



2023 St. Louis Master Gardener IMPACT REPORT

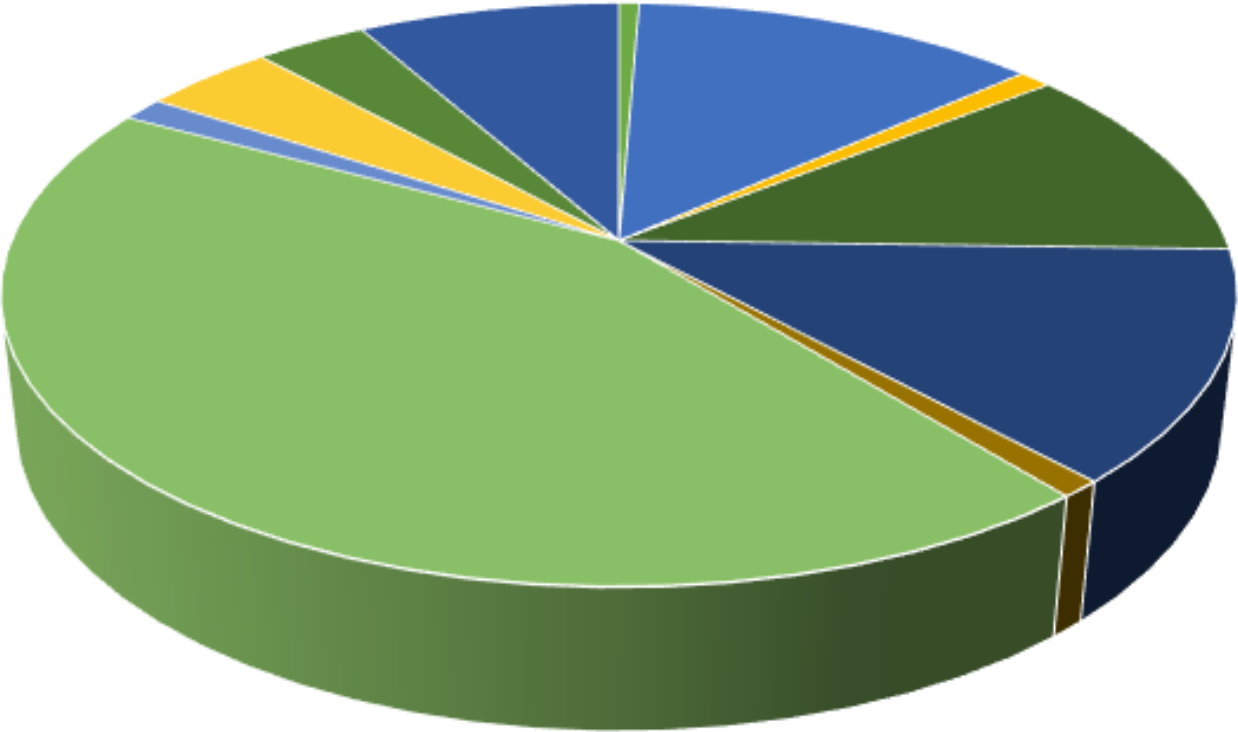
The St. Louis Master Gardener Program was established in 1983 by the world-renowned Missouri Botanical Garden in partnership with University of Missouri Extension. This partnership has provided horticultural education and outreach into the St. Louis community by training volunteers to educate and participate in public and civic gardening. The Garden is home to the St. Louis Master Gardener program and provides training space and instructors for the training. MU Extension specialists are also instructors for the St. Louis Master Gardener Training as well as industry experts.

TOTAL 2023 VOLUNTEER HOURS

49,291

- Hours logged in 81 zip codes by 416 St. Louis Master Gardeners
- 361 Master Gardeners logged 50+ hours
- Volunteer contribution valued at over \$1,567,453.80

2023 St. Louis Master Gardener Volunteer Hours



- Butterfly House
- MBG gardening
- Parks & Projects
- St. Louis County Parks
- Community Gardens not Seed STL
- MBG non-gardening
- Shaw
- Teaching & Advising
- Litzsinger
- MG Administration
- St. Louis City Parks

2023 St. Louis Master Gardener Hours Awards

1000+ Hours

Ron Brown

1133

Sandra McCoy

1033

200 to 800+ Hours

Myra Rosenthal	899	Chuck Brust	313	Joseph Ackerman	271	Rosemary Kilgore	234
Deborah Grossman	837	Chick Buehrig	326	Linda Krygiel	271	Sherry Moschner	223
Kiersten Torrez	751	Wayne Fitzmaurice	355	JP (Jeanne) Grone	261	Cindy Kveton	216
James Morrison	750	Patricia Jones	328	Sue Onnen	261	Bridget Fletcher	215
Ronda Anson	646	Chris Kirmaier	302	Diane Grubbs	260	Laura Million	207
Virginia Johnson	594	Ronni Lodato	324	Veronica Putz	256	Marjorie Dahmer	206
John Lorenz	522	Gloria Mahoney	331	Linda Massey	255	Alan Raymond	205
Ron Stevens	432	Phedra Nelson	387	Deborah Eldridge	252	Tessa Wasserman	205
Nancy Karpowicz	410	Betsy Alexander	290	Laurian McGrath	249	Colleen Seiffert	201
Suzanne Albright	342	Warren Davis	286	Sue Ann Webb	241	Cindy Farris	200
Catherine Barnett	330	Hera Gerber	278	Pamela Culliton	239		
Kathy Beezley	391	Carol Gravens	276	Jodi Smedley	236		

