

Trails Dashboard

Pavement Condition Index

March 19, 2024



Overview

- Background
- Pavement Condition Index
- Methodology
- Lessons Learned



Overall Trail Network

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



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 (EFC) – 5,773
 - Crystal City Connector – 5,182
 - Custis Trail – 3,963



Pavement Condition Index (PCI)

- Based on pavement ride quality, cracking, potholes, streaking, washboarding, 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



REPRESENTATIVE PAVEMENT SURFACE*



PCI: 100



PCI: 60



PCI: 40



PCI: 5

Source: Wisconsin DOT

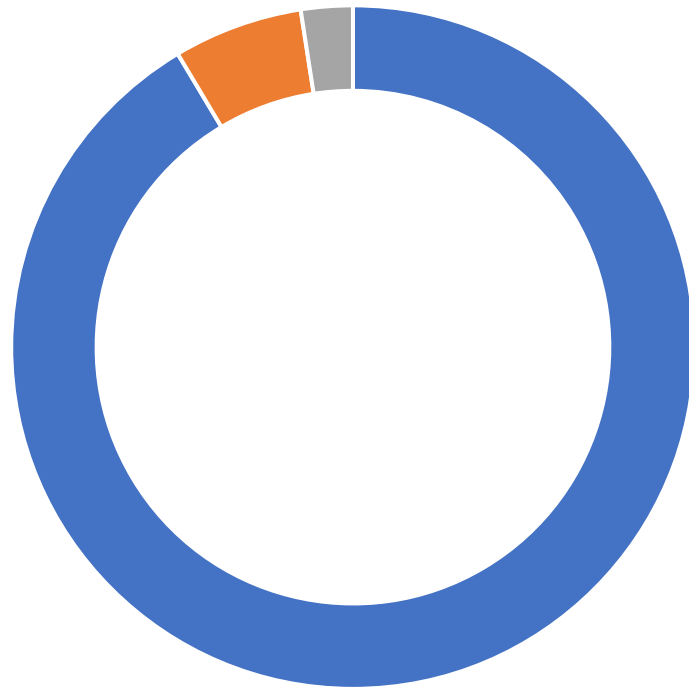
Methodology

- Digital modeling 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



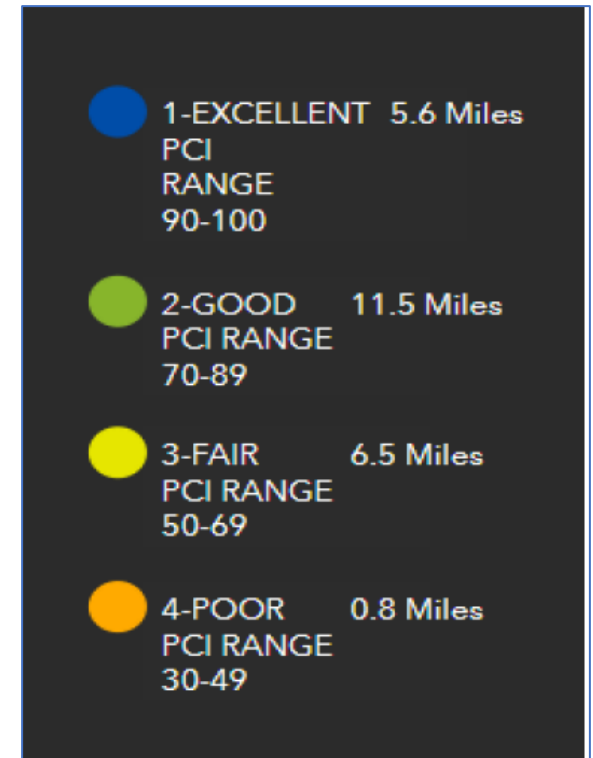


2022 Trail Surface Results



■ Asphalt ■ Concrete ■ Pavers

- 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)





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

Questions?

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