



THINK GREEN

GREEN CITY INDICATORS REPORT 2009

PASADENA

The 2009 Green City Indicators Report provides four years of quantifiable data on more than 170 measurements that chart Pasadena's progress in achieving the Green City Action Plan targets. The action plan is built upon the framework of the 2005 United Nations Urban Environmental Accords, which the City adopted in 2006.

Within this report you will find a simple chart with an indication of whether an action has been achieved, is likely to be achieved, or remains undetermined at this stage.

This is followed by two pages for each of the seven UEA themes: Energy, Waste Reduction, Urban Design, Urban Nature, Transportation, Environmental Health, and Water. The report provides indications of progress, a summary of the data through graphs and charts, and extensive lists of data that show four years of comparative figures.

Prepared by the City of Pasadena Green Team this report complements the annual Green City Report of accomplishments.

City of Pasadena Green Team

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The Green Team Mission

The Green Team will monitor progress, provide information and ensure completion of the sustainability initiatives of the Green City Action Plan adopted by City Council on September 18, 2006.

A pdf copy of this report and other Green City information can be found at:
www.cityofpasadena.net/greencity





PASADENA GREEN CITY PROGRESS REPORT CARD

Year End 2009

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

The status of each of the 21 Actions is based on an assessment by the Green Team as follows:

- “undetermined” if there are data, reports, or parameters missing to make a determination
- “likely” if it is anticipated to be achieved by the target year
- “achieved” if the stated goal has been met

19-21	ACTIONS		CITY
16-18	ACTIONS		CITY
12-15	ACTIONS		CITY
8-11	ACTIONS		CITY

ENERGY

Urban Environmental Accord (UEA) Action: Action Status 2009

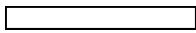
UEA 1—Renewable Energy:

Adopt and implement a policy to increase the use of renewable energy to meet 10% of the City's peak electric load by 2012

 **Achieved**


UEA 2—Energy Efficiency:

Adopt and implement a policy to reduce the City's peak electric load 10% by 2012

 **Undetermined**

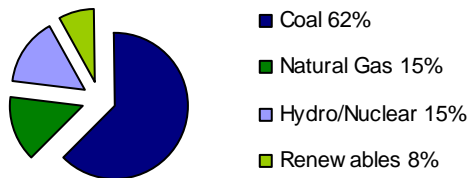
UEA 3—Climate Change:

Reduce Greenhouse Gas (GHG) emissions 25% by 2030

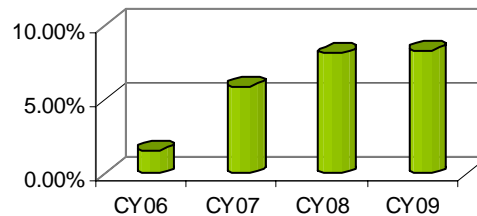
 **Likely**

UEA 1—Renewable Energy Action Status: The City has increased its state-qualifying renewable energy from 2% in Calendar Year (CY) 2006 to 8% in 2009 and expects to reach 15% in 2010 as several signed contracts for renewable energy go into effect. One contract for 5 MW of wind power will begin to generate renewable energy by the end of 2009, and two landfill-to-energy contracts begin to generate renewable energy in 2010, one of which will provide 6.6 MW of power from the Ameresco Chiquita Landfill.

Pasadena's Energy Resources (FY09)

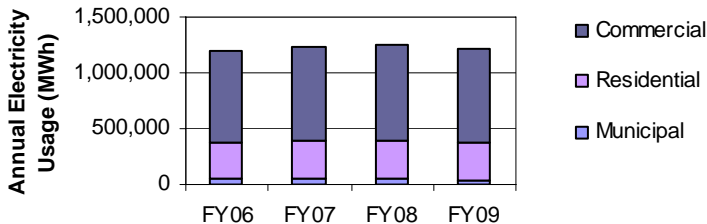


% Renewable Energy Use Citywide 2006-2009

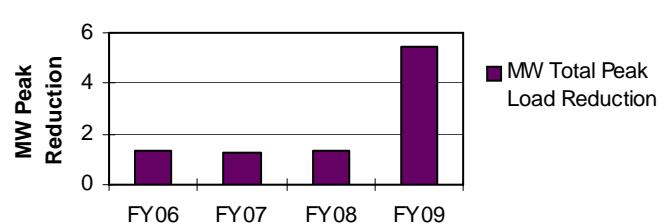


UEA 2—Energy Efficiency Action Status: In 2009 the City adopted a new energy plan which included the implementation of aggressive energy efficiency and load reduction programs. The City's goals are to reduce the peak energy load 10% (32 MW) by 2012 and to reduce energy consumption 12.5% by 2016 or an average of 1.33% per year. The City's commercial sector experienced a substantial savings from 899 MWh in FY08 to 13,766 MWh in FY09. The annual peak energy savings of 1.38 MW in FY06 increased to a savings of 5.42 MW in FY09. An additional savings of 27 MW are needed to reach the 10% peak load reduction goal by 2012. Electricity usage in the commercial and municipal sectors showed a slight reduction from FY08 to FY09.

City of Pasadena Electricity Usage by Customer Class FY06-FY09



City of Pasadena Total Peak Load Reduction FY06-FY09

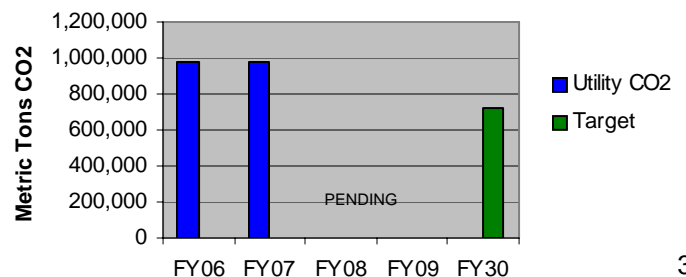


UEA 3—Climate Change Action Status: The City of Pasadena saw a slight increase in GHG emissions from utility supplied energy from FY06 to FY07. Data for FY08 and FY09 is not yet available. The City's GHG emissions inventory is expected to be available in CY2010 and will include calculations of GHG emissions for various emission sectors.

