

PARKS, RECREATION & FORESTRY

1900 AVIATION DRIVE
WAUKESHA, WISCONSIN 53188-2471
TELEPHONE 262/524-3737 FAX 262/524-3713

Ron Grall, Director
rgrall@waukesha-wi.gov

Street Tree Planting Program Spring 2024

Our spring street tree planting program will be slightly smaller than last spring and will consist of approximately 346 trees. In the desire to increase diversity and slowly reduce the over population of maple trees the city maintains, only 24 are scheduled to be maple trees, while 93% of the plantings will be other species. We continue tree removals due to the Emerald Ash Borer, storms and general tree decline because of age and condition. We are continuing to remove ash trees that had been treated, but which are showing signs of decline from the effects of the borer. We are replacing trees that have been removed, except for sites that are lacking the room for a new tree or where utilities preclude planting.

Our spring planting program will include 67 new development plantings. This is a nominal increase from last year. These plantings will primarily take place in the Howell Oaks and Woodland Hills subdivisions both in aldermanic district 14.

Unfortunately, our contract growing agreements have shown some drawbacks this year. Vendors have had issues with crop failures and trees getting to the required size to deliver expected causing overages or shortages.

Procuring trees from a new nursery has increased our ability to locate the species and volume needed. We continue to look for new vendors to increase our options even further. Species diversity will continue to be a priority to prevent large scale natural disasters, such as EAB.

Thank you for your continued support!

Aaron Lehnert
Forestry Supervisor
Department of Parks, Recreation and Forestry

City of Waukesha

Spring 2024 Tree Planting Summary

TYPE	WITH CHARGE	WITHOUT CHARGE	TOTAL
Fill In	58	2	60
Full - Streets	7	0	7
Replacements	0	274	274
Requests	0	0	0
Storm	0	5	5
Memorial/Retirement	0	0	0
Parks	0	0	0
TOTALS (Approx.)	65	281	346

1.75" Caliper (B&B)

26 Cultivars

Cost Assessment \$350 per tree (pending approval)

Tree Planting Assessment Charge History 2024

Year	Charge	\$ Difference	% Difference
2014	195.00	----	----
2015	195.00	----	----
2016	205.00	+ \$10	5.1%
2017	205.00	----	----
2018	220.00	+ \$15	7.3%
Break-even	234.00	Cost to plant	One tree
2019	235.00	+ \$15	6.8%
2020	235.00	----	----
2021	235.00	----	
2022	250.00	\$15 Increase	6.4%
2023	300.00	\$50 Increase	20.0%
2024	350.00	\$50 Increase	16.8%

Tree Planting Breakdown

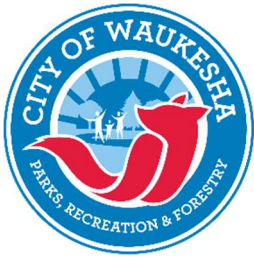
(On average **500 to 600 trees per year** – Spring + Fall)
20 trees / day

Average tree cost = \$242.29 / tree
(Using 2024 spring tree bids)

Direct Labor cost is \$34.20/hour
(Using 2024 Arborist labor rates)

Locate site, diggers and mark	.25 hr	
Load tree and travel to site	.25 hr	
Dig the site and prep hole	.50 hr	
Plant the tree	1.00 hr	
Backfill hole	.50 hr	
Mulch and water in	.50 hr	
Additional Waterings	1.50 hr	
Total	4.5 @ \$34.20/hr. =	\$153.90

Ave. tree cost @ \$242.29 + Direct Labor cost @ \$153.90 = \$396.19



PARKS, RECREATION & FORESTRY

1900 AVIATION DRIVE
WAUKESHA, WISCONSIN 53188-2471
TELEPHONE 262/524-3737 FAX 262/524-3713

Ron Grall, Director

rgrall@waukesha-wi.gov

PROCLAMATION

WHEREAS, Arbor Day has been observed both nationally and internationally for many years, and

WHEREAS, The Waukesha Parks, Recreation and Forestry Department has participated in this observance for forty years, and

WHEREAS, The City of Waukesha has been designated Tree City USA by the National Arbor Day Foundation for the 45th year, and

WHEREAS, The City of Waukesha has named the recipient of the Arbor Day Gold Leaf Award by the International Society of Arboriculture five times, and

WHEREAS, Arbor Day serves to create not only an appreciation for trees, but also, an awareness for the proper care and maintenance of trees in an urban environment, and

WHEREAS, The City of Waukesha recognizes that the efforts put forth by professional parks, recreation and forestry personnel have enhanced the urban forest available to City residents.

NOW THEREFORE,

In keeping within the Proclamation, the City of Waukesha proclaims
April 1 – April 30th, 2024 Arbor Month, concluding on Arbor Day April 26th,
2024.

Signed this _____ day of _____ 2024.

