



ENVIRONMENTAL SUSTAINABILITY

ANNUAL REPORT: 2016
City of Urbana, Illinois

ENVIRONMENTAL SUSTAINABILITY DIVISION

The Environmental Sustainability Division works to improve the performance of energy, water, and waste management while reducing sanitary nuisances. The Division administers community energy efficiency and water conservation efforts while working with City staff to also save energy and water. The Division operates the U-Cycle curbside and multi-family recycling service while conducting engagement with City staff to reduce waste. The Division enforces nuisance vegetation and refuse codes and waste hauler licensing while engaging community groups to ‘adopt’ street sections for litter collection with the Adopt Urbana program. The Division manages the Municipal Electric Aggregation program and the concomitant purchase of renewable energy credits. The Environmental Sustainability Division works with the Sustainability Advisory Commission whose members are appointed by the Mayor. The Commission meets regularly to receive updates from the Division and advise on the future course of sustainability work. For more information, visit <http://urbanaillinois.us/sustainability>.

In 2017, the Division intends to conduct another bulk solar array purchase for the community, evaluate additional solar arrays for city facilities, consider how to offer hazardous waste disposal for residents, assess more energy efficient street light retrofits, and encourage monarch and pollinator supportive plantings.

Division Staff

Scott R. Tess, Environmental Sustainability Manager
 Courtney Kwong, Recycling Coordinator
 Jason Arrasmith, Environmental Compliance Officer
 Kate Brickman, Administrative Assistant

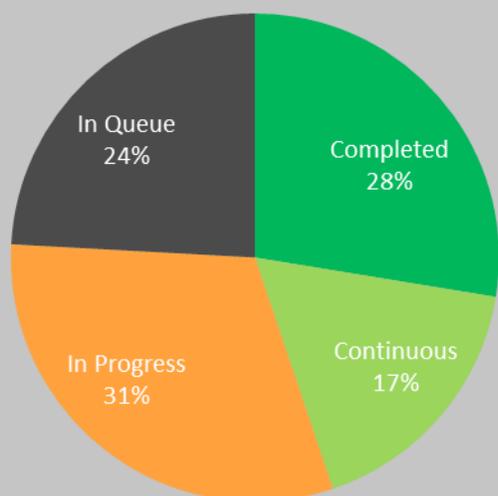
Sustainability Advisory Commission Members

Andrew Stumpf
 Elizabeth Meschewski
 Marya Ryan, Chair
 Morgan Johnston
 Stacy Gloss
 Stephen Wald
 Todd Rusk

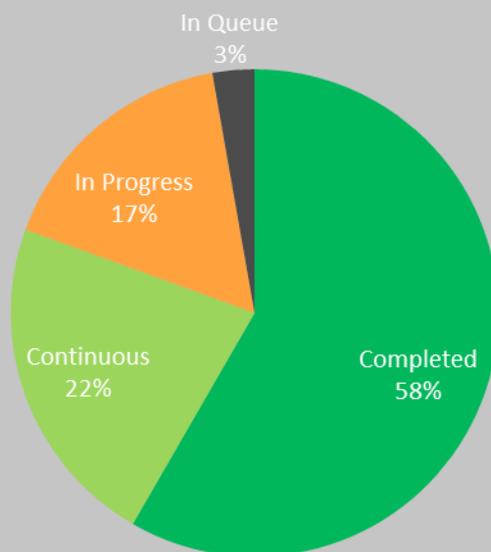
Environmental Sustainability Division Budget Fiscal Year 2016-2017

| Category | Budget |
|---|---------------------|
| U-Cycle -staffing, contract collection, carts, public engagement | \$715,041.00 |
| Sustainability and Environmental Compliance -staffing, energy, water, nuisance abatement | \$252,609.00 |
| Total | \$967,650.00 |

