

THINK GREEN

GREEN CITY INDICATOR REPORTS 2008

PASADENA

For the past two and a half years the Green Team of City staff has taken steps to develop and implement the Green City Action Plan, a visionary plan built upon the framework of the 2005 United Nations Urban Environmental Accords. Furthering the goals of the City's plan to become "sustainable" and protect resources for future generations, the Green Team has developed a detailed system for measuring the progress the City is making in achieving specific targets identified in the action plan. Over 170 indicators related to the seven thematic areas and 21 actions of the UEA were identified. As a work-in-progress, the Green Team anticipates refining and augmenting this data as more information and resources become available and as we analyze the results.

Within this report you will find one page dedicated to each of the seven UEA thematic areas and the three associated actions. An indication as to the progress the City has made to achieve the action (achieved, likely or undetermined) and analytic findings for each action are summarized graphically. Found on the reverse side of the page are the indicators and actual data. Some of the UEA actions were written in a manner that relies on a qualitative assessment of progress instead of a quantifiable one (e.g., support local organic foods). For these actions, the Green Team has attempted to identify indicators accordingly.

This report complements the annual Green City Report of accomplishments and represents over a year of dedicated work by the Green Team and often required team members to go beyond their normal activities to ensure the best available data is represented.

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City of Pasadena Green Team

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Pasadena Green City Action Plan Report Card

Year End 2008

| URBAN ENVIRONMENTAL ACCORD ACTION | ACHIEVED | LIKELY | UNDETERMINED |
|-----------------------------------|----------|------------|--------------|
| ENERGY | | | |
| I. Renewable Energy | | | |
| 2. Energy Efficiency | | | (4) |
| 3. Climate Change | | | (4) |
| WASTE REDUCTION | | | 1 |
| 4. Zero Waste | | | |
| 5. Manufacturer Waste | | | |
| 6. Recycling | | 1 | |
| URBAN DESIGN | ' | | |
| 7. Green Building | | | |
| 8. Urban Planning | | | |
| 9. Environmental Jobs | | | |
| URBAN NATURE | , | | |
| 10. Green Space Access | | | |
| II.Tree Canopy | | | |
| 12. Habitat Protection | | | |
| TRANSPORTATION | 1 | | |
| 13. Public Transportation | | | |
| 14. Clean Vehicles | · | | |
| 15.Traffic Congestion | | | |
| ENVIRONMENTAL HEALTH | | 1 | |
| 16.Toxics Reduction | | | |
| 17. Organic Foods | | | |
| 18. Air Quality | | 1 | |
| WATER | | | , |
| 19. Potable Water Conservation | | (4) | |
| 20. Water Source Protection | | | |
| 21.Waste Water Reduction | | | |
| TOTALS | 8 | 9 | 4 |



ENERGY

Urban Environmental Accord (UEA) Action:

Action Status 2008

UEA 1—Renewable Energy:

Increase the use of renewable energy to meet 10% of the City's peak electric load by 2012

Achieved

UEA 2—Energy Efficiency:

Reduce the City's peak electric load by 10% by 2012

UEA 3—Climate Change:

Reduce greenhouse gas emissions by 25% by 2030

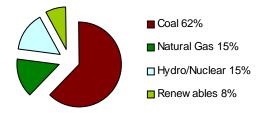
Undetermined

Undetermined

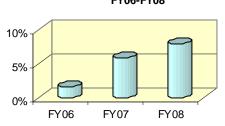
UEA 1—Renewable Energy Action Status:

The City increased its state-qualifying renewable energy from 2% in FY06 to 8% in FY08 and expects to reach 16% by FY12. This year the City contracted a purchase of 30,000 MWh of power generated by methane gas emitted from the Skunk Creek Landfill—enough to power 5,000 Pasadena homes annually. The project is expected to be on line by December 2010. The City purchased green power for all City libraries in FY09.

Pasadena's Energy Resources (FY08)



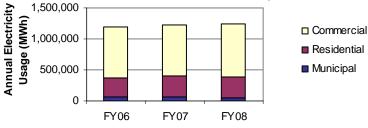
% Renewable Energy Use Citywide FY06-FY08

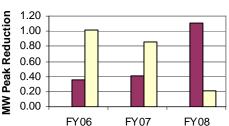


UEA 2—Energy Efficiency Action Status:

The City's goals are to reduce the peak energy load by 10% (32 MW) by 2012 and to reduce energy consumption by an average of 1.33% per year through 2016. The projected peak forecast for 2012 is 322 MW. The average peak energy reduction rate from FY06-F08 was 1.32 MW annually. At the current rate the City would reach a peak reduction of 9 MW (3%) by 2012 or 7% less than the goal. Implementation of recent energy efficiency programs is expected to meet the goal of reducing energy consumption by 1.33% annually by FY09.