2023 St. Louis Master Gardener Hours Awards

100+ Hours

Nan Bond	198	William Miller	194	Karen Hindman	136	Peggy Green	114
Carol Kreader	198	Susan Kennedy	191	Michael Albers	136	Sandra Hopkins	113
Anita Isenberg	197	Meghan Ruiz	190	Amelia Patrick	136	Sharon Upchurch	113
Beth Bean	195	Cheryl Rafert	185	John Danner	135	Keith Kretzmer	112
Kathleen Ryan	194	Mimi Mooney	179	Patience Schock	133	Nancy Zander	112
Brenda Casey	191	Jan Gowen	178	Renee Rockwell	132	Cynthia Kluzak	112
Patty Taillon-Miller	190	Mary Lee Walter	174	Christy Moore	132	Katie Burckhalter	112
Marge Zubler	185	Marilyn Lane	170	Michele Roberts	130	John Hensley	112
Jack Barnett	179	Debra Ebel	169	Judy Morrow	130	Marilyn Claggett	110
Lois Kordenbrock	178	Ann Niemann	169	Pam Klump	130	Jane Kerlagon	109
Deborah Kettler	174	Susan Rayne	169	Jeff Lund	129	Ann Case	108
Martha Kratzer	170	Linda Gwyn	169	Sheila Hayes	129	Janet Carlin	108
Laura Schnure	169	Myra Moscovitz	168	Caroline Fullerton	129	Rita Hennessey	107
Denise Evans	169	Toni Boschert	168	Cathy Arnold	127	Linda Monday	106
Carol Gardner	169	Ann Marie Mayuga	166	Stephanie Sigala	121	Maureen Hooch	105
Jasmine Zenderlanc	169	Jennifer Hunstad	141	Anne Rankin Horto	121	Deonna McAliney	105
Ken Wheat	168	Gerard Murphy	140	William Lenz	121	Jeanne Ortega	105
Sandy Oldfield	168	Joan Morris	139	Barbara Hilton	121	Teresa Schulz	104
LaVanna Wrobley	166	Chris Williams	138	David Horton	119	Paul Flinn	103
Jannette Helfrich	198	Betty Reinsch	138	Anita Joggerst	118	Marie Cappiello	102
Kristen Westley	198	Kathleen Kennedy	138	Patricia Jung	117	Joseph Watts	102
Pamela Hass	197	Glenn Eckert	137	Michael Hey	117	MaryJane Palmer	101
Kimberly Smith	195	Megan Clinton	137	Peggy Stuckmeyer	115	Paula Kleypas	102
						Mary Kennedy	100

2023 St. Louis Master Gardener Hours Awards

50+ Hours

Sandra Willems	98	Debbie Danner	90	Sue Neidenbach	76	Terry Milne	70	Donna Nonnenkamp	65
Jane Baker	98	Mahesh Addagaria	88	Gary Bickham	76	David Fonner	70	Mary Ellen Roussin	65
George Hibbard	97	Barbara Adams	88	Crystal Salt	76	Robert Sullentrop	69	Julie Delen	65
Carol Evans	96	Eric Benckendorf	88	Deborah Beezley	76	Jasmine Fazzari	69	Prathiba Balakrishna	64
Sheri Goldsmith	96	Beverly Dyson	87	Royal Mark Flush	76	Vanessa Cowart-Obi	69	Kathy Murphy-Baum	64
Xavier Kaighin	96	Emily Meyer	87	Diane Schneider	76	Linn Wells	68	Becky Meier	64
JoAnn Kresko	95	Charles Kleypas	86	Linda Waugh	76	John Fey	68	Jennifer Harutunian	64
Jean Steward	95	Susan Miller	86	Kay Pelikan	75	Laurie Salanski	68	Jada Fey	63
Karen Smugala	95	Caroline Moore	86	Donna Horsford	75	Martha Conzelman	67	Donna Steinhoff	63
Madelynn Kester	94	Matthew Tutts	84	Cammie Lewis Holic	75	Linda Koenig	67	George Holtzman	63
Linda Tonnies	93	Veronica Johnson	83	Rebecca Penniman	75	Kurt Keister	67	Rose Ahrens	62
Kate Smith	93	Lisa Ann Douglass	83	Rita Gentilcore	75	Mary McClenahan	67	Wendy Vlieks	62
Bruce Chalker	93	Linda Case	83	Paula Suda	74	Gary Meyer	67	Theresa Novak	62
Linda Robson	92	Megan Moffatt	83	Mary Harris	74	Patti Barnes	67	Joy Stapleton	62
Carol Lentz	92	Joy Ryan	82	Jill Stone	73	Nancy Yohe	67	Nicholas VonSellen	61
Victoria Bader	92	Pamela Fournier	81	Audrey Wattler	72	Jan Hermann	67	Marla Guggenheimer	61
Tamar Albrecht	92	Larry Morrison	81	Lora Berthold	72	Evelyn Dickerman	66	Noah Pyles	61
William Coyne	92	Becky Saenz	80	Ann Eveker	72	John Davis	66	Kathi Shepard	61
Angela Fonner	92	Carolyn Hasenfratz	78	Mary Ellen Heteyl	71	Rhonda Porche-Sorl	66	Eunice Lord	61
Harriet Blickenstaff	90	Caitlin Isgriggs	78	Sandy Prucha	71	Maureen Keating	66	Holly Berthols	61
Adrian Denny	90	Patty Mendicino	77	Christy Hamilton	71	Ned Siegel	66	Robert Henson	60
Harold Tennyson	90	Beth Backman	77	Yvette Luedde	71	Ruth Grega	65	Renee Barry	60

