Trails Dashboard

Pavement Condition Index

July 17, 2024

ARLINGTON
VIRGINIA

Overview

- Background

- Pavement Condition Index

- Methodology

- Lessons Learned

Overall Trail Network

- 48+ miles paved off-street trails
- 35+ miles maintained by Arlington

Public Space System

- public spaces
- primary multi-use trails
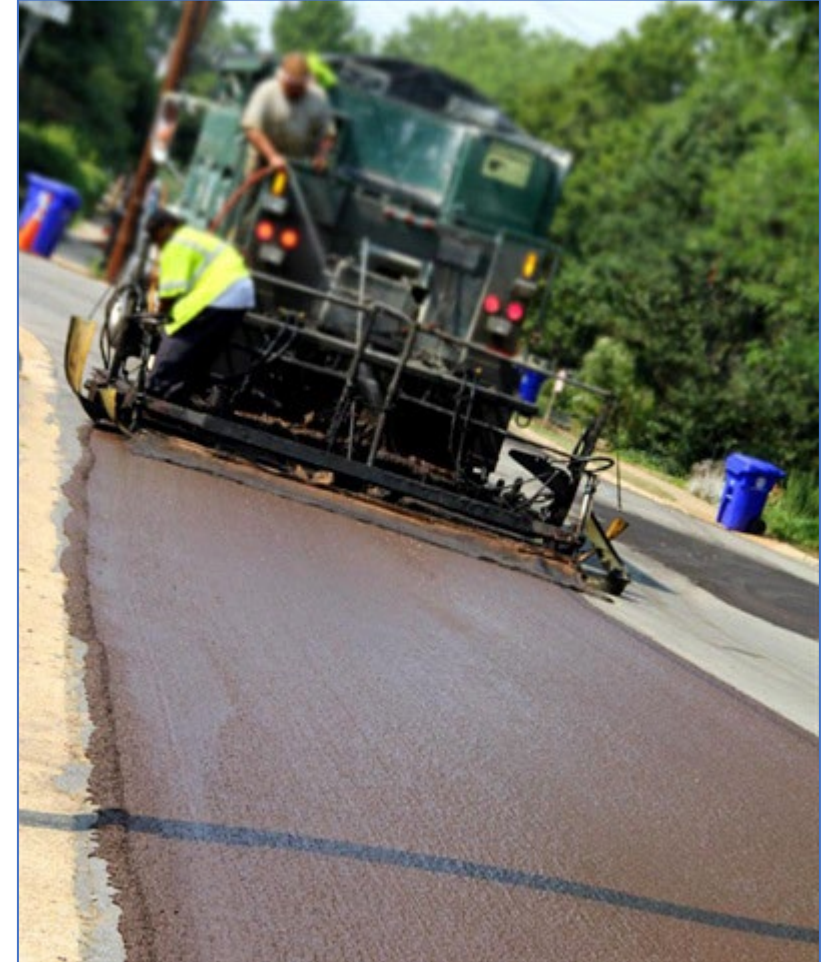- planning corridors

Background

- Public Spaces Master Plan (2019)

  - Hiking and paved trails among top 3 requested assets during engagement

- Heavy weekly use (last 7 days):

  - W&OD (Columbia Pk) – 10,308
  - Custis Trail (Rosslyn) – 9,536
  - Crystal City Connector – 5,304

Pavement Condition Index (PCI)

- Based on pavement ride quality, cracking, potholes, streaking, wash-boarding, flushing, and crowning

- PCI scores calculated following methods in American Society for Testing and Materials D6433

  - Based on the "distress" observed on the surface of pavement
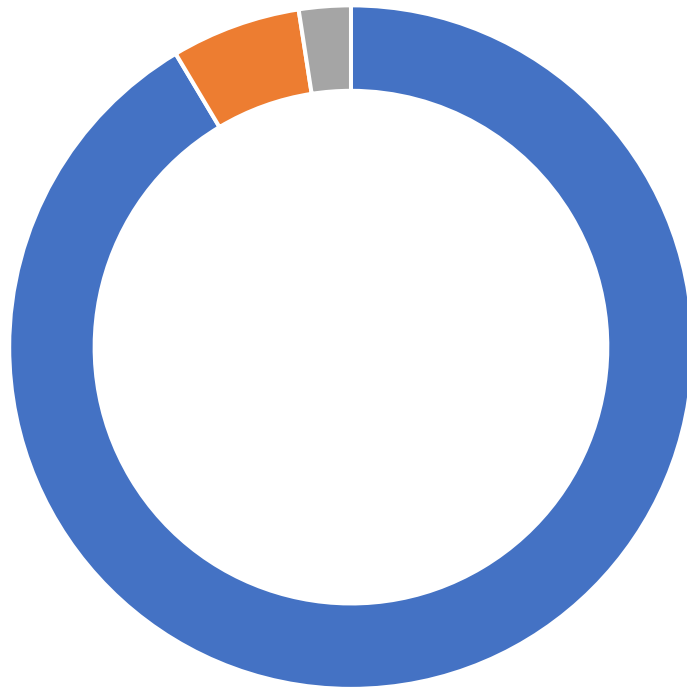
Source: Wisconsin DOT

