

TRAVEL REDUCTION PROGRAM 2005 REGIONAL SURVEY RESULTS

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Jurisdictions

Pima Association of Governments

- Pima County
- City of Tucson
- City of South Tucson
- Town of Marana
- Town of Oro Valley
- Town of Sahuarita
- Pascua Yaqui Tribe (Non-TRP)
- Tohono O'odham Nation (Non-TRP)

Regional Task Force Members

MAJOR EMPLOYERS (10) – Elected (1 Resigned)

Caryl Bortner	University Medical Center
Charles Franz	The University of Arizona
Ron Gonzales	Raytheon Missile Systems
Jennifer King	Tucson Electric Power Company
Jackie Murphy	Tucson Airport Authority
Joe Portale	Pima County Community College District
Richard Reetz	APAC Customer Services, Inc.
Barbara Ricca	IBM
Willie Wash	Arizona State Prison - Tucson Complex

JURISDICTION REPRESENTATIVES (6)

Beth Gorman	Pima County
Jeff Grant	Town of Oro Valley
Regina Flemming	Town of Marana
Yolanda Parker	City of Tucson
Richard Salaz	City of South Tucson
vacant	Town of Sahuarita

PUBLIC INTEREST ORGANIZATION REPRESENTATIVES (2) -Vacant

VOLUNTARY TRP PARTICIPANTS (2) - Vacant

Ordinance Mandates

(Employer § 100 FTE)

- **Appoint a Transportation Coordinator**
- **Distribute Alternate Mode Information**
- **Annually Survey Employees**
- **Annually Submit a TRP Plan**

AMU Goals

Compliance Year	AMU Goal
Baseline	N/A
1st	15%
2nd	20%
3rd	25%
4th	26%
5th	27%
6th	28%
7th	29%
8th	30%
9th	31%
10th	32%
11th	33%
12th	34%
13th	35%
14th	36%
15th	37%
16th	38%

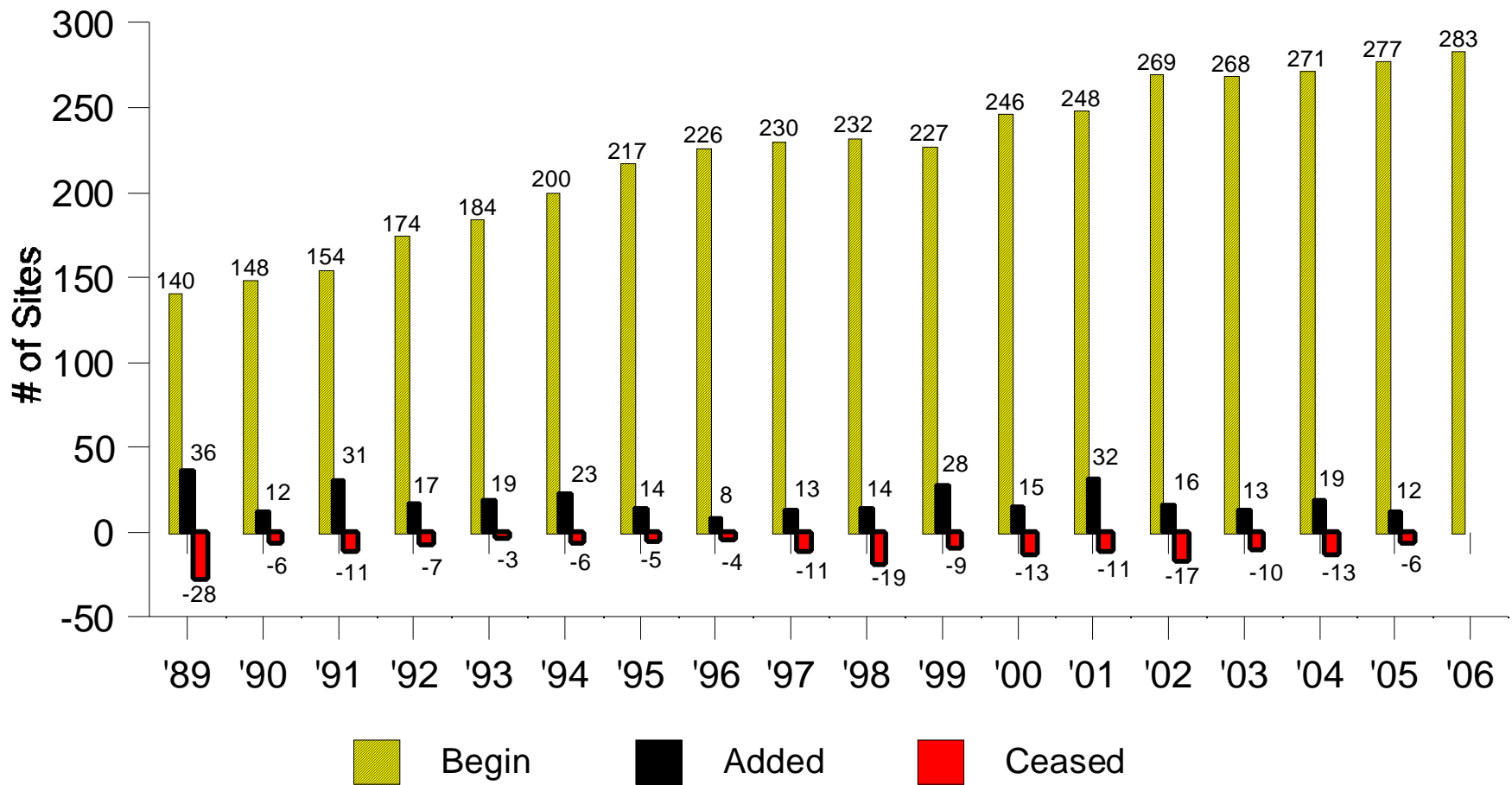
AMU:

Alternate Mode Usage
(one day a week)

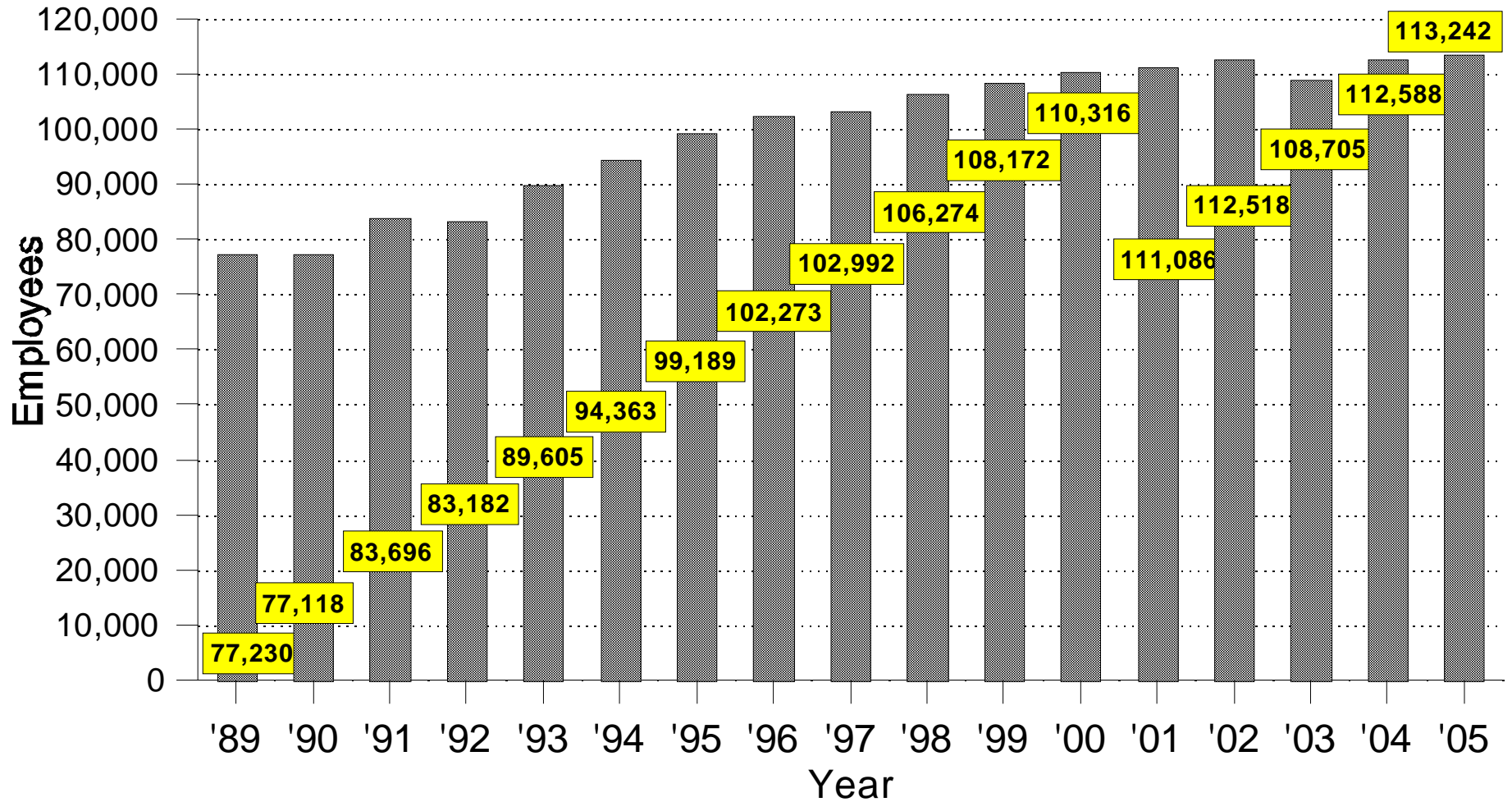
After 3rd Compliance year,
AMU goal increases by
1% until 40% cap is reached.