City of Pasadena Metric Tons CO₂ FY06-FY09

GHG Emissions Sector	FY06	FY07	FY08	FY09
Citywide				
Utility Supplied Energy	974,817	982,743	TBD	TBD
Transportation	TBD	TBD	TBD	TBD
Land Use	TBD	TBD	TBD	TBD
Urban Nature	TBD	TBD	TBD	TBD
Solid Waste	TBD	TBD	TBD	TBD
Municipal Sector				
City Facilities & Operations	TBD	TBD	TBD	TBD
City Fleet	8,484	7,773	8,091	7,225

PWP Supplied Energy - CO₂ Emissions



Energy Indicators

UEA 1—Renewable Energy Action:

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

2012 Baseline (Projected)
310 MW (peak load)

Target
31 MW (renewable energy)

Indicator	FY2006	FY2007	FY2008	FY2009
City of Pasadena Population—Calendar Year Figures	145,695	146,051	147,293	150,185
Percent of citywide renewable energy use	1.6	5.9	8.2	8.3
MWh total of citywide renewable energy use	19,535	72,731	106,813	107,095
Percent of customer load on green power	0.68	1.01	2.26	1.20
Running total number of green power customers	1,290*	1,402*	2,029*	1,713*
kW photo voltaic (PV) installations citywide	63	27	105	399
Number of PV installations citywide	11	11	26	52
kW PV installations at City facilities	0	0	0	0
Number of PV installations at City facilities	0	0	0	0
Number of City facilities with green power subscriptions	0	1*	1*	1*

UEA 2—Energy Efficiency Action:

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

2012 Baseline (Projected)
322 MW (peak load)

Target
289 MW (32 MW reduction)

Indicator	FY2006	FY2007	FY2008	FY2009
MWh of total citywide energy use	1,192,809	1,233,915	1,237,263	1,241,495
MWh of energy use by the municipal sector	57,544	57,749	56,064	54,672
MWh of energy use by the residential sector	314,235	337,816	337,314	337,531
MWh of energy use by the commercial sector	818,736	835,772	853,863	848,657
MWh energy savings from residential energy efficiency programs	1,300	1,122	5,562	7,956
MW peak energy reduction from residential energy efficiency programs	0.36	0.41	1.11	1.48
MWh energy savings from commercial energy efficiency programs	3,201	2,753	899	13,766
MW peak energy reduction from commercial energy efficiency programs	1.02	0.86	0.21	3.8
MWh energy savings from municipal energy efficiency programs	0	405	2	338
MW peak energy reduction from municipal energy efficiency programs	0	N/A	0	0.10
MWh total energy savings from efficiency programs from all sectors	4,501	4,280	6,463	22,060
MW total peak load reduction from all sectors	1.38	1.27	1.32	5.42
Decatherms of residential natural gas consumption	N/A	N/A	2,322,916	2,115,159
Decatherms of non-residential natural gas consumption	N/A	N/A	3,388,313	3,851,364

UEA3—Climate Change Action:

Reduce Greenhouse Gas Emissions 25% by 2030

2005 Baseline
954,490 metric tons CO²
(Emissions from total City power supply)

Target
717,867 metric tons CO²
(emissions from total City power supply)

Indicator	FY2006	FY2007	FY2008	FY2009
Metric tons of CO ² emissions per capita	TBD	TBD	TBD	TBD
Metric tons of CO ² emissions citywide	TBD	TBD	TBD	TBD
Metric tons of CO ² emissions from the total City power supply	974,817	982,743	Pending	Pending
Metric tons of CO ² emissions from land use	TBD	TBD	TBD	TBD
Metric tons of CO ² emissions from transportation	TBD	TBD	TBD	TBD
Metric tons of CO ² emissions from solid waste	TBD	TBD	TBD	TBD
Metric tons of CO ² emissions from municipal facilities and operations	TBD	TBD	TBD	TBD
Metric tons of CO ² emissions from City fleet	8,484	7,773	8,091	7,225

Running Total (All Figures are Annual Totals Except as Noted)

N/A—Not Available

TBD-To Be Developed

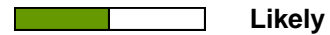
WASTE REDUCTION

Urban Environmental Accord Action:

Action Status 2009

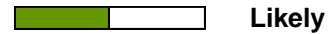
UEA 4—Zero Waste:

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



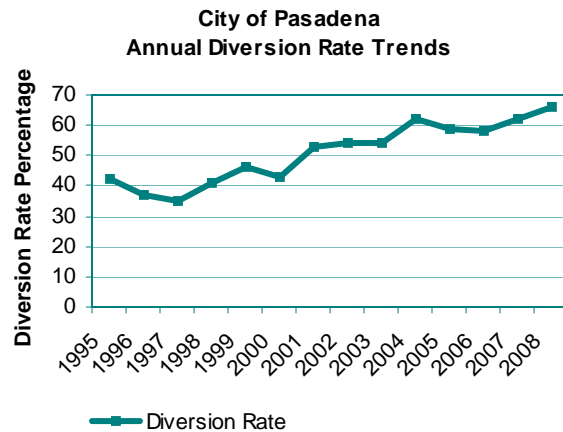
UEA 6—Recycling:

Implement “user-friendly” recycling and composting programs with the goal of reducing by 20% per capita solid waste disposal to landfills and incineration by 2012



UEA 4—Zero Waste Action Status:

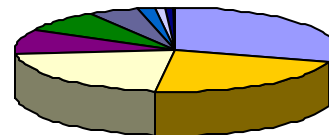
The City has progressively increased its diversion rate from 42% in CY1995, the original reporting year to the California Integrated Waste Management Board (CIWMB), to 66% in CY2008. Increased diversion is attributable to the success of new and ongoing recycling programs combined with continued outreach and education to Pasadena residents and businesses.