2023 St. Louis Master Gardener Hours Awards

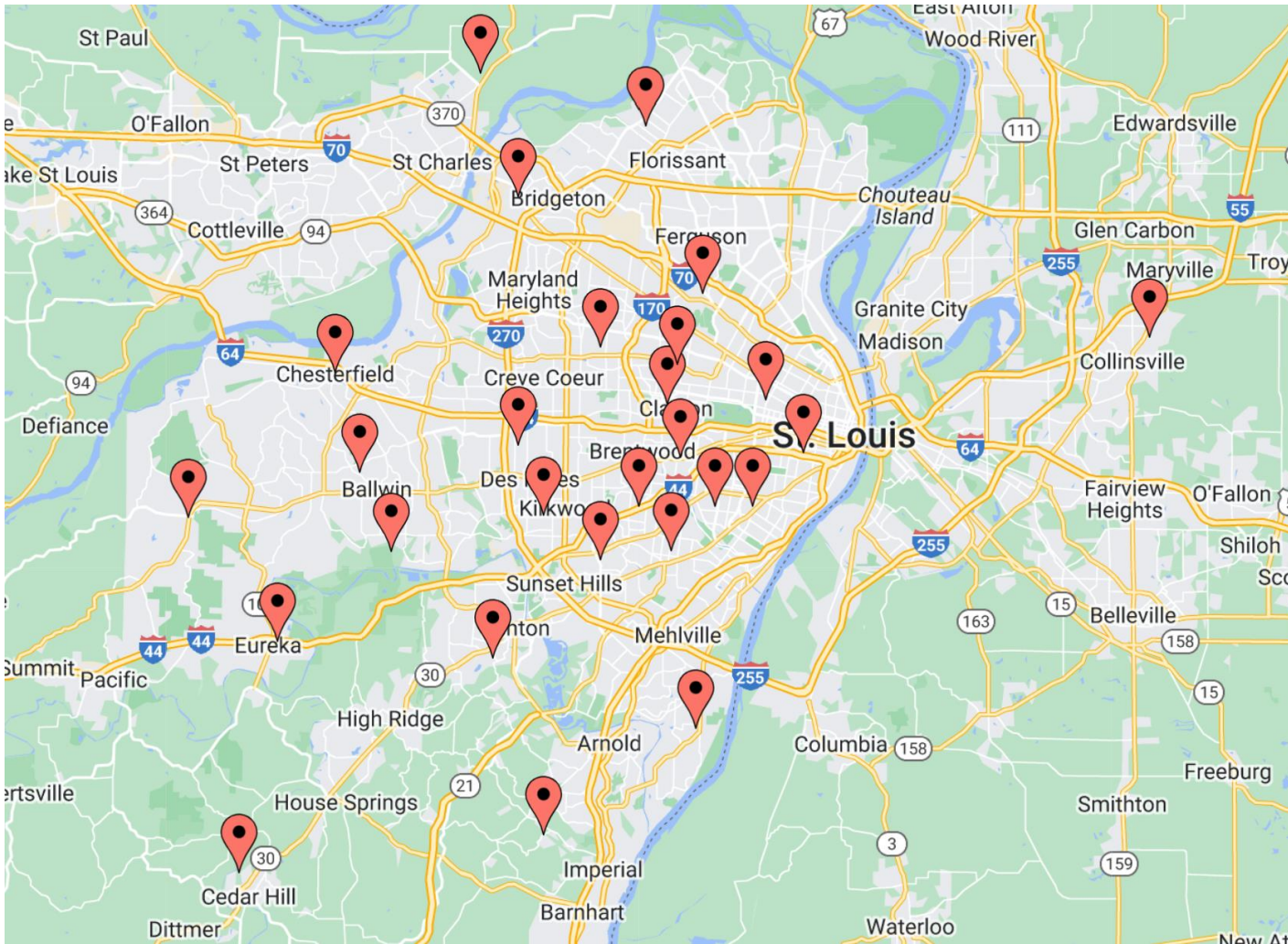
50+ Hours

Janet Hennessey	60	Ahsley Seiss	56	Madalyn Payne	54	Katrina Harris	52	Tim O'Connor	50
Heather Zimmermar	60	Christine Goudy	56	Taylor Fischbach	54	Katie Belisle-Iffrig	52	Helena Bedalli	50
Anne Moll	60	Adam Davenport	56	Mary Lynn Thompson	54	Elizabeth Powell	52	Marsha Smith	50
Cindy Lapidés	60	Samuel Cabral	56	Carolyn Knarr	54	Noah Sutton	52	Christina Mayo	50
Lucy Burke	59	Michelle Storgion	56	Dan Rowe	54	David Hults	52	Blake Larson	50
Laurie Renner	58	Beverly Branneky	56	Ritz Zeitz	54	Katie Weber	52	Julie King	50
Mary Mason Coyle	58	Diane Conrad	56	Georgia Stobbs Cuc	54	Gregory Carter	51	Rebecca Duffy	50
Cathy Dammrich	58	Melissa Gibbs	56	Kristin Provinse	54	John Zalewski	51	Glen Malast	50
Erin Mesh	58	Timothy Breier	56	Marybeth Hercules	53	Joyce Fry	51	Jamie Wilger	50
Laura Edgeton	58	Tina Cheung	55	Lane O'Shea	53	Aisha Hedges	51	Michael McCubbins	50
Mary Kreppel	58	Amy Hanson	55	Gerald Schaefer	53	Ginger Gamble	51	Heidi Schoen	50
Jane Yu	57	Lisa Wilson	55	Phillip Egart	53	Lauren Loeffler	51	Miriam Keller	50
Alberta Chulick	57	Laura Smith	55	Jean Hunt	53	Carol Kirk	51	Kathy Murray	50
Karen Noyes	57	Sally Spitznagel	55	Kellie Mandry	53	Michelle Anderson	51	Kathleen West	50
Cindy Geiss	57	Becca Gray	55	Andrew Lassiter	53	Nicoel Mater	51	Mary Palazzola	50
Howard Nimmons	57	Deborah Callihan	55	Lolli Haws	53	Jessica Boddicker	51	Paula French	50
Harriet Muschany	57	Sandy Brooks	54	Patti Clerc	53	Andrew Schiefelbeir	51		
