

US EPA ARCHIVE DOCUMENT

# St. Louis Air Quality Management Plan Pilot Project

## Inventory of Local Activities in Support of Air Quality<sup>1</sup>

### Introduction

This table lists community based activities that support air quality improvement efforts in the St. Louis air quality management plan (AQMP) pilot project area. For the purposes of the AQMP, this area encompasses an eight county, bi-state area represented by the East-West Gateway Council of Governments. In Missouri, these counties include: Franklin, Jefferson, St. Charles, St. Louis and the City of St. Louis. In Illinois, the counties include: Madison, Monroe and St. Clair. The entire metropolitan statistical area contains a population of approximately 2.7 million people. These voluntary - and in some cases mandatory - programs help to reduce emissions which can contribute to overall air quality improvement in the area.

	Activity	Description	Contact/email	Website(s)	Impact on local Air Quality
1	Energy Efficiency Programs	<p>A number of businesses and local governments in the area participate in the "Pure Power" Program - a renewable energy program run by a local utility company, AmerenUE. The program allows customers to purchase renewable energy credits via their monthly bills. The tracking system ensures that renewable energy is purchased according to the amounts specified by the consumer. This program is "Green-e" certified.</p> <p>Combined Heat and Power (CHP) systems use on site engineering designs that maximize the use of exhaust streams at commercial facilities. CHP systems reduce energy costs and increase efficiencies. There are a total of 18 combined heat and power systems installed in Missouri. There are 139 in Illinois.</p>	n/a	<p><a href="http://www.ameren.com/PurePower/ADC_Default.asp">http://www.ameren.com/PurePower/ADC_Default.asp</a></p> <p><a href="http://www.green-e.org/">http://www.green-e.org/</a></p> <p><a href="http://www.chpcentermw.org/home.html">http://www.chpcentermw.org/home.html</a></p>	<p>Renewable energy purchases include: wind, solar, geothermal, biomass, and hydroelectric. Use of renewable energy results in fewer emissions as compared to traditional sources.</p> <p>NOTE: CHP system installations reflect statewide totals and are not quantified for the St. Louis area.</p>
2	Local Air Pollution Control	The City of St. Louis operates a local Air Pollution Control Program that has lower thresholds for permitting and regulated	Katina Stewart < <a href="mailto:stewartk@stlouiscity.com">stewartk@stlouiscity.com</a> >	<a href="http://stlouis.missouri.org/citygov/airpollution/">http://stlouis.missouri.org/citygov/airpollution/</a>	

<sup>1</sup> 12/21/09

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	Programs	<p>activities as well as the ability to impose stricter emission limitations on stationary sources. The Program also conducts outreach and compliance assistance visits.</p> <p>St. Louis County operates a local Air Pollution Control Program that has lower thresholds for permitting and regulated activities as well as the ability to impose stricter emission limitations on stationary sources.</p>	<p>Kathrina Donegan  <a href="mailto:KDonegan@stlouisco.com">KDonegan@stlouisco.com</a></p>	<p><a href="http://www.stlouisco.com/DOH/environment/airpollut.html">http://www.stlouisco.com/DOH/environment/airpollut.html</a></p>	
3	Renewable Energy Programs	<p>In November, 2008, Missouri passed a statewide law (Proposition C) mandating investor-owned electric utilities to generate or purchase electricity from renewable sources including solar, wind, biomass and hydropower. The law increases the percentages used per year up to 15% by 2021.</p> <p>In August 2007, Illinois passed a Renewable Energy Portfolio standard. Renewable energy includes: solar water heat, solar thermal electric, photovoltaics, landfill gas, wind, biomass, hydroelectric and biodiesel. The law increases the percentages used per year up to 25% by 2025. 75% of the renewable energy is to be derived from wind.</p>	n/a	<p><a href="http://www.smartvoter.org/2008/11/04/mo/state/meas/C/">http://www.smartvoter.org/2008/11/04/mo/state/meas/C/</a></p> <p><a href="http://www.dsireusa.org/library/includes/incentive2.cfm?Incentive_Code=IL04R&amp;state=IL&amp;CurrentPageID=1&amp;RE=1&amp;EE=0">http://www.dsireusa.org/library/includes/incentive2.cfm?Incentive_Code=IL04R&amp;state=IL&amp;CurrentPageID=1&amp;RE=1&amp;EE=0</a></p>	
4	Anti-Idling Programs	<p>An ordinance for the regulation and control of motor vehicle idling within the City of St. Louis. No person shall cause or permit the engine of a motor vehicle to operate in idle for longer than five (5) minutes in any hour while parking, standing or stopped. When ambient temperatures are below (32) degrees Fahrenheit, a motor vehicle may not operate in idle for longer than (10) minutes in any hour. Enforced by police officers or any law enforcement officer authorized to enforce traffic laws as a non-moving violation.</p> <p>State of Missouri St. Louis Area Anti Idling Rule – Control of Heavy Duty Diesel Vehicle</p>	<p>St. Louis Division of Air Pollution control</p>	<p><a href="http://www.slpl.lib.mo.us/cco/ords/data/ord8137.htm">http://www.slpl.lib.mo.us/cco/ords/data/ord8137.htm</a></p>	<p>Limits PM2.5 and other PM and Ozone pre-cursor pollutants.</p>