UEA 5—Manufacturer Waste Action Status:

In 2004 the CIWMB published a statewide waste characterization study which provides statewide estimates on waste stream material composition, identifying disposable, toxic or non-renewable product category. Construction & demolition debris, organic waste (includes food waste) and paper make up the majority of the waste stream.

Composition of Disposed Materials Statewide Estimates



- Organic 30%
- C&D 22%
- Paper 21%
- Plastic 10%
- Metal 8%
- Special Waste 5%
- Glass 2%
- Electronics 1%
- Mixed Residue .8%
- HHW .2%

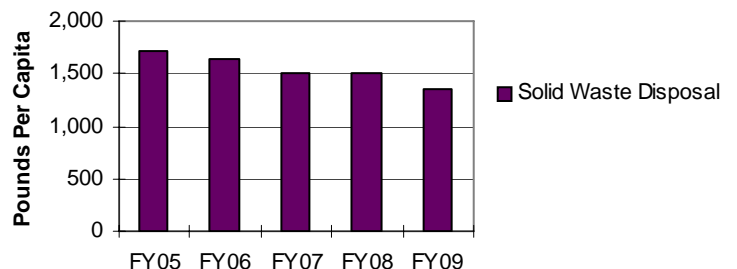
Figures derived from California Integrated Waste Board 2004 Statewide Waste Characterization Study

The adopted 2006 Green City Action Plan included initiatives to reduce single-use plastic bags and polystyrene food containers. Recommendations to reduce the use of both of these product categories are pending.

UEA 6—Recycling Action Status:

Per capita solid waste disposal decreased from 1,707 pounds in FY05 to 1,349 pounds in FY09, a decrease of 358 pounds per capita (21%) over a four year period.

City of Pasadena Annual Per Capita Solid Waste Disposal FY05-FY09



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	FY2009
City of Pasadena Population—Calendar Year Figures	145,695	146,051	147,293	150,185
Tons of solid waste generated citywide	258,752	241,370	230,224	190,802
Pounds of solid waste generated per capita	3,590	3,349	3,195	2,591
Pounds of solid waste disposed per capita	1,634	1,514	1,498	1,349
Tons of solid waste landfilled	117,755	109,123	107,962	99,398
Tons of solid waste diverted from landfills	140,997	132,247	122,263	88,131
Percent of solid waste diverted from landfills (diversion rate calculation is based on state modeled data)	58%	62%	66%	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	FY2009
Toxic waste generators citywide	N/A	N/A	Pending	Pending
Tons of toxic waste generated citywide	4,769	2,640	Pending	Pending

UEA 6—Recycling:

Implement “user-friendly” recycling and composting programs with the goal of reducing by 20% per capita solid waste disposal to landfills and incineration

2005 Baseline
1,707 tons

Target
20% Per Capita
Reduction

Indicator	FY2006	FY2007	FY2008	FY2009
Per capita solid waste disposal	1,634	1,514	1,498	1,349
Tons of green waste recycled	19,812	16,970	15,931	14,599
Gallons of hazardous waste recycled	N/A	7,794	Pending	44,919
Pounds of electronic waste recycled	44,000	75,000	74,089	68,761
Gallons of vehicular oil recycled	N/A	250	800	1,100
Tons of construction and demolition debris recycled	19,011	18,738	17,213	15,803

Running Total (All Figures are Annual Totals Except as Noted)

N/A—Not Available

TBD-To Be Developed

URBAN DESIGN

Urban Environmental Accord Action:

Action Status 2009

UEA 7—Green Building:

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



Achieved

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



Achieved

UEA 9—Environmental Jobs:

Create environmentally beneficial jobs in low-income neighborhoods

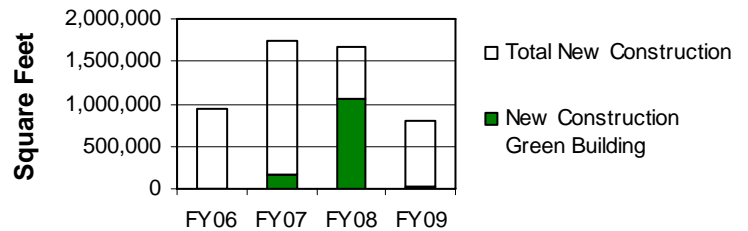


Achieved

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. Forty-eight projects in the City are LEED® registered and eight projects totaling over a million square feet of commercial and institutional space have received LEED® certification. In FY08 63% of all new construction projects met the Green Building thresholds. FY09 figures are incomplete as many building projects are pending approval of permits.

City of Pasadena
Green Building Growth FY06-FY09

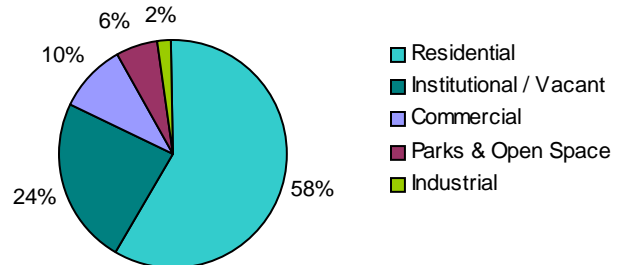


FY07 Green Buildings = 9% of total
 FY08 Green Buildings = 63% of total
 FY09 Green Buildings = 3% of total

UEA 8—Urban Planning:

In FY09 the City began the process of updating the General Plan, including the Open Space & Conservation Element, Land Use Element & Mobility Element. As of FY09 there are 861 acres of City-owned 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. From FY06 to FY09 the City maintained 60 miles of bike lanes; added 154 new curb ramps and retrofitted 465 ramps with detectable warning surfaces to improve accessibility.