Note: For 3rd compliance year or greater an alternate goal of 1.5% reduction in Vehicle Miles Traveled (from previous year) is applicable if the site achieves an AMU of 25% or more.

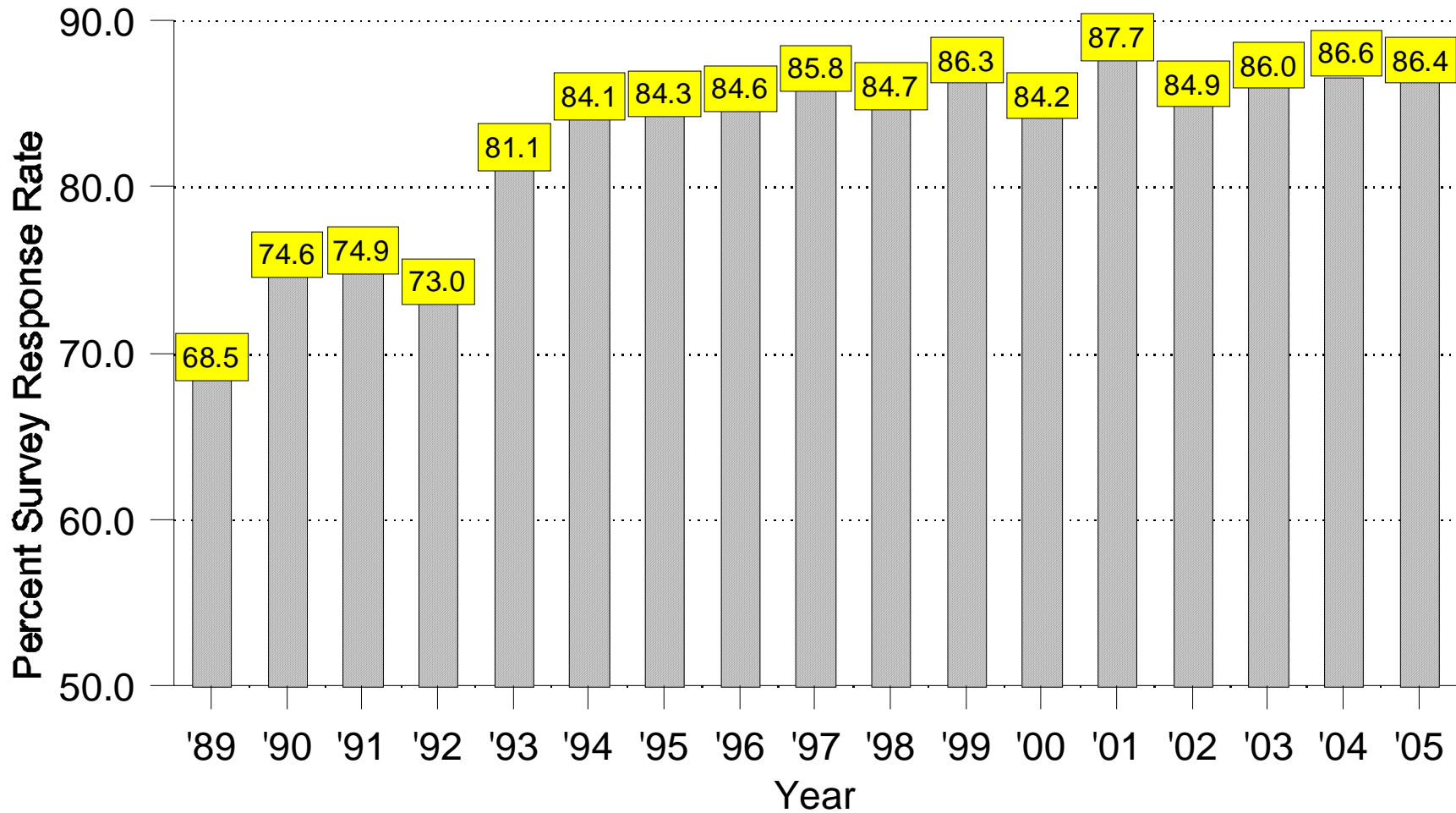
Participating Sites



Number of Employees



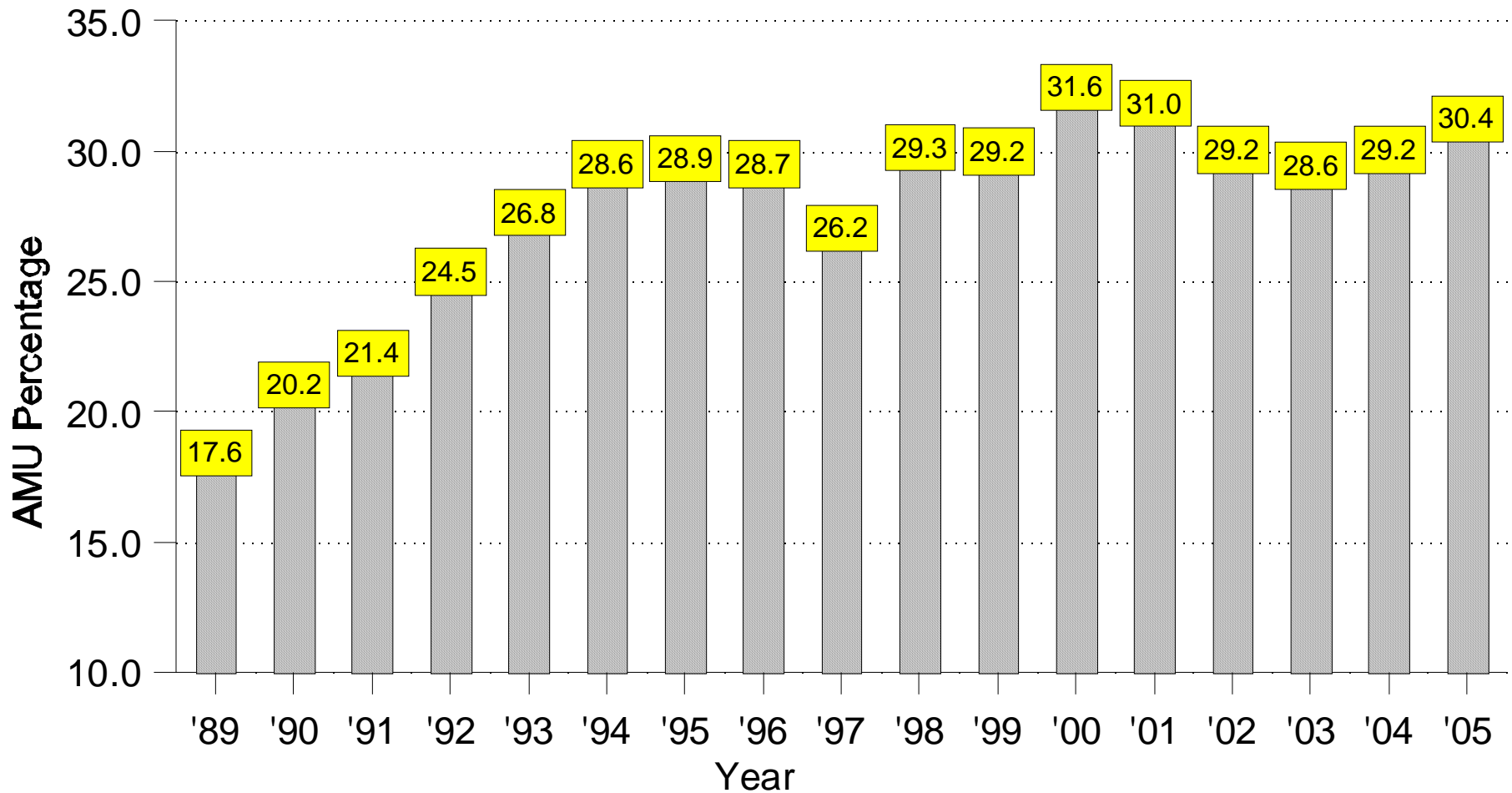
Survey Response Rate



*97,875 valid surveys processed

Regional Goal = 70%

Alternate Mode Usage



Goal Range = 15% to 38% (depending on years in program)
Achievement Range = 2% to 84% Alternate Mode Usage
Based on one day a week usage.

Alternate Mode Usage (AMU)

EMPLOYEES EARN AMU CREDIT BY:

- CARPOOLING
- VANPOOLING
- RIDING THE BUS
- BICYCLING
- WALKING
- TELEWORKING/WORKING AT HOME
- DRIVING TO THE JOB SITE WITHOUT GOING TO THE TRP WORK SITE
- USING A CLEAN FUEL VEHICLE
- WORKING A COMPRESSED WORK WEEK (CWW)

Note: A 9/80 CWW = 1/2 credit

Alternate Mode Usage (AMU) (Continued)