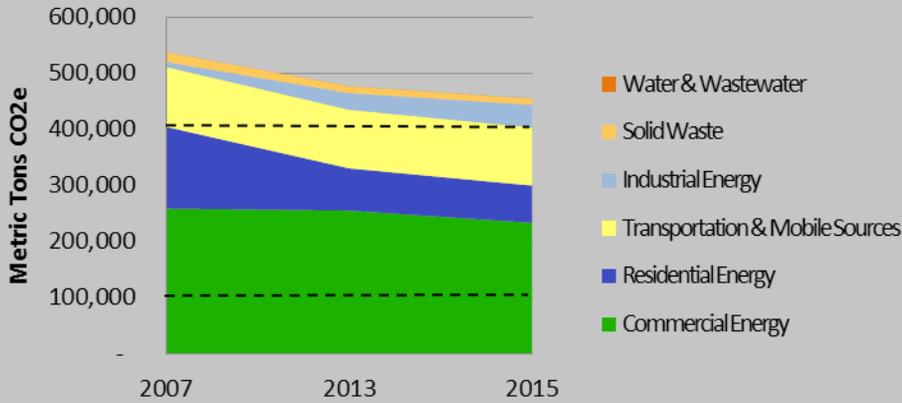
Climate Action Plan Phase 2 Progress



Sustainable Water Management Plan Progress



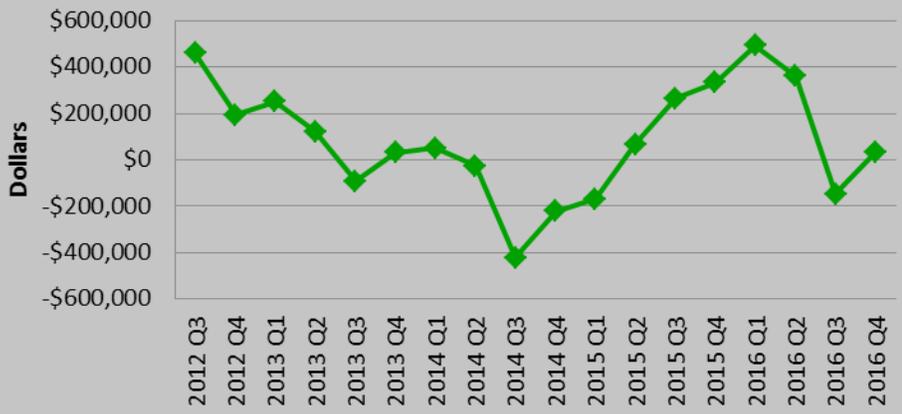
Community Greenhouse Gas Emissions



Additional Information

The reduction in greenhouse gas emissions in the Residential sector is primarily attributable to the purchase of Renewable Energy Credits in the City's Municipal Electric Aggregation program. The dotted lines represent the 2020 and 2050 greenhouse gas reduction goals.

Quarterly Municipal Electric Aggregation Savings

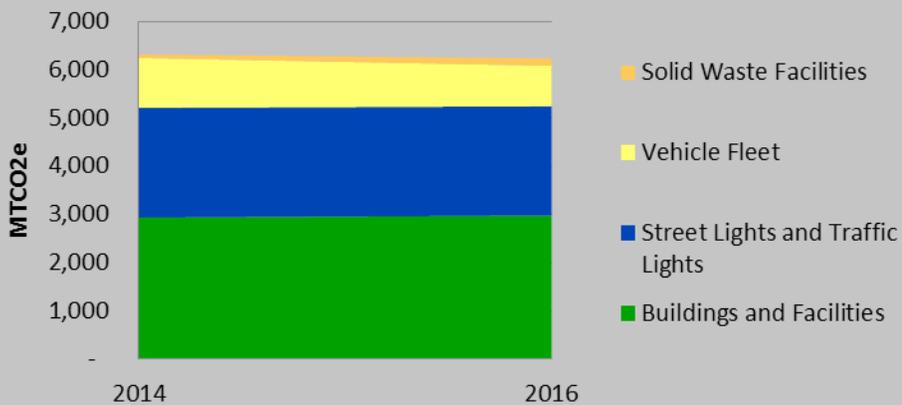


Urbana Leads with Solar

With support from the Grow Solar Partnership, the City of Urbana led a county-wide solar bulk purchase program. In six months the program conducted 24 Solar Power Hours educating hundreds of residents on solar energy arrays. 200 solar site assessments were performed at homes and businesses resulting in 81 contracts for solar energy installations. In total, 605 kilowatts of solar capacity was installed at homes, businesses, and farms across the County.