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		<p>Idling Emissions 10 CSR 10-5.385 effective February 28, 2009                      Passenger load/unload locations vehicle owner/operator idle no more than five minutes in 60 minute period. Heavy duty diesel vehicle owner/operator idle no more than five minutes. There are exceptions. No enforcement mechanism. Authority delegated to City and County and MoDNR responsible for rest of non-attainment area. Contact MoDNR, St. Louis County and City of St. Louis</p> <p>St. Louis County ordinance 612.340 restricts idling to no more than 3 minutes and includes light duty and gasoline engines.</p> <p>State of Illinois 625 Illinois Combined Statute 5/11-1429 covers Chicago area and Metro East (Madison, Monroe, St. Clair counties). Restricts idling to 10 minutes within any 60 minute period and 30 minutes if waiting to weigh, load or unload freight. Does not apply if temperature is lower than 32° F or higher than 80° F. \$50 fine first conviction; \$150 for second and subsequent convictions in a 12 month period.</p>	<p>Illinois Department of Transportation</p>	<p><a href="http://www.co.st-louis.mo.us/Doh/environ/Final_Ordinance_612_v2.pdf">http://www.co.st-louis.mo.us/Doh/environ/Final_Ordinance_612_v2.pdf</a></p>	
5	Clean Diesel Programs	<p>The St. Louis metropolitan area has received \$1 million in school bus retrofit funding. The local chapter of the American Lung Association administers the program. Approximately 900 school buses have been fitted with diesel emission reduction technology in school districts throughout the Mo and IL area.</p> <p>Grace Hill Settlement House Clean Air Program, a neighborhood air quality organization in St. Louis is partnering with the state to use a \$55K grant to retrofit trucks to</p>	<p>Susannah Fuchs, American Lung Association <a href="mailto:SFuchs@breathethealthy.org">SFuchs@breathethealthy.org</a></p> <p>Grace Hill Settlement House – (314) 539-9500</p>	<p><a href="http://www.lungusa2.org/missouri/">http://www.lungusa2.org/missouri/</a></p> <p><a href="http://epa.gov/midwestcleandiesel/">http://epa.gov/midwestcleandiesel/</a></p> <p><a href="http://www.blueskyways.org/">http://www.blueskyways.org/</a></p>	<p>By reducing diesel engine emissions, this program contributes towards the reduction and formation of ozone, particulate matter and various air toxics.</p>

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	<p>reduce diesel emissions.</p> <p>The Grace Hill Settlement House Clean Air Program was awarded approximately \$450K in EPA Region 7 Blue Skyways grant funds. The money will be used to fund the First Student School Bus Company for the School Bus Retrofit Program in St. Louis, Missouri. The grant money will be used to retrofit approximately 520 school buses with crankcase ventilation filters. The buses are primarily owned by First Student and serve St. Louis Public Schools' children. The retrofit will prevent fugitive diesel emissions from entering the passenger areas of buses where the children sit, and will keep more than 26.5 tons of particulate matter and 345.2 tons of hydrocarbons from entering the air annually.</p> <p>There is one truck stop electrification site within the St. Louis area.</p> <p>St. Louis Regional Clean Cities Program is a 501C3 that supports the initiative sponsored by the U.S. Department of Energy (DOE) to expand the use of vehicles that operate with fuels other than petroleum-based gasoline and diesel. They also work with other organizations to obtain and administer grants for clean diesel retrofits. A recent effort involves promoting the development of charging stations for electric vehicles.</p>	<p>Kevin Herdler  <a href="mailto:herdlakc@kirkwoodmo.org">herdlakc@kirkwoodmo.org</a></p>	<p><a href="http://www.dnr.mo.gov/env/apcp/dieselretrofitprogram.htm">http://www.dnr.mo.gov/env/apcp/dieselretrofitprogram.htm</a>  <a href="http://www.epa.gov/diesel/newsroom.htm">http://www.epa.gov/diesel/newsroom.htm</a></p> <p><a href="http://www.stlcleancities.org/">http://www.stlcleancities.org/</a></p>	