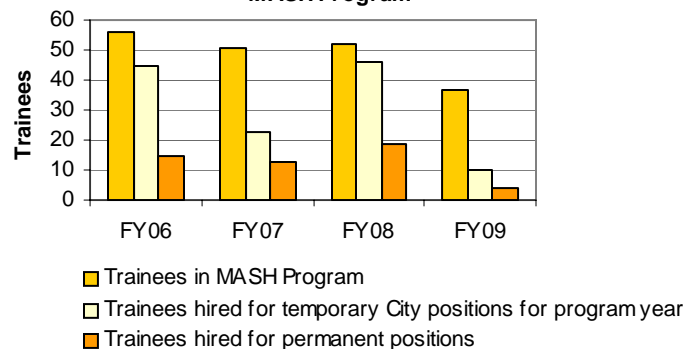
City of Pasadena
Existing Land Uses (2004)



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 and recycling programs; water and energy efficiency programs; urban revitalization programs; and disaster response programs. Trainees are hired for temporary and permanent positions with the City. There was a decrease in trainees hired for positions in FY09 due to the economic downturn.

City of Pasadena
MASH Program



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	FY2009
City of Pasadena Population—Calendar Year Figures	145,695	146,051	147,293	150,185
LEED certified buildings	3*	4*	5*	8*
LEED registered buildings	5*	11*	23*	48*
LEED certified municipal buildings	0*	0*	1*	1*
Square footage of LEED projects - building permits issued	-	155,040	1,052,058	27,721
Square footage of new construction	1,287,163	1,749,889	1,665,906	799,768

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 Baseline

General Plan Elements

Target

Sustainable Urban Planning

Indicator	FY2006	FY2007	FY2008	FY2009
Acres of City owned parks and open space	N/A	840.5*	840.5*	861*
Percent of total miles of City streets with bike lanes	19*	19*	19*	19*
Percent of residential, mixed-use projects within 1/4 mile of public transit	100	100	100	100
New accessible ramps	50	14	49	91
Retrofitted accessible ramps	N/A	15	336	114
Intersections with tactile signal controls	0	0	13	14

UEA 9—Environmental Jobs:

Create environmentally beneficial jobs in low-income neighborhoods

2004 Baseline

MASH Program
70 Trainees/Year

Target

A Policy;
A Program

Indicator	FY2006	FY2007	FY2008	FY2009
New jobs targeting low-income neighborhoods	N/A	N/A	89	231
Trainees in MASH program	56	51	52	37
MASH trainees hired for temporary City positions for program year	45	23	46	10
MASH trainees hired for permanent positions	15	13	19	4
Clean/Green technology businesses in City	N/A	N/A	N/A	7
Green certified businesses in City	TBD	TBD	TBD	TBD

Running Total (All Figures are Annual Totals Except as Noted)

N/A-Not Available

TBD-To Be Developed

URBAN NATURE

Urban Environmental Accord Action:

Action Status 2009

UEA 10—Green Space Access:

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

 Undetermined

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

 Achieved

UEA 12—Habitat Protection:

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

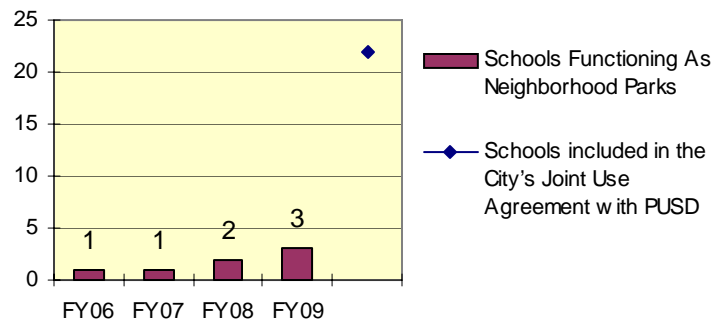
 Achieved

UEA 10—Green Space Access Action Status:

In CY09 the City increased its open space by 20.6 acres through the acquisition of the Annandale Canyon Estates. The acquisition increased total acreage of dedicated parks and open space for recreational use to 861 acres, equivalent to 260 square feet per capita.

An additional 136 acres of potential recreational space is available through the City's joint use agreement with the Pasadena Unified School District, which allows for schools to function as neighborhood parks. As of FY09 McKinley School and Madison and Linda Vista Elementary schools provide a combined total of 4.4 acres of recreational space for public use during non-school hours.

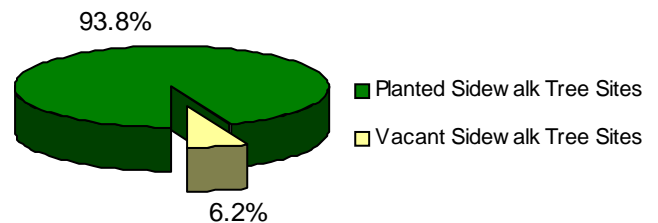
City of Pasadena & PUSD Joint Use Agreement - Schools Functioning as Neighborhood Parks



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 FY09 93.8% of the City's 62,000 sidewalk planting sites contained trees.