Norma Fanara	57	Janice Madden	54	Jeanne Coibion	53	Susan Rowe	51		
Cheryl Fox	57	Pamela Thomas	54	Cheryl Erman	53	John Hyland	50		
Mary Ellen Dockery	56	Craig MacDonald	54	Susi Reed	53	Randy Zimring	50		
Carol Blackall	56	Carter Law	54	Carol Wesley	53	Aimee Dunlap	50		
Kathleen Benckend	56	Kathy Bumberry	54	Raghib Muhammad	52	Erica Williams	50		

St. Louis Master Gardener Training

The St. Louis Master Gardener Training Program is an annual volunteer training conducted in partnership between the Missouri Botanical Garden (MBG) and the University of Missouri Extension. Hundreds of gardeners from throughout the Greater St. Louis area have taken the Master Gardener training. The 18-week program provides in-depth education and coursework that not only sharpens the participants' knowledge, but also creates an amazing cadre of volunteers who work in gardens and programs across all St. Louis communities.

2023 St. Louis Master Gardener Class



63 new Certified
Master Gardeners
from 35 St. Louis
area zip codes

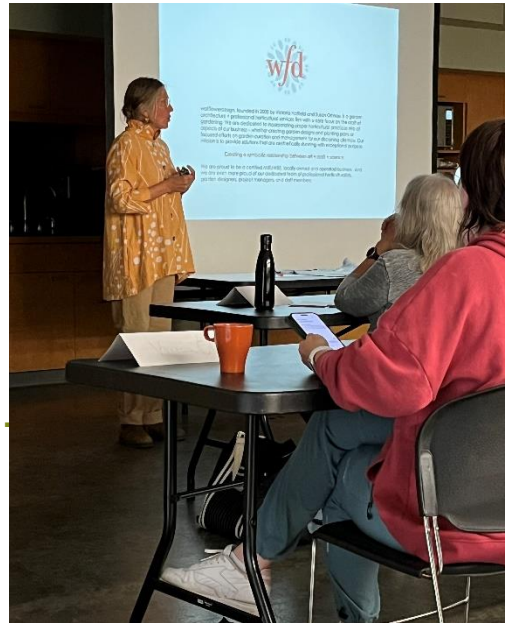
Several Members of the St. Louis Master Gardener Class



2023 St. Louis Master Gardener Training Class

The 2023 St. Louis Master Gardener Training is held in-person for 18 weeks. The in-person training provides MG trainees the opportunity to interact face-to-face with their instructors and receive immediate feedback on their work. It also allows the trainees to create relationships with each other. These relationships create volunteer groups that help contribute to the success of the St. Louis Master Gardeners.

