MTC 2006 TRANSIT PASSENGER DEMOGRAPHICS SURVEY
BENICIA BREEZE AND RIO VISTA TRANSIT

Methodology Overview

The study was conducted on Benicia Breeze Transit (hereinafter: Breeze) from February 7, 2007 to February 21, 2007, and on Rio Vista Transit (hereinafter: Rio) on February 20, 2007. Routes included were 19, 21, 22, 23, and 75 (see Tables i and ii, below). A full explanation of the methodology used for the overall study can be found in Appendix A. For Benicia Breeze, a total of 150 interviews were completed, 112 during the weekdays and 38 over the weekend. Comparisons to the "All Systems" refer to the total overall MTC study for all 22 transit systems, and have been tested to a confidence level of 95 percent.

For Breeze and Rio, there was one interviewer assigned to each route. There were two shifts of interviews, 6 AM to 1 PM and 1 PM to 9 PM to cover both peak and off-peak hours for each shift. For the Breeze sampling plan, the total number of interviews to be conducted was divided amongst routes running on the weekends and those running on weekdays in proportion to the average ridership of weekdays and weekends. Weekday routes and weekend routes were then sampled based on the proportion of the total ridership for each route. Percentages of riders shown for each provider are for an entire weekday or weekend and are the percentage of riders amongst all routes.

The interviews to be conducted on each route were chosen in proportion to the ridership of each route; except for those routes with ridership proportions under 10%, where a random number generator was used to assign coverage.   Sampled routes were then checked to ensure a disproportionate geographic representation did not exist.

Interviewer start time was when randomly selected bus, train or ferry that left in the first hour of their shift. For example, if a route has a bus that left the first stop at 6:00 AM, another leaving at 6:20 AM, and a third leaving at 6:40 AM, the interviewer had one of those three randomly selected as the beginning of his/her shift.

For the Rio sampling plan, a census approach was taken, where all riders on all routes were surveyed. For this reason, no sampling plan was developed.

i. Weekday Ridership – Benicia Breeze

Benicia Breeze Weekday Routes Sampled	Ridership Percentage	Completes Surveys	Data Collection Dates
Route 75	25%	74	02/08/2007, 02/13/2007, 02/14/2007
Route 22	8%	16	02/07/2007, 02/13/2007, 02/14/2007, 02/15/2007, 02/21/2007
Route 21	6%	14	02/07/2007, 02/13/2007, 02/21/2007
Route 19	3%	6	02/07/2007
Route 23	1%	2	02/07/200702/13/2007
Total Surveys Completed		112	

ii. Weekend Ridership – Benicia Breeze

Benicia Breeze Weekend Routes Sampled	Ridership Percentage	Completes Surveys	Data Collection Dates
Route 75	30%	28	02/10/2007, 02/17/2007
Route 21	6%	6	02/10/2007, 02/17/2007
Route 22	5%	4	02/10/2007
Total Surveys Completed		38	

Total number of completed surveys for Benicia Breeze = 150

Findings

Breeze (48.7%) respondents were most likely to indicate that "Home" was their point of origin, followed by "Work" (24.0%) and "Shopping" (9.3%). Breeze results for "Shopping" are significantly higher than those returned for All Systems (4.2%).

1. When you board this bus/Ferry/Train/Trolley, where were you coming from? Was it from...

	All Systems [*]	Benicia Breeze	Rio Vista Transit [†]
Total	14,505	150	7
Home	47.3%	48.7%	71.4%
Work	21.2%	24.0%	0.0%
School or College	10.0%	8.7%	0.0%
Taking care of personal/business errands	6.5%	4.0%	0.0%
Shopping	4.2%	9.3%	28.6%
Recreation or entertainment	3.4%	1.3%	0.0%
Visiting friends or family	3.7%	2.0%	0.0%
A doctor's office or medical provider	1.5%	1.3%	0.0%
The Airport	0.7%	0.0%	0.0%
Other	1.5%	0.7%	0.0%
DK/NA	0.0%	0.0%	0.0%

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[*] The "All Systems" column contains the combined results of all 22 transit systems included in the survey. The data shown are weighted to the actual proportions of ridership for each transit system in the region. See Appendix A for more details of the study methodology.
[†] Due to the extremely small size of the Rio sample, statistically valid comparisons are not possible, and will not be attempted.