City Facilities Greenhouse Gas Emissions



Electrifying the Fleet

The City purchased its first all-electric vehicle. The 2016 Mitsubishi MiEV has a range of 61 miles per charge, perfectly suiting the daily needs of the City's Recycling Coordinator.



Additional Information

The Community Water Consumption chart shows proportional water consumption by sector in the community over time. *2013 data in this chart is estimated since actual data is not available from Illinois American Water.

Planning Our Water Future

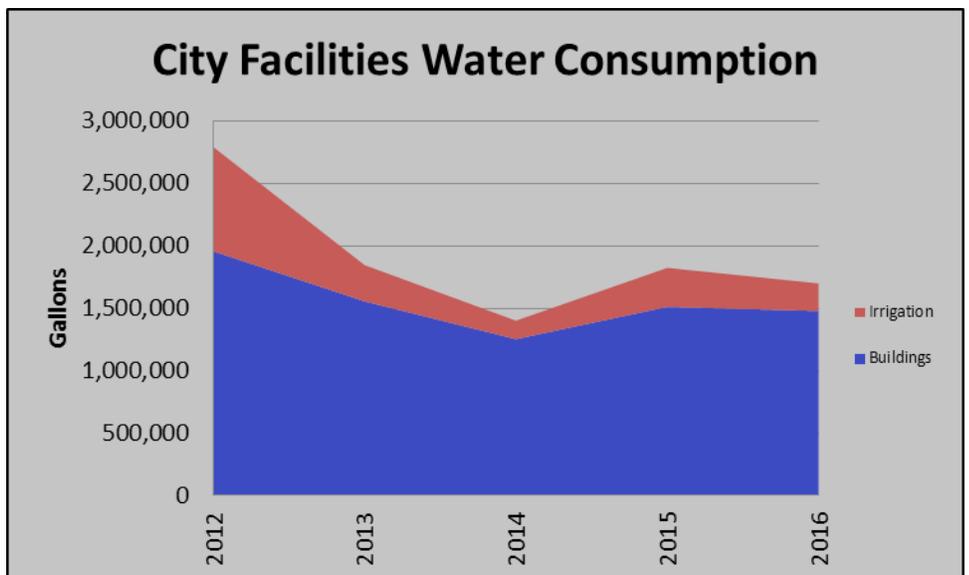
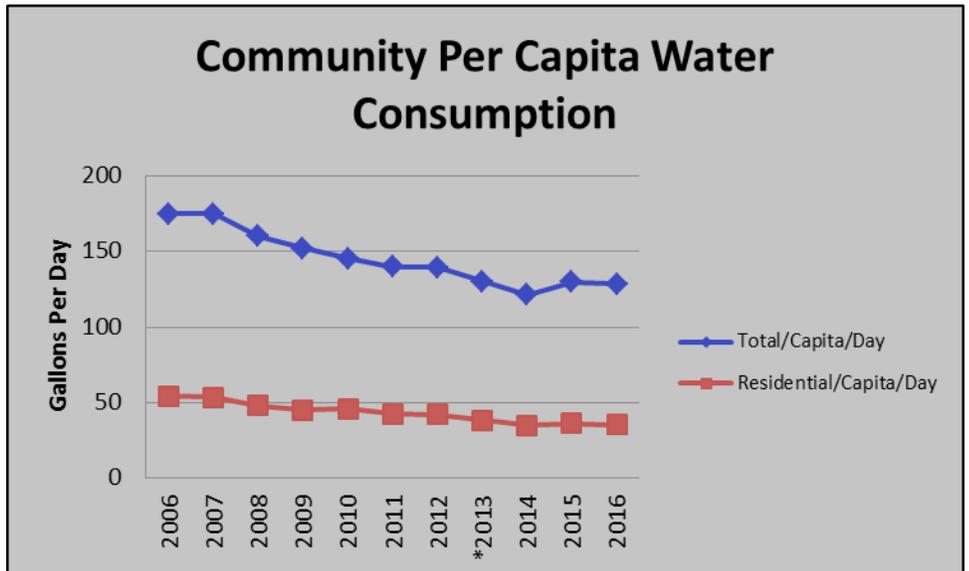
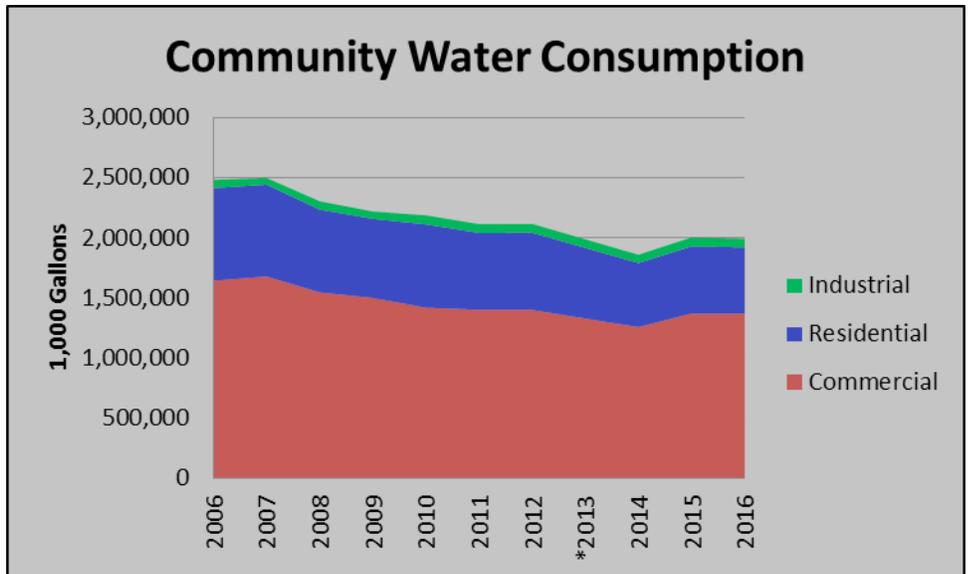
Over the course of two and half years, the Champaign County Regional Planning Commission has been working with stakeholders including City of Urbana staff to create A Regional Water Supply Framework. The mission statement of the Framework reads:

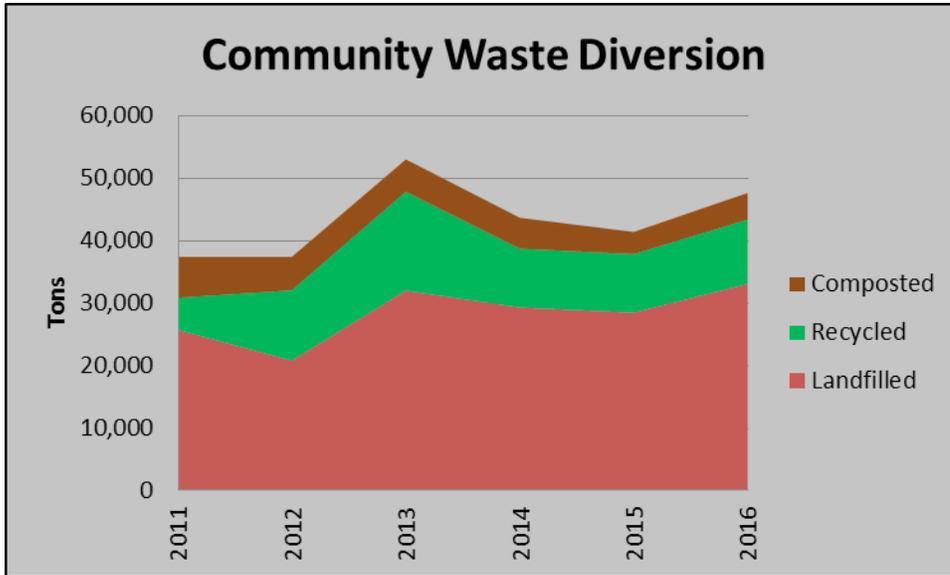
“to help protect the quality and quantity of the water supply for Champaign County by fostering a shared understanding of the current status of water quality and quantity in East Central Illinois and recommending an array of informed public policies and strategies useful in achieving those policies.”