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6	Greenhouse Gas Reduction programs	<p>St. Louis is a regional participant in the Climate Prosperity Project, which supports innovation and economic development towards a carbon free future.</p> <p>The mayors of 14 cities in Missouri and Illinois have signed the U.S. Conference of Mayors Climate Protection Agreement.. The agreement lays out three main objectives:</p> <p>1) Strive to meet or beat the Kyoto Protocol targets in their own communities, through actions ranging from anti-sprawl land-use policies to urban forest restoration projects to public information campaigns;</p> <p>2) Urge their state governments, and the federal government, to enact policies and programs to meet or beat the greenhouse gas emission reduction target suggested for the United States in the Kyoto Protocol -- 7% reduction from 1990 levels by 2012; and</p> <p>3) Urge the U.S. Congress to pass the bipartisan greenhouse gas reduction legislation, which would establish a national emission trading system</p>	<p><a href="mailto:Climateprosperity@stlcga.org">Climateprosperity@stlcga.org</a></p>	<p><a href="http://www.climateprosperityproject.org/index.htm">http://www.climateprosperityproject.org/index.htm</a></p> <p><a href="http://www.usmayors.org/climateprotection/">http://www.usmayors.org/climateprotection/</a></p> <p>Participating Cities within the St. Louis area</p> <p>Alton, IL – <a href="http://www.alton-il.net">www.alton-il.net</a></p> <p>Edwardsville, IL – <a href="http://www.cityofedwardsville.com">www.cityofedwardsville.com</a></p> <p>South Roxana, IL – <a href="http://www.southroxana.net">www.southroxana.net</a></p> <p>St. Louis, MO – <a href="http://www.stlouis.missouri.org/government">www.stlouis.missouri.org/government</a></p> <p>Lake Saint Louis, MO – <a href="http://www.lakesaintlouis.com">www.lakesaintlouis.com</a></p> <p>St. Peters, MO – <a href="http://www.stpetersmo.net">www.stpetersmo.net</a></p> <p>Clayton, MO – <a href="http://www.ci.clayton.mo.us">www.ci.clayton.mo.us</a></p> <p>Creve Coeur, MO – <a href="http://www.crevecoeur.org">www.crevecoeur.org</a></p>	<p>Advocates energy efficiency programs, use of alternative energy, etc, resulting in lower Ozone and PM2.5 precursor emissions.</p>

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		<p>Illinois participates in the Midwest Governors Greenhouse Gas Reduction Accord. The Accord seeks to explore options towards creating a regional greenhouse gas cap and trade program. A draft is expected to be completed in 2009 with full implementation by the member states within 30 months.</p>		<p>Florissant, MO – <a href="http://www.florissantmo.com">www.florissantmo.com</a></p> <p>Kirkwood, MO – <a href="http://www.kirkwoodmo.org">www.kirkwoodmo.org</a></p> <p>Maplewood, MO – <a href="http://www.ci.maplewood.mo.us">www.ci.maplewood.mo.us</a></p> <p>Overland, MO – <a href="http://www.overlandmo.org">www.overlandmo.org</a></p> <p>Sunset Hills, MO – <a href="http://www.sunset-hills.com">www.sunset-hills.com</a></p> <p>University City, MO – <a href="http://www.ucitymo.org">www.ucitymo.org</a></p> <p><a href="http://www.midwesternaccord.org/">http://www.midwesternaccord.org/</a></p>	
7	Green Buildings Program	<p>U.S. Green Building Council St. Louis Regional Chapter Focus – to increase LEED-registered and certified buildings; facilitating professional development and accreditation; and promoting practical green standards.</p> <p>City of St. Louis Board Bill 323 (signed into law February 20, 2007) Directed Board of</p>	<p>Executive Director - Emily Andrews of Missouri Botanical Garden <a href="mailto:Emily.Andrews@mobot.org">Emily.Andrews@mobot.org</a></p>	<p><a href="http://www.usgbc-stl.org/">http://www.usgbc-stl.org/</a></p>	<p>Green Building programs help to reduce the amount of energy used, resulting in lower greenhouse gas emissions.</p>