The most common destination for Breeze respondents was "Home," followed by "Work" and "School or College" (with 40.7%, 33.3%, and 10.7%, respectively). All these results are statistically identical to those returned for All Systems

2. Where are you going to? Is it to...

	All Systems	Benicia Breeze	Rio Vista Transit
Total	14,505	150	7
Home	33.6%	40.7%	28.6%
Work	28.7%	33.3%	0.0%
School or College	8.8%	10.7%	0.0%
Taking care of personal/business errands	8.2%	2.0%	28.6%
Shopping	6.0%	4.7%	14.3%
Recreation or entertainment	5.3%	0.7%	28.6%
Visiting friends or family	4.9%	4.7%	0.0%
A doctor's office or medical provider	1.5%	2.7%	0.0%
The Airport	0.8%	0.0%	0.0%
Other	2.1%	0.7%	0.0%
DK/NA	0.0%	0.0%	0.0%

The most common trip times for Breeze respondents were 30-39 minutes, 20-29 minutes, and 40-49 minutes (with 18.0%, 15.3%, and 14.0%, respectively. All of these results are statistically equal to the All Systems results for these time brackets.

3. For this trip going between the two locations you just mentioned, what will be your total traveling time, including time for walking, waiting, and any route connections? Please think of the nearest total number of minutes.

	All Systems	Benicia Breeze	Rio Vista Transit
Total	14,505	150	7
Less than 10 minutes	4.7%	5.3%	0.0%
10 to 19 minutes	15.1%	11.3%	28.6%
20 to 29 minutes	18.5%	15.3%	42.9%
30 to 39 minutes	17.7%	18.0%	28.6%
40 to 49 minutes	16.5%	14.0%	0.0%
50 to 59 minutes	9.4%	9.3%	0.0%
60 to 74 minutes	8.3%	14.7%	0.0%
75 to 90 minutes	5.2%	5.3%	0.0%
More than 90 minutes	4.6%	6.7%	0.0%
DK/NA	0.1%	0.0%	0.0%

Breeze respondents were most likely to indicate that they made their trip 4-5 days a week, 1-3 days a week, or 6-7 days a week (48.7%, 23.3%, and 17.3% respectively). These results are statistically identical to the All Systems results returned for these brackets.

4. How often do you travel between these two locations, whether or not you take this transit route, a different type of transportation?

	All Systems	Benicia Breeze	Rio Vista Transit
Total	14,505	150	7
6 to 7 days a week	17.0%	17.3%	0.0%
4 to 5 days a week	42.1%	48.7%	0.0%
1 to 3 days a week	19.6%	23.3%	0.0%
Less than once a week or on occasion	15.6%	8.0%	100.0%
Your first time taking this trip	5.5%	2.7%	0.0%
DK/NA	0.2%	0.0%	0.0%

Breeze respondents were most likely to pay their fare with "cash" (70%), or a "pass" (23.3%). Breeze results are significantly higher than All Systems results for "cash" (52.6%). Breeze "pass" results are significantly lower than the All Systems (30.8%).

5. How did you pay for your fare on this trip?

	All Systems	Benicia Breeze	Rio Vista Transit
Total	14,505	150	7
Cash	52.6%	70.0%	100.0%
Daily, weekly, monthly, or multiple ride ticket or pass	30.8%	23.3%	0.0%
Credit or debit card	6.1%	2.7%	0.0%
TransLink	1.5%	0.7%	0.0%
Employee pass paid for by private company	2.0%	0.7%	0.0%
Transfer	1.9%	2.0%	0.0%
Employee pass paid for by transit agency or dependent	0.7%	0.0%	0.0%
Pass paid for by homeowner's association	0.5%	0.0%	0.0%
Other	3.6%	0.7%	0.0%
DK/NA	0.2%	0.0%	0.0%

The most common fare category for Breeze respondents was "Adult" (75.3%), followed by "Youth or Student" (14.0%). These results are statistically equal to the All Systems results.

6. What is your fare category?

	All Systems	Benicia Breeze	Rio Vista Transit
Total	14,505	150	7
Adult	79.5%	75.3%	57.1%
Youth or student	12.8%	14.0%	0.0%
Senior	4.8%	5.3%	42.9%
Disabled	2.7%	4.7%	0.0%
DK/NA	0.2%	0.7%	0.0%

About four in ten (40.7%) Breeze respondents indicated that they took public transit because a car was not available to them. Within this group, 72.1% of respondents indicated that they did not regularly have a car available to them. This means that 29% of Breeze respondents are transit-dependent. This is statistically equal to the 23% all systems result. Of those who did not have a car available but normally do, 64.7% indicate that having a car available does not present an inconvenience for others.