City of Pasadena Electricity Usage and Peak Energy Reduction by Customer Class FY06-FY08



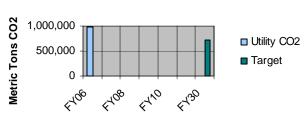


UEA 3—Climate Change Action Status:

The 25% reduction goal in greenhouse gases equates to reducing emissions from utility-supplied energy from 974,000 metric tons CO² to 717,000 tons CO² by 2030. The greenhouse gas inventories related to land use and transportation are being prepared.

| GHG Emissions Source | FY06 | FY07 | FY08 |
|-------------------------|----------------------|------|------|
| GIG EIIISSIONS SOUICE | | | F108 |
| | 974,817 Metric | | |
| Utility Supplied Energy | Tons CO ² | TBD | TBD |
| Transportation | TBD | TBD | TBD |
| Land Use | TBD | TBD | TBD |
| City Facilities | TBD | TBD | TBD |
| City Operations | TBD | TBD | TBD |
| Waste Processing | TBD | TBD | TBD |
| City Fleet | TBD | TBD | TBD |

PWP Supplied Energy - CO2 Emissions



Energy Indicators

| FY2006 | FY2007 | FY2008 |
|--|--|--------------|
| 1.6 | 5.9 | 8.6 |
| 19,535 | 72,731 | 106,813 |
| 0.68 | 1.01 | 1.80 |
| 1,290* | 1,402* | 2,029* |
| 62.9 | 26.9 | 105 |
| 11 | 11 | 26 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 2012 Baseline (<i>Projected</i>) 322 MW | Target 289 MW | |
| FY2006 | FY2007 | FY2008 |
| 1,192,809 | 1,233,915 | 1,237,263 |
| 57,544 | 57,749 | 56,064 |
| 314,235 | 337,816 | 337,314 |
| 818,736 | 835,772 | 853,863 |
| 1,300 | 1,122 | 5,562 |
| 0.36 | 0.41 | 1.11 |
| 3.201 | 2.753 | 899 |
| · | , | 0.21 |
| | | 2 |
| - | | 0 |
| | | Pending |
| | | · · |
| 3,136,166 | 3,062,423 | Pending |
| 2005 Baseline 954,490 metric tons CO ² (Emissions from total City power supply) | Target 717,867 metr (Emissions fro power supply | m total City |
| FY2006 | FY2007 | FY2008 |
| TBD | TBD | TBD |
| TBD | TBD | TBD |
| 974,817 | Pending | Pending |
| TBD | TBD | TBD |
| | 0.68 1,290* 62.9 11 0 0 0 0 2012 Baseline (Projected) 322 MW FY2006 1,192,809 57,544 314,235 818,736 1,300 0.36 3,201 1.02 0 0 2,307,082 3,158,166 2005 Baseline 954,490 metric tons CO² (Emissions from total City power supply) FY2006 TBD TBD TBD 974,817 TBD TBD TBD TBD | 1.01 |

^{*}Running Total (All Figures are Annual Totals Except as Noted*)

N/A—Not Available TBD-To Be Determined

WASTE REDUCTION

Urban Environmental Accord Action:

UEA 4—Zero Waste:

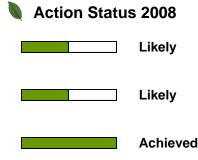
Achieve zero waste to landfills and incinerators by 2040

UEA 5—Manufacturer Waste:

Reduce the use of a disposable, toxic or non-renewable product category by at least 50% by 2012

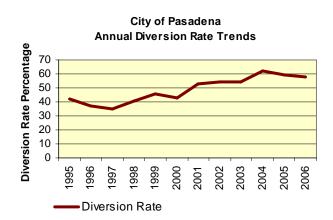
UEA 6—Recycling:

Implement "user-friendly" recycling and composting programs with the goal of reducing by 25% per capita solid waste disposal to landfills and incineration by 2012



UEA 4—Zero Waste Action Status:

The calendar year (CY) 2004 California Integrated Waste Management Board (CIWMB) certified diversion rate for the City is 62%. The preliminary reports for CY05 and CY06 indicate diversion rates of 59% and 58% (pending CIWMB certification). In CY08 the diversion rate requirements of licensed waste haulers in the City was increased from 50% to 60% for general waste material and to 75% for construction and demolition debris material.

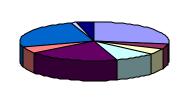


UEA 5—Manufacturer Waste Action Status:

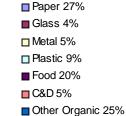
The most current data available on waste stream material composition, identifying disposable, toxic or non-renewable product category, is from a 1999 statewide waste characterization study published by the CIWMB. The data is based on statewide estimates and indicates that paper, food, plastic and other organic material (leaves and grass) make up the majority of the waste stream.

In support of the reduction of a disposable product by 50%, staff is recommending a proposal to prohibit the distribution of single-use plastic carryout bags and to establish a fee on paper carryout bags.