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		<p>Public Service to adopt LEED Green Building Rating System for newly constructed city-owned facilities greater than 5,000 square feet. Buildings are to meet the LEED Silver level of certification as a minimum threshold of building performance. Board of Public Service also is to apply LEED principles during retrofit and renovation projects of current standing facilities whenever it is practical.</p> <p>Ordinance 67414: An ordinance directing the Board of Public Service to adopt Leadership in Energy and Environmental Design (LEED) Green Building rating system for all newly constructed and renovated city-owned facilities.</p> <p>City of Clayton, in St. Louis County, has adopted LEED Silver certification as the benchmark for city-owned buildings.</p>		<p><a href="http://www.slpl.lib.mo.us/cco/ords/data/ord7414.htm">http://www.slpl.lib.mo.us/cco/ords/data/ord7414.htm</a></p>	
8	Sustainability	<p>The City of St. Louis Sustainability Director oversees sustainability efforts for the city.</p> <p>The Sustainable St. Louis organization is working to coordinate, measure and promote efforts to make the St. Louis region more sustainable.</p> <p>Home Builders Association of St. Louis and Eastern Missouri – Green Building Council</p> <p>Four municipalities are members of the ICLEI – Local Governments for Sustainability organization. They are: Creve Coeur; University City; Olivette; and the City of St. Louis. The Director of the St. Louis-Jefferson Solid Waste Management District is an associate member of ICLEI. University City is working on an emissions inventory.</p> <p>Through a generous grant from the St. Louis-</p>	<p>Catherine Werner  <a href="mailto:WernerC@stlouiscity.com">WernerC@stlouiscity.com</a></p>	<p><a href="http://www.sustainstl.org">www.sustainstl.org</a></p> <p><a href="http://www.stlhba.com/">http://www.stlhba.com/</a></p> <p><a href="http://www.iclei.org/">http://www.iclei.org/</a></p> <p>cool cities  <a href="http://www.coolcities.us/">http://www.coolcities.us/</a></p> <p><a href="http://resourcestloui">http://resourcestloui</a></p>	<p>Sustainability efforts promote the use of green materials, energy efficiency and public health improvements.</p>



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		<p>Jefferson County Solid Waste District, ReSource St. Louis, now incorporated as St. Louis Sustainable Buildings, created this website to provide, not only an online materials exchange, but also resource for the region about sustainable practices for the built environment that includes information on energy, clean air and water and other sustainable building practices.</p> <p>St. Louis Green is an online source for everything green in the St. Louis area</p>		<p><a href="http://www.stlouisgreen.com/"><u>s.org/Home.aspx</u></a></p> <p><a href="http://www.stlouisgreen.com/"><u>http://www.stlouisgreen.com/</u></a></p>	
9	Transportation Planning	<p>The East-West Gateway Council of Governments is the designated Metropolitan Planning Organization for the St. Louis area. The Transportation Improvement Plan is titled <u>Legacy 2035</u>, and amendments to the TIP are prepared as needed. As part of that process, an air quality Conformity Determination (CD) has been submitted for approval. The CD determines that projects are within the vehicle emissions budgets set forth in the Mo and IL State Implementation Plans for 1 hour ozone and PM2.5.</p> <p>To improve traffic flow and reduce congestion, a number of municipalities have conducted traffic signal improvements and intersection improvements.</p> <p>Gateway Guide is the St. Louis metropolitan area intelligent transportation program. It provides real-time traffic information to motorists and emergency services by telephone and variable message boards. This information will aid motorists in their route decisions and help emergency services, like the Motorist Assist program, in incident management. Gateway Guide is a regional partnership between the Missouri Department of Transportation, the Illinois Department of Transportation, Metro and the East-West Gateway Council of Governments.</p>	<p>Mike Coulson</p> <p><a href="mailto:mike@ewgateway.org"><u>mike@ewgateway.org</u></a></p>	<p><a href="http://www.ewgateway.org/trans/transportation.htm"><u>http://www.ewgateway.org/trans/transportation.htm</u></a></p> <p><a href="http://www.gatewayguide.org"><u>www.gatewayguide.org</u></a></p>	<p>Transportation Plans must meet VOC, NOx, and PM2.5 vehicle emissions budgets set forth in state implementation plans for Mo and IL.</p>

