

Citywide Pavement Survey and Management Program Update

City of Upland
Special Public Work Committee
Meeting
April 30, 2024



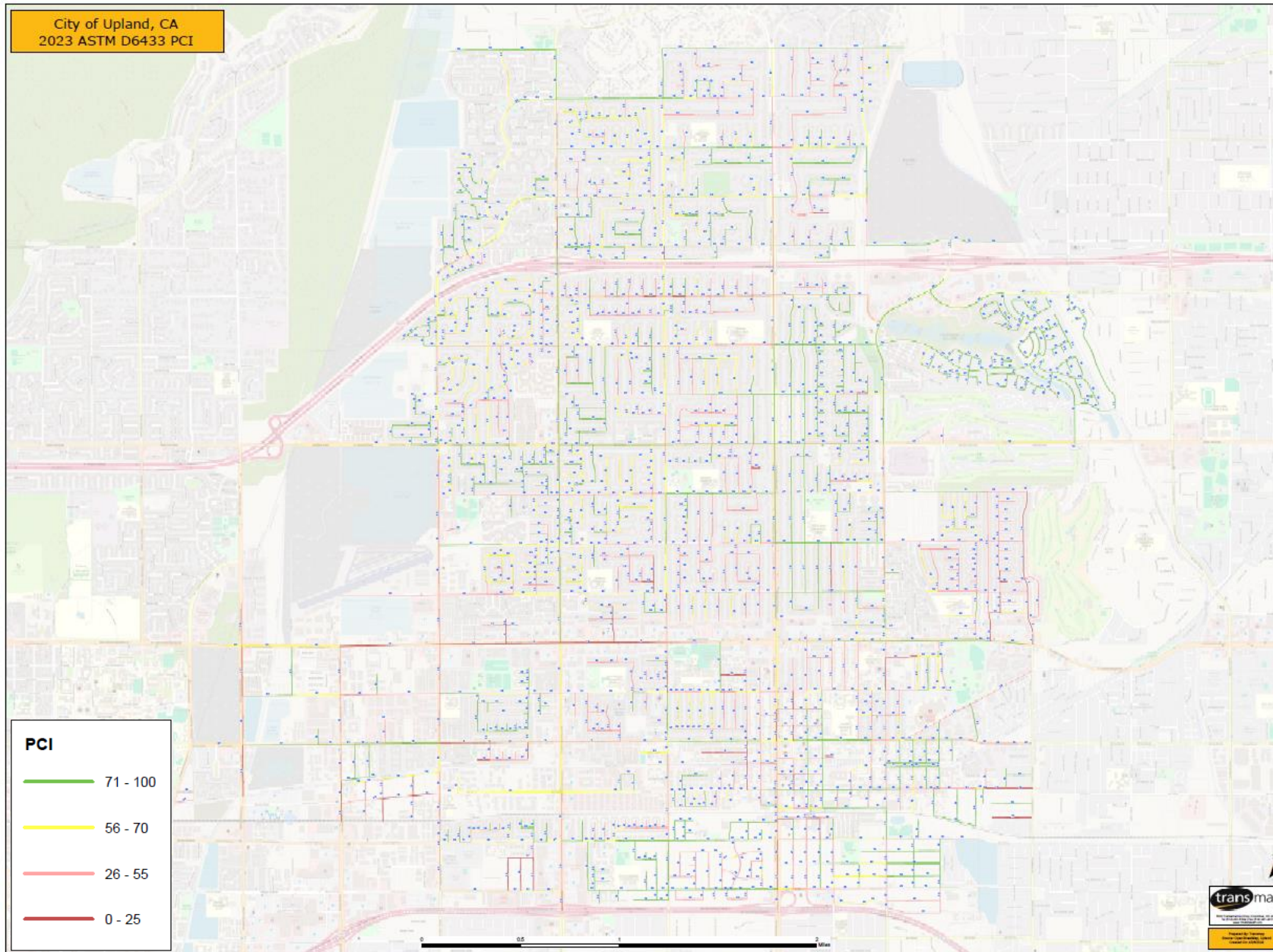
History



- Transmap contract awarded by City Council 6/26/2023
- Scope of Work:
 - Scan City public roadways, alleys, and parking lots (complete).
 - Develop heat maps of the cracking encountered and rate the asphalt condition based on the pavement condition index, PCI (complete).
 - Develop an inventory, management program, and budgeting tool utilizing StreetSaver pavement management program (current work efforts).
 - Provide StreetSaver software training to engineering staff (future work effort).