Composition of Disposed Materials for Residential Sector



Figures derived from California Integrated Waste Board 1999 Statewide Waste Characterization Study



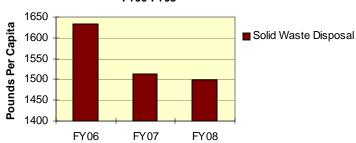
Special Waste 1%

■ Mixed Residue 4%

UEA 6—Recycling Action Status:

The City has over twelve "user-friendly" recycling and composting programs in place. Per capita solid waste disposal decreased from 1,634 pounds in FY06 to 1,498 pounds in FY08, a decrease of 136 pounds per capita (8%) over a 3 year period. An FY05 baseline is not currently available. Using FY06 as a baseline, an additional annual reduction of 272 pounds per capita is needed to reach the 25% reduction goal by 2012.

City of Pasadena Annual Per Capita Solid Waste Disposal FY06-FY08



Waste Reduction Indicators

| UEA 4—Zero Waste: Achieve zero waste to landfills and incinerators by 2040 | 2004 Baseline 62% Diversion | | Target 100% Diversion |
|---|------------------------------------|---------|--|
| Indicator | FY2006* | FY2007 | FY2008 |
| Tons of solid waste generated citywide | 258,752 | 241,370 | 230,224 |
| Pounds of solid waste generated per capita | 3,590 | 3,349 | 3,195 |
| Pounds of solid waste disposed per capita | 1,634 | 1,514 | 1,498 |
| Tons of solid waste landfilled | 117,755 | 109,123 | 107,962 |
| Tons of solid waste diverted from landfills | 140,997 | 132,247 | 122,263 |
| Percent of solid waste diverted from landfills into recycling programs | 58% | Pending | Pending |
| UEA 5—Manufacturer Waste: Reduce the use of a disposable, toxic or non-renewable product category by at least 50% by 2012 | 2005 Baseline 0% Reduction | | Target 50% Reduction |
| Indicator | FY2006 | FY2007 | FY2008 |
| Toxic waste generators citywide | N/A | N/A | Pending |
| Tons of toxic waste generated citywide | 4,769 | 2,640 | Pending |
| UEA 6—Recycling: Implement "user-friendly" recycling and composting programs with the goal of reducing by 25% per capita solid waste disposal to landfills and incineration | 2004 Baseline TBD | | Target 25% Per Capita Reduction |
| Indicator | FY2006 | FY2007 | FY2008 |
| Per capita solid waste disposal | 1,634 | 1,514 | 1,498 |
| Tons of green waste recycled | 19,812 | 16,970 | 15,931 |
| Gallons of hazardous waste recycled | N/A | 7,794 | Pending |
| Pounds of electronic waste recycled | 44,000 | 75,000 | 74,089 |
| | | | |

19,011

18,738

17,213

Tons of construction and demolition debris recycled

URBAN DESIGN

Urban Environmental Accord Action:

UEA 7—Green Building:

Mandate a green building rating system standard that applies to all new municipal buildings.

UEA 8—Urban Planning:

Advance higher density, mixed use, walkable, bikeable and disabled accessible neighborhoods which coordinate land use and transportation with open space systems for recreation and ecological restoration.

UEA 9—Environmental Jobs:

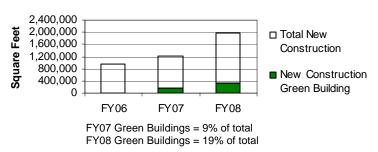
Create environmentally beneficial jobs in low-income neighborhoods.



UEA 7—Green Building:

In FY05 the City Council approved the Green Building Practices Ordinance, and adopted by reference the LEED (Leadership in Energy and Environmental Design) green building rating system for private sector and municipal buildings. To date 5 projects have received LEED certification and 23 projects are LEED registered.

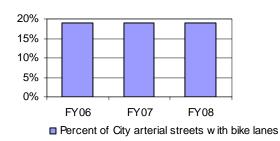
City of Pasadena Green Building Growth FY06-FY08



UEA 8—Urban Planning:

From FY06 to FY08 the City maintained 60 miles of bike lanes; added 113 new curb ramps and retrofitted 351 ramps with detectable warning surfaces, to improve accessibility. As of FY08 the City has 840.5 acres of Cityowned parks and open space and in FY08 the City adopted the Green Space, Parks & Recreation Element to guide the development and management of recreation facilities and programs.

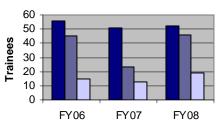
City of Pasadena Bike Lane Development FY06-FY08



UEA 9—Environmental Jobs:

The City's MASH training program provides opportunity to gain skills and work habits necessary to obtain a permanent job. Training includes work experience with City waste reduction & recycling programs; water & energy efficiency programs; urban revitalization programs; and disaster response programs.