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10	Air Quality Alerts	<p>The East-West Gateway Council of Governments administers the local Air Quality Index monitoring and reporting program. During the ozone season, a network of monitors report the AQI values from 0 (satisfactory) to 500 (hazardous). Values are converted to a color code and reported by various media throughout the season.</p> <p>The St. Louis Regional Clean Air Partnership (SLRCAP) coordinates the preparation and dissemination of daily air quality forecasts (mid May through mid September). This information is provided to media sources, state highway departments for posting on their roadside message boards and to subscribers to an e-mail notification system (both workplace and individual). When a "Red" or "Orange" day is forecasted, workplace Clean Air Coordinators can post signs or send out announcements.</p>	Susannah Fuchs of the American Lung Association of the Central States	<p><a href="http://www.ewgateway.org/environment/ag/AQICalendar/agicalendar.htm">http://www.ewgateway.org/environment/ag/AQICalendar/agicalendar.htm</a></p> <p><a href="http://www.cleanair-stlouis.com/">http://www.cleanair-stlouis.com/</a></p>	During high ozone action days, citizens are encouraged to limit prolonged or moderate exertion outdoors, as well as limit activities or modify behaviors to reduce emissions of ozone forming pollutants.
11	VMT Reduction program	<p>The St. Louis mass transit system, Metrolink, participates in the IRS-authorized "Partial Expense Reduction for Commuters" (PERC) program. Local businesses and city governments can provide up to \$110/month to offset public transit costs. Approximately 6500 commuters participate in this program at more than 100 local area employers.</p> <p>RideFinders is the regional rideshare program sponsored by the Madison County Transit District (MCT). Over 1400 employers promote ridesharing (carpools or vanpools) and over 8000 commuters are sharing the ride. RideFinders also provides a Guaranteed Ride Home service for participants.</p> <p>The Citizens for Modern Transit (CMT) organization promotes use of mass transit (bus and light rail). Employers can sign up for a Guaranteed Ride Home program which</p>		<p><a href="http://www.metrostlouis.org/GettingStarred/TryTransit/trytransit.asp?promoID=10">http://www.metrostlouis.org/GettingStarred/TryTransit/trytransit.asp?promoID=10</a></p>	The PERC program reduces traffic congestion, conserves energy and reduces vehicle emissions.

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		<p>their employees, if registered, can utilize. Another program offered by CMT is the Ten Toes Express. It is designed to link walking with using light rail or the bus for the work commute.</p> <p>To encourage sharing the ride, both State DOTs have constructed park and ride lots in the outer parts of the region. Both Metro and MCT have built and operate multi-modal transit centers. The original MetroLink light rail transit line has been extended to the east to Scott Air Force Base. The Cross County extension runs from St. Louis to Clayton and on to Shrewsbury. Metro has replaced some of its fleet with CNG buses.</p> <p>The St. Louis Regional Clean Cities Program is a voluntary initiative which promotes alternative fuels, advanced vehicles, fuel blends, fuel economy, hybrid vehicles and idle reduction. It is composed of fleet owners/operators, fuel and vehicle industry representatives and local governments. The goals of the Clean Cities Program are to reduce dependence on foreign oil, improve air quality and promote economic development in the St. Louis region.</p>	<p>Kevin Herdler is the Executive Director of the St. Louis Regional Clean Cities Program</p> <p><a href="mailto:herdlerkc@kirkwoodmo.org">herdlerkc@kirkwoodmo.org</a></p>	<p><a href="http://www.stlouiscleancities.org">www.stlouiscleancities.org</a></p>	
12	Biking and Walking Programs	<p>Trailnet is a St. Louis based community group that encourages the consideration of biking and pedestrian trails in community planning. In conjunction with the East-West Gateway Council of Governments, the group has actively promoted outreach and public education events, encouraging biking for transportation where feasible.</p> <p>Similarly, the Great Rivers Greenway District works to develop park trails and "greenways". A major project under consideration is the "River Ring", an interconnected system of greenways, parks and trails that will encircle the St. Louis region.</p>		<p><a href="http://www.trailnet.org/ourportfolio.php">http://www.trailnet.org/ourportfolio.php</a></p> <p><a href="http://www.greatrivers.info/">http://www.greatrivers.info/</a></p>	<p>Reducing vehicle use results in lower ozone, PM and VOC emissions.</p>