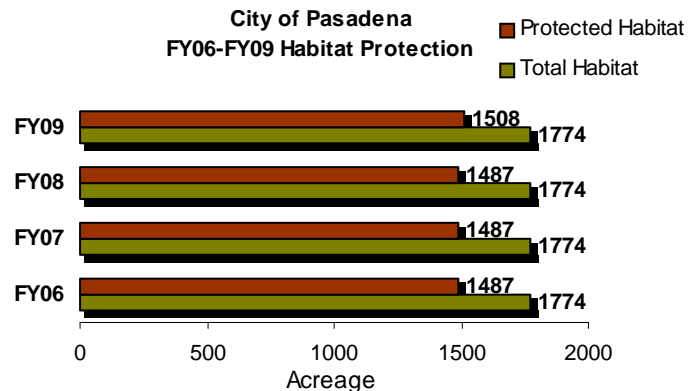
City of Pasadena FY09 Sidewalk Tree Planting Sites



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. 85% of the City's designated natural habitat remains protected. From FY06-FY09 11.45 acres of habitat were restored and \$2,431,800 in funding was secured for habitat restoration. In FY09 the City approved the acquisition of the Annandale Canyon Estates for open space, effectively protecting existing habitat from development and providing an additional 20.6 acres of protected habitat and open space to the City.

City of Pasadena FY06-FY09 Habitat Protection



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 every City resident by 2015

2007 Baseline

Green Space, Recreation & Parks Element & Master Plan

Target

Implement Measures in Plan

Indicator	FY2006	FY2007	FY2008	FY2009
City of Pasadena Population—Calendar Year Figures	145,695	146,051	147,293	150,185
Acres of City-owned parks and open space	N/A	840.5*	840.5*	861*
Square feet of City-owned parks and open space per capita	N/A	254*	254*	260*
Percent of households within 1/4 mile of a park or recreational open space	Pending	Pending	Pending	Pending
Percent of households within 1/2 mile of a park or recreational open space	Pending	Pending	Pending	Pending
Acres of City-owned parks and open space added	7.6	0	0	20.6
Lineal feet of total existing hiking trails	144,954*	146,754*	146,754*	146,754*
Lineal feet of new/restored hiking trails	8,165	2,132	500	2,120
Schools included in the City's Joint Use Agreement with PUSD, allowing schools to function as neighborhood parks	22*	22*	22*	22*
Schools functioning as neighborhood parks	1*	1*	2*	3*

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 Filled

Target

Tree Canopy Inventory; 50% Canopy Coverage

Indicator	FY2006	FY2007	FY2008	FY2009
Percent of tree canopy coverage in the Public Right Of Way (P.R.O.W.)	N/A	N/A	85	85
Available sidewalk tree sites citywide	N/A	N/A	N/A	64,756*
Sidewalk trees	61,000*	61,000*	61,000*	61,000*
Vacant sidewalk tree sites	4,500	3,371	2,837	3,756
Percent of all sidewalk tree sites vacant	7.4	5.5	4.6	6.2
Newly planted trees	621	524	542	1,103

UEA 12—Habitat Protection:

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

2007 Baseline

Arroyo Seco Master Plan

Target

Implement Measures in Plan

Indicator	FY2006	FY2007	FY2008	FY2009
Habitat acres in the City	1,774.36*	1,774.36*	1,774.36*	1,774.36*
Acres of protected habitat	1,486.6*	1,486.6*	1,486.6*	1,508*
Acres of habitat restored	5.7	1.75	0	4
Funding secured for habitat restoration	-	\$280,000	\$1,600,200	\$551,600

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

N/A-Not Available

TBD-To Be Developed

TRANSPORTATION

Urban Environmental Accord Action:

Action Status 2009


UEA 13—Public Transportation:

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

 Achieved


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 50% by 2012

 Likely

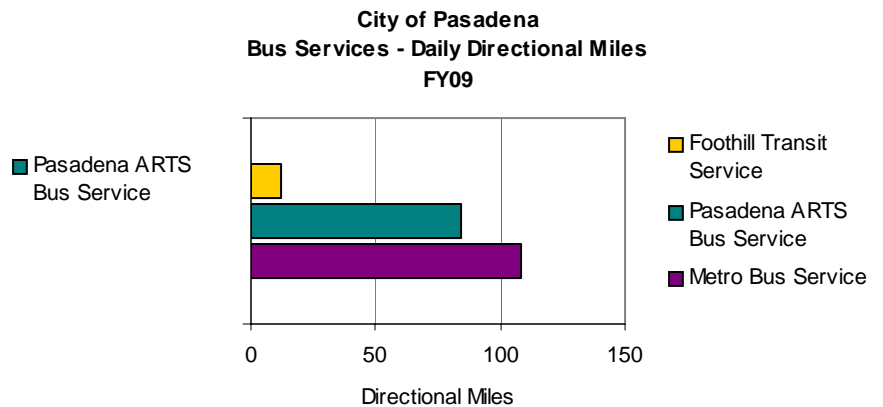
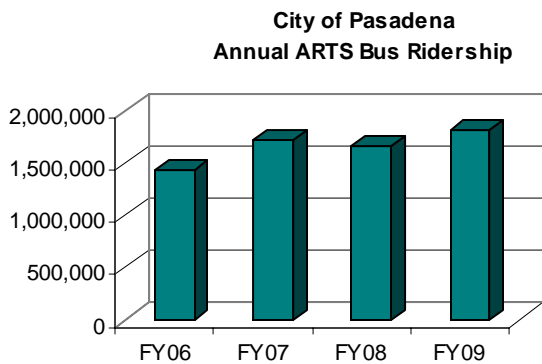
UEA 15—Traffic Congestion:

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

 Likely

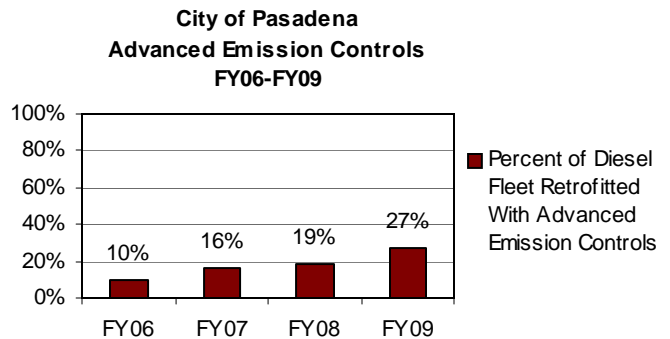
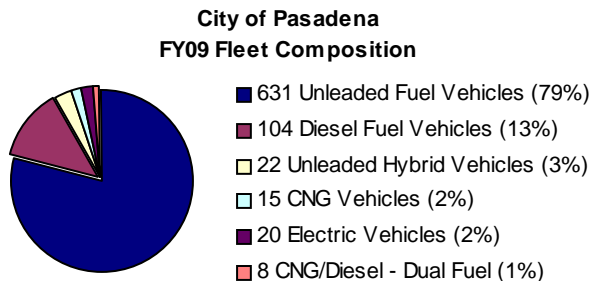
UEA 13—Public Transportation Action Status:

100% of all Pasadena residents and businesses are within 1/2 mile of 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 3,679,374 in FY09. Bus services range from 12 to 112 directional miles daily.



UEA 14—Clean Vehicles Action Status:

In FY09 the City's fleet consisted of 800 vehicles, 8% of which are powered by alternative fuel other than traditional diesel and unleaded fuel. The City increased its electric vehicle fleet by 54% from FY08 to FY09. 27% of all diesel fleet have been retrofitted with advanced emission controls. The City is on schedule to reach 100% completion by 2012.



UEA 15—Traffic Congestion Action Status:

The City's 2004 Mobility Element included objectives to reduce the percentage of commute trips by single occupancy vehicles through 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. The City's mobility element is currently being updated and will be revisiting the strategies to reduce the percentage of commute trips. The ability to measure the reduction is being analyzed as part of the element update.

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%

Target

100%

Indicator	FY2006*	FY2007	FY2008	FY09
City of Pasadena Population—Calendar Year Figures	145,695	146,051	147,293	150,185
Percent of residents within 1/2 mile of public transit	100	100	100	100
Percent of businesses within 1/2 mile of public transit	100	100	100	100
Number of public transit routes by all agencies (Metro; Foothill Transit; Pasadena ARTS)	N/A	N/A	29	29
Metro bus service daily directional miles	111.8*	106.9*	107.9*	107.9*
Pasadena ARTS bus service daily directional miles	N/A	N/A	84	84
Foothill Transit service daily directional miles	12.2*	12.2*	12.2*	12.2*
Total directional miles of all public transit services citywide	N/A	N/A	N/A	N/A
Number of bus stops	N/A	N/A	710	710

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 50% by 2012

2005 Baseline

TBD

Target

50% Reduction

Indicator	FY2006	FY2007	FY2008	FY2009
Vehicles in City fleet	771*	778*	793*	800*
Percent of City fleet vehicles which are alternative fuel vehicles	18	20	8	8
Percent of City diesel fleet vehicles which are biodiesel vehicles	77	75	0	0
Percent of City fleet vehicles which are hybrid vehicles	1	1	3	3
Percent of City diesel fleet vehicles retrofitted with particulate traps	10	16	19	27

UEA 15—Traffic Congestion:

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

2005 Baseline

T.B.D

Target

10% Reduction

Indicator	FY2006	FY2007	FY2008	FY2009
Average vehicle ridership for Air Quality Management District (AQMD) regulated sites	1.3	1.1	Pending	1.4
City traffic reduction and transportation improvement fees collected	0	0	\$227,000	\$178,000
Total miles of bike paths citywide	60*	60*	60*	60*
Bike racks in the public right of way	250*	300*	350*	350*
Pasadena ARTS bus ridership in Pasadena	1,435,400	1,710,900	1,654,144	1,816,342
Foothill Transit ridership through Pasadena	1,793,521	1,831,884	1,857,557	1,863,032
Metro bus service ridership (boardings in Pasadena)	4,414,340	4,109,763	3,969,572	4,220,934
Metro Gold Line ridership (boardings in Pasadena)	1,937,354	2,239,175	2,489,783	2,811,187

Running Total (All Figures are Annual Totals Except as Noted)

N/A-Not Available

TBD-To Be Developed

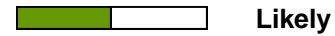
ENVIRONMENTAL HEALTH

Urban Environmental Accord Action:

Action Status 2009

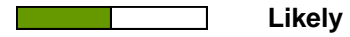
UEA 16—Toxics Reduction:

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 (locally grown defined as within a radius of 7 or fewer hours by car or truck). 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% the number of days categorized in the AQI range as “unhealthy” or “hazardous” by 2012



UEA 16—Toxics Reduction Action Status:

In CY09 City staff completed an inventory of toxic products used by City departments and developed criteria to identify those products to be phased out or replaced with less toxic alternatives. Staff is currently developing criteria for the selection of green alternatives. 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.

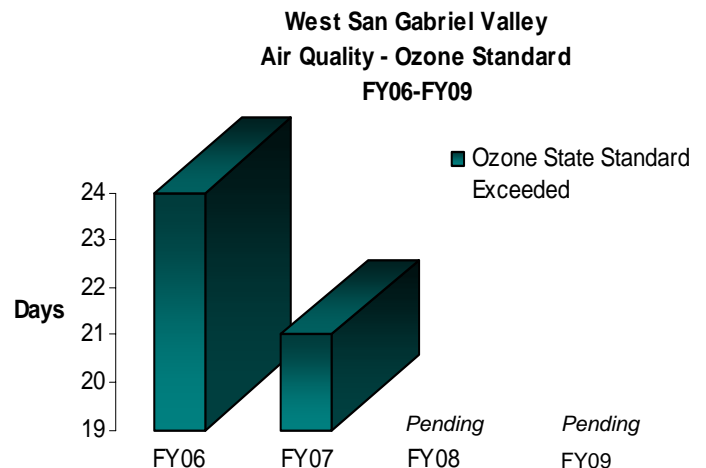
UEA 17—Organic Food Action Status:

In FY09 staff and commissioners from the Environmental Advisory Commission hosted a public roundtable discussion on organic and locally grown food with representatives from the PUSD, Aveson Charter School, Pasadena Farmers Market and the Center for Food & Justice. Representatives from PUSD confirmed that although purchasing certified organic is not economically feasible, PUSD purchases the majority of produce from local farmers using a third party – California Produce.