The annual program begins in January, with afternoon and evening sessions held at the Missouri Botanical Garden's Kemper Center. Classes include plant identification, pruning, Missouri natives, perennials and annuals, landscape design and 'what not to plant,' walks, tours and other educational opportunities.



Large Missouri Trees

LATIN NAME

Carya illinoensis
Cercidiphyllum japonicum
Fagus grandifolia
Gymnocladus dioica
Liriodendron tulipifera
Magnolia acuminata
Platanus occidentalis
Quercus alba
Quercus rubra
Tilia americana
Ulmus americana

COMMON NAME

hardy pecan
katsura tree
American beech
Kentucky coffee tree
tulip tree
cucumber tree
American sycamore
white oak
red oak
American linden
American elm

St. Louis Master Gardener Training Instructors

- Ben Chu, MBG Manager South Gardens/Japanese Garden
- Sherry Harsch-Porter PhD, Adjunct Professor Washington University
- Chris Kirmaier, WashU Photosynthesis Researcher Scientist
- Daria McKelvey, Horticulturist & Supervisor MBG Kemper Center
- Elizabeth Wahle PhD, U of Illinois Extension State Specialist Fruits & Vegetables
- Glenn Kraemer, Horticulturist & Owner GR Robinson Seed & Service
- Victoria Hatfield, Horticulturist, Adjunct Professor, Business owner
- Eli Elihu, MU Extension Horticulture Specialist
- Justine Kandra, Botanist Kemper Center
- Scott Woodbury, Manager Shaw Nature Reserve



Master Gardener Chapter Highlights

The St. Louis Master Gardeners have over 25 established projects sites. In addition, many Master Gardeners have taken the initiative to create projects where there is a need. Included in the following slides are just a few of these projects.

Emerson YMCA Community Garden

"I lost my husband in 2012. I really didn't know what to do with myself. I'm legally blind, so this makes it harder for me to do certain things, but not impossible. My daughter and I were looking for a place to work out so we decided to give the Y a try. This was the best thing that happened to me. At the Emerson YMCA, you are family. I joined the OG's, the Organic Gardeners. The Y has afforded me the opportunity to become the Master Gardener for the Y. My Y story is simple - the YMCA has given me a lifeline." Sandy McCoy has been managing the community garden at the Y since she became a Master Gardener in 2019.

Summer camp classes with 30 student ages 6-10 years of age

Planting classes - 25 high school students from (Incarnate Word Academy High School and Lutheran North High School)

Incarnate Word Academy High Students volunteering 40 hours in the garden and 49 hours in the kitchen.

Garden Production

Tomato: 127 pounds

Corn: 10 pounds

Okra: 15 pounds

Sweet Potato: 45 pounds

Collards Mustard Swiss Chard Kale: 100 plus pounds

Peppers: 32 pounds

Cucumber: 75 pounds

Watermelon: 55 pounds



Friends of the Market Community Garden

This project was started in 2018 by Master Gardener Ron Brown and his wife, Ann, in Ferguson, MO. They started with a few raised beds and have now expanded to include the house and property at 28 Suburban Avenue and the former community garden down the street. There are garden beds, a greenhouse made from recycled materials, a yoga circle, hydroponics, cooking and just about anything you would imagine at a community garden. The garden and house are wheelchair accessible. In 2023, additional raised beds and cold frames were added.

A masterpiece of inclusion: Ferguson Farmers Market community garden.



Help A Neighbor Day

Master Gardeners Judy and Mary Beth Gallagher created the Help A Neighbor Day program as a way to help homeowners and nonprofits with their landscape. Master Gardeners submit the names of a non-profit or home owner who are in need a few hours of garden clean up but are unable to complete the work themselves.

The first session was held in October 2023, at two homes, one in South City and another in Webster Groves. Volunteers, weeded, raked leaves, spread mulch, and visited with homeowners. One of the homeowners said that she could not tell which house was hers without the weeds to identify it.

The event will be held on the 4th Saturday of every month. beginning in March 2024.



JCCA Garden of Eden

The Garden of Eden at the JCC, located in unincorporated St. Louis County, donates produce for the nearby Harvey Kornblum Jewish Food Pantry. (The pantry is one of the largest in the metropolitan area and is nonsectarian).

GARDEN OF EDEN by the Numbers

Harvey Kornblum Jewish Food Pantry at Jewish Family & Children's Services

- Over 2 Tons of Vegetables Donated to HKJFP
- 3,905 Pounds Garden to Table Donation to Compost
 - 16,500 People Fed at the HKJFP

Affiliated with Seed St. Louis the garden has been recognized as a St. Louis County Pollinator Pantry and a Monarch Waystation. A variety of vegetables and fruits are grown, several because of their religious or cultural significance. There is a weekly garden e-newsletter during the growing season.