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		<p>Greenway network – Their mission is to conserve natural resources, encourage sound management of the watersheds, and protect the quality of life for the residents of the St. Louis region.</p> <p>East West Gateway Council of Governments sponsors a “Great Street Initiative” designed to “trigger economic and social benefits by centering communities around interesting, lively and attractive streets that serve all modes of transportation.”</p>		<p><a href="http://www.greenwaynetwork.org/">http://www.greenwaynetwork.org/</a></p> <p><a href="http://www.greatstreets-stl.org/content/view/full/527/1613/">http://www.greatstreets-stl.org/content/view/full/527/1613/</a></p>	
13	Regional Water Quality Protection	The East-West Gateway Council of Governments keeps track of local activities designed to protect the water quality within the St. Louis area. This effort encompasses conservation, best practices, planning and zoning strategies.	David Wilson <a href="mailto:David.Wilson@ewgateway.org">David.Wilson@ewgateway.org</a>		
14	St. Louis City Forestry Program	The Tree Section plants, prunes and removes street and park trees. It enforces the city codes that regulate and protect trees. The Forestry Division plants trees in the “tree lawn,” the city right-of-way typically found between the curb and sidewalk. These trees are planted at no cost to the adjoining property owners.		<a href="http://stlouis.missouri.org/citygov/parks/forestry_div/tree.html">http://stlouis.missouri.org/citygov/parks/forestry_div/tree.html</a>	
15	Environmental Justice	The Community Environmental Resource Program (CERP) is a monitoring and educational effort created to help residents, businesses and officials understand and deal with environmental issues in the cities of St. Louis and East St. Louis. With support from the U.S. Environmental Protection Agency (EPA), the clearinghouse has been developed under the direction of the East-West Gateway Coordinating Council. Citizens, government officials and non-profits from both sides of the Mississippi River are actively involved in this project.		<a href="http://stlcincin.missouri.org/cerp/aboutcerp.cfm">http://stlcincin.missouri.org/cerp/aboutcerp.cfm</a>	

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		<p>St.. Louis ARCHS Program - St. Louis Area Communities Against Toxics Community Partnership (SLACAT) helps North City Residents (zip codes 63115, 63136, 63120, and 63147) live a more environmentally friendly lifestyle. The EPA Office of Environmental Justice (OEJ) awarded \$100K in grant funds to focus on safe ways to dispose of household and small business toxics (paint, lawn/garden chemicals, and more). SLACAT addresses air/water quality, lead and indoor mold issues to reduce risk exposures. The grant promotes local problem solving initiatives that can be replicated across the country.</p>	<p>Gail Dickson  <a href="mailto:dicksong@stlarchs.org">dicksong@stlarchs.org</a></p>	<p><a href="http://www.stlarchs.org/slacat.htm">http://www.stlarchs.org/slacat.htm</a></p>	
16	Sensitive Ecosystems	<p>The Nature Conservancy is a conservation organization working to protect ecologically important lands. This group has identified 2 critical ecosystems within the St. Louis area: 1) Sandy Island Bald Eagle Sanctuary near Winfield, Missouri in Lincoln County and 2) Victoria Glade, a treeless rocky, desert-like area near Hillsboro in Jefferson, County, Mo.</p>	<p><a href="mailto:Missouri@tnc.org">Missouri@tnc.org</a></p>	<p>Nature Conservancy of Missouri  <a href="http://www.nature.org/wherewework/northamerica/states/missouri/preserves/">http://www.nature.org/wherewework/northamerica/states/missouri/preserves/</a></p>	