

Climate Change Adaptation Planning

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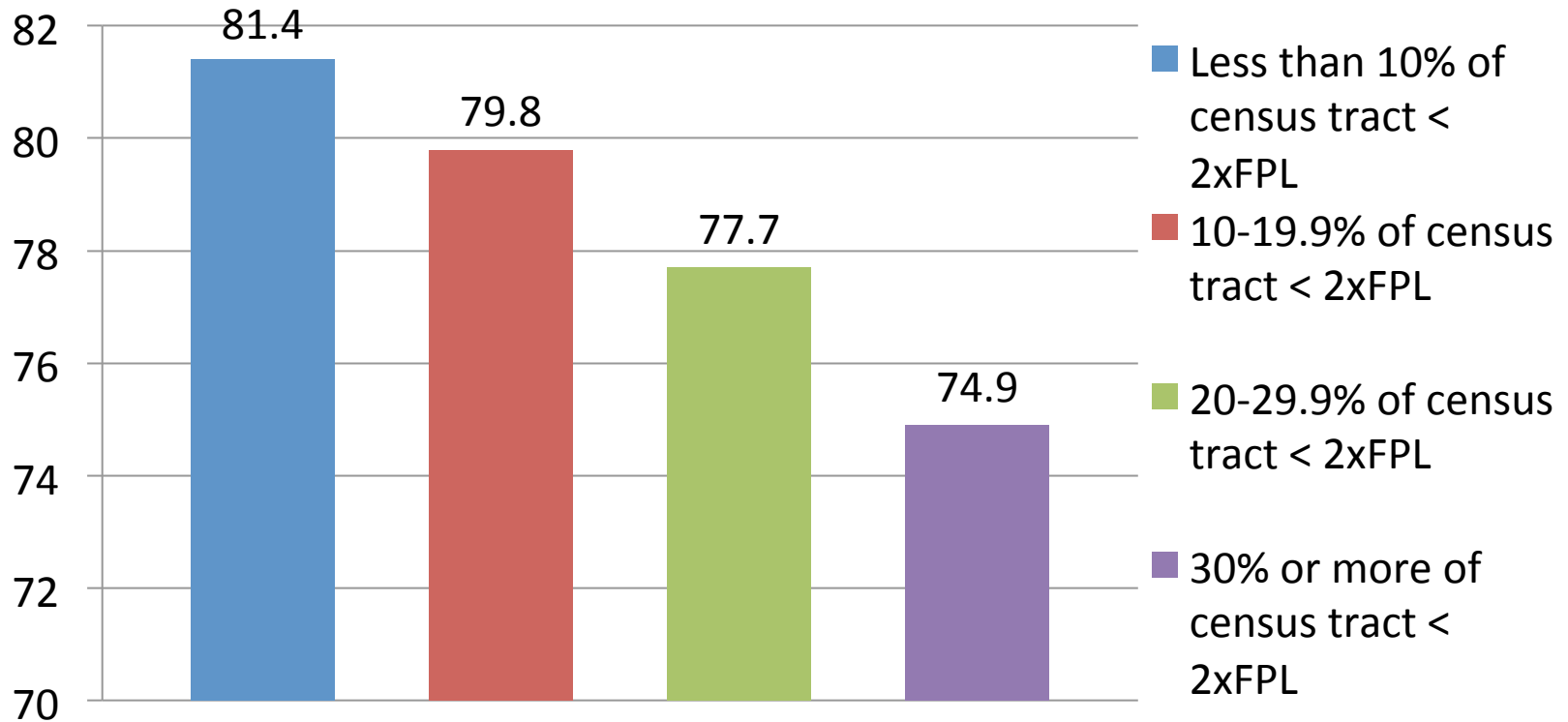
April 18, 2013