- MUST BE FOR THE HOME TO WORK COMMUTE
- SPECIAL PROGRAMS MUST BE AUTHORIZED BY COMPANY
- NO DOUBLE COUNTING

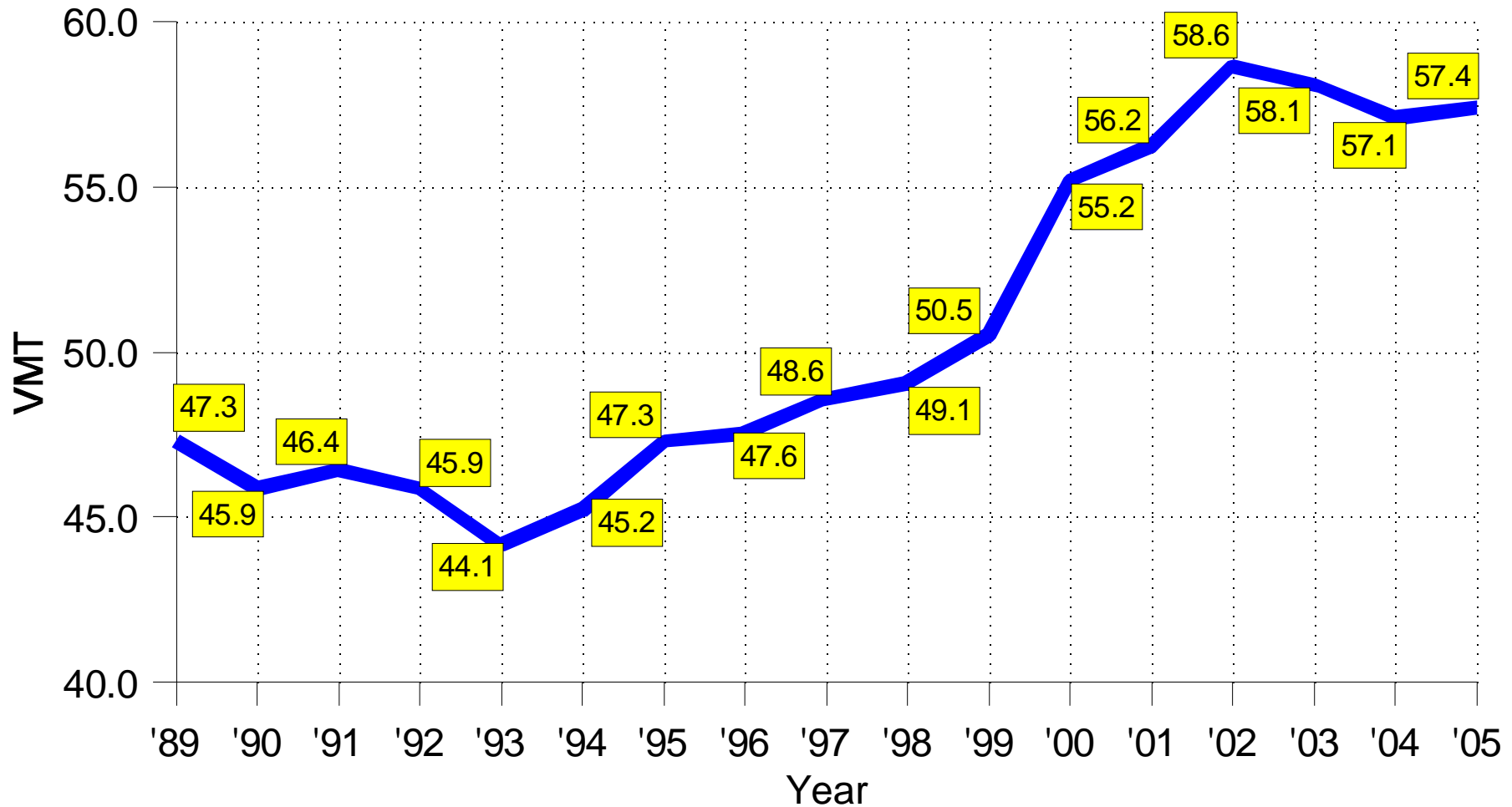
- CREDIT IS ONLY GIVEN FOR THE FIRST AMU
ON THE PREVIOUS LIST THAT APPLIES

For Example: If someone rides the bus and bicycles,
they will only get AMU credit for bus.

- CALCULATED AS:

$$\frac{\text{\# OF AMU CREDITS}}{\text{TOTAL \# OF EMPLOYEES}}$$

Vehicle Miles Traveled*



* The VMT is the regional one-way weekly miles traveled from home to work factored by occupants in a motor vehicle.