City of Pasadena MASH Program



- Trainees in MASH Program
- Trainees hired for temporary City positions for program year
- Trainees hired for permanent positions

Urban Design Indicators

| UEA 7—Green Building: Mandate a green building rating system standard that applies to all new municipal buildings | 2005 Baseline PMC 14.90 Green Building Ordinance | | Target Green Building Rating System |
|---|---|-----------|--|
| Indicator | FY2006* | FY2007 | FY2008 |
| LEED (Leadership in Energy & Environmental Design) certified buildings | 3* | 4* | 5* |
| LEED registered buildings | 5* | 11* | 23* |
| LEED certified municipal buildings | 0* | 0* | 1* |
| Square footage of LEED projects - building permits issued | - | 155,040 | 313,642 |
| Square footage of new construction | 1,287,163 | 1,749,889 | 1,665,906 |

UEA 8—Urban Planning:

Advance higher density, mixed use, walkable, bikeable and disabled accessible neighborhoods which coordinate land use and transportation with open space systems for recreation and ecological restoration

2004 BaselineGeneral Plan Elements

Target
Sustainable Urban
Planning

| Indicator | FY2006 | FY2007 | FY2008 |
|--|--------|--------|--------|
| Acres of City owned parks and open space | N/A | 840.5 | 840.5 |
| Percent of total miles of City streets with bike lanes | 19* | 19* | 19* |
| Percent of residential, mixed-use projects within 1/4 mile of public transit | 100 | 100 | 100 |
| New accessible ramps | 50 | 14 | 49 |
| Retrofitted accessible ramps | N/A | 15 | 336 |
| Intersections with tactile signal controls | 0 | 0 | 13 |

| UEA 9—Environmental Jobs: Create environmentally beneficial jobs in low-income | 2004 Baseline MASH Program | Target A Policy; |
|--|--------------------------------------|----------------------------|
| neighborhoods | 70 Trainees/Year | A Program |

| Indicator | FY2006 | FY2007 | FY2008 |
|---|--------|--------|--------|
| New jobs created in Pasadena that target low-income neighborhoods | N/A | N/A | 89 |
| Trainees in MASH program | 56 | 51 | 52 |
| MASH trainees hired for temporary City positions for program year | 45 | 23 | 46 |
| MASH trainees hired for permanent positions | 15 | 13 | 19 |
| Clean/Green technology businesses in Pasadena | TBD | TBD | TBD |
| Green certified businesses in Pasadena | N/A | N/A | N/A |

URBAN NATURE

Urban Environmental Accord Action:

Ensure that there is an accessible public park or recreational open space within 1/2 kilometer of all residents by 2015

UEA 11—Tree Canopy:

Conduct an inventory of existing canopy coverage in the City; and, then establish a goal to plant and maintain canopy coverage in not less than 50% of all available sidewalk planting sites

UEA 12—Habitat Protection:

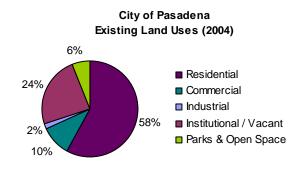
UEA 10—Green Space Access:

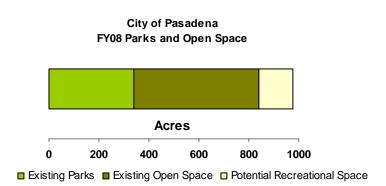
Protect critical habitat corridors and other key habitat characteristics from unsustainable development

Action Status 2008 Undetermined Achieved Achieved

UEA 10—Green Space Access Action Status:

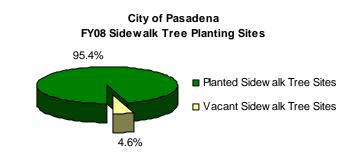
As of FY08, there are 840 acres of dedicated parks and open space for recreational use, equivalent to 254 square feet per capita. An additional 136 acres of potential recreational space is available through the City's joint use agreement with PUSD schools, which allows for schools to function as neighborhood parks. A pilot program at Madison Elementary School launched in CY06 provided 2.2 acres of recreational space for public use during non-school hours. An analysis of the percentage of residents within 1/2 kilometer of an accessible public park or recreational open space is pending.





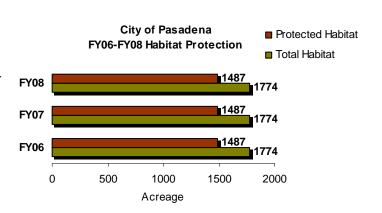
UEA 11—Tree Canopy Action Status:

In October 2008 the City completed a tree canopy coverage survey which identified 4,209 acres of canopy coverage in the City, equivalent to 28.6% of the City's total land acreage. In FY08 95.4% of the City's 62,000 sidewalk planting sites contained trees.



UEA 12—Habitat Protection Action Status:

The City has adopted policies for guiding the preservation of existing critical wildlife habitat corridors and key habitat characteristics. 84% of the City's habitat remains protected. From FY06-FY08 7.45 acres of habitat were restored and \$1,880,200 in funding was secured for habitat restoration. In 2008 the City completed a historic \$2.5 million stream restoration project in the Central Arroyo to improve water quality and re-establish native fish.



