



Annual Trip Reduction Survey



CITY OF BURBANK

**COMMUNITY DEVELOPMENT DEPARTMENT
TRANSPORTATION DIVISION**

APRIL 30, 2018

History of Burbank's TDM Ordinance



- **1991: Transportation Demand Management (TDM) Ordinance established as a response to increased congestion in Burbank's Media District**
- **Burbank more than doubles in population during daytime**
- **Costly roadway widening versus alternative traffic mitigation tool**
- **1997: Ordinance extended to Downtown Burbank**

TDM Program Requirements



- **City Ordinance requires participation by all employers with 25+ employees**
- **Employers must reduce peak period automobile travel by 38%**
 - 4:00 pm – 6:00 pm
- **Burbank Transportation Management Organization**
 - Non-profit, assists employers to meet trip reduction goals
- **Annual Commute Survey**

Average Vehicle Ridership



- In prior years City used an allowable trips mechanism.
 - Complex and difficult to understand
- New Method: Average vehicle ridership (AVR)
 - $AVR = \frac{\text{Number of employee trips}}{\text{Number of vehicle trips}}$
 - More commonly used method
 - AQMD uses AVR for their Rule 2202 survey

Average Vehicle Ridership



- **The City's 38% allowable trips reduction still holds**
 - The AVR interpretation of the reduction is 1.61

$$\frac{100 \text{ employee trips}}{100 \text{ vehicle trips}} = \text{AVR of 1}$$

$$\frac{100 \text{ employee trips}}{62 \text{ vehicle trips}} = \text{AVR of 1.61}$$

- The goal is high, but will be important in painting a more accurate picture of the congestion mitigation efforts of the City and its businesses.

Annual Survey & Reports



- **Submit annual reports to the Burbank TMO**
- **Survey week**
 - One week: Monday – Friday
 - Every employee
 - Peak period: 4 pm – 6pm
 - ✦ Outside of peak period?
 - Count towards survey received, but no vehicle or employee trip
 - AQMD survey week now your survey week – please contact the TMO
- **What if I don't meet the target goal?**
 - BTMO services
- **Survey Forms**
 - A: Employee Survey
 - B: Annual Trip Reduction Report

ANSWER ALL QUESTIONS COMPLETELY - PLEASE PRINT

First Name _____

Last Name _____

Home Address or Closest Intersection _____

City _____

Zip Code _____

Company Name _____

Worksite Address _____

1. For each day you worked, please fill in your start and leave times and check AM or PM. Also, enter one code from the list below to indicate how you traveled to and from work each day. Note: this survey is for anyone who traveled between 4:00 p.m. to 6:00 p.m. at least one time during your survey week.

CODE	Commute Modes	CODE	Commute Modes
A =	Zero Emission Vehicle	P =	8 persons in vehicle
B =	Bus	Q =	9 persons in vehicle
C =	Rail/Plane	R =	10 persons in vehicle
D =	Walk	S =	11 persons in vehicle
E =	Bicycle	T =	12 persons in vehicle
F =	Telecommute	U =	13 persons in vehicle
G =	Noncommuting	V =	14 persons in vehicle
H =	Drive Alone	W =	15 persons in vehicle
I =	Motorcycle	X =	Compressed work week days off – 3/36
J =	2 persons in vehicle	Y =	Compressed work week days off – 4/40
K =	3 persons in vehicle	Z =	Compressed work week days off – 9/80
L =	4 persons in vehicle	AA =	Vacation
M =	5 persons in vehicle	BB =	Sick
N =	6 persons in vehicle	CC =	Regular day off (Jury duty, LOA, etc.)
O =	7 persons in vehicle		

	Date	Start Time	Code	Leave Time	Code
Example:	<u>12/8</u>	<u>8:30</u> AM <input checked="" type="checkbox"/> PM <input type="checkbox"/>	<u>A</u>	<u>5:00</u> AM <input type="checkbox"/> PM <input checked="" type="checkbox"/>	<u>A</u>
Monday:	<u>5/7/18</u>	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___
Tuesday:	<u>5/8/18</u>	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___
Wednesday:	<u>5/9/18</u>	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___
Thursday:	<u>5/10/18</u>	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___
Friday:	<u>5/11/18</u>	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___	_____ AM <input type="checkbox"/> PM <input type="checkbox"/>	___

Signature of person completing form: _____

Date completed: _____

FORM A

Key Differences in Updated Survey



- **Changes from prior years**
 - The vanpools must be more exact
 - Compressed work-week and non-commuting days are included
- **Similar to AQMD survey with a few critical changes**
 - No credits for zero emission vehicles
 - All non-responses are considered drive-alones
- **Example**

Calculate the number of vehicle trips



- No Survey 50 = 50 vehicles
- Bus 75/0 = 0 vehicles
- Rail 75/0 = 0 vehicles
- Walk 10/0 = 0 vehicles
- Bike 25/0 = 0 Vehicles
- Drive Alone 440/1 = 440 vehicles
- Motorcycle 10/1 = 10 vehicles
- 2 Person Vehicle 100/2 = 50 vehicles
- 3 Person Vehicle 30/3 = 10 vehicles
- 10 Person Vehicle 10/10 = 1 vehicle

Add, then divide!



- Add up employee trips:

$$50+75+75+10+25+440+10+100+30+10$$
$$= 825 \text{ employee trips}$$

- Add up vehicle trips:

$$50+0+0+0+0+440+ 10+50+10+1$$
$$= 561 \text{ vehicle trips}$$

- Divide

$$\frac{825 \text{ Employee Trips}}{561 \text{ Vehicles}} = \text{AVR of } 1.47$$

Didn't meet the goal?



- The example didn't meet the goal AVR
- Contact the TMO!
- Sharp, dedicated staff is available to help!

- Questions?