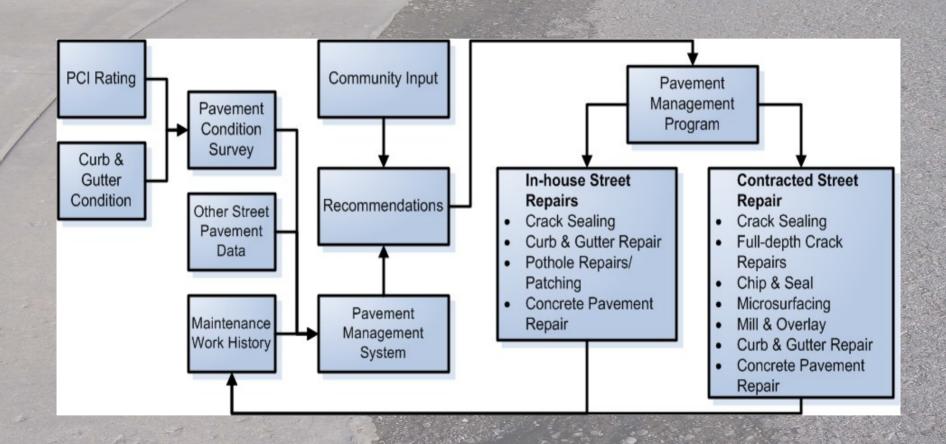
Pavement Management Program & 2006 Contracted Street Repair Project

Steven M. Lashley, P.E. Public Works Engineering

Pavement Management Program



Examples of Typical Contracted Street Repair Activities

- Crack Sealing
- Full-Depth Crack Repair
- Chip and Seal
- Microsurfacing
- Milling and Overlay
- Curb and Gutter Repair
- Concrete Pavement Repair

Contracted Maintenance Criteria – Decision Factors

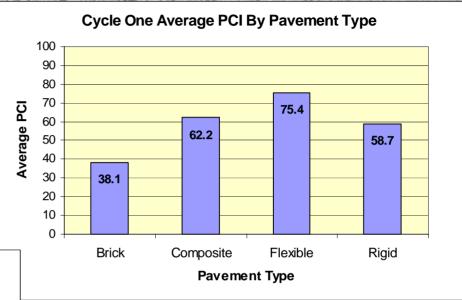
- Physical Roadway Condition Utilizing the Pavement Condition Index (PCI)
- Street Classifications –Arterial, Collector, and Residential Streets
- On-going Maintenance Problems Maintenance Work History
- Community Input
- Area Impact and Cost-Benefit

Condition - City of Lawrence Streets

Overall *PCI = 69.0

*Note that condition of Curb and Gutter does not impact the PCI value of the survey



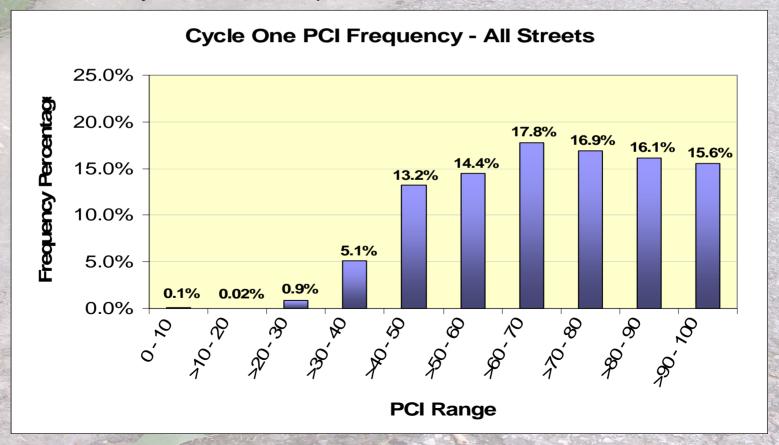


Cycle One Survey includes 299 Miles of Streets (1922 Segments) Rated:

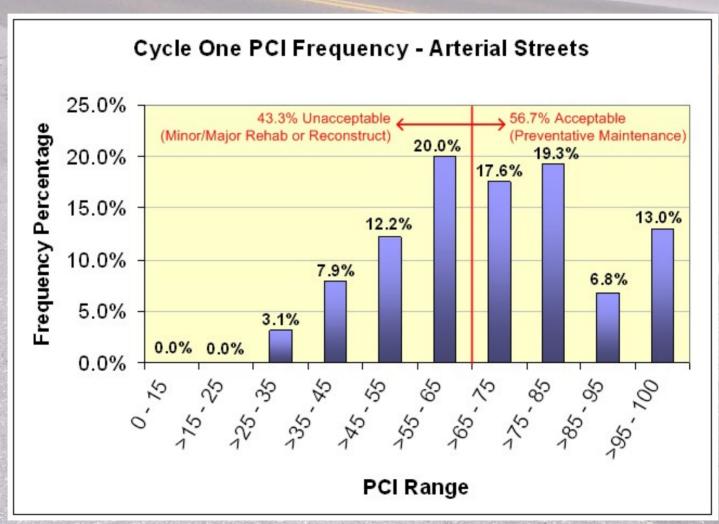
- •2.9 miles Brick, 116.2 miles Composite, 163.4 miles Flexible, & 16.7 miles Concrete
 - OR 49.8 miles Arterial, 43.8 miles Collector, & 205.6 miles Residential

PCI Frequency Distribution – Cycle One

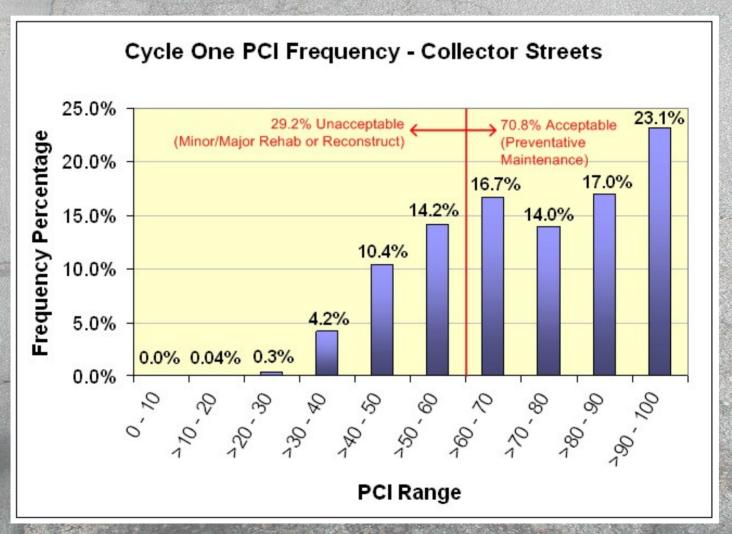
- 31.5% of City streets have been identified as "unacceptable" and represent the "backlog" that need rehabilitation or reconstruction efforts
- 68.5% of City streets need preventative maintenance



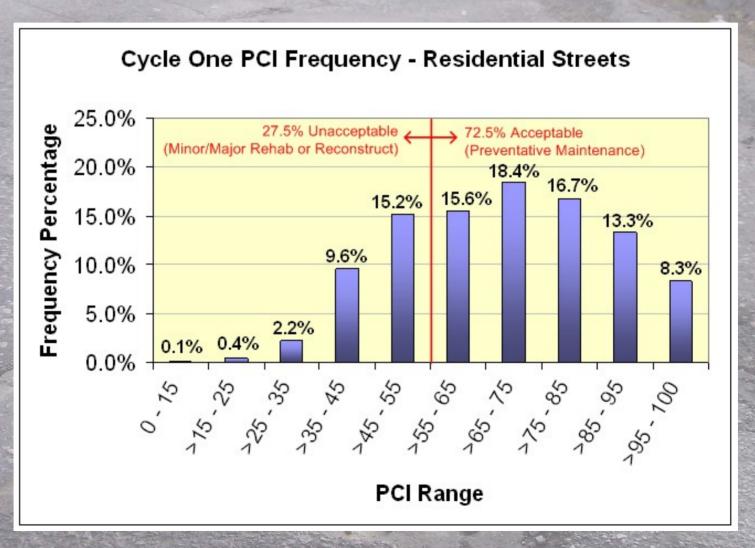
PCI Frequency Distribution – Cycle One Arterials