Vehicle Miles Traveled (VMT) Example Calculation

OWM = One Way Miles

DPW = Days Per Week

- Mary's Drive Alone VMT = $10 \text{ OWM} * 5 \text{ DPW} / 1 \text{ person in vehicle} = 50 \text{ Miles}$
- Tom's Carpool VMT = $18 \text{ OWM} * 5 \text{ DPW} / 3 \text{ people in vehicle} = 30 \text{ Miles}$
- Joan's Bus VMT = $0 \text{ OWM} * 5 \text{ DPW} = 0 \text{ Miles}$

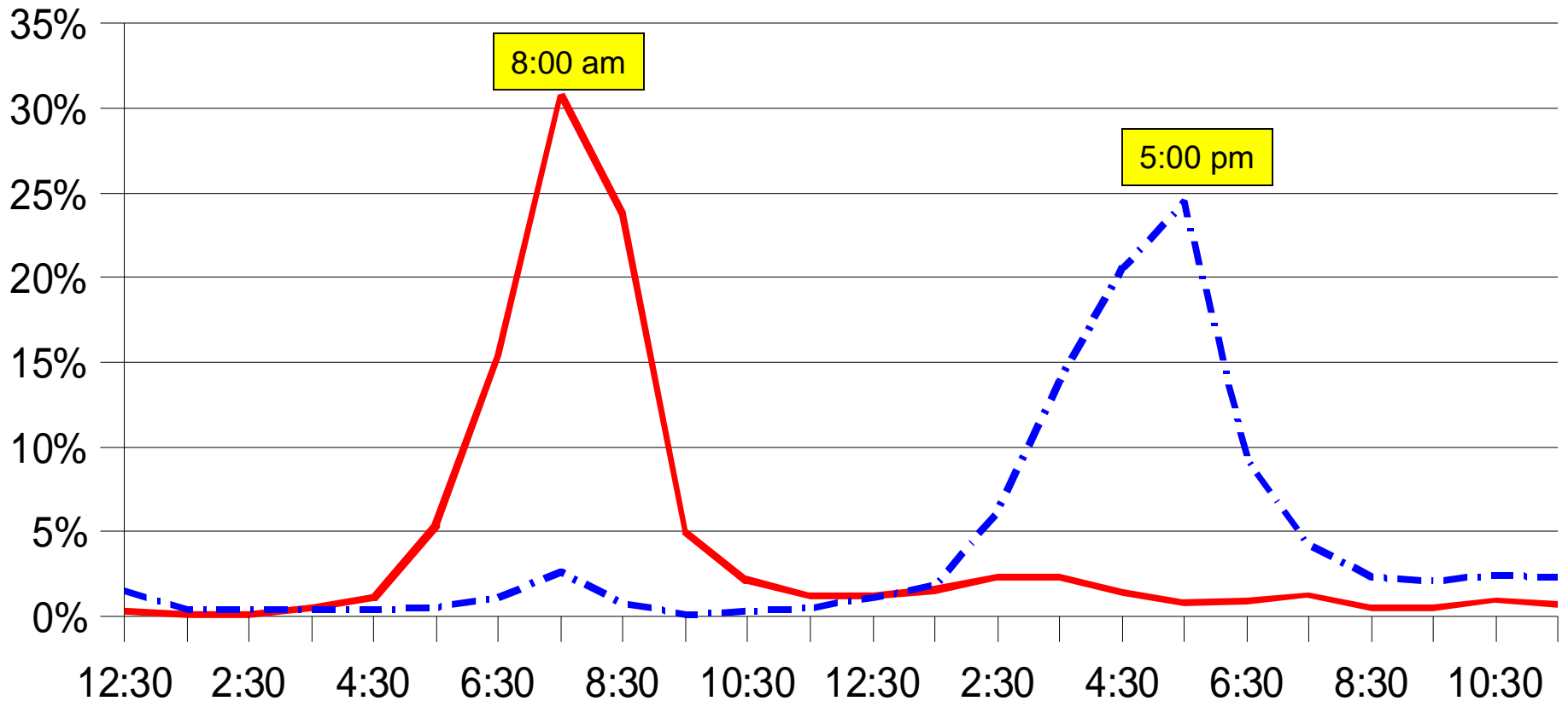
Note: Bus ridership varies and, for TRP calculation, 0 miles contribute to the company's average.

- Mike's Bicycle or Walking VMT = $0 \text{ OWM} * 5 \text{ DPW} = 0 \text{ Miles}$

Note: Bicycle & walking miles are non-polluting, therefore 0 miles contribute to the company's average.

Note: Currently Clean Fuel Vehicle miles are not factored out of individual VMT.

