

Hill-N-Dale Park

Lexington, Kentucky

84 trees

24 species



2351 Maplewood Dr, Lexington, KY 40503

- Paved sidewalks
- Bus stops for #16 within 0.75 miles of the park
- Nearby bike route

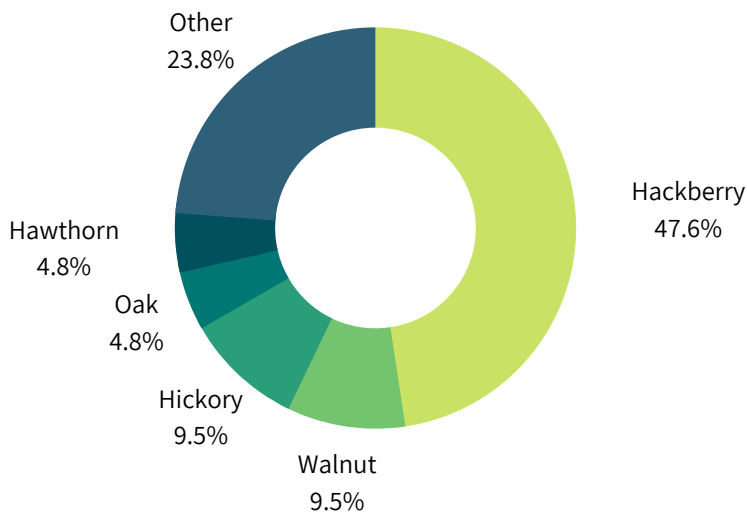
Background

In June 2022, the University of Kentucky Urban Forest Initiative (UFI) team mapped trees in Hill-N-Dale Park as part of our Climate Adaptation Project. This is a summary of our findings.

About the Trees

Hill-N-Dale Park is a small park in the Hill-N-Dale neighborhood. The park features a small stream lined with young native trees and garden plants. The tree canopy is dominated by mature hackberry trees. Although in good overall health, the park would benefit from new plantings of underrepresented species.

Hill-N-Dale Park Top 5 Tree Genera



Why Trees?

Urban forests are vital resources for **climate change mitigation** (the slowing down of climate change through carbon capture, emissions reduction, etc.) and adaptation (the ability of our cities to withstand the impacts of climate change). Hill-N-Dale Park provides **3.7 acres of trees and greenspace** for the residents of Lexington's 10th District. As such, it is an important part of Lexington's urban forest, providing numerous **ecosystem services** to the city and helping to prepare Lexington for climate change.



Annual tree benefits ... and growing!

35,233

gallons of stormwater captured

1,368

ounces of pollution removed

1,555

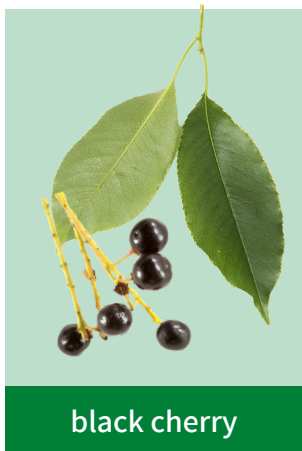
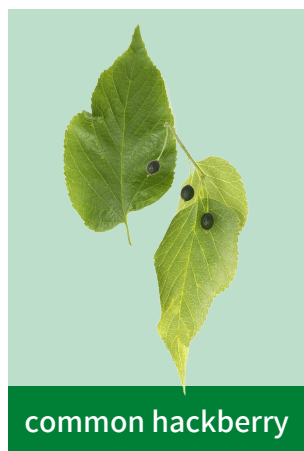
pounds of carbon sequestered

\$578

annual monetary benefits

Learn more about trees in your local park and what they do for you!

Most Common Species in Hill-N-Dale Park* *based on 84 trees inventoried in 2022.



Need help identifying trees? Try reaching out to your local extension agent! Many great resources can also be found at https://forestry.ca.uky.edu/tree_id. Photos courtesy of Janet James.



Considerations for Hill-N-Dale Park

- Hill-N-Dale Park trees are in **good health**, providing many tree benefits to the community such as shade, cooling, and carbon sequestration. The **most common health issue** was **girdling roots**.
- With common hackberry representing more than 40% of the trees in the park, Hill-N-Dale Park has **poor species diversity**, and **needs diverse species to protect the canopy** from species-specific pathogens and other threats.
- Hill-N-Dale Park has **poor size diversity**, and could benefit from **more small trees**, especially young trees of species capable of growing into larger sizes.
- As the **climate changes**, some tree species may no longer thrive here in Kentucky, including **30% of trees in Hill-N-Dale Park**. Most of the park's trees such as common hackberry, are not vulnerable to these changes, but others, such as black cherry, are more sensitive to changing climate, making the park **mildly vulnerable**.
- Note that trees in the naturalized area along the stream were not inventoried.



Managing for Climate Resilience in Hill-N-Dale Park

- Continue to practice proper tree care, including **watering, pruning, and mulching** regularly. Visit this website to learn more about good tree care practices and resources: <https://tree-health.ca.uky.edu/tree-care>
- Plant **diverse tree species that can grow to large tree sizes** to improve tree canopy **regeneration and resilience**. As older trees in the park inevitably die, younger trees will grow up to take their place.
- Plant **climate resilient tree species** in appropriate sites that can **meet the needs of that species** to build a tree canopy capable of **withstanding changing climate**. Check out the climate resilience of trees you are interested in planting using this website: <https://www.fs.usda.gov/ccrc/tool/climate-change-tree-atlas>

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