Urban Nature Indicators

| UEA 10—Green Space Access: Ensure that there is an accessible public park or recreational open space within 1/2 kilometer of all residents by 2015 | 2007 Baseline Green Space, Recreation & Parks Element & Master Plan | | Target Implement Measures in Plan | |
|--|---|--|--|--|
| Indicator | FY2006 | FY2007 | FY2008 | |
| Acres of City-owned parks and open space | N/A | 840.5* | 840.5* | |
| Square feet of City-owned parks and open space per capita | N/A | 254* | 254* | |
| Percent of households within 1/4 mile of a park or recreational open space | Pending | Pending | Pending | |
| Percent of households within 1/2 mile of a park or recreational open space | Pending | Pending | Pending | |
| Acres of City-owned parks and open space added | 7.6 | 0 | 0 | |
| Lineal feet of total existing hiking trails | 144,954* | 146,754* | 146,754* | |
| Lineal feet of new/restored hiking trails | 8165 | 2132 | 500 | |
| Schools included in the City's Joint Use Agreement with PUSD, allowing schools to function as neighborhood parks | 22* | 22* | 22* | |
| Schools functioning as neighborhood parks | 1* | 1* | 2* | |
| UEA 11—Tree Canopy: Conduct an inventory of existing canopy coverage in the City; and, then establish a goal to plant and maintain canopy coverage in not less than 50% of all available sidewalk planting sites | 2005 Baseline 96% Planting Sites F | illed | Target Tree Canopy Inventor 50% Canopy Coverag | |
| | | | | |
| Indicator | FY2006 | FY2007 | FY2008 | |
| Indicator Percent of tree canopy coverage in the Public Right Of Way (P.R.O.W.) | FY2006 N/A | FY2007 N/A | FY2008 85 | |
| | | | | |
| Percent of tree canopy coverage in the Public Right Of Way (P.R.O.W.) | N/A | N/A | 85 | |
| Percent of tree canopy coverage in the Public Right Of Way (P.R.O.W.) Sidewalk tree sites | N/A 61,000* | N/A 61,000* | 85 62,000* | |
| Percent of tree canopy coverage in the Public Right Of Way (P.R.O.W.) Sidewalk tree sites Vacant sidewalk tree sites | N/A 61,000* 4,500 | N/A 61,000* 3,371 | 85 62,000* 2,837 | |
| Percent of tree canopy coverage in the Public Right Of Way (P.R.O.W.) Sidewalk tree sites Vacant sidewalk tree sites Percent of all sidewalk tree sites vacant | N/A 61,000* 4,500 7.38 | N/A 61,000* 3,371 5.53 524 | 85 62,000* 2,837 4.6 | |

1774.36*

1486.6*

5.7

1774.36*

1486.6*

1.75

280,000

1774.36*

1486.6*

0

1,600,200

Habitat acres in the City

Acres of protected habitat

Acres of habitat restored

Funding secured for habitat restoration

TRANSPORTATION

Urban Environmental Accord Action:

UEA 13—Public Transportation:

Expand affordable public transportation coverage to within 1/2 kilometer of all City residents by 2015

UEA 14—Clean Vehicles:

Phase down sulfur levels in diesel and gasoline fuels; use advanced emission controls on all public fleets to reduce particulate matter and smog-forming emissions from those fleets by 50% by 2012

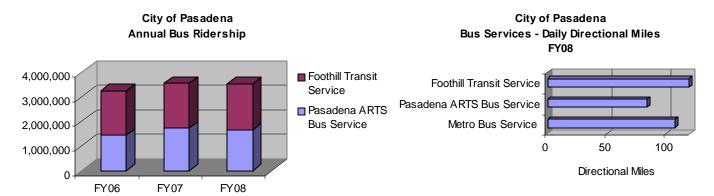
UEA 15—Traffic Congestion:

Implement a policy to reduce the percentage of commute trips by single occupancy vehicles by 10% by 2012

Action Status 2008 Achieved Likely

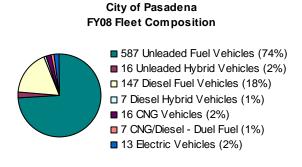
UEA 13—Public Transportation Action Status:

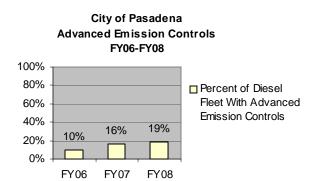
100% of all Pasadena residents and businesses are within 1/2 mile from a public transit stop. There are 29 public transit routes throughout the City and 710 bus stop locations. Ridership data for the Foothill Transit and Pasadena ARTS bus services shows an increase in combined annual ridership from 3,228,921 in FY06 to 3,511,701 in FY08. Bus services run a range from 80 to 120 directional miles daily.



UEA 14—Clean Vehicles Action Status:

In FY08 the City's fleet consisted of 793 vehicles, 8% of which are powered by alternative fuel other than traditional diesel and unleaded fuel. 19% of all diesel fleet have been retrofitted with advanced emission controls, and remaining vehicles are on a schedule to be retrofitted with a goal of 100% completion by 2012. An emissions inventory is currently being developed to determine the baseline for the 50% reduction goal.





UEA 15—Traffic Congestion Action Status:

The City has implemented a policy to reduce the percentage of commute trips by single occupancy vehicles. The Mobility Element objectives support the goal of this Action by increasing the availability and use of transit, promoting bicycle and pedestrian travel, enforcing stricter parking requirements for new developments in transit-oriented zones, and managing traffic on multi-modal corridors.