Work Related Trips

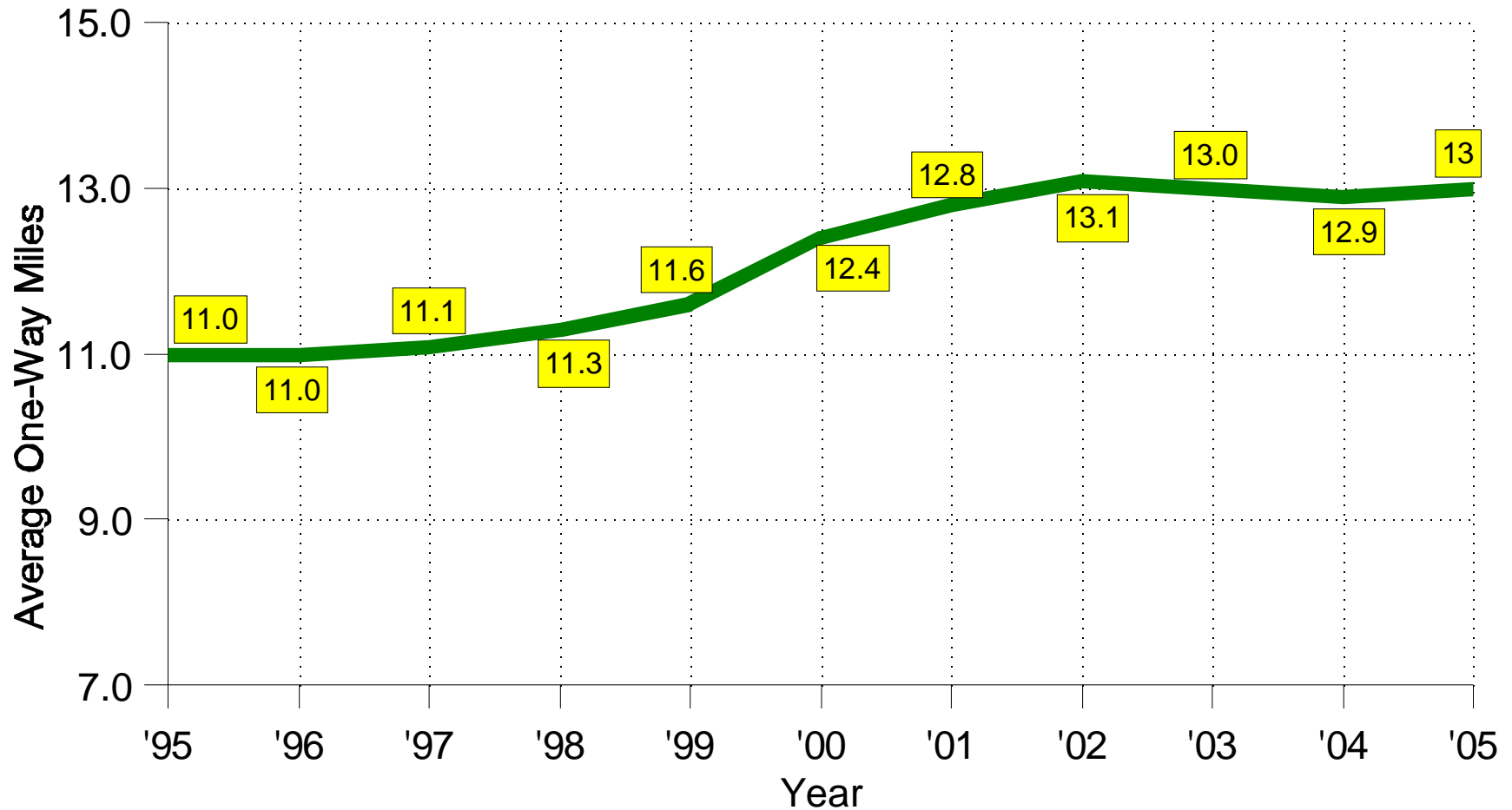


Arrive and Leave Times

— Arrive at Work - · - · - Leave Work

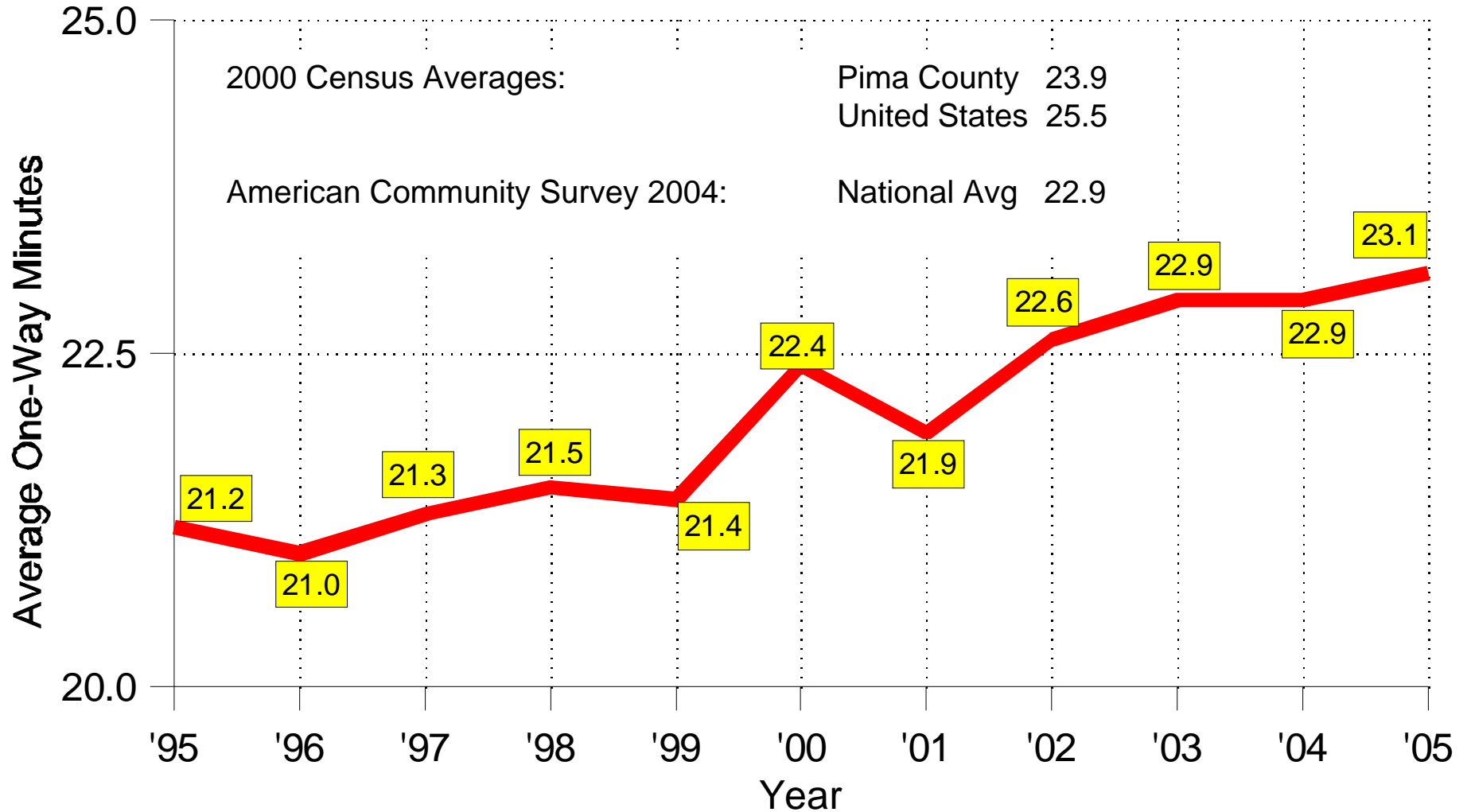
Morning (Arrive) Peak - 8:00 am
Evening (Leave) Peak - 5:00 pm
(same as previous year)

One-Way Miles



2005 Average One-Way Miles: 13

One-Way Minutes



2005 Average One-Way Minutes: 23.1

Travel Reduction Program Regional Survey Results

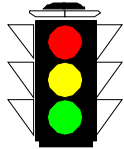
	1989	2003	2004	2005	Increase from 1989
# of Sites Surveyed	148	271	279	283	91.2%
# of Employees	77,230	108,705	112,588	113,242	46.6%
Survey Response Rate	68.5%	86.0%	86.6%	86.4%	26.1%
Alternate Mode Usage	17.6%	28.6%	29.2%	30.4%	72.7%
Vehicle Miles Traveled	47.3	58.1	57.1	57.4	21.4%
One-Way Miles	10.6	13.0	12.9	13.0	22.6%
One-Way Minutes	21.0*	22.9	22.9	23.1	10.0%
Sites Meeting Goal	N/A	35.4%	40.1%	46.3%	N/A

* Source 1990 Census

Travel Reduction Program Regional Survey Results Three Year Comparison