The document and its 36 recommended actions are posted at http://www.ccrpc.org/wp-content/uploads/2016/11/Regional-Water-Supply-Framework_2016_FINAL_1108.pdf.



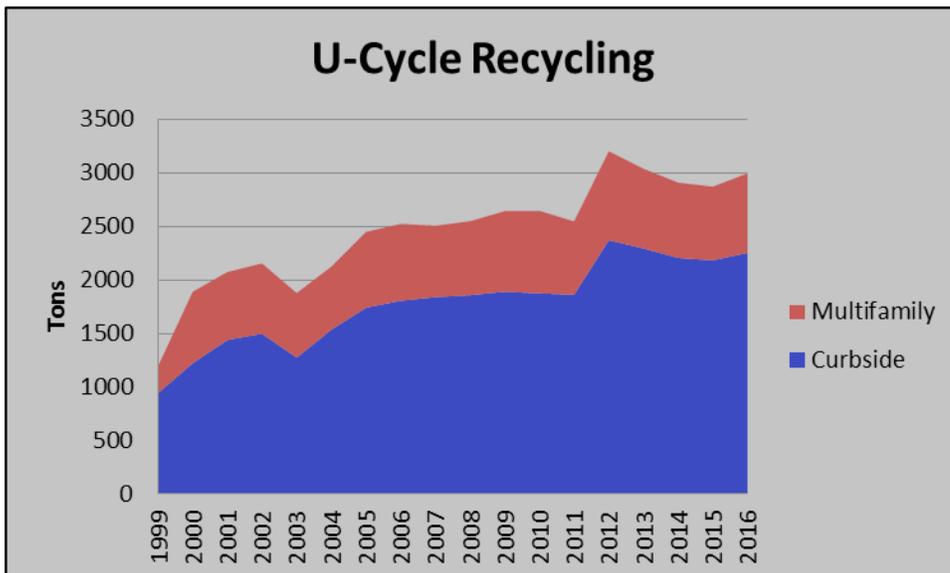
A Regional Water Supply Framework
FOR CHAMPAIGN COUNTY AND EAST-CENTRAL ILLINOIS
OCTOBER 2016





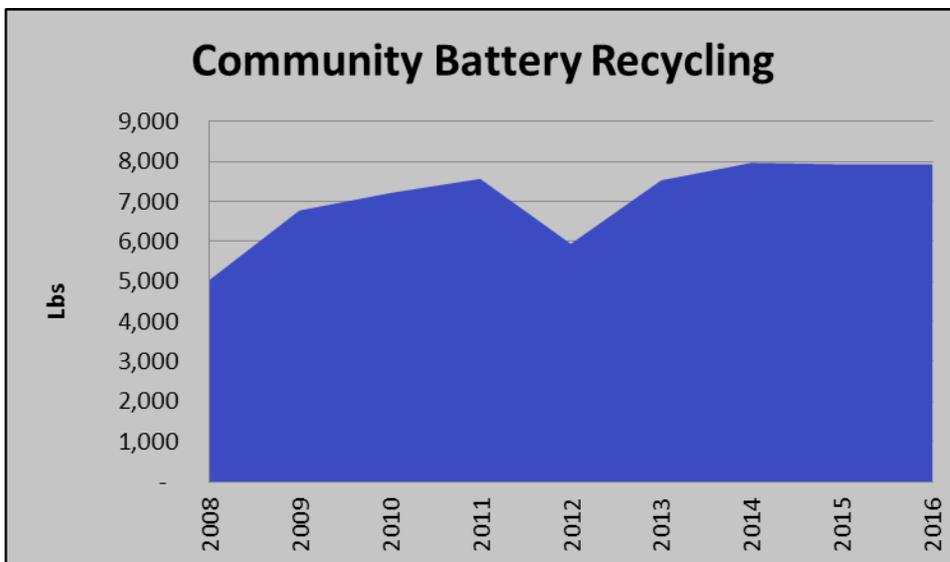
Additional Information

The Community Waste Diversion chart shows proportional waste, recycling, and composting over time. In 2016, total waste diversion was 31%.