Missouri Botanical Garden & Other Volunteer Sites

- Academy Sherman Park Community Garden
- Alliance Francaise
- Bellefontaine Cemetery
- Brightside St. Louis
- Bring Conservation Home
- The Butterfly House
- Compton Hill Water Tower Park
- Community Gardens
- Flora Conservancy of Forest Park
- Forest Park Forever
- Forest ReLeaf
- Friends of the Market Community Garden
- Historic Mudd's Grove
- Historic Oakland House
- JCCA Garden of Eden
- Lafayette Park
- Litzsinger Road Ecology Center
- Longview Farm
- Mary Meachum Freedom Crossing
- Midtown City Greens Community Garden
- North County Agriculture Education Center
- Olivette in Bloom
- Rogers Middle School
- Seed St. Louis
- Shaw Nature Reserve
- St. Louis City Parks
- St. Louis County Parks
- The Green Center
- The Green House Venture
- The Northside Workshop
- The St. Louis Arch
- The St. Louis Zoo
- Tillies Corner
- YMCA Community Gardens
- UCity in Bloom

Northside Workshop

The Northside Workshop is an art nonprofit located in Old North St. Louis offering programs that focus on the importance of bees and pollinators to our communities. Our art studio, chemical-free teaching garden, and bee sanctuary aim to inspire self expression, environmental stewardship and community building. Our workshops and curriculums are rooted in experiential learning, collaboration, and radical empathy with the urban ecosystem.

Visit the Northside Workshop's Native Bee Sanctuary and chemical free-teaching garden. The Northside Workshop was created by artist Juan William Chavez and Master Gardener Kiersten Torrez.



Rogers Middle School Garden

School Garden for 563 Students coordinated by MG Kathy Beezley

- 175 seventh grade used the garden for science projects
- 25 garden club kids meet weekly to work in the garden, weed, plant, etc.
- **Special Projects:** Dehydrated garlic, peppers and herbs and then made for sale crushed red pepper, garlic salt, Italian seasoning. Grew and sold luffa gourds, lavender sachets, and eucalyptus bundles as well as soaps using dehydrated herbs and flowers from the garden.
- 562 Rogers students and 782 high school students were treated to a taste testing of butternut squash and sweet potatoes that were grown in the garden.
- 17 kids from Boys Hope Girls Hope visited the garden and are now planning their own garden.
- **Harvest :** 100 pounds of sweet potatoes, 90 pounds of butternut squash, 50 pounds of pumpkins. Peppers, black beans, fava beans, lettuce, spinach, tomatoes, garlic, green beans, lima bean, asparagus, cucumbers, okra of course, leeks, multiple herbs and flowers. Also, black raspberries, raspberries, passion fruit, and tons of strawberries.
- **Planted** fruit trees- apple, pear, cherry and apricot, as well as paw paws and hearty kiwi. I can't believe we finally have an orchard! I think we have 10 trees.

Kathy is currently working with the high school cafeteria staff to incorporate some of the garden's vegetables into their lunch program.



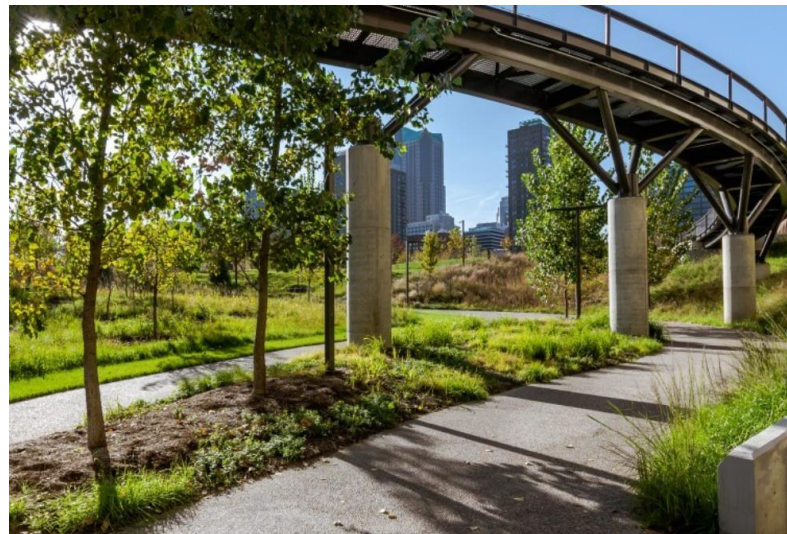
St. Louis Gateway Arch National Park

The Gateway Arch National Park, formerly named Jefferson National Expansion Memorial, is a downtown St. Louis oasis. Amid the beautifully forested surroundings found within one of the few urban national parks west of the Mississippi River, visitors can discover diverse plant life that includes a number of native species.