Shawn N. Reilly Mayor

2024 Forestry Division Update 2023 Year in Review

Tree sites: 30,408
Filled: 27,188 (89.4%)
Vacant: 3,220 (10.6%)

Tree Maintenance:

	Total	Train Pruning	Street Pruning	Park Pruning	Other
2023	3,766	1862	1538	72	366
2022	4,326	2283	1907	128	
2021	4,056	1697	2077	278	

Tree Removals:

	Total		
2023	465	Ash 130 (28%)	All Others 335 (72%)
2022	663	Ash 255 (38.5%)	All Others 408 (61.5%)
2021	867	Ash 300 (34.6%)	All Others 567 (65.4%)

Service Requests:

2023	Total
Storm:	318
Pruning:	211
Removal:	92
Stumps/Roots:	43
Planting:	43
Insects/Disease:	27
Other:	156
Total	890
2022	982

Tree Planting:

	New Plantings	Replacements	Total
2023	47	481	528
2022	73	492	565

Ash Update:

Total Ash left in population 3,002 (10% of total population)

Emerald Ash Borer Treatments

2023: 641

2022: 681

***Current Status of Removal Program 3,038 Ash Trees Removed To - Date**

Ash trees will continue to be a significant portion of our removals. Because the treatment intervals were beyond the manufacturer's recommendation, we have found that even though a tree had been in treatment, they are showing signs of EAB damage. The focus now is to invest the time and resources to continue to protect the highest quality trees and continue removing the lowest quality trees. Approximately 2,000 will continue to be treated into the future. The remaining 1,000 ash will be removed as they decline naturally.

Staffing Update:

New Forestry Supervisor (promoted)

New Assistant Supervisor (promoted)