Transportation Indicators

| UEA 13—Public Transportation: Expand affordable public transportation coverage to within 1/2 kilometer of all City residents by 2012 | 2005 Baseline 100% | | arget 00% |
|---|---------------------------|---------|--------------|
| Indicator | FY2006* | FY2007 | FY2008 |
| Percent of residents within 1/2 mile of public transit | 100 | 100 | 100 |
| Percent of businesses within 1/2 mile of public transit | 100 | 100 | 100 |
| Number of public transit routes by all agencies (Metro; Foothill Transit; Pasadena ARTS) | N/A | N/A | 29 |
| Metro bus service daily directional miles | 111.8* | 106.9* | 107.9* |
| Pasadena ARTS bus service daily directional miles | N/A | N/A | 84 |
| Foothill Transit service daily directional miles | 119.55* | 119.55* | 119.55* |
| Total directional miles of all public transit services citywide | N/A | N/A | N/A |
| Number of bus stops | N/A | N/A | 710 |

| UEA 14—Clean Vehicles: | 2005 Baseline | Target |
|---|---------------|---------------|
| Phase down sulfur levels in diesel and gasoline fuels; use advanced | TBD | 50% Reduction |
| emission controls on all public fleets to reduce particulate matter and | | |
| smog-forming emissions from those fleets by 50% by 2012 | | |

| Indicator | FY2006 | FY2007 | FY2008 |
|--|--------|--------|--------|
| Vehicles in City fleet | 771* | 778* | 793* |
| Percent of City fleet vehicles which are alternative fuel vehicles | 18 | 20 | 8 |
| Percent of City diesel fleet vehicles which are biodiesel vehicles | 77 | 75 | 0 |
| Percent of City fleet vehicles which are hybrid vehicles | 1 | 1 | 3 |
| Percent of City diesel fleet vehicles retrofitted with particulate traps | 10 | 16 | 19 |

| UEA 15—Traffic Congestion Implement a policy to reduce the percentage of commute trips by single occupancy vehicles by 10% by 2012 | 2005 Baseline T.B.D | | |
|--|------------------------|-----------|-----------|
| Indicator | FY2006 | FY2007 | FY2008 |
| Average vehicle ridership for Air Quality Management District (AQMD) regulated sites | 1.28 | 1.06 | Pending |
| City traffic reduction and transportation improvement fees collected | 0 | 0 | 2,027,000 |
| Total miles of bike paths citywide | 60* | 60* | 60* |
| Bike racks in the public right of way | 250* | 300* | 350* |
| Pasadena ARTS bus service ridership in Pasadena | 1,435,400 | 1,710,900 | 1,654,144 |
| Foothill Transit service ridership in Pasadena | 1,793,521 | 1,831,884 | 1,857,557 |
| Metro bus service ridership (ridership through Pasadena) | 4,414,340 | 4,109,763 | 3,969,572 |
| Metro Gold Line ridership (ridership through Pasadena) | 5,308,000 | 5,955,000 | 6,521,279 |

ENVIRONMENTAL HEALTH

Urban Environmental Accord Action:

UEA 16—Toxics Reduction:

Every year identify one product, chemical or compound that is used within the City that represents the greatest risk to human health and reduce or eliminate its use by the municipal government

UEA 17—Organic Foods:

Support the public health and environmental benefits of locally grown organic foods. Ensure that 20% of all City facilities (including schools) serve locally grown and organic food by 2012

UEA 18—Air Quality:

Establish an Air Quality Index (AQI) to measure the level of air pollution and set the goal of reducing by 10% by 2012 the number of days categorized in the AQI range as "unhealthy" or "hazardous"

| Action Status 2008 | | | |
|--------------------|--------------|--|--|
| | Likely | | |
| | Likely | | |
| | Undetermined | | |

UEA 16—Toxics Reduction Action Status:

In FY08 City staff began conducting an inventory of toxic products used by City departments. In FY09 the Department of Public Works included green cleaning program guidelines in the citywide housekeeping contract, requiring the use of certified Green Seal standard products for the cleaning of all City facilities.

UEA 17—Organic Food Action Status:

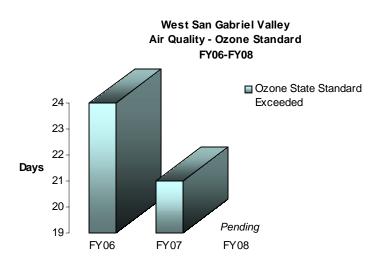
In FY08 the Pasadena Public Health Department conducted surveys of Pasadena restaurants, including an assessment of organic food options available. Survey findings indicate that less than 1% of City restaurants serve organic food. It has not been determined whether individual schools are serving locally grown and organic food.

