ACTAC Meeting :7/3/12
Handout Agenda Item 5F

Annual Pedestrian and Bicycle Count Program

A Presentation by
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Countywide Bicycle and Pedestrian Coordinator
July 3, 2012

ALAMEDA County Transportation Commission

July 3, 2012 ACTAC Meeting

Review and input on:

1. Pedestrian and Bicycle Count Report (2002 – 2011)
2. List of Count Sites
   - *2012*
   - *Beyond*
3. Feedback due by July 20, 2012

Why count walkers and bicyclists?

- Assess countywide trends in walking and bicycling
  - *Also, planning area trends*
- Acquire timely data
- Improve transportation modeling
- Assess return on investments
- Understand collision rates

Annual bike/ped count program

- 63 intersections throughout the county (in 2010 & 2011)
- Intersection selection criteria:
  - *Historic counts conducts, especially earlier years*
  - *Geographic equity by planning area*
  - *Locations on Countywide Bicycle and/or Pedestrian Networks*
  - *Variety of land uses, land use density and street types*
  - *Some locations near transit, multi-use trails and schools*

2012 Count Report

- Ten year period: 2002 to 2011
- Update previous 2011 Report
- Enhanced, based on comments
- New this year:
  - *Year-to-Year data for 63 sites (2011 Report only compared 44 ped/28 bike count sites)*
  - *More background, including maps of site locations*
  - *Count trend lines over 10 years*
  - *Data on site variability*
  - *Planning Area-level data*
  - *More robust school period data*
  - *Helmet use trends*
  - *Comparison to collision, population, BART access & gas price trends*

Two Groups of Data

	Annual Data		Longitudinal Data	
Count Period	**Comparison Years**	**# of Sites**	**Comparison Years**	**# of Sites**
Pedestrian				
PM	2010, 2011	62 sites*	2002, 2003, 2010, 2011	6
Mid-day	2010, 2011	44 sites	2008, 2010, 2011	9
School	2010, 2011	17 sites	N/A	N/A
Bicycle				
PM	2010, 2011	62 sites*	2002, 2004, 2006, 2008, 2010, 2011	9
Mid-day	2010, 2011	44 sites	2008, 2010, 2011	9
School	2010, 2011	17 sites	N/A	N/A

* Note: Although counts were conducted at 63 locations in 2011, given changes in the configuration of one intersection, the data for this site was not comparable to the previous year.

Pedestrian Annual Count Data (2010-11)

- Overall, counts essentially remained the same:

- PM period: 1% decline
- Mid-day: 2% increase
- School: No change

Pedestrians – Percent Change by Planning Area

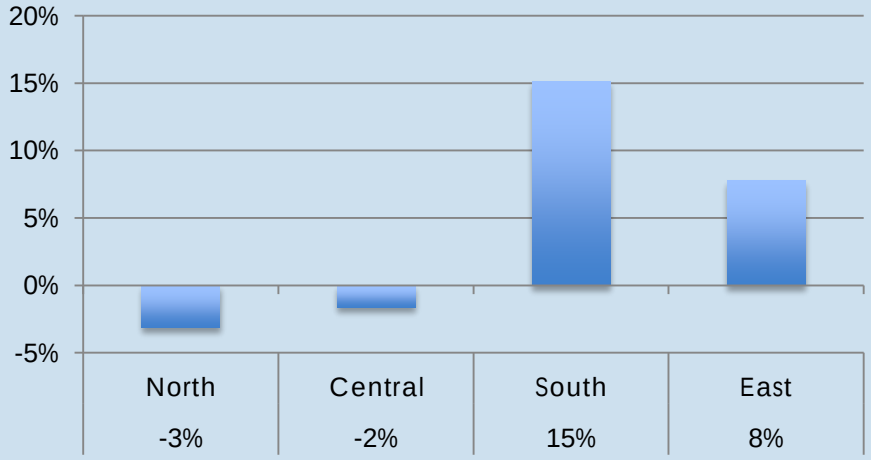

Figure 12: Pedestrians – Percent change by planning area (2010, 2011; weekday PM; 62 sites)

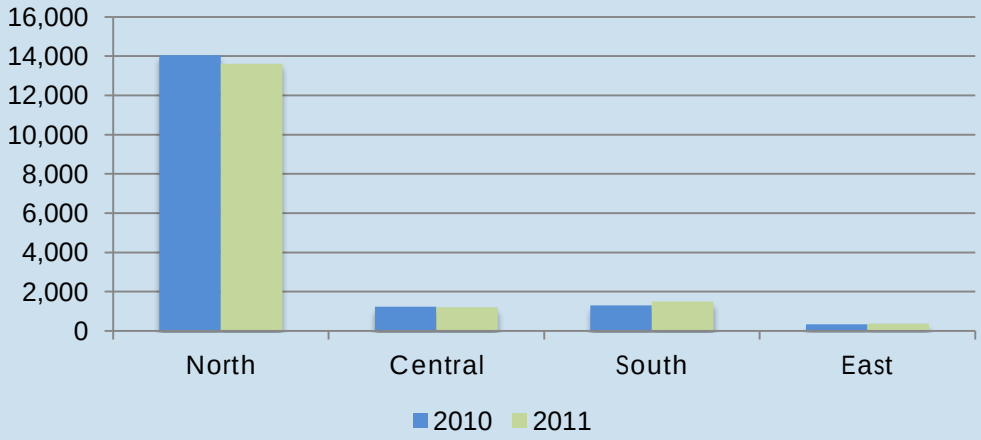

Figure 13: Pedestrians - Absolute change by planning area (2010, 2011; weekday PM; 62 sites)