Public Streets (PCI Map)



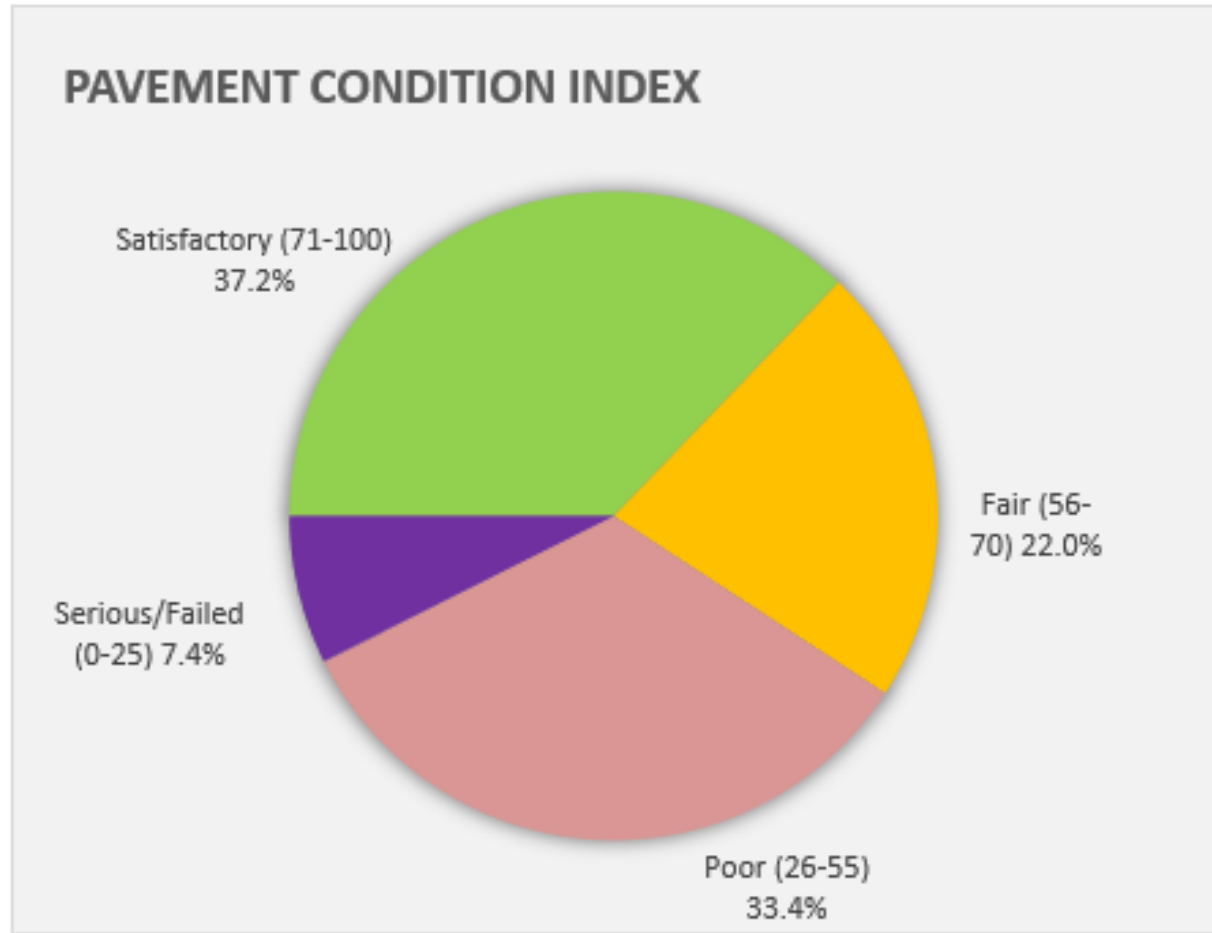
Public Streets Data Analysis



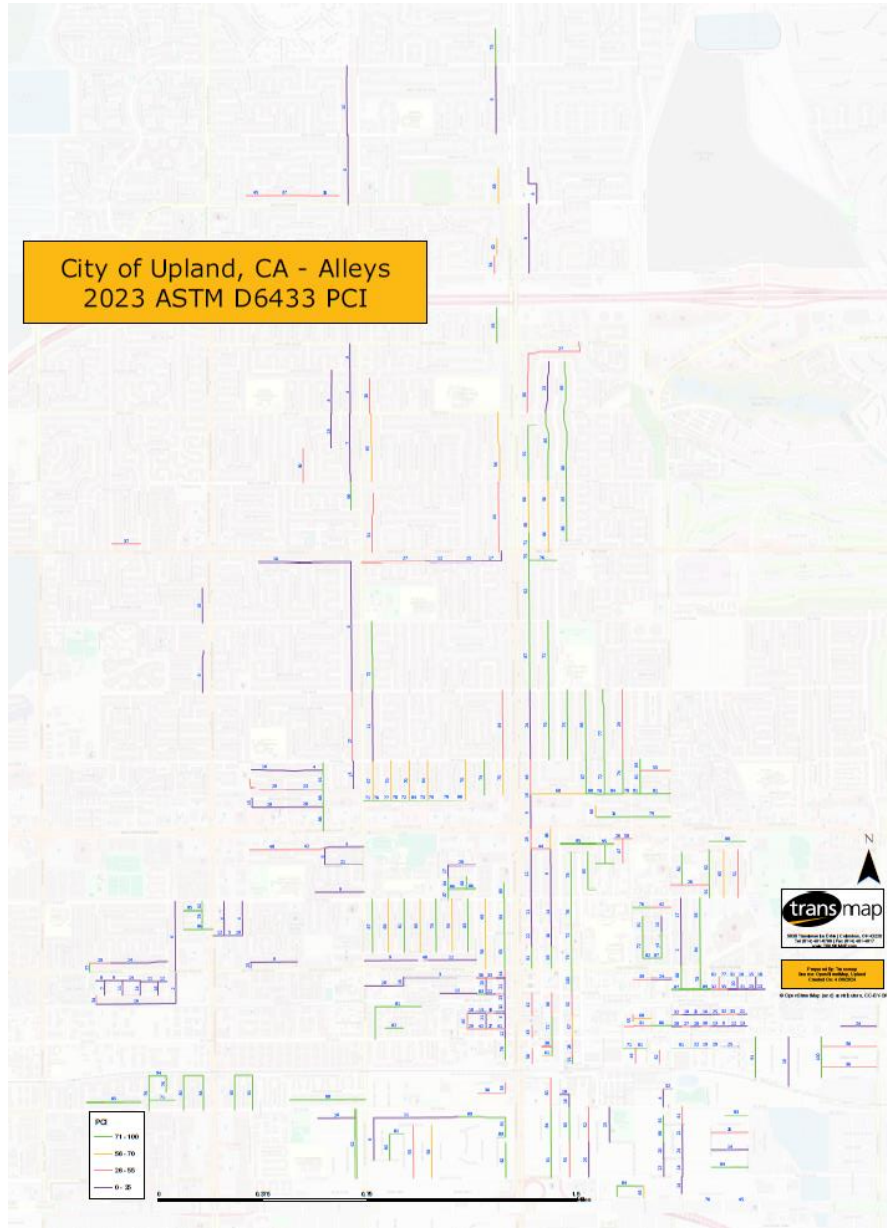
Upland, CA - 2023 PCI Index

PCI		
Average		62.21
Median		64
Minimum		0
Maximum		100
Satisfactory (71-100)		37.2%
Fair (56-70)		22.0%
Poor (26-55)		33.4%
Serious/Failed (0-25)		7.4%
Pavement Network		
Sections		2,210
Length in Feet		1,011,585
Length in Miles		192
Area SqFt		38,974,609
Area SqYd		4,330,512
Average Width		36.86