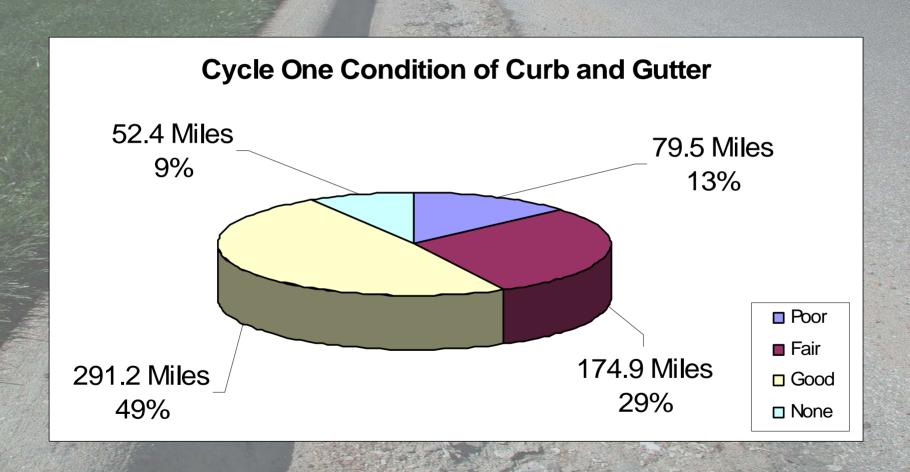
PCI Frequency Distribution – Cycle One Collectors



PCI Frequency Distribution – Cycle One Residentials



Curb and Gutter Condition



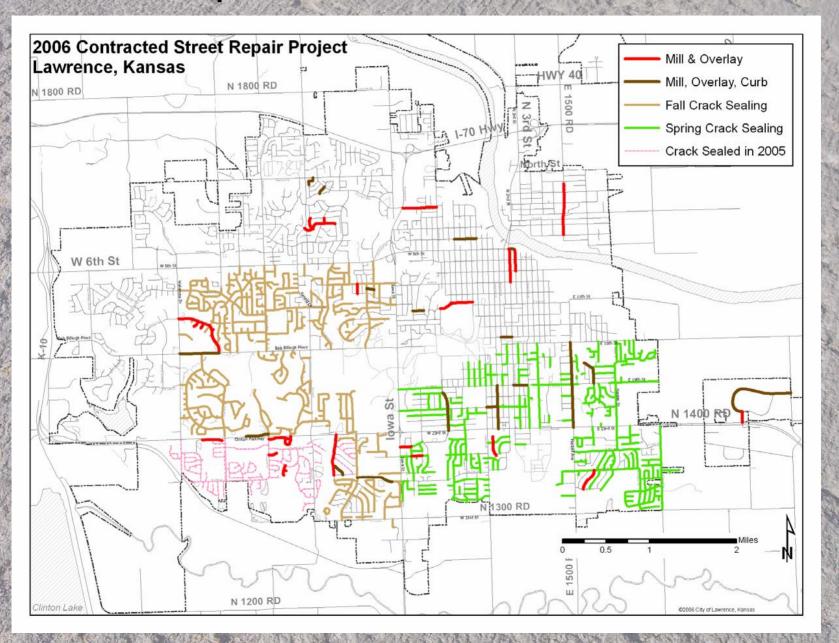
Pavement Management Program (PMP) Goals

- Analyze gathered pavement condition data and report recommendations on maintenance of streets based on the specific maintenance need.
- Apply the correct pavement treatment at the right time to establish a cost-effective program.
- Incorporate more Pavement Preservation strategies and efforts by "keeping the good pavements in good condition".
- Overall, provide and maintain a safe and efficient street network by implementing these tactics.

2006 Contracted Street Repair Program Recommendations

- Total Program Funding Available = \$4,115,000
- Total Construction Cost Estimate = \$3,900,000
 - Crack Sealing = \$500,000
 - Milling and Overlay = \$1,100,000
 - Milling, Overlay, Pavement Replacement,
 and Curb Repair = \$2,300,000
- Reserve for Contingency = \$215,000

2006 Proposed Maintenance Locations



Contracted Street Repair Budget

- 2005 \$3,100,000
- 2006 \$4,100,000
- Based on Cycle One analysis of street deterioration:
 - 2007 \$6,500,000 (\$500,000 in crack sealing)
 - -2008 \$6,000,000
 - -2009 \$6,000,000