Bicyclist Annual Count Data (2010-11)

- Overall, counts increased significantly:

- PM period: 27% increase
- Mid-day: 36% increase
- School: 6% increase

Bicyclists – Percent Change by Planning Area

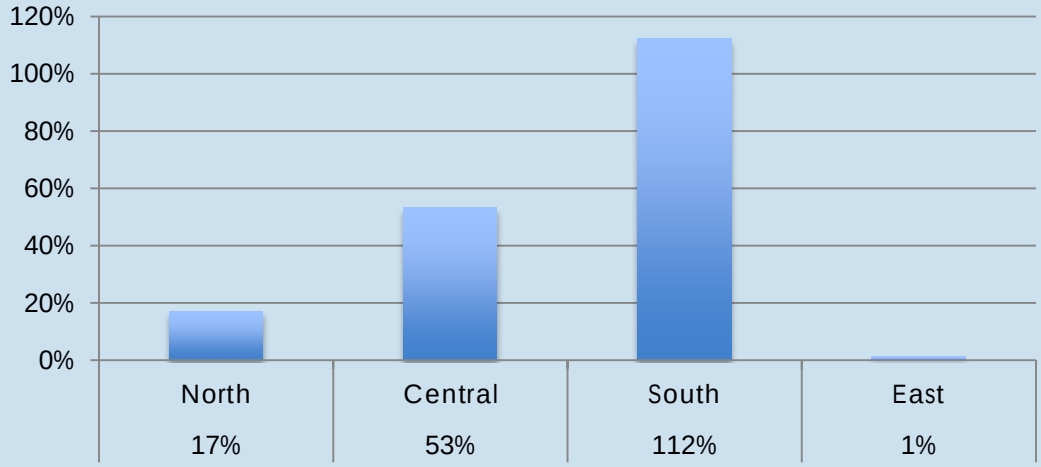

Figure 28: Percent change - by planning area (2010, 2011; weekday PM; 62 sites)

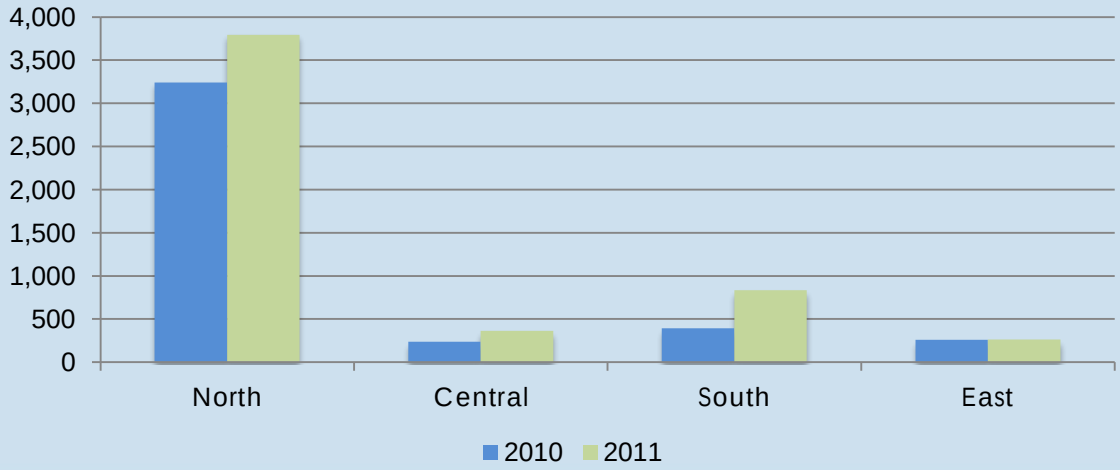

Figure 29: Absolute change - by planning area (2010, 2011; weekday PM; 62 sites)