PAVEMENT CONDITION INDEX



Public Alleys (PCI Map)

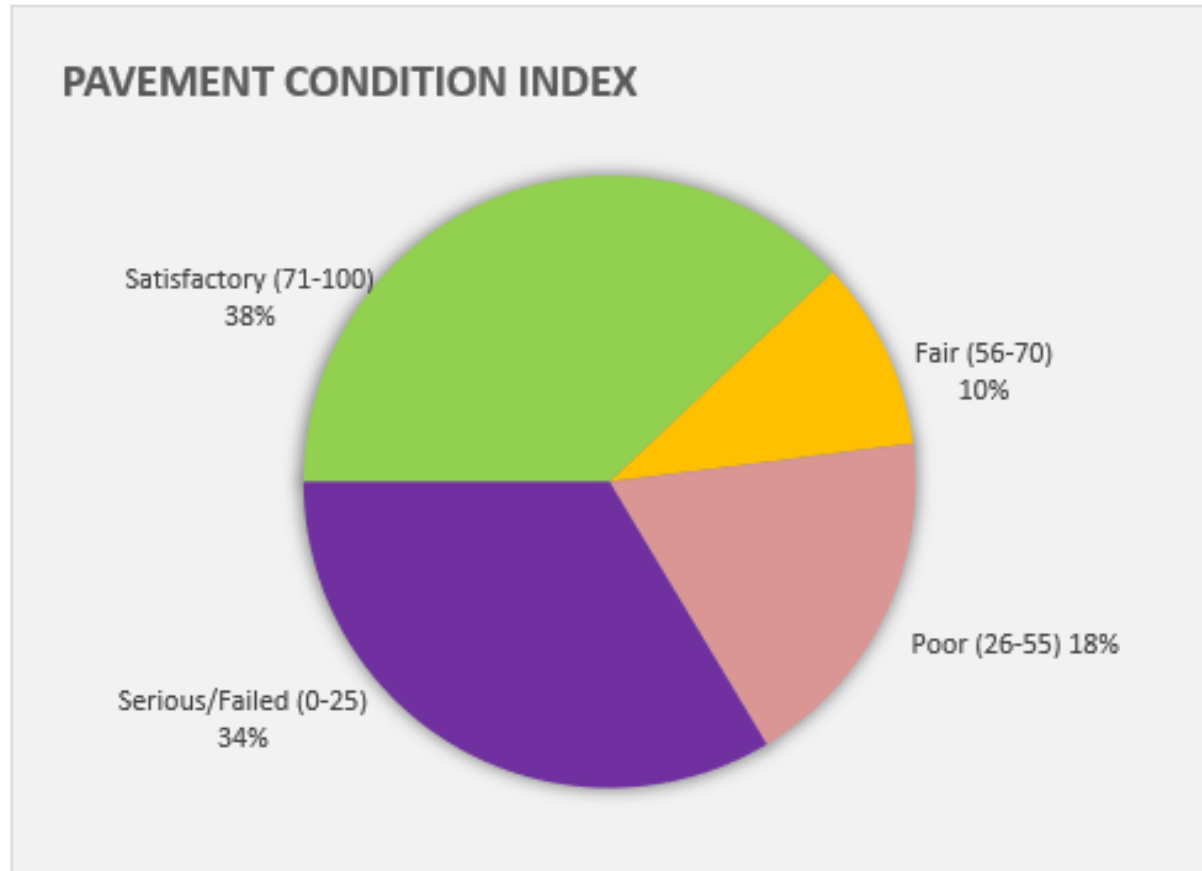


Public Alleys Data Analysis

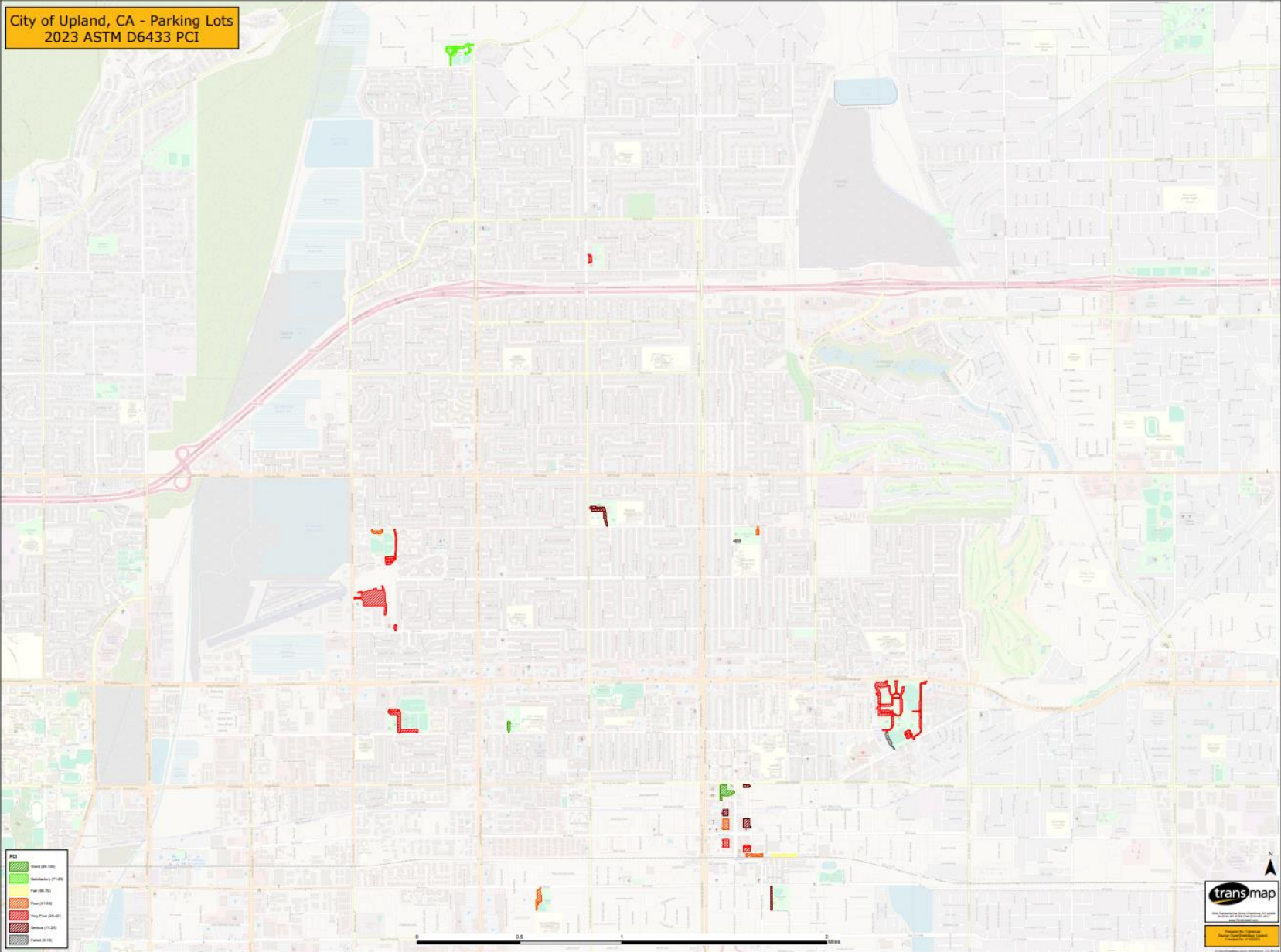


Upland, CA - 2023 Alley PCI Index

PCI	Average	50.40