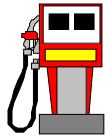
	2003 Results	Percent Change '02 – '03	2004 Results	Percent Change '03 – '04	2005 Results	Percent Change '04 – '05
# of Sites Surveyed	271	1.1%	279	3.0%	283	1.4%
# of Employees	108,705	-3.4%	112,588	3.6%	113,242	0.6%
Survey Response Rate	86.0%	1.3%	86.6%	0.7%	86.4%	-0.2%
Alternate Mode Usage	28.6%	-2.1%	29.2%	2.1%	30.4%	4.1%
Vehicle Miles Traveled	58.1	-0.9%	57.1	-1.7%	57.4	0.5%
One-Way Miles	13.0	-0.8%	12.9	-0.8%	13.0	0.8%
One-Way Minutes	22.9	1.3%	22.9	0.0%	23.1	0.9%
Sites Meeting Goal	35.4%	-8.5%	40.1%	13.3%	46.3%	15.5%

2005 TRP IMPACT SAVINGS



89.6 million driving miles

Using TRP survey response data



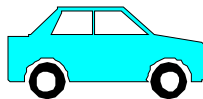
4.5 million gallons of gasoline

Using 20 miles per gallon (average vehicle)



36.3 million dollars

Using 40.5 cents per mile (IRS Standard Mileage Rate for 2004)



3.9 million pounds of pollution

Using 1 pound of pollution per 23 miles driven (EPA Model)