Pedestrian Count Data, 2002-2011: 47% increase

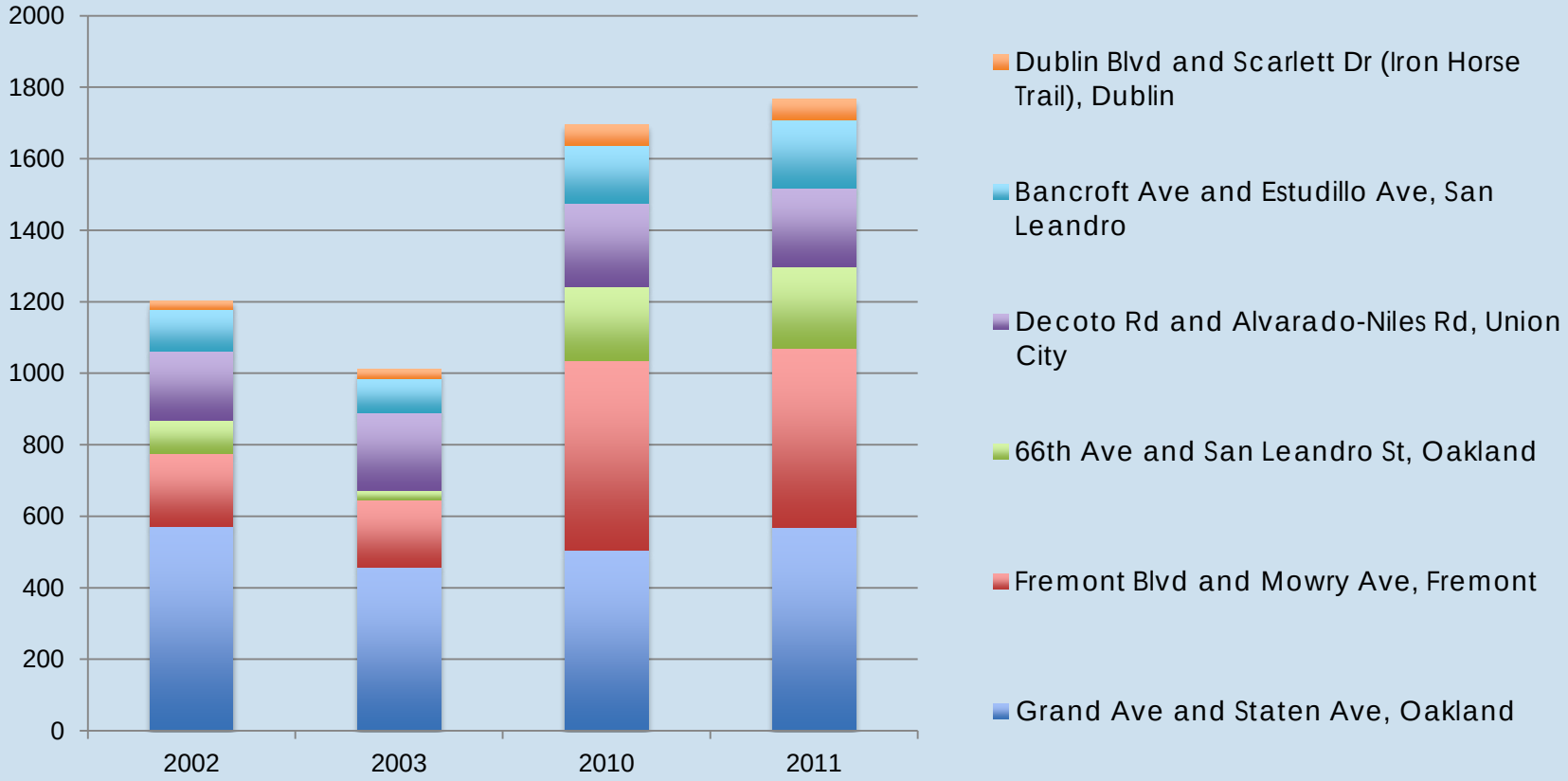

Figure 16: Total pedestrians; 2002, 2003, 2010, 2011; weekday PM (4-6pm); 6 sites