Why adaptation is Important

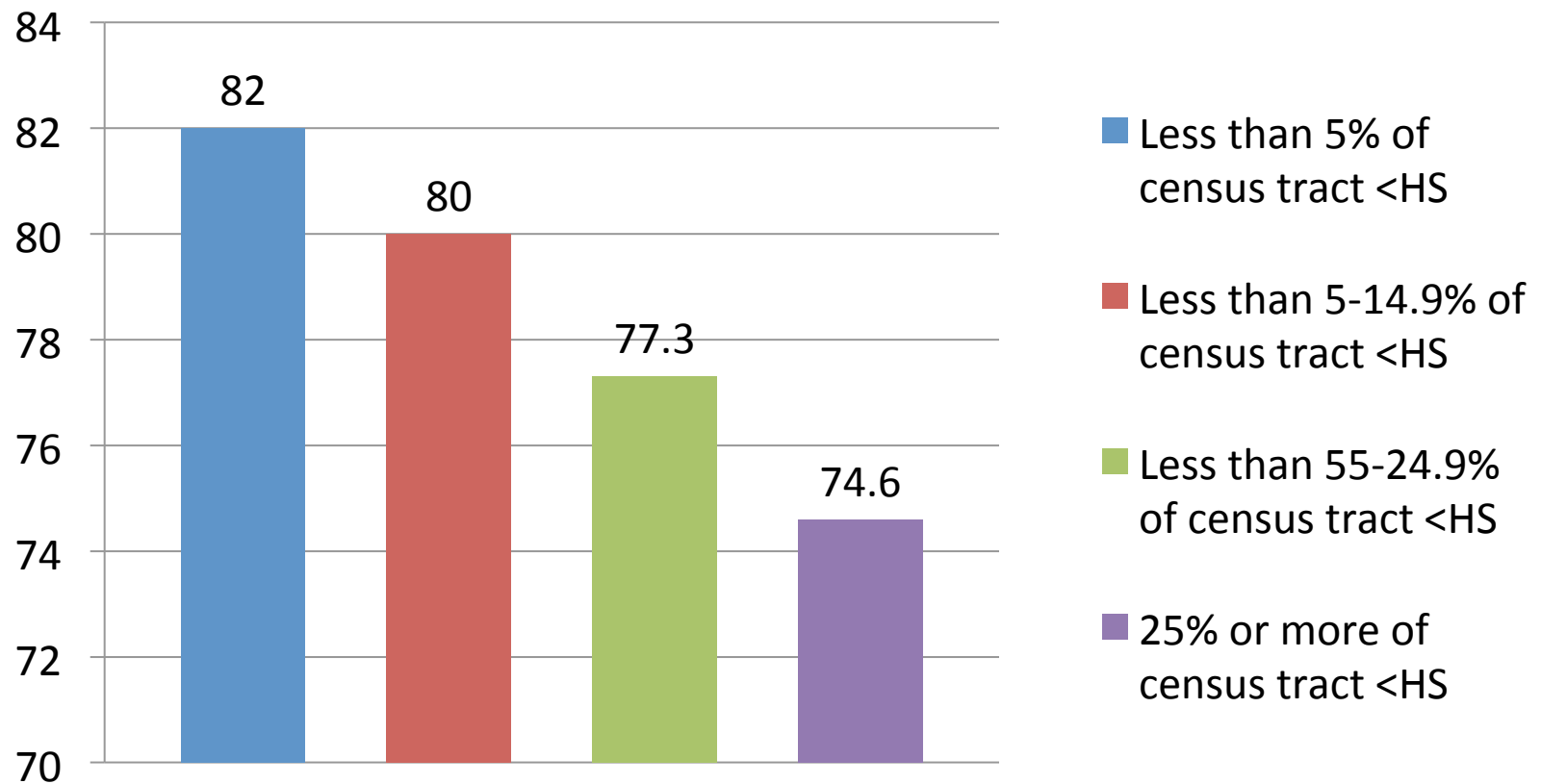
- Climate Change impacts already being felt and will continue to get worse
- The impacts of climate change will exacerbate the already disproportionate health impacts on vulnerable populations such low-income, people of color and less-educated.