4 (of 7) New full-time Arborists hired

1 new part-time arborist hired

1 full-time arborist position currently open

Increased need for snow plowing to supplement street department

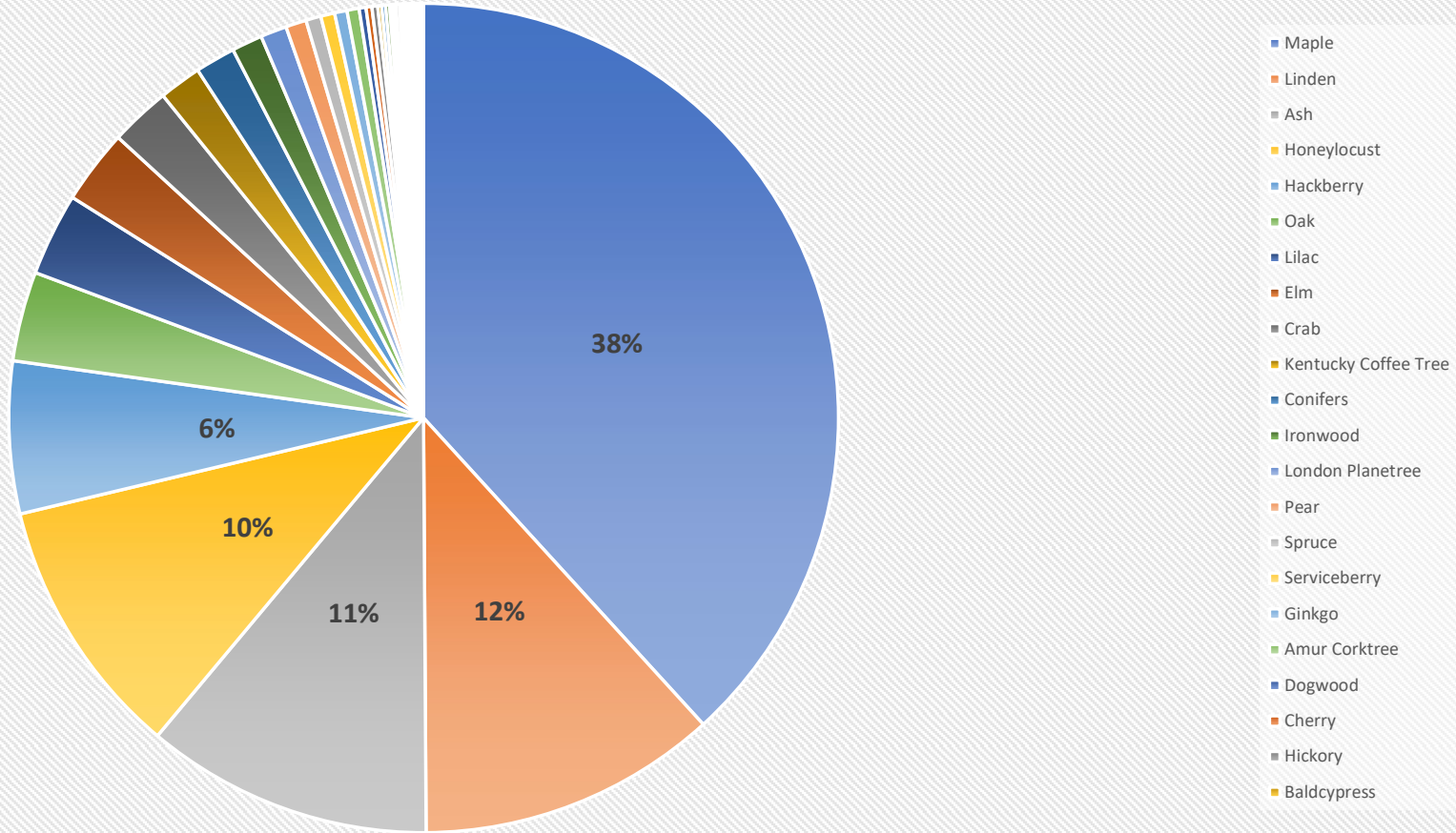
EAB Treatment History

YEAR	# of Trees Treated	Method Used	Comments
2010	273	Tree-Age G4	
2011	459	Tree-Age G4	
2012	589	Tree-Age G4	
2013	796	Tree-Age G4	
2014	734	Tree-Age G4	234 of Total 2nd Treatment
2015	980	Tree-Age G4	459 of Total 2nd Treatment
2016	948	Tree-Age G4	589 of Total 2nd Treatment
2017	961	Tree-Age G4	E. Roberta Av Now 3 Yr
2018	812	Tree-Age G4	Stardust Dr Now 3 Yr
2019	706	Tree-Age G4 & R10	
2020	1052	Tree-Age R10	
2021	705	Tree-Age R10	Trees to continue treating
2022	681	Tree-Age R10	Trees to continue treating
2023	641	Tree-Age R10	Trees to continue treating

Forestry Maintenance History

Year	Service Requests	Trees Planted	Trees Removed	Trees Pruned	Comments
1998		1083			
1999		517			
2000		825			
2001		750			
2002		743		6,599	
2003		602	167	4,033	
2004	456	666 600=Street *36 = Park	185	3819 1,543 = REG. 2,276 = Train	*Last year of Park Tree Replacements
2005	483	568	303	3783 1,613 = Reg. 2,170= Train	
2006	478	488	380	5365 2,891= Reg. 2,474= Train	
2007	488	537	306	4,134	Added Chipper W/ Winch
2008	511	380	247	4,270	\$71.85/tree
					Operations Manager Position Created
2009	501	349	325	4,372	\$100.87/tree
	Loss	of	Arborist	Position	
2010	591	337	328	3,911	\$92.96/tree
2011	581	407	317	4,786	\$85.85/tree
	5 yr. avg 534		5 yr. avg 305		
2012	408	268	324	3,621	
2013	421	348	416	3,050	
2014	635	409	549	3,306	
2015	566	447	574	2,870	Added 2nd Chipper W/ Winch
2016	644	544	758	2,839	
2017	695	617	684	3,154	Added Backhoe W/ Grapple
2018	725	473	957	3,387	
2019	882	593	723	3,382	
2020	891	614	934	3,458	
2021	1214	647	669	4,056	
2022	982	565	663	4,326	
	5 Year Avg. 939	5 Year Avg. 578	5 Year Avg. 789	5 Year Avg. 3,722	
2023	890	528	465	3,400	5 (of 7) new arborists hired, open position(s) all year

Waukesha's Tree Population by Genus



City of Waukesha's Urban Forest Breakdown by Genus and total managed population of 27,188 trees

Maple	10,618	38.23%
Linden	3243	11.68%
Ash	3109	11.19%
Honeylocust	2828	10.18%
Hackberry	1648	5.93%
Oak	971	3.50%
Lilac	893	3.22%
Elm	804	2.89%
Crab	657	2.37%
Kentucky Coffee Tree	460	1.66%
Conifers	433	1.56%
Ironwood	333	1.20%
London Planetree	284	1.02%
Pear	225	0.81%
Spruce	162	0.58%
Serviceberry	150	0.54%
Ginkgo	134	0.48%
Amur Corktree	132	0.48%
Dogwood	76	0.27%
Cherry	63	0.23%
Hickory	63	0.23%
Baldcypress	42	0.15%
Redbud	42	0.15%
Filbert	41	0.15%
Fir	37	0.13%
Alder	35	0.13%
Walnut	35	0.13%
Buckeye	31	0.11%
Horsechestnut	30	0.11%
Tamarack	27	0.10%
Catalpa	26	0.09%
Basswood	24	0.09%
Hawthorn	20	0.07%
Juniper	17	0.06%
Apple	15	0.05%
Magnolia	11	0.04%
Sycamore	11	0.04%
Tuliptree	11	0.04%
Yellowwood	9	0.03%
Mullberry	7	0.03%
Willow	7	0.03%
Black Locust	4	0.01%
Katsura	3	0.01%
Beech	2	0.01%
Musclewood	1	0.00%
Sweetgum	1	0.00%
Zelkova	1	0.00%
		100.00%

2023 Equipment Update:

Replacement of supervisor pickup truck #20

Ordered soil trommel to replace soil shredder

Researching approved replacement for chipper

Researching approved replacement for chip truck