Bicyclist Count Data, 2002-2011: 75% increase

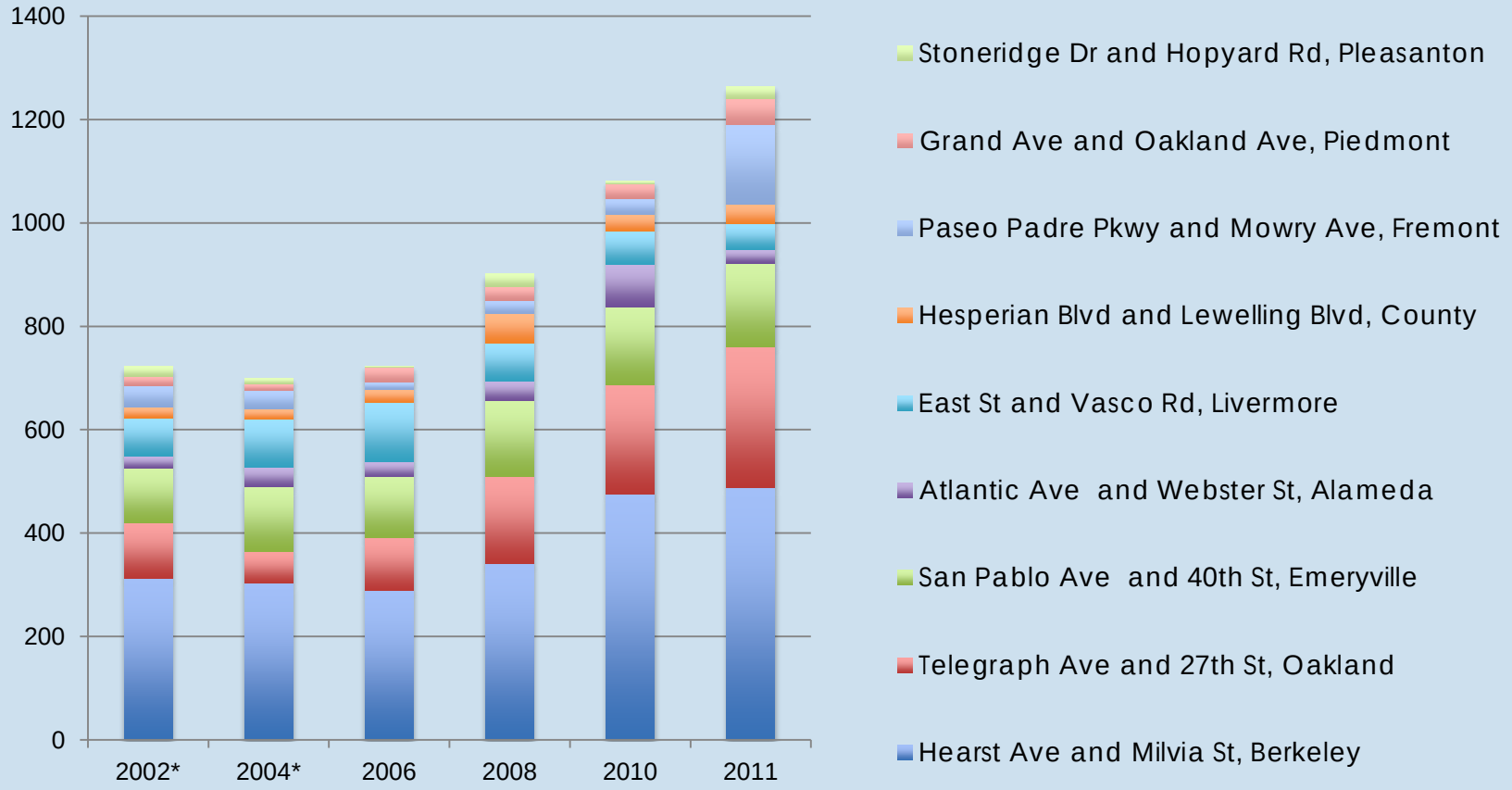

Figure 32: Total bicyclists – 2002*, 2004*, 2006, 2008, 2010, 2011; weekday PM (4-6PM); 9 sites

Gender Trends - Walking

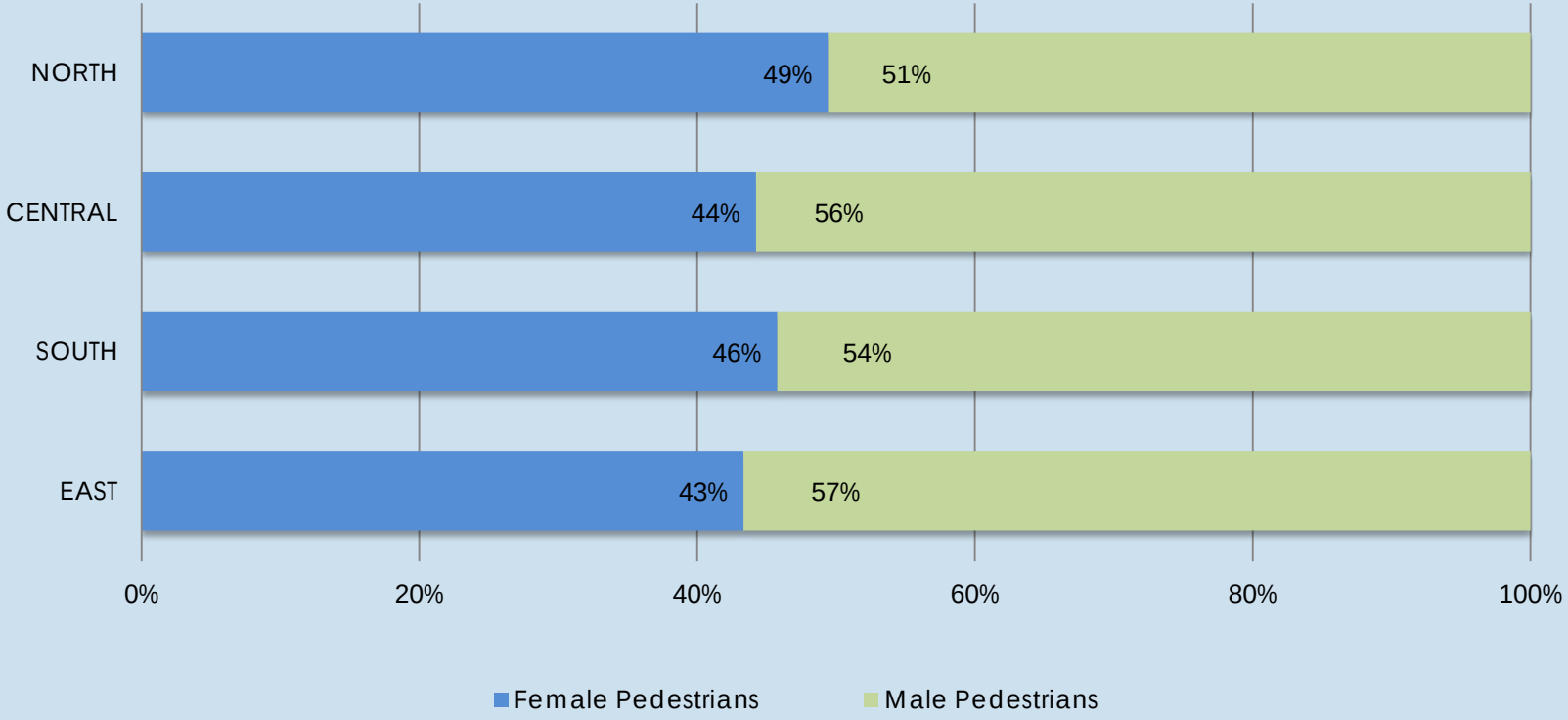

Figure 25: Pedestrian male – female ratio, by planning area (2008, 2009, 2010, and 2011 combined; all time periods, all sites)