7. For this trip today, did you take public transportation because an automobile was not available to you?

	All Systems	Benicia Breeze	Rio Vista Transit
Total	14,505	150	7
Yes	34.1%	40.7%	0.0%
No	64.6%	53.3%	100.0%
DK/NA	1.3%	6.0%	0.0%

8. (IF QUESTION 7 = YES) Do you normally have an automobile available to you for trips like today's trip?

	All Systems	Benicia Breeze	Rio Vista Transit
Total	4,950	61	0
Yes	30.3%	27.9%	0%
No	66.6%	72.1%	0%
DK/NA	3.0%	0.0%	0%

9. (IF QUESTION 7 = YES AND QUESTION 8 = YES) Does it normally create inconvenience for others to have the automobile available to you?

	All Systems	Benicia Breeze	Rio Vista Transit
Total	1,501	17	0
Yes	38.9%	35.3%	0%
No	57.5%	64.7%	0%
DK/NA	3.6%	0.0%	0%

The most common zip code for Breeze respondents was 94510 (58.7%), followed by 94590 (15.3%).

10. What is your home zip code?

	Benicia Breeze	Rio Vista Transit
94510	58.7%	0.0%
94590	15.3%	0.0%
94589	8.0%	0.0%
94591	7.3%	0.0%
94523	1.3%	0.0%
94121	0.7%	0.0%
94518	0.7%	0.0%
94520	0.7%	0.0%
94531	0.7%	0.0%
94533	0.7%	0.0%
94547	0.7%	0.0%
94553	0.7%	0.0%
94570	0.7%	0.0%
96158	0.7%	0.0%
94571	0.0%	85.7%
95641	0.0%	14.3%
No Answer	3.3%	0.0%

Breeze respondents were most likely to live in Benicia (58.7%) or Vallejo (31.3%).

11. What city do you live in?

	Benicia Breeze	Rio Vista Transit
Benicia	58.7%	0.0%
Vallejo	31.3%	0.0%
Concord	2.7%	0.0%
Antioch	0.7%	0.0%
Fairfield	0.7%	0.0%
Hercules	0.7%	0.0%
Lake Tahoe	0.7%	0.0%
Oakland	0.7%	0.0%
Pacheco	0.7%	0.0%
San Francisco	0.7%	0.0%
Rio Vista	0.0%	85.7%
Isleton	0.0%	14.3%
NA	2.7%	0.0%

Breeze respondents were most likely to indicate that they were 18 to 24 (26.0%), 45 to 54 (21.3%), or 25 to 34 (17.3%). Breeze respondents were more likely than All Systems respondents to identify as 45 to 54 (12.8%). Breeze respondents were significantly less likely to identify as 25 to 34 than All Systems respondents (26.3%).

12. What is your age?

	All Systems	Benicia Breeze	Rio Vista Transit
Total	14,505	150	7
Under 13	0.4%	0.0%	0.0%
13 to 17	8.1%	8.0%	0.0%
18 to 24	19.8%	26.0%	0.0%
25 to 34	26.3%	17.3%	0.0%
35 to 44	20.2%	16.7%	28.6%
45 to 54	12.8%	21.3%	0.0%
55 to 64	6.6%	8.0%	0.0%
65 or older	3.4%	2.7%	42.9%
DK/NA	2.5%	0.0%	28.6%

Most (83.3%) Breeze respondents indicate that they do not have transit-dependent children under 13 living at home; while 11.6% indicated they had one and 2.9% indicated they had two. All of these results are statistically equal to the All Systems results.

13. Do you have children under age 13 living with you who depend on public transit for trips to school or other purposes?

	All Systems	Benicia Breeze	Rio Vista Transit
Total	13,272	138	7
One	8.4%	11.6%	0.0%
Two	4.2%	2.9%	0.0%
Three	1.4%	0.7%	0.0%
Four	0.4%	0.0%	0.0%
Five or more	0.4%	1.4%	0.0%
None	85.2%	83.3%	100.0%
No Answer	0.1%	0.0%	0.0%

Breeze respondents were most likely to indicate that there were either "three" (21.3%), "four" (20.7%), or "two" (18.0%) people in their household, including themselves. Breeze results are significantly lower for "two" than All Systems results (24.5%).