| | City of Pasadena Green Cleaning Requirements For All Municipal Facilities |
|-----|---|
| Use | of Green Seal Certified Products |
| | Nontoxic |
| | Biodegradable |
| | No Solvents |
| | Chlorine Free |
| | Phosphate-Free |
| | Non-Petroleum Based |
| | |

| Organic Food Indicator | FY06 | FY07 | FY08 |
|---|------|------|------|
| Locally grown, organic produce served at City sponsored events | TBD | TBD | TBD |
| Locally grown, organic produce served at City-owned and operated facilities | TBD | TBD | TBD |
| Locally grown, organic produce served at PUSD schools | TBD | TBD | TBD |
| Pasadena restaurants that serve locally grown, organic food | <1% | <1% | <1% |

UEA 18—Air Quality Action Status:

The Southern California Air Quality Management District provides air quality reports for the West San Gabriel Valley. In the CY03 baseline year, 50 days were categorized as "unhealthy". Data indicates a reduction to 24 days in FY06 and to 21 days in FY07 in which the state ozone standard was exceeded. The number of samples testing above maximum allowable federal standards for fine particulate matter increased from 1 in FY06 to 3 in FY08.



Environmental Health Indicators

| · | | | |
|--|--------------------------------------|-----------------|------------------------|
| UEA 16—Toxics Reduction: Every year identify one product, chemical or compound that is used within the City that represents the greatest risk to human health and reduce or eliminate its use by the municipal government | 2005 Baseline 0 Bans | | i rget Bans |
| Indicator | FY2006* | FY2007 | FY2008 |
| Volume of vector control product used for vector control in City buildings | TBD | TBD | TBD |
| Volume of pesticides used in City-owned parks and open spaces | TBD | TBD | TBD |
| Volume of pesticides used in City buildings | TBD | TBD | TBD |
| Categories of toxic products reduced from use by City government and/or switched to Green Seal certified products | 6 | 0 | 1 |
| Municipal green procurement alerts | 0 | 2 | 1 |
| UEA 17—Organic Foods: Support the public health and environmental benefits of locally grown organic foods. Ensure that 20% of all City facilities (including schools) serve locally grown and organic food by 2012 | 2005 Baseline 0% | Ta 20 | irget 9% |
| Indicator | FY2006 | FY2007 | FY2008 |
| Percent of locally grown, organic produce served at City sponsored events | TBD | TBD | TBD |
| Percent of locally grown, organic produce served at City-owned and operated facilities | TBD | TBD | TBD |
| Percent of locally grown, organic produce served at PUSD schools | TBD | TBD | TBD |
| Percent of Pasadena restaurants that serve organic food | <1 | <1 | <1 |
| Special event permits issued | 71 | 83 | Pending |
| Special event permits including locally grown, organic food requirements of vendors | N/A | N/A | N/A |
| Restaurants citywide Pasadena Farmers' Markets total annual sales \$ | N/A | N/A | N/A |
| Percent of organic food sold at Pasadena Farmers' Markets | N/A | N/A | N/A |
| UEA 18—Air Quality Establish an Air Quality Index (AQI) to measure the level of air pollution and set the goal of reducing by 10% by 2012 the number of days categorized in the AQI range as "unhealthy" or "hazardous" | 2003 Baseline 50 Days "Unhealthy" | | orget 19% Reduction |
| Indicator | FY2006 | FY2007 | FY2008 |
| Number of days for which the Ozone state standard was exceeded | 24 | 21 | Pending |
| Number of days for which the Ozone federal standard was exceeded | 7 | 11 | Pending |
| Number of samples which exceeded the federal standard for fine particulates | 1 | 3 | Pending |
| | | | |

N/A

N/A

N/A

Number of days air standard was categorized as unhealthy due to a fire-related event

WATER

Urban Environmental Accord Action:

UEA 19—Potable Water Conservation:

Reduce per capita water consumption by 10% by 2015

UEA 20—Water Source Protection:

Protect the ecological integrity of the City's primary drinking water sources

UEA 21—Wastewater Reduction:

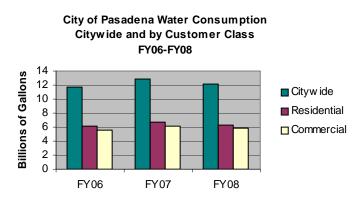
Adopt municipal wastewater management guidelines; reduce the volume of untreated wastewater discharges by 10% by 2012

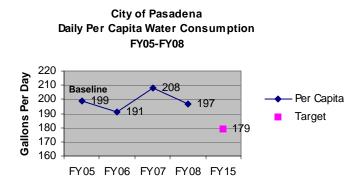
Action Status 2008 Likely Likely

Likely

UEA 19—Potable Water Conservation Action Status:

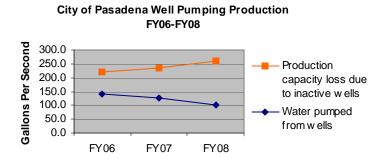
From the FY05 baseline of 199 gallons daily to the FY08 rate of 197 gallons daily, the City has intermittently achieved both a per capita reduction and a per capita increase of 4% below and above baseline in FY06 and FY07 respectively. The City is developing a comprehensive Water Conservation Plan which targets an overall community reduction of water use by levels of 10% and 20%.