Gender Trends - Bicycling

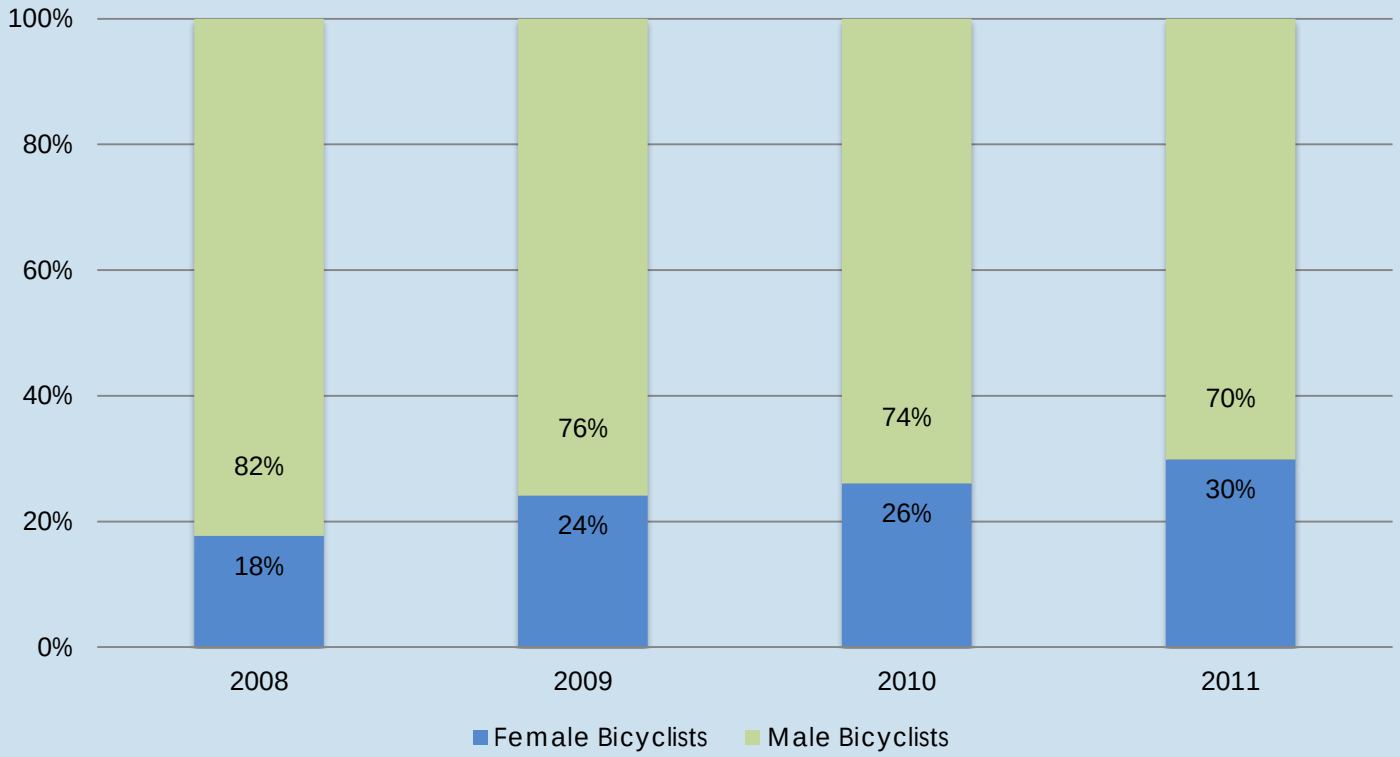

Figure 39: Bicyclist male-female ratio, by year (2008, 2009, 2010, 2011; all time periods; 63 sites)