Methodology

- Digital modeling of 24 miles of trail surfaces (2018)
  - Lasers to detect imperfections
- Visual tracking on-foot, then by vehicle (2022)
- No pavement testing, exploratory probing, dismantling, or subsurface studies were performed

2022 Trail Surface Results

- 24.4 mi. studied
  - 22.4 mi. asphalt (Avg score 77)
  - 1.5 mi. concrete (Avg score 87)
  - 0.6 mi. pavers (Avg score 98)

Asphalt **Concrete** **Pavers**

1-EXCELLENT 5.6 Miles
PCI RANGE 90-100

2-GOOD 11.5 Miles
PCI RANGE 70-89

3-FAIR 6.5 Miles
PCI RANGE 50-69

4-POOR 0.8 Miles
PCI RANGE 30-49
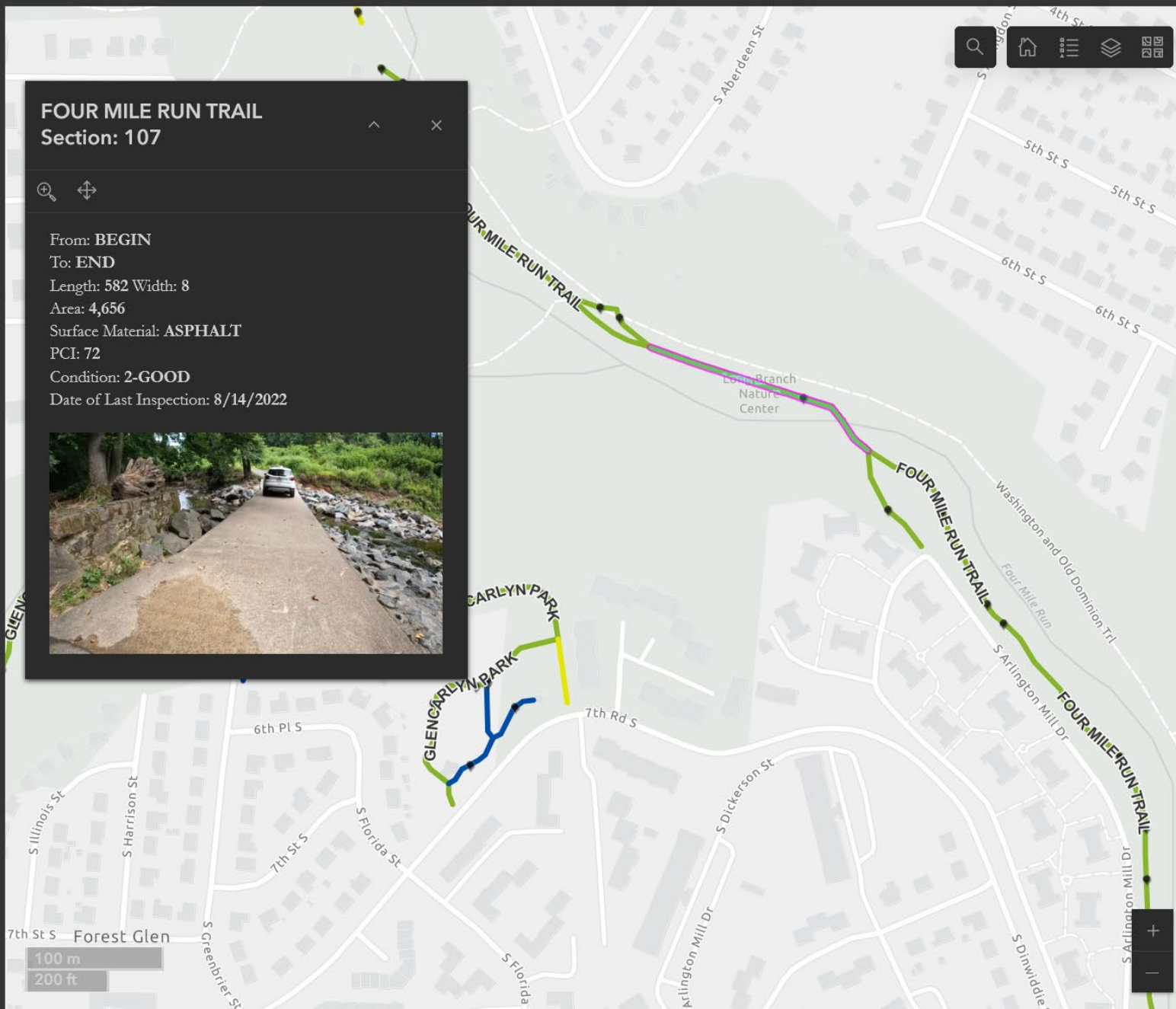
1-EXCELLENT
2-GOOD
3-FAIR
4-POOR