Master Gardener volunteers staff a *What's In Bloom* cart containing cut specimens of the flowers blooming in on the Arch grounds. They answer questions about the flowers, where they can be found in the landscape, what pollinators they support, and best practices for cultivating the plants at home.

Master Gardener Maureen Hooch enjoys spending time at one of the most incredible structures in the world. She loves talking with visitors from around the world, about the Missouri native plants that are currently in bloom on the Arch grounds.

This has been a great opportunity for St. Louis Master Gardeners to showcase the Master Gardener Program.



St. Louis Zoo

The Zoo has exceptionally breathtaking grounds. Staff and volunteers install annual displays, support the animal's browse program. "Browse is really important for the animals because it's an important fiber source for animals that eat tree leaves and don't necessarily eat grass," explained Deb Schmidt, Animal Nutritionist for the St. Louis Zoo. "It's a different shape of fiber, different form and they benefit from it more than they would eating hay."

MGs experience something new every time they volunteer. "Where else can you be greeted by the Painted Dogs or Amur Leopards or have the opportunity to watch the elephants swim? Did you know that some of the big cats get to snack on herbs for enrichment?" Mg Carol Gardner.

Mg Deb Kettler helps with the plants in several of the animal enclosures. In most cases, the animals are removed from the enclosures, but Kelly the tortoise was allowed to stay and keep Deb company.

St. Louis Master Gardeners work one-on-one with a horticulturist in many different areas. The shifts begin early morning and the work is very similar to other Master Gardener volunteer sites where you plant, water, weed, mulch, rake, trim and dig.



St. Louis County Parks

Master Gardeners supervise planting and maintenance in Creve Coeur Park, Faust Park, Queeny Park, Bee Tree, Laumeier, and Tilles Park. They go where they are needed in any weather almost twelve months a year.

St. Louis County Parks' horticulturists work alongside the Master Gardeners sharing their horticulture knowledge while working to create a beautiful space for St. Louis County residents.



The Green House Venture

The *Green House Venture's* mission: To educate, excite, and equip an inclusive population of elementary students to pursue a sustainable world through a hands-on program in bio-science and urban agriculture.

The Saint Louis Zoo and its partner, Itshanapa Mabele of Cahoma Orchards, plant a terrace filled with crops favored by Native Americans. Harris-Stowe State University, a Historically Black institution, are devoting a terrace to foods traditional among African Americans. Master Gardener Jane Yu planted and maintained a Chinese garden.

The St. Louis Master Gardeners have formed a partnership with The Green House Venture. The Master Gardeners are participating in curriculum development, garden planning, planting & maintaining, and working with the students in the garden.



YMCA Wild West Community Garden

The YMCA Wild West Community Garden is a beautifully diverse garden with over 70 community garden plots.

Adaptive Gardening Program with the Pujols Family Foundation (Down Syndrome) and other disabilities participate in a sensory/therapy garden where over 45 participations.

Active Older Adult Garden Programs is a monthly garden program from June through September with 5 to 10 participants per class.

Cooking and Baking YMCA Day Camp in the therapy/sensory garden. 26 children used vegetables and fruits that they harvested from the garden in farm-to-table recipes and used fruits and vegetables gathered in their recipes.

Donated over 3000 pounds of produce to Circle of Concern and Eureka Food Pantry.

Fall Festival with 50 vendors, a kid's zone, face painting, hands-on crafts, speakers, and a cooking demonstration. 300 to 400 people attended this event.

Garden Workshops for All - Bee Talk and Food is Medicine workshops.

Kids Garden Event - Two sessions for children ages 2 to 5 year olds. Over 50 children attended this event.

Youth Garden Program offered children ranging from 3 to 12 years old the opportunity to learn about gardening, pollinators, insects, plant needs, nurturing, nutrition, harvesting, and best of all tasting all of the yummy veggies and fruits.



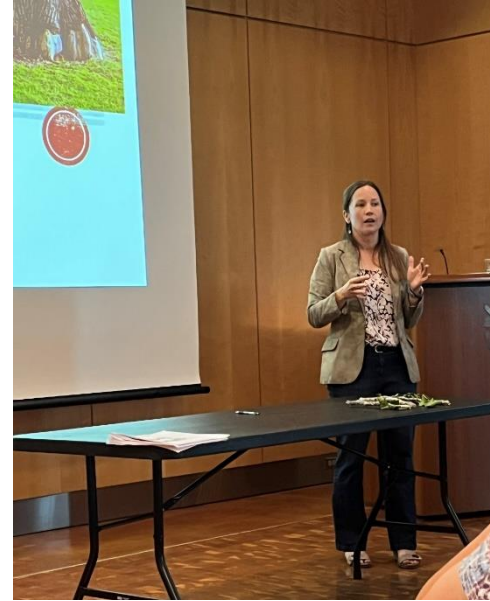
Master Gardener Programs & Initiatives

The St. Louis Master Gardeners build relationships by offering programs and services to community audiences in the St. Louis Metropolitan area. Each year they strive to add diversity to their programming and outreach initiatives.