Impacts of Disparity on Life Expectancy

Life Expectancy in Contra Costa by Income, 2000

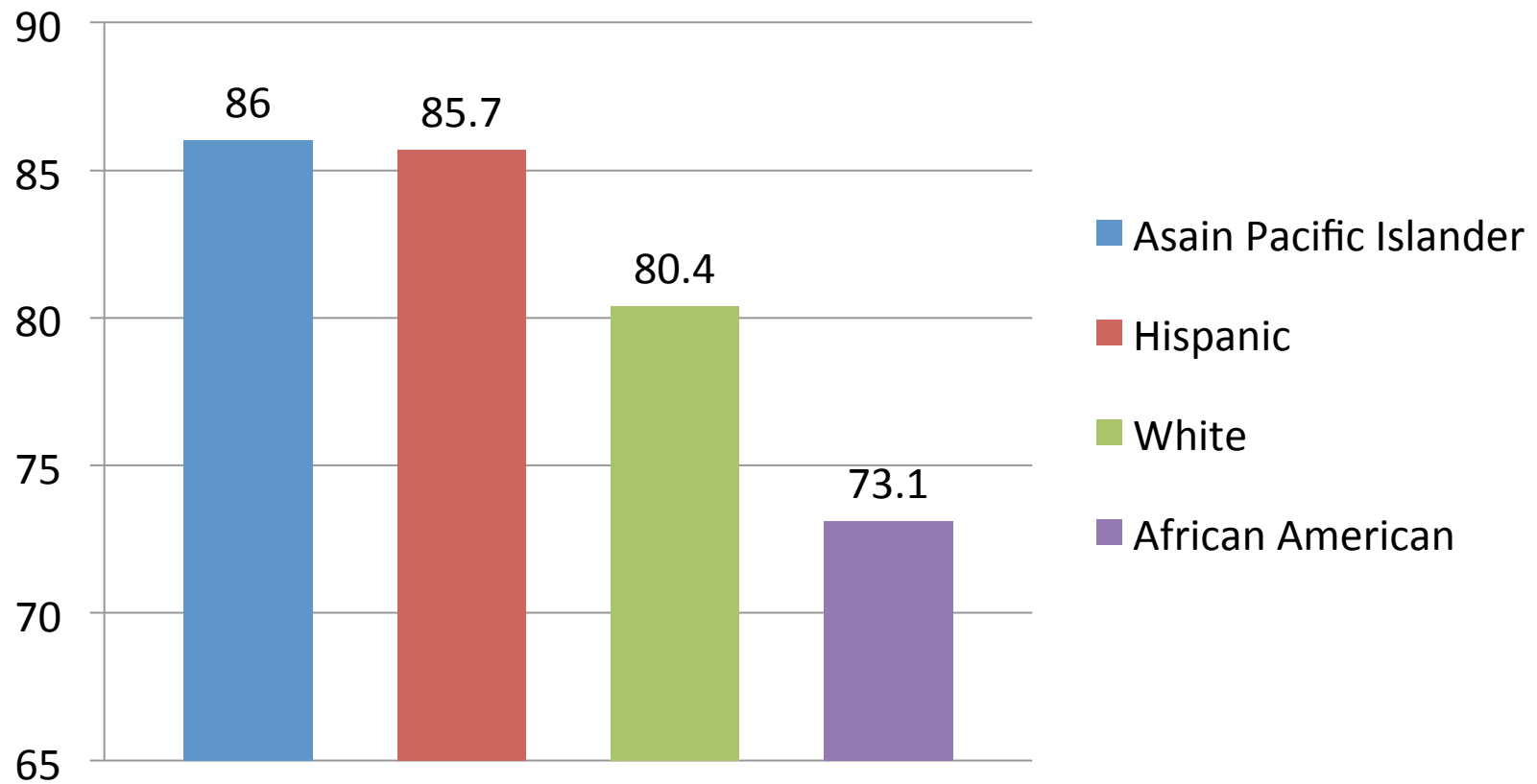


Life Expectancy in Contra Costa by Education, 2000



Source: US Census, 2000

Life Expectancy in Contra Costa by Race, 2005-2007



Source: US Census American Community Survey, 2007

- Main health disparities of concern in Contra Costa County:
 - Heart Disease
 - Cancer
 - Diabetes
 - Asthma

Climate Change Impacts and Vulnerable Populations

Vulnerable Populations

- Low income
- Communities of color
- Low educational attainment
- Very old
- Very young
- Chronically ill
- Socially and linguistically isolated
- Limited mobility

Climate Change Impacts to Health

- Extreme heat
- Poor air quality
- Wildfires
- Severe weather
- Increased average temperature
- Agricultural changes
- Drought

How is the Health Department engaging in adaptation discussions?