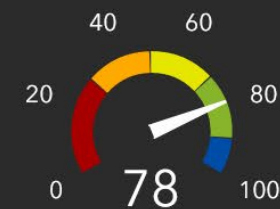GIS Mapping Center, Arlington County, Va

All Segments

- FOUR MILE RUN TRAIL #100 from BEGIN to END
- FOUR MILE RUN TRAIL #101 from BEGIN to END
- FOUR MILE RUN TRAIL #103 from BEGIN to END
- FOUR MILE RUN TRAIL #104 from BEGIN to END
- FOUR MILE RUN TRAIL #105 from BEGIN to END
- FOUR MILE RUN TRAIL #107 from BEGIN to END
- FOUR MILE RUN TRAIL #108 from BEGIN to END
- FOUR MILE RUN TRAIL #109 from BEGIN to END
- FOUR MILE RUN TRAIL #111 from BEGIN to END
- FOUR MILE RUN TRAIL #295 from BEGIN to END
- FOUR MILE RUN TRAIL #9 from BEGIN to END
- GLENCARLYN PARK #195 from BEGIN to END
- GLENCARLYN PARK #196 from BEGIN to END
- GLENCARLYN PARK #197 from BEGIN to END
- GLENCARLYN PARK #198 from BEGIN to END
- GLENCARLYN PARK #199 from BEGIN to END

Link to Current Conditions (Excel)
Link to Current Conditions (PDF Map)
Link to Current Conditions (Google)
Link to FieldApp

FOUR MILE RUN TRAIL
Section: 107

From: **BEGIN**
To: **END**
Length: **582** Width: **8**
Area: **4,656**
Surface Material: **ASPHALT**
PCI: **72**
Condition: **2-GOOD**
Date of Last Inspection: **8/14/2022**

Average PCI

40   60

20   80

0   100

78

Condition

EXCELLENT
PCI RANGE
90- 100   5.6 Miles

GOOD
PCI RANGE
70-89   11.5 Miles

FAIR
PCI RANGE
50-69   6.5 Miles

POOR

| Average PCI | Total Miles |

| Condition | Surface Type |

PCI Chart

Length (Miles)

34   68   89

PCI

ARLINGTON COUNTY CUSTIS TRAIL
NEEDS ASSESSMENT &
PRIORITY IMPROVEMENTS STUDY

Prepared for Arlington County

JUNE 2024

2022
ARLINGTON COUNTY
BICYCLE COMFORT
LEVEL MAP

How to Use This Map

This map is your guide to the least stressful or most comfortable routes to get around Arlington. Instead of just showing bike trails, bike lanes, and sharrows, this map uses a rating system of "perception of comfort" to rate roads as easy, medium, or challenging.

- Easy
- Medium
- Challenging
- Use Caution
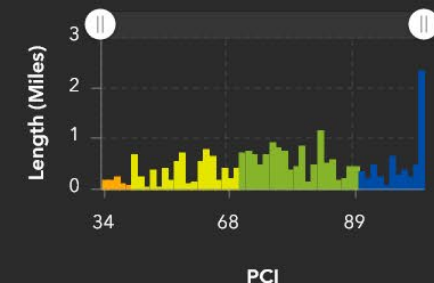- Prohibited

Lessons Learned

- PCI studies have helped the County prioritize resources

  - Next review in 2026

- Average PCI score of 78 for entire network ("Good" range) as of 2022

  - Roadway PCI is 83.3 (November 2023)

- Longevity approx. 25-30 years

- Tree root heaving biggest factor in trail surface degradation

Public-Facing Webpages

- Trail Pavement Condition mapping:
  - https://www.arlingtonva.us/Government/Departments/Parks-Recreation/Locations/Off-street-trails/Trail-Pavement-Condition
- Public Spaces Master Plan:
  - https://www.arlingtonva.us/Government/Projects/Plans-Studies/Comprehensive-Plan/Public-Spaces-Master-Plan

Questions?

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