Gender Trends - Bicycling

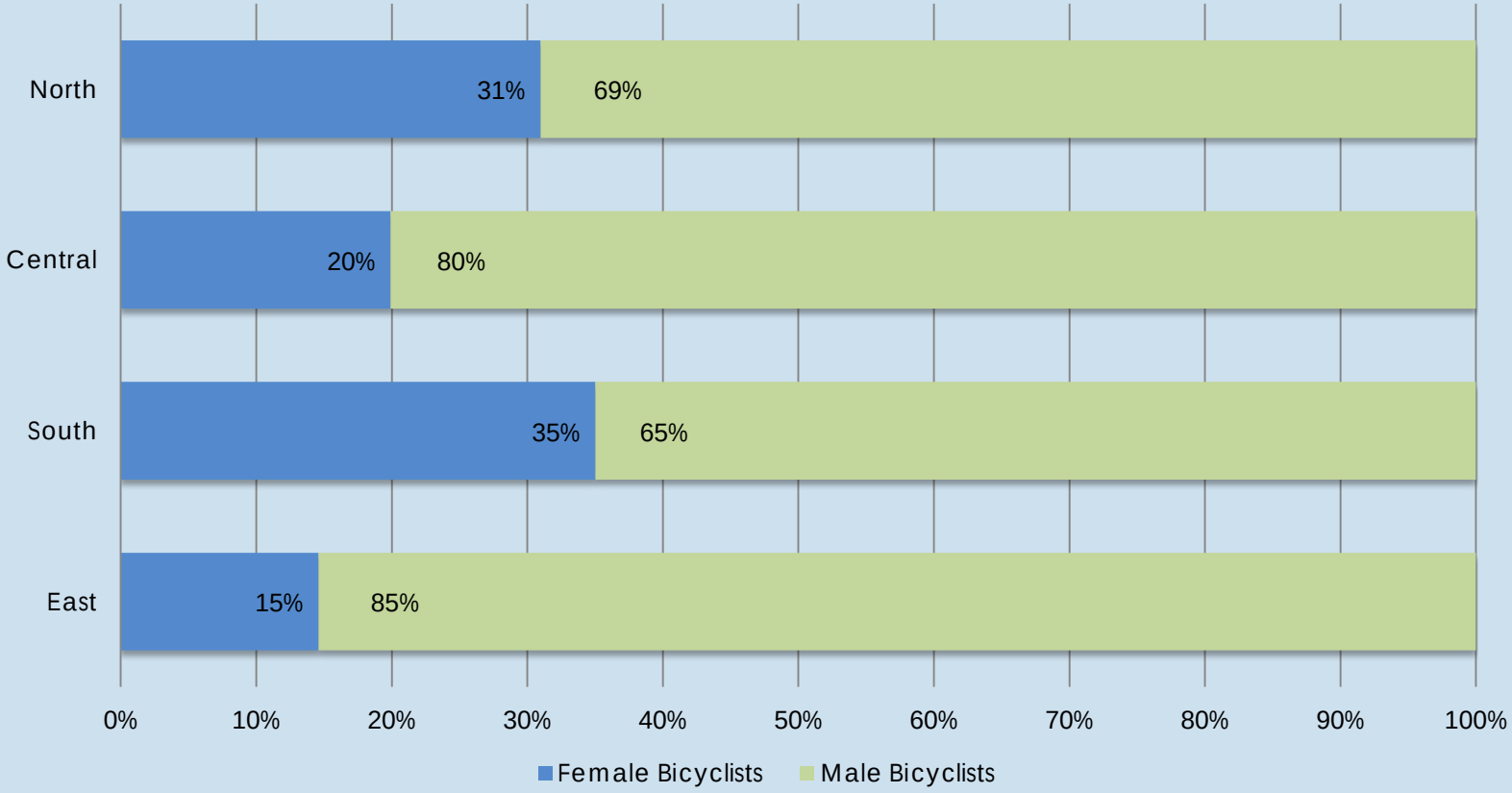

Figure 40: 2011 bicyclist male-female ratio, by planning area (2011; all time periods; 63 sites)

Helmet Usage

- Overall: Increase from 51% in 2010 to 58% in 2011.
- By planning area:

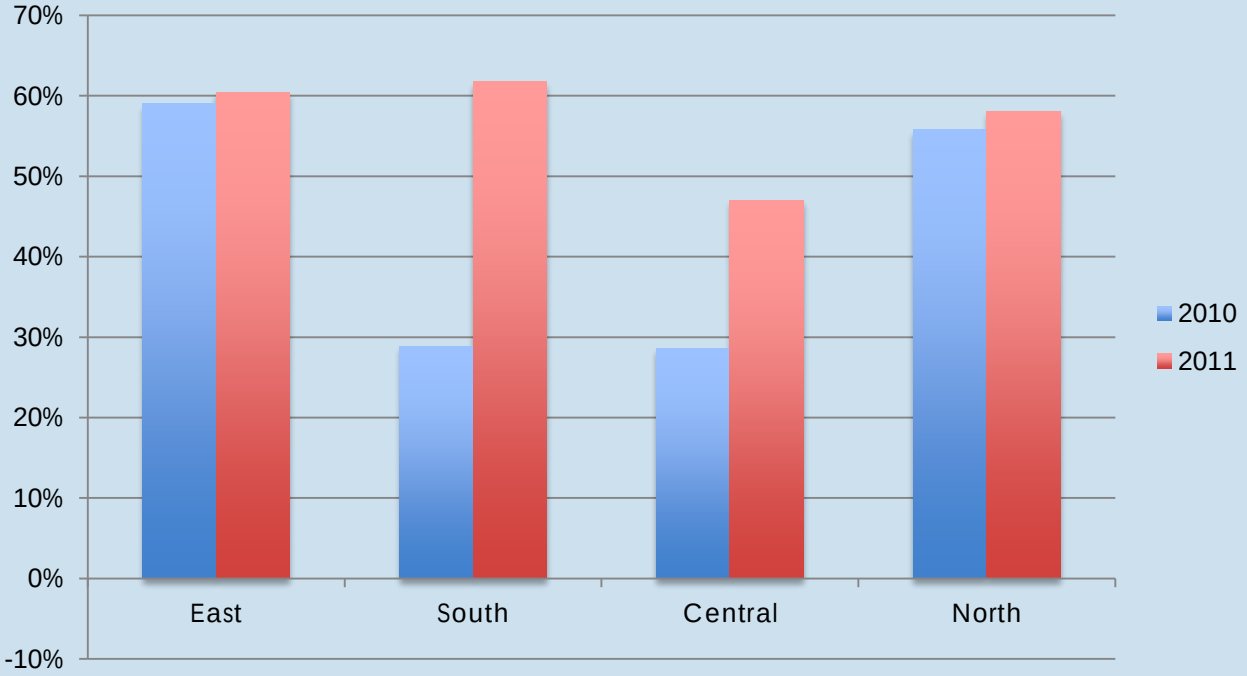

Figure 42: Helmet use by planning area (2010, 2011; all time periods; 63 sites)