Organic Food Indicator	FY06	FY07	FY08	FY09
Locally grown, organic produce served at City-sponsored events	N/A	N/A	N/A	N/A
Locally grown, organic produce served at City-owned and operated facilities	0%	0%	0%	0%
Locally grown produce served at PUSD schools	>60%	>60%	>60%	>60%
Pasadena restaurants that serve locally grown, organic food	<1%	<1%	<1%	<1%

UEA 18—Air Quality Action Status:

The Southern California Air Quality Management District (SCAQMD) 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. The SCAQMD has not yet released data for FY08 or FY09.



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

Target
7 Bans

Indicator	FY2006*	FY2007	FY2008	FY2009
City of Pasadena Population—Calendar Year Figures	145,695	146,051	147,293	150,185
Volume of vector control product used for vector control in City buildings	TBD	TBD	TBD	TBD
Volume of pesticides used in City-owned parks and open spaces	TBD	TBD	TBD	TBD
Volume of pesticides used in City buildings	TBD	TBD	TBD	TBD
Categories of toxic products reduced from use by City government and/or switched to Green Seal certified products	6	0	1	1
Municipal green procurement alerts	0	2	1	0

UEA 17—Organic Foods:

Support the public health and environmental benefits of locally grown organic foods (locally grown defined as within a radius of 7 or fewer hours by car or truck). Ensure that 20% of all City facilities (including schools) serve locally grown and organic food by 2012

2005 Baseline
0%

Target
20%

Indicator	FY2006	FY2007	FY2008	FY2009
Percent of locally grown, organic produce served at City sponsored events	TBD	TBD	TBD	TBD
Percent of locally grown, organic produce served at City-owned and operated facilities	0	0	0	0
Percent of locally grown produce served at PUSD schools	>60	>60	>60	>60
Percent of Pasadena restaurants that serve organic food	<1	<1	<1	<1
Special event permits issued	71	83	86	78
Special event permits including locally grown, organic food requirements of vendors	N/A	N/A	N/A	N/A
Restaurants citywide	352*	352*	352*	352*
Percent of organic food sold at Pasadena Farmers' Markets	60	60	60	60

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"

Target
10% Reduction

Indicator	FY2006	FY2007	FY2008	FY2009
Number of days for which the ozone state standard was exceeded	24	21	Pending	Pending
Number of days for which the ozone federal standard was exceeded	7	11	Pending	Pending
Number of samples which exceeded the federal standard for fine particulates	1	3	Pending	Pending
Number of days air standard was categorized as unhealthy due to a fire-related event	N/A	N/A	N/A	N/A

Running Total (All Figures are Annual Totals Except as Noted)

N/A-Not Available

TBD-To Be Developed

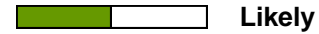
WATER

Urban Environmental Accord Action:

Action Status 2009

UEA 19—Potable Water Conservation:

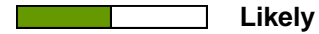
Reduce per capita water consumption 10% by 2015



Likely

UEA 20—Water Source Protection:

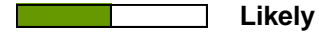
Protect the ecological integrity of the City's primary drinking water sources



Likely

UEA 21—Wastewater Reduction:

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

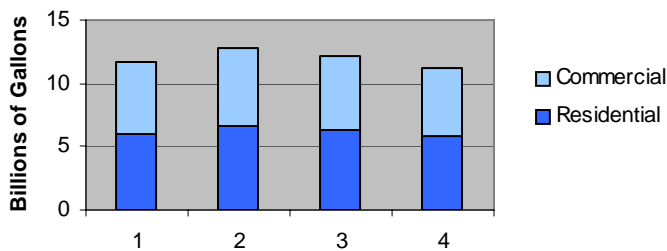


Likely

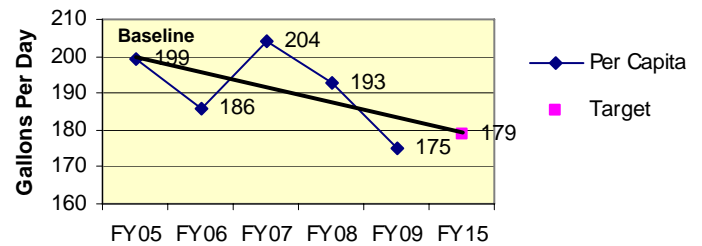
UEA 19—Potable Water Conservation Action Status:

From the FY05 baseline of 199 gallons daily to the FY09 rate of 175 gallons daily, the City has achieved a consistent reduction in per capita water use, reaching a 12% reduction in FY09, exceeding the 10% target goal of this UEA Action. A Comprehensive Water Conservation Plan was adopted in FY09 to ensure success in meeting both the UEA target and the state goal of a 20% per capita water use reduction by 2020.

