Palestine Corridor

2020 TREE INVENTORY

Funded by
MO DEPT OF CONSERVATION TREE RESOURCE IMPROVEMENT & MAINTENANCE (TRIM) GRANT

Managed by
HEARTLAND CONSERVATION ALLIANCE
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CORRIDOR
18 ACRES OF PUBLIC LAND

HISTORY
MYRTLE AVENUE NEVER DEVELOPED
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Lot Ownership by Public Agencies

Yellow Lots
Land Bank of Kansas City, MO

Orange Lots
City of Kansas City Property & Ins Div

Magenta Lots
Kansas City MO Homesteading Authority
Inventory Process

37 Plot Samples
20% of corridor inventoried

Minimum Tree Size
Only trees with a 5 inch diameter or larger were inventoried

Field Work
Molly Gosnell, GISP, Mapping & Data Management
Nick Goergen, ISA Certified Arborist
Inventory Process

Data Collection
• Used i-Tree’s Mobile Data Collection to collect tree data

Google My Maps
• Created a Google My Map to show 37 sample plot polygons
• Switch between i-Tree screen and Google My Map to keep us inside the plot polygons or navigate to next polygon

External GPS
• Bad Elf GNSS Surveyor GPS  |  1 Meter Accuracy
 • Bluetooth to Bad Elf using Bluetooth GPS app
 • Change phone settings so Bad Elf will override phone GPS
Inventory Results

Trees:
- 587 trees inventoried
- i-Tree estimates that there are 2,909 trees in the corridor

Most common species of trees:
- Northern Hackberry | 28%
- American Elm | 27%
- Black Walnut | 14%
- Red Mulberry | 6%
- Honey Locust | 4%
- Chinkapin Oak | 4%
- Tree of Heaven | 3%
- White Oak | 2%
i-Tree estimated the following ecosystem services:

- Pollution Removal: 1,085 pounds/year ($2,520/year)
- Carbon Storage: 715.7 tons ($122,000)
- Carbon Sequestration: 28.23 tons ($4,810/year)
- Oxygen Production: 22.53 tons/year
- Avoided Runoff: 47,190 cubic feet/year ($3,150/year)
i-Tree Eco calculated percentage of trees less than 6" diameter: 22%

Note only trees 5" or greater DBH were inventoried
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Cleared and Maintained

- Resident has removed invasive honeysuckle and vines on Land Bank property
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Cleared and Maintained

- Resident has purchased adjoining lots and cleared area for outdoor use
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- Steam
- Invasive Honeysuckle
- Invasive Euonymus
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Lots of Trash

- Most trash is along edges where it is easy to dump from a vehicle
- Trash throughout where flooding has carried it away from edges
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Dumping from Property
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INVENTORY DATA
SNAPSHOT IN TIME LOOK AT THE ECOSYSTEM SERVICES

OPPORTUNITIES
TAKE ADVANTAGE OF THIS UNIQUE RESOURCE