Population & Bike/Ped Counts

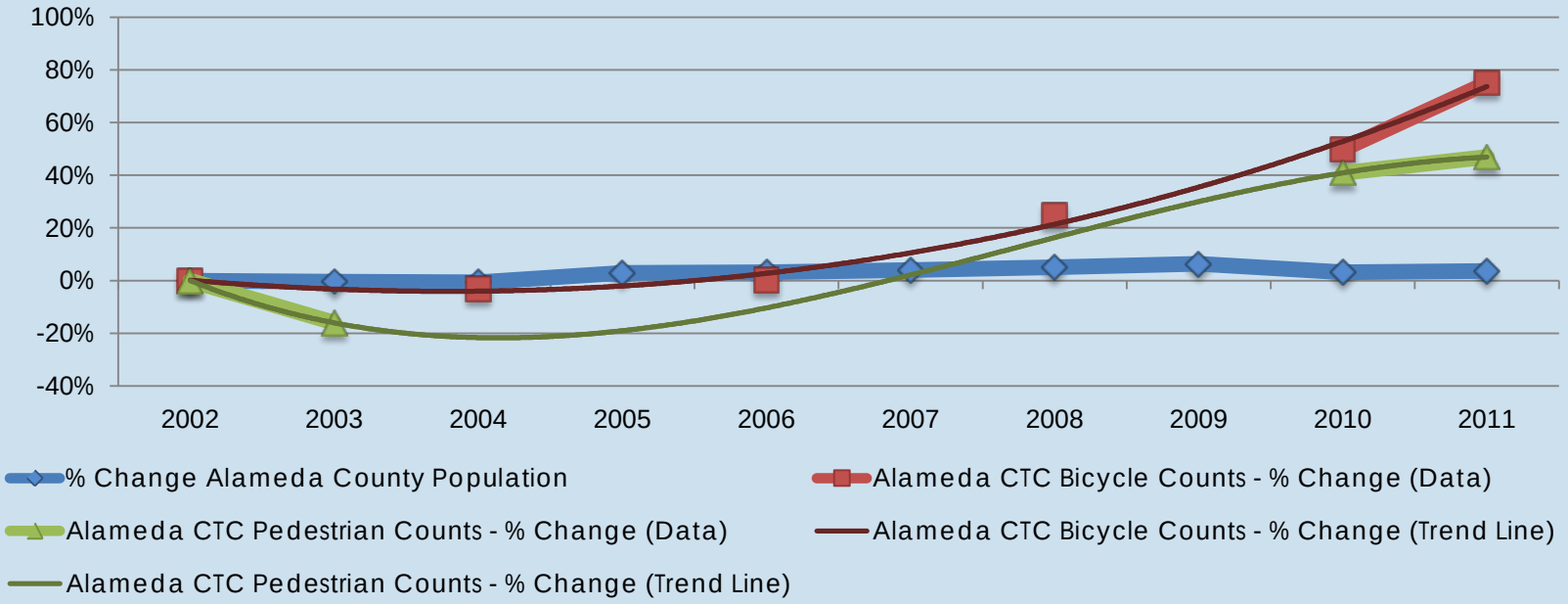

Figure 44: Alameda County population compared with percentage change in bicycle and pedestrian counts relative to 2002

Pedestrian Collisions & Counts

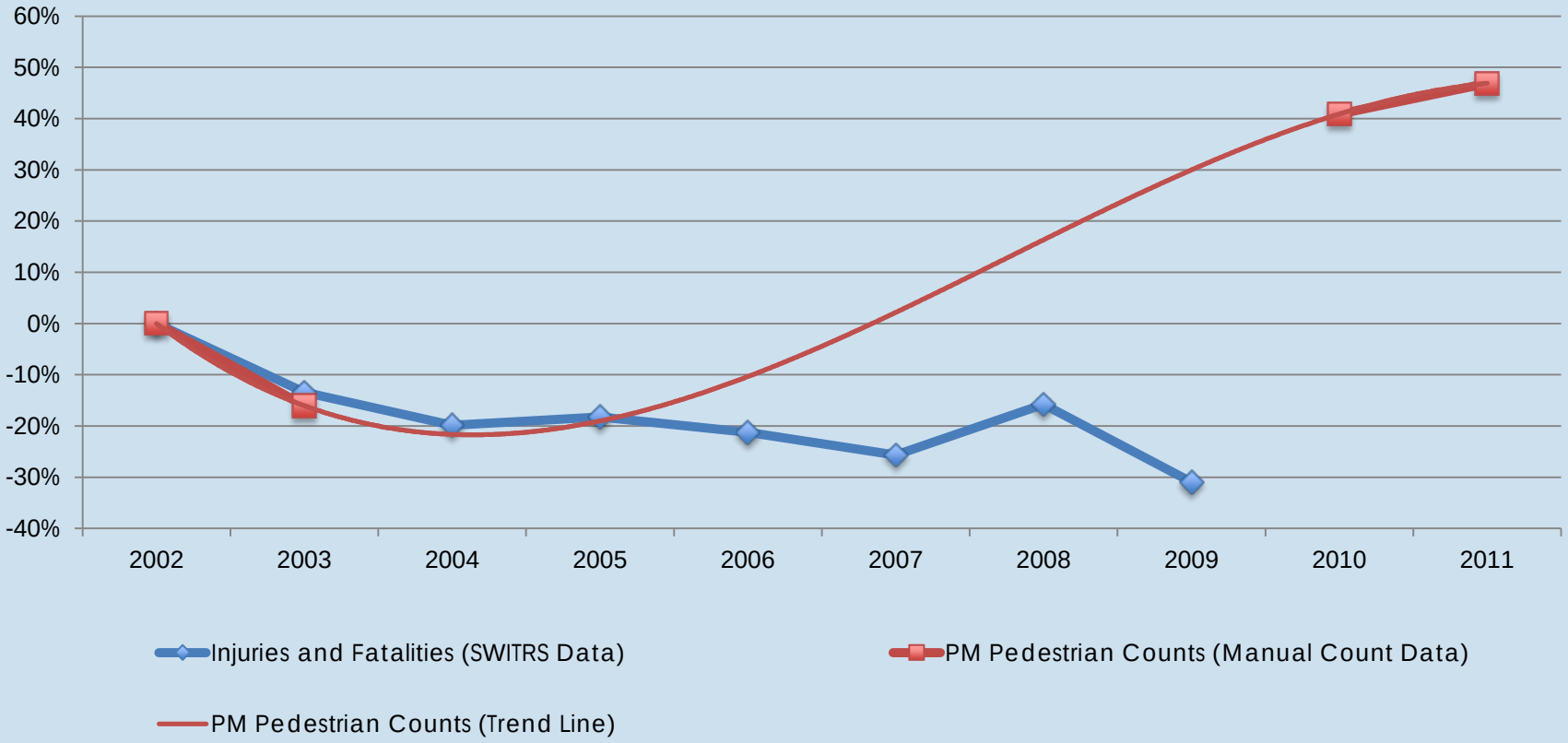

Figure 45: Pedestrians – percent change in injuries and fatalities vs. total counts, relative to 2002 (2002 to 2009 SWITRS data; 2002 to 2011 weekday PM pedestrian count data; 6 sites)