- Prepared a co-health benefits evaluation for the County's Climate Action Plan with recommendations to start addressing adaptation
 - Shows immediate benefits of mitigation measures
 - Demonstrates ability of non-health department-led efforts to reduce health disparities (HiAP approach)
 - Identified mitigation measures that are also adaptation measures
 - Provides basis for political support
 - Public receptive to health concerns

CAP Co-health Benefits (Continued)

Health Indicator	Healthy Food	Physical Activity, Walkability, Bikeability	Outdoor Air Quality	Indoor Air Quality	Improved Access	Green Space	Job Creation	Climate Risk Reduction	Health Equity
Reduction Measures	LUT 5.6	EE 5.1 LUT 1.1 LUT 1.2 LUT 1.3 LUT 1.4 LUT 1.5 LUT 1.6 LUT 1.7 LUT 1.8 LUT 1.10 LUT 2.1 LUT 2.2 LUT 2.3 LUT 2.4 LUT 5.5 LUT 6.1 LUT 6.2	ALL	EE 1.1 EE 1.2 EE 1.3 EE 2.1 EE 2.2 EE 2.3 EE 2.4 EE 2.5 EE 2.6 EE 3.1 EE 3.2 EE 3.3 EE 3.4 EE 4.1 EE 4.2 EE 6.2 LUT 1.9 LUT 3.1 LUT 4.1 LUT 4.3 LUT 4.4 LUT 5.1 GO 1.1 GO 4.4	LUT1.1 LUT1.4 LUT1.5 LUT1.6 LUT 1.7 LUT 1.8 LUT 1.10 LUT2.1 LUT2.2 LUT2.3 LUT2.4 LUT5.4 LUT5.5 LUT6.1 LUT6.2 GO4.3	EE 5.1 LUT 2.1 LUT 5.5	EE 2.2 EE 6.1	EE 1.1 EE 1.2 EE 1.3 EE 2.1 EE 2.2 EE 2.3 EE 2.4 EE 2.5 EE 2.6 EE 3.1 EE 3.2 EE 3.3 EE 3.4 EE 4.1 EE 4.2 EE 5.1 EE 5.2 EE 5.3 EE 6.2 LUT 4.2 LUT 5.5 WE 1.1 WE 1.2 WE 2.1 WE 2.2 GO 1.1 GO 2.1 GO 2.2 GO 4.4	EE 2.1 EE 2.2 EE 2.3 EE 4.1 EE 6.1 EE 6.2 RE2.3 LUT 1.2 LUT 1.10 LUT 3.1 LUT 4.1 LUT 4.4 LUT 5.4 W1.5 W 2.1 W 2.2 GO4.5

How is the Health Department engaging in adaptation discussions? (Continued)

- Participate in BARHII Built Environment Committee, developing fact sheets
- Participated in Joint Policy Committee focus group and meetings
- Conducted workshop with City of Richmond and Contra Costa Climate Leaders

How is the Health Department Integrating Adaptation into Programs?



How is the Health Department Integrating Adaptation into Programs?

- Need to incorporate into existing programs
- Tie together different programs – EPI, Emergency Planning, Prevention (built environment, nutrition, health homes), other divisions
- Work with different departments – Planning, Public works. PITCH (Planning Integration Team for Community Health)
- Implementation of CAP measures that are both mitigation and adaptation
- Framing it as a Health-in-All-Policies issue

Successes?

- Framing the benefits of mitigation as health co-benefits in CAP
- Networking
 - Within Health Department
 - Within County
 - With Cities
 - BARHII
 - Joint Policy Council
 - California Department of Public Health
 - Public Health Institute/RAMP
 - NGOs

Challenges?

- Community engagement through traditional means and social media
- Business engagement
- How to quantify and frame the health impacts – general vs vulnerable populations, direct vs indirect impacts
- Just how do you build community resilience?
- Funding?

Lessons learned?

- Slow going
- Do something specific
- Can't go it alone
- Health is a compelling argument