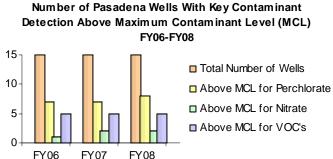




UEA 20—Water Source Protection Action Status:

In FY08 Pasadena received 68% of its water supply from the Metropolitan Water District (MWD) and 32% from local groundwater. A factor contributing to low local production is the contamination of local wells. On average, 55% of Pasadena's well capacity was closed from FY06-FY08 due to contamination. To improve the reliability of water supply the City is developing and constructing groundwater perchlorate and volatile organic compound treatment facilities beginning in FY09, to be fully operational by FY11. The treatment facilities will clean-up contaminants, increasing well pumping capacity to an additional 117 gallons of water per second. A reduction in the Raymond Basin pumping allocation rights is being developed to help stabilize the local groundwater level.





UEA 21—Wastewater Reduction Action Status:

Data indicates that wastewater discharges from broken sewer lines in FY06-FY08 totaled less than 1000 gallons out of a flow rate of 13.8 million gallons. A baseline amount for wastewater discharges has not been determined, and an analysis of whether a 10% reduction has been reached is pending.

Water Indicators

| UEA 19—Potable Water Conservation Action: Reduce per capita water consumption by 10% by 2015 | 2005 Baseline 199 Gallons Per Capita Per Day | | Target 179 Gallons Per Capita Per Day |
|---|---|-------------------------|--|
| Indicator | FY2006* | FY2007 | FY2008 |
| Per capita water consumption in gallons | 65,170 | 71,687 | 65,170 |
| Daily per capita water consumption in gallons | 191 | 208 | 197 |
| Citywide water use in gallons | 11,685,357,055 | 12,826,162,807 | 12,213,236,323 |
| Estimated residential water use in gallons | 6,076,385,669 | 6,669,604,660 | 6,350,882,888 |
| Estimated commercial water use in gallons | 5,608,971,387 | 6,156,558,147 | 5,862,353,435 |
| Gallons of water use savings due to water conservation programs (cumulative from 199 | 1) 904,562,376* | 936,495,774* | 1,016,329,269* |
| UEA 20 - Water Source Protection Action: Protect the ecological integrity of the City's primary drinking water sources | 2005 Baseline Arroyo Seco Master Best Management P | • | |
| Indicator | FY2006 | FY2007 | FY2008 |
| Water quality tests performed annually | 22,000 | 36,000 | 37,781 |
| Water quality violations annually | 0 | 0 | 0 |
| Total number of City wells | 15* | 15* | 15* |
| Wells above MCL for perchlorate | 7 | 7 | 8 |
| Wells above MCL for nitrate | 1 | 2 | 2 |
| Well above MCL for volatile organic compounds | 5 | 5 | 5 |
| Gallons of water produced from local groundwater | 4,476,834,303 | 4,452,522,56 | 60 4,907,873,265 |
| Percent of City's total water supply produced from local groundwater | 39 | 35 | 32 |
| Percent of City's total water supply purchased from the Metropolitan Water District | 61 | 65 | 68 |
| Percent of wells inactive due to contamination | 65 | 45 | 54 |
| Gallons of water per second produced from active wells | 141 | 126 | 100 |
| Gallons of water per second potential production from currently inactive wells | 221 | 235 | 261 |
| Gallons of water stored in the Raymond Basin | 8,750,989,285 | 9,647,731,23 | 9,635,870,261 |
| Unused storage capacity in the Raymond Basin (gallons) | 0 | 0 | 0 |
| Total spreading grounds capacity (gallons per second) | 127 | 127 | 127 |
| Acre-feet of spreading credits in the Arroyo Seco | 3794.8 | 2340.6 | 592.6 |
| Acre-feet of spreading credits in Eaton Canyon | 1320.3 | 1849.6 | 542.9 |
| UEA 21—Wastewater Reduction Action: Adopt municipal wastewater management guidelines; reduce the volume of untreated wastewater discharges by 10% by 2012 | 2005 Baseline TBD | Target 10% Reduction | |
| Indicator | FY2006 | FY2007 | FY2008 |
| Gallons per day of citywide wastewater | N/A | 13,800,000 | N/A |
| Number of residential sewer accounts | 23,500 | N/A | 23,755 |
| Number of commercial and industrial sewer accounts | 5,350 | N/A | 5,271 |
| Acre feet of wastewater generated by the residential sector | N/A | N/A | N/A |
| Acre feet of wastewater generated by the commercial sector | N/A | N/A | N/A |
| Acre feet of wastewater generated by the municipal sector | N/A | N/A | N/A |
| Number of sewer spills | 5 | 2 | N/A |
| Gallons of wastewater discharged from sewer spills | N/A | <1,000 | N/A |
| Annual \$ investment in the Los Angeles/Glendale Water Reclamation Plant (LAGWRP) | 200,000 | 200,000 | 200,000 |
| Percent of reclaimed water received and used in the City | 0 | 0 | 0 |

^{*}Running Total (All Figures are Annual Totals Except as Noted*) N/A-Not Available TBD-To Be Determined