Bicyclist Collisions & Counts

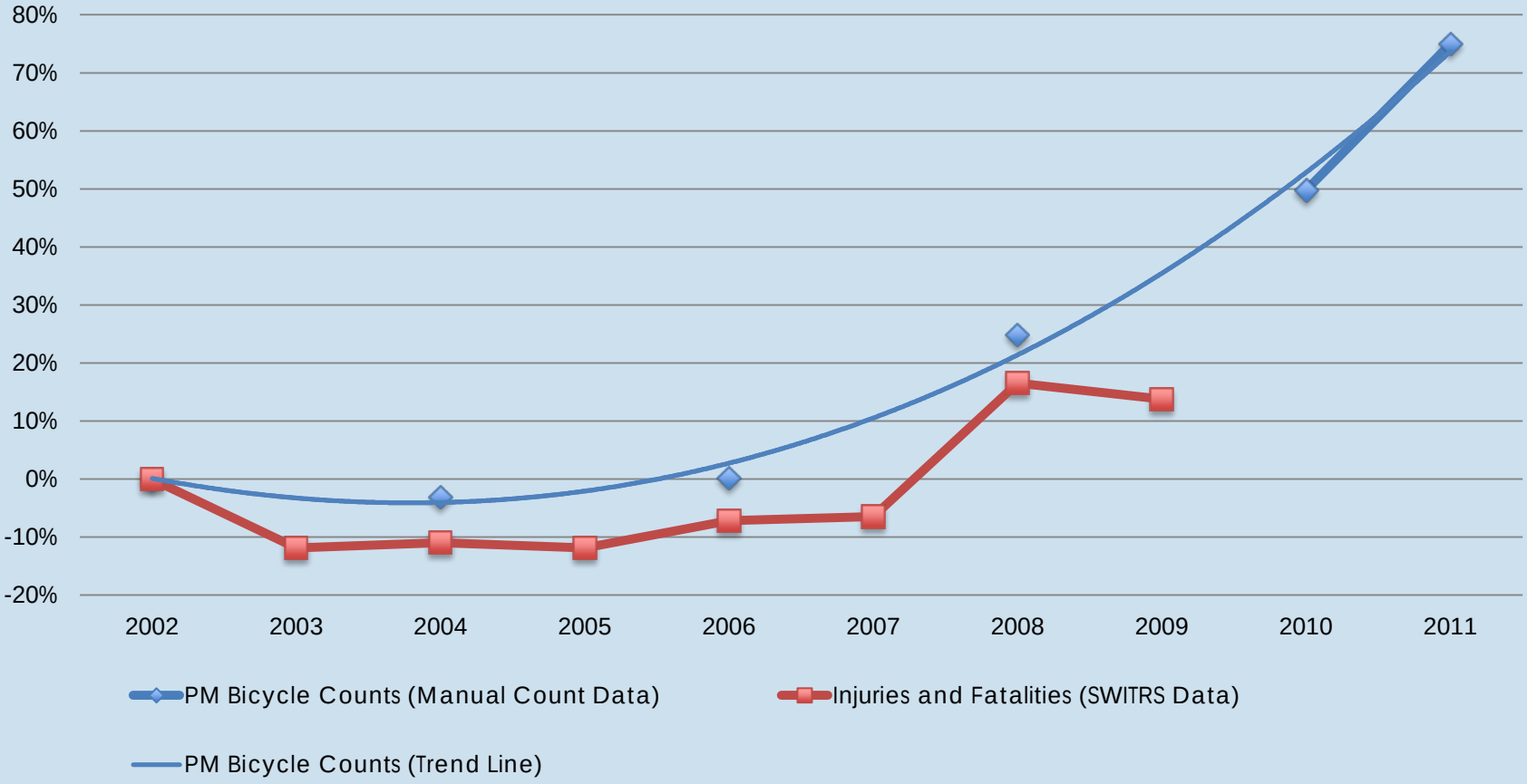

Figure 46: Bicyclists – percent change in injuries and fatalities vs. percent change in counts, relative to 2002 (2002 to 2009 SWITRS data; 2002 to 2011 weekday PM bicycle count data, 9 sites showing trendline)

Count Sites for 2012

- Count at 63 locations in September/October 2012
- Partner with MTC to do counts
- Change two locations, in response to comments:
  - *Newark*
  - *Hayward*
- Explore morning counts at current school sites

Count Sites in 2013 and beyond

- Expand to 100 count locations, to better represent whole county
- Develop list of new locations in FY 2012/13 with stakeholders, including local jurisdictions
- Review and re-evaluate current count sites, and replace as needed
- Consider weekend/recreational counts

Requested ACTAC input

- Counts Report
  - *Feedback?*
- Counts List
  - *Input on changes to 2012 list?*
- Submit additional comments by Friday, July 20 to Rochelle Wheeler, rwheeler@alamedaCTC.org