America Recycles Day

U-Cycle and the Urbana Park District conducted an America Recycles Day event in November 2016 educating residents about local electronics recycling options. Approximately 90 participants took part in the event which included making mobiles out of old CDs and DVDs and making jewelry out of old keyboard keys. In addition, the Illini Gadget Garage assisted residents with basic troubleshooting techniques for their electronic devices.



Additional Information

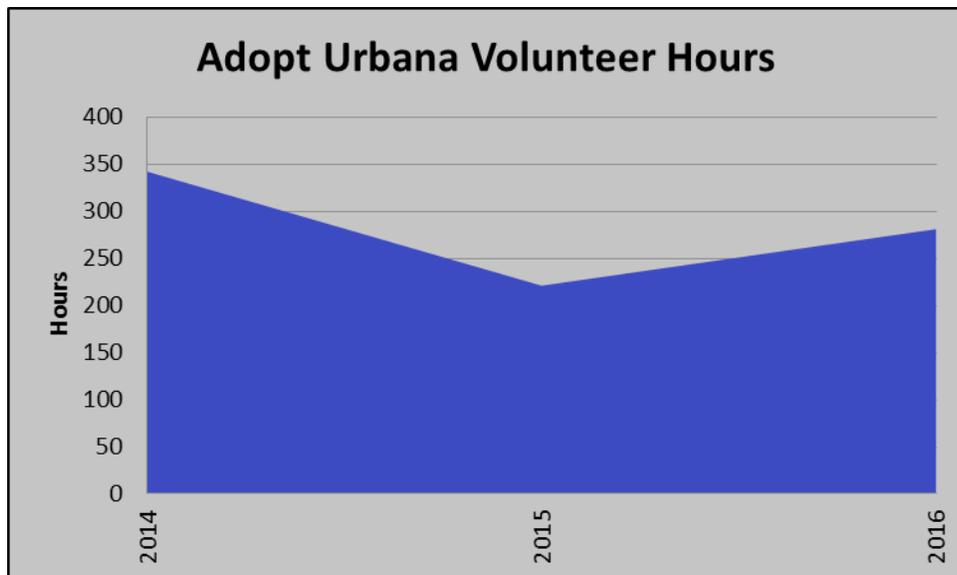
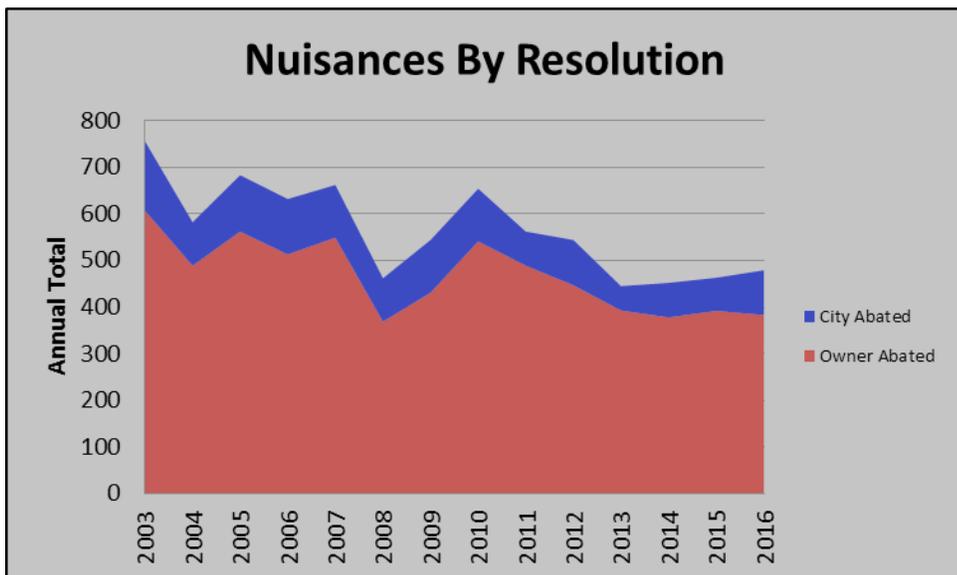
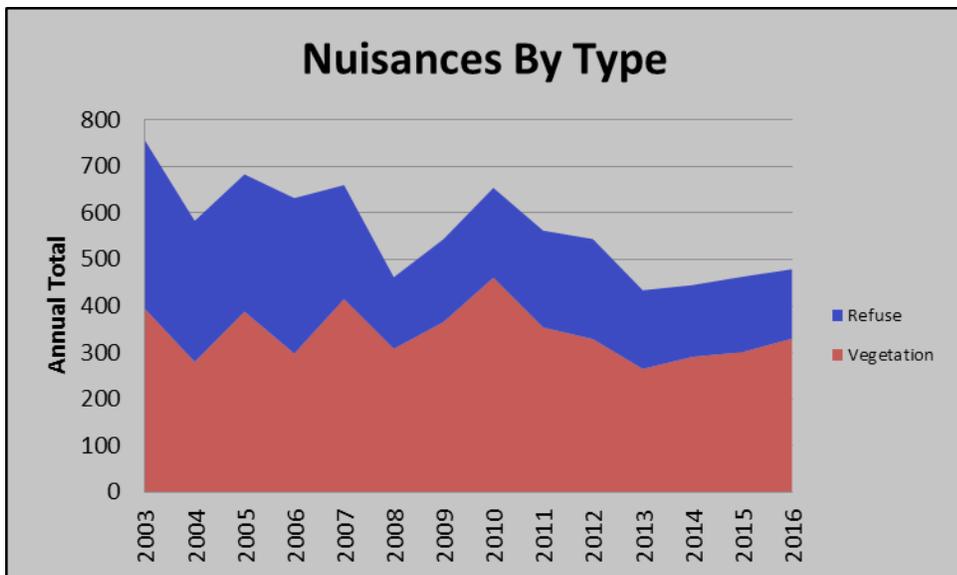
In 2016 a private company opened a construction and demolition materials recycling facility in Urbana. Waste haulers reported delivering 2,608 tons of materials to this facility for recycling in 2016.