City of Pasadena Water Consumption
Citywide by Customer Class
FY06-FY09



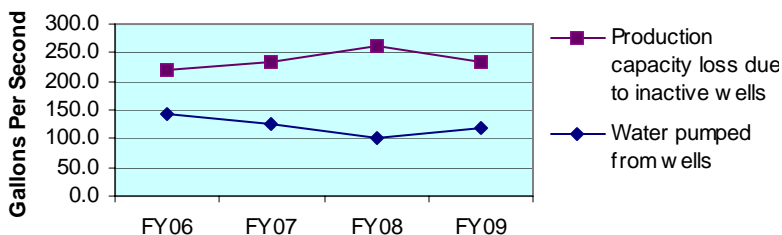
City of Pasadena
Daily Per Capita Water Consumption
FY05-FY09



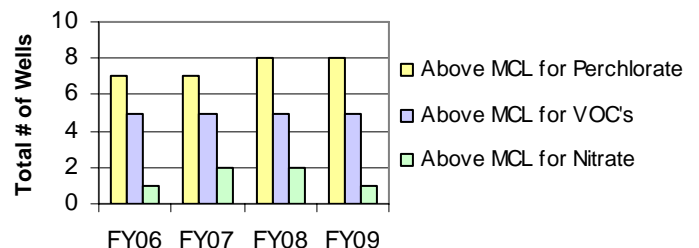
UEA 20—Water Source Protection Action Status:

In FY09 Pasadena received 66% of its water supply from the Metropolitan Water District (MWD) and 34% from local groundwater. A factor contributing to low local production is the contamination of local wells. On average, 57% of Pasadena's well capacity was closed from FY06-FY09 due to contamination. To improve well capacity, the City is constructing groundwater perchlorate and volatile organic compound treatment facilities which will be fully operational by FY11. To help stabilize groundwater levels, Pasadena's groundwater pumping rights have been reduced 20% during the past five years.

City of Pasadena Well Pumping Production
FY06-FY09



Number of Pasadena Wells With Key Contaminant
Above Maximum Contaminant Level (MCL)
FY06-FY09



UEA 21—Wastewater Reduction Action Status:

Data indicates that wastewater discharges from broken sewer lines in FY06-FY09 totaled less than 2000 gallons out of a flow rate of 13.8 million gallons. Wastewater discharges increased by 70% in FY09 due to an incident sewer spill. Total discharges continue to be well below the standard for Pasadena's size and the age of the sanitary sewer collection system.

Water Indicators

UEA 19—Potable Water Conservation Action: *Reduce per capita water consumption by 10% by 2015*

Indicator	2005 Baseline		Target	
	FY2006	FY2007	FY2008	FY2009
City of Pasadena PWP Water Service Area Population -Calendar Year Figures	172,095**	172,451**	173,693**	176,585**
Per capita water consumption in gallons	68,429	74,946	71,687	65,170
Daily per capita water consumption in gallons	186	204	193	175
Citywide water use in gallons	11,685,357,055	12,826,162,807	12,213,236,323	11,251,309,179
Estimated residential water use in gallons	6,076,385,669	6,669,604,660	6,350,882,888	5,850,654,705
Estimated commercial water use in gallons	5,608,971,387	6,156,558,147	5,862,353,435	5,400,654,474
Gallons of water-use savings due to water conservation programs (cumulative from 1991)	904,562,376*	936,495,774*	1,016,329,269*	847,538,451*

UEA 20 - Water Source Protection Action: *Protect the ecological integrity of the City's primary drinking water sources*

Indicator	2005 Baseline		Target	
	FY2006	FY2007	FY2008	FY2009
Water quality tests performed annually	22,000	36,000	37,781	37,026
Water quality violations annually	0	0	0	0
Total number of City wells	15*	15*	15*	15*
Wells above MCL for perchlorate	7	7	8	8
Wells above MCL for nitrate	1	2	2	1
Well above MCL for volatile organic compounds	5	5	5	5
Gallons of water produced from local groundwater	4,476,834,303	4,452,522,560	4,907,873,265	3,866,873,817
Percent of City's total water supply produced from local groundwater	39	35	32	34
Percent of City's total water supply purchased from the Metropolitan Water District	61	65	68	66
Percent of wells inactive due to contamination	65	45	54	65
Gallons of water per second produced from active wells	141	126	100	120
Gallons of water per second potential production from currently inactive wells	221	235	261	232
Gallons of water stored in the Raymond Basin	8,750,989,285	9,647,731,237	9,635,870,261	9,689,831,187
Unused storage capacity in the Raymond Basin (gallons)	0	0	0	0
Total spreading grounds capacity (gallons per second)	127	127	127	127
Acre-feet of spreading credits in the Arroyo Seco	3,795	2,341	593	1,499
Acre-feet of spreading credits in Eaton Canyon	1,320	1,850	543	895

UEA 21—Wastewater Reduction Action: *Adopt municipal wastewater management guidelines; reduce the volume of untreated wastewater discharges 10% by 2012*

Indicator	2005 Baseline		Target	
	FY2006	FY2007	FY2008	FY2009
Gallons per day of citywide wastewater	N/A	13,800,000	N/A	13,800,000
Number of residential sewer accounts	23,500	N/A	23,755	23,669
Number of commercial and industrial sewer accounts	5,350	N/A	5,271	5,200
Acre feet of wastewater generated by the residential sector	N/A	N/A	N/A	N/A
Acre feet of wastewater generated by the commercial sector	N/A	N/A	N/A	N/A
Acre feet of wastewater generated by the municipal sector	N/A	N/A	N/A	N/A
Number of sewer spills	5	2	N/A	3
Gallons of wastewater discharged from sewer spills	N/A	<1,000	N/A	1,700
Annual \$ investment in the Los Angeles/Glendale Water Reclamation Plant	200,000	200,000	200,000	200,000
Percent of reclaimed water received for use in the City	0	0	0	0

Running Total (All Figures are Annual Totals Except as Noted)
N/A-Not Available
TBD-To Be Developed

**Includes unincorporated area population estimate of 26,400 from 2005 Urban Water Management Plan