Classes for Master Gardeners & the Public

Classes for Master Gardeners and the community were held at the Missouri Botanical and the MU Extension office. Topics included roses, bonsai, native plants, herbs, plant diseases/pest, tree id, to name a few. Monthly Garden Hotline classes are held to keep hotline volunteers and mgs updated on the latest horticulture news.

MG Carolyn Knarr created a series of classes titled Botany for Children. She taught these classes at the St. Louis City Library Buder Branch. Students aged 7 to 9-years of age participated in activities designed to help them understand how plants work.



Master Gardener Garden Hotline

Staffed by over 30 trained St. Louis Master Gardeners, the answer service began with limited hours and quickly grew to a Monday through Friday 9:00 a.m. to 3:00 p.m. service. Walk-ins are encouraged and emails and phone calls are answered year round within 24 hours.

Volunteers attend a monthly update class featuring a guest speaker presenting on a variety of topics such as Hot Topics In Tree Health and Managing Wildlife in the Home Landscape. When volunteers are not answering gardening questions, they complete assignments and take quizzes to test their knowledge.

Advanced Master Gardener Ronda Anson coordinates the answer service. Ronda have been a Master Gardener for over 24 years. She is the author of many of the Pest Problems pages on the Missouri Botanical Garden's website.

Call 314-400-7657 or email STLgardenhotline@gmail.com

Q - My cedar tree has holes in it and the bark is popping off. Could borers cause this? And how can I cure it?



A - Yes, the holes in this juniper (above left) appear to be the exit holes of borers. Note: the random pattern of the holes. This same random pattern is evident in the honey locust (above right).

Since our native borers usually prefer to attack weakened trees, good cultural practices that promote tree vigor and reduce the incidence of disease can help minimize infestations and the resulting damage. Such practices include preventing injury to young trees, watering during dry periods, and appropriate pruning techniques (avoid topping your trees). These two trees may be too far gone, but if the tree is a valuable tree, consult a [certified arborist](#) for insect identification, evaluation and treatment.

Note: borers can be the larval stage of either beetles, moths, or sawflies. Each may require different control measures, so it is important to identify the borer before deciding how to treat it.

Example of a response given to a question emailed to the MG Garden Hotline.

Master Gardener Speakers Bureau

The St. Louis Master Gardener Speakers Bureau provides quality horticultural information as a public service. All speakers are Master Gardener volunteers who have completed the Master Gardener training. Each year St. Louis Master Gardeners make presentations to garden clubs, schools, businesses, churches, neighborhood and civic organizations. Talks are continually being updated.



**LANDSCAPING
WITH NATIVE
TREES AND
SHRUBS**



ALIEN INVASIONS



FOR THE BIRDS



**BRING THE
NATIVES HOME**



**GARDENING
DANGERS FOR
PETS**



**BEST GARDENING
PRACTICES FOR A
SUSTAINABLE
GARDEN**



**ALL ABOUT
ORCHIDS**



**ABC'S OF
HONEYBEES**



**DESIGNING WITH
NATURE IN MIND**



**CRITICAL FOR
GARDENING - GET
THE DIRT ON SOIL**



**ORGANIC
GARDENING**



**MISSOURI'S WILD
MUSHROOMS IS IT
EDIBLE?**



**GLADES OF
MISSOURI**

Weekly Email Update

St. Louis Master Gardeners continue to receive a weekly email providing them with volunteer and continuing education opportunities for the coming week and beyond. The update is a way to have weekly contact with Master Gardeners.



March 6 through March 12, 2023

Monday, March 6

1. [Silke Strickrodt | What can history tell us about living collections?](#) -- noon to 1:00 p.m. offered by Kew Mutual Improvement Society. **What can history tell us about living collections? The rise and demise of N.E. Brown's Sansevieria's at Kew.** Silke Strickrodt is a Botanical Horticulturist at the RBG, Kew as well as a historian specializing in the history of West Africa and Afro-European interactions. Her publications include *Afro-European Trade in the Atlantic World: The Western Slave Coast, c1550-1885* (2015) and *Commercial Agriculture, the Slave Trade and Slavery in Atlantic Africa* (2013, ed. with Robin Law and Suzanne Schwartz). What is the nature of living botanical collections? Are they permanent reference collections or ephemeral research collections? Silke will explore these questions using the case study of the *Sansevieria* collection developed at Kew Gardens in the early twentieth.

Programs Planned for 2024

- Gardening newsletter for children
- Gardening program for the St. Louis County Youth Detention Center
- Help Your Neighbor Program
- Monthly gardening classes for Master Gardeners & the community at the new Extension office in Overland
- Restart monthly coffees for Master Gardeners and the community at the new Extension office location
- Youth & Adult Gardening Classes



Thank you!



St. Louis
Master
Gardener

St. Louis Master Gardeners share their knowledge about safe, effective and sustainable horticultural practices that build healthy gardens, landscapes and communities.