Additional Information

The Nuisances By Type chart shows the proportion of nuisances that are either vegetation or refuse. Sidewalk snow removal violations as well as noise ordinance violations are not shown due to the very low instances of these violations.

Responding to Nuisances

City staff regularly convene a Problem Properties meeting where staff collaborate on improving conditions at properties that are having recurring crime, nuisance, or other challenges. This year the meeting discussed repeated complaints regarding the poor state of maintenance of clothing donation drop boxes. If the box is not regularly emptied, persons begin dumping clothes and other items around the box, creating a nuisance. When staff contacted property owners, many stated they never gave permission to host the boxes. Staff worked with property owners who wished to continue hosting the boxes to ensure good maintenance practices. Where owners did not wish to host the boxes, staff worked to identify the collection box owners and notify them that they didn't have permission to use the property.



AWARDS & GRANTS

The City of Urbana received a technical assistance grant from the US Department of Energy SolSmart program. The assistance is helping the City evaluate solar energy and energy storage opportunities at City-owned facilities. The City hopes to achieve a SolSmart designation in 2017.



Urbana has been named a Green Power Community by the U.S. EPA for its ongoing use of green power through the city's municipal electric aggregation program. Green power is zero-emissions electricity that is generated from environmentally preferable renewable resources, such as wind, solar, geothermal, biogas, eligible biomass, and low-impact hydro.

The City of Urbana's Public Works Building received the 2017 Urbana-Champaign ENERGY STAR Challenge award for Most Improved ENERGY STAR Score. ENERGY STAR Scores are a percentile ranking among a national data set of similar building types. The Public Works Building improved from a score of 58 to 72 on a 1-100 scale.

