost Reimbursement

<u>Ridesharing Incentive Program</u>	Number of Firms Showing Percent Increase in Likelihood of Adoption Due to Reimbursement of 1/2 of Employer's Costs							
	<u>.0%</u>	<u>.10%</u>	<u>.20%</u>	<u>.30%</u>	<u>.40%</u>	<u>.50%</u>	<u>.60%</u>	<u>.70%*</u>
<u>Phoenix Employers</u>								
Free Computerized Ridematching	4	1						
Full-Time Ridesharing Coordinator	6			1	1			
Vans Provided for Ridesharing	6	1			1			
One-half of Employee Commuting Costs Reimbursed	4	3	1		1			
All Commuting Costs Reimbursed	5	2				1		
<u>Tucson Employers</u>								
Free Computerized Ridematching	4		1	1				
Full-Time Ridesharing Coordinator	5		1					
Vans Provided for Ridesharing	5			1			1	1
One-half of Commuting Costs Reimbursed	5		1	1		1		
All Commuting Costs Reimbursed	5		1	1				

* 70% and higher.