14. How many people are in your household, including yourself?

	All Systems	Benicia Breeze	Rio Vista
Total	14,505	150	7
One	15.8%	17.3%	42.9%
Two	24.5%	18.0%	28.6%
Three	19.3%	21.3%	28.6%
Four	18.0%	20.7%	0.0%
Five	10.3%	10.0%	0.0%
Six to Ten	7.8%	6.7%	0.0%
More than 10	0.5%	2.0%	0.0%
No Answer	3.7%	4.0%	0.0%

The largest portion of Breeze respondents self-identified as "White" (40.7%), followed by "Black or African American" (24.7%) and "Asian" (16.0%). These results are statistically identical to those returned for the All Systems averages.

15. Are you Spanish, Hispanic, or Latino?

16. What is your race or ethnic identification?

	All Systems	Benicia Breeze	Rio Vista
Total	14,505	150	7
White	39.0%	40.7%	42.9%
Spanish/Hispanic/Latino	20.5%	14.0%	28.6%
Black/African American	19.2%	24.7%	28.6%
Asian	18.2%	16.0%	0.0%
Native Hawaiian or Pacific Islander	3.6%	4.0%	0.0%
American Indian or Alaska Native	1.4%	2.0%	0.0%
Filipino	0.6%	0.7%	0.0%
Other	1.5%	0.7%	0.0%
DK/NA	1.7%	2.7%	0.0%

* Note: The above percentages add up to more than 100% because some respondents are of mixed ethnicities, and checked more than one category.

Benicia Breeze respondents were most likely to indicate that their gross annual household income was under $15,000 (22.0%), $15,000 to $24,999 (22.0%), or $25,000 to $49,999 (18.7%). Breeze results for under $15,000 and $15,000 to $24,999 are significantly higher than those returned for All Systems (14.0% and 12.7%).

17. Which of the following best describes the total income including everyone in your household before taxes in 2006?

	All Systems	Benicia Breeze	Rio Vista
Total	14,505	150	7
Under $15,000	14.0%	22.0%	14.3%
$15,000 to $24,999	12.7%	22.0%	0.0%
$25,000 to $49,999	22.3%	18.7%	14.3%
$50,000 to $74,999	17.7%	13.3%	0.0%
$75,000 to $99,999	9.0%	6.7%	0.0%
$100,000 to $149,999	7.4%	4.0%	42.9%
$150,000 to $199,999	3.0%	0.0%	0.0%
$200,000 or higher	2.2%	2.7%	0.0%
DK/NA/Refused	11.7%	10.7%	28.6%

Breeze gender distribution results tend to tilt towards female more than the All Systems average.

Respondent Gender

	All Systems	Benicia Breeze	Rio Vista
Total	14,505	150	7
Male	51.3%	40.7%	42.9%
Female	48.0%	55.3%	57.1%
Not Known	0.7%	4.0%	0.0%

The majority of Breeze respondents took their survey while sitting. This is consistent with All Systems results.

Respondent Position

	All Systems	Benicia Breeze	Rio Vista
Total	14,505	150	7
Sitting	93.9%	86.0%	100.0%
Standing	5.4%	10.0%	0.0%
Not Known	0.7%	4.0%	0.0%

The majority of Breeze respondents took their survey in English. This is consistent with All Survey results.

Interview Language

	All Systems	Benicia Breeze	Rio Vista
Total	14,505	150	7
English	93.5%	92.0%	100.0%
Spanish	4.5%	4.0%	0.0%
Other	2.0%	4.0%	0.0%

The majority of Breeze respondents took their survey while inside the moving vehicle. This is consistent with All Systems results.

Interview Location

	All Systems	Benicia Breeze	Rio Vista
Total	14,505	150	7
Inside moving vehicle or vessel	95.5%	85.3%	100.0%
Station/Stop/Terminal	2.1%	12.0%	0.0%
Inside vehicle or vessel at a station/stop/terminal	2.1%	2.7%	0.0%
Not Known	0.3%	0.0%	0.0%

The largest portion of Breeze respondents took their survey under sunny/clear skies. This is consistent with All Systems results.

Weather

	All Systems	Benicia Breeze	Rio Vista
Total	14,505	150	7
Sunny/Clear	66.5%	44.0%	100.0%
Partly Cloudy	19.0%	13.3%	0.0%
Overcast	10.2%	4.7%	0.0%
Light Rain	3.7%	20.7%	0.0%
Heavy Rain	0.7%	17.3%	0.0%
Not Known	0.0%	0.0%	0.0%