	Median	46.5
	Minimum	2
	Maximum	100
	Satisfactory (71-100)	38%
	Fair (56-70)	10%
	Poor (26-55)	18%
	Serious/Failed (0-25)	34%
Pavement Network		
Pavement Network	Sections	384
	Length in Feet	197,135
	Length in Miles	37.3
	Area SqFt	3,754,352
	Area SqYd	417,150
	Average Width	18.4



Public Parking Lots (PCI Map)

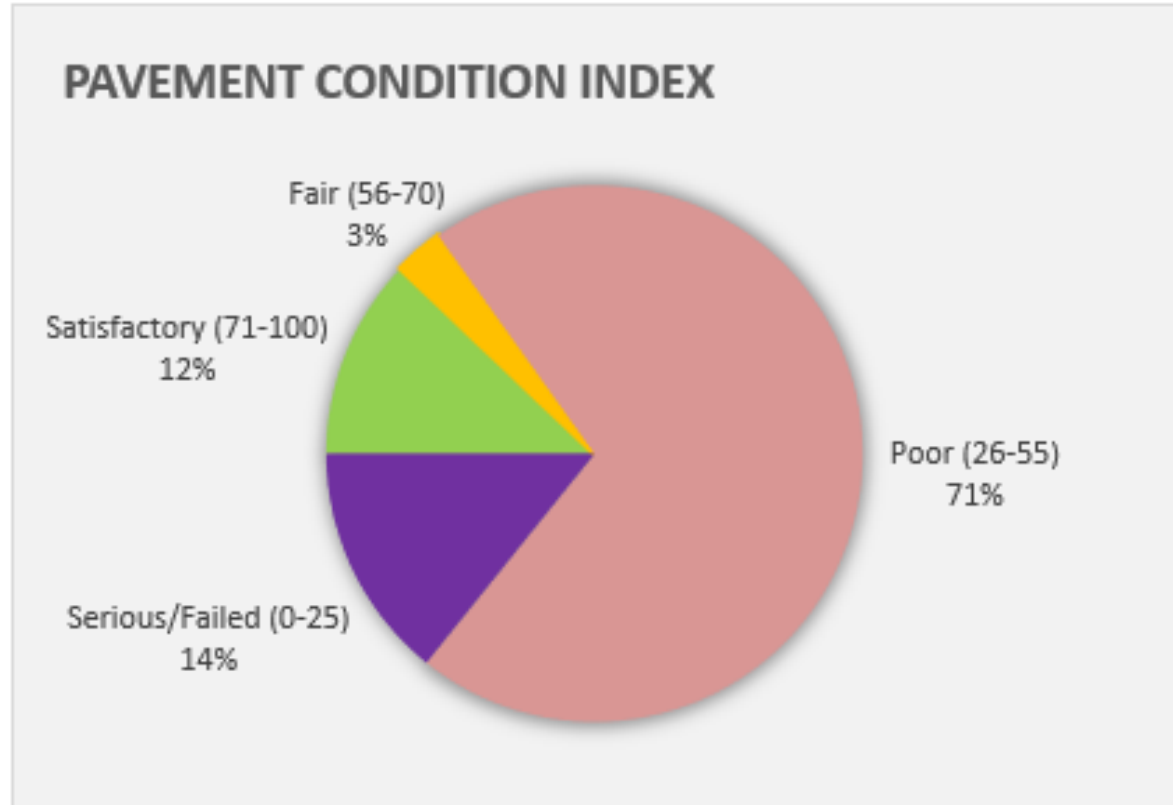


Public Parking Lots Data Analysis



Upland, CA - 2023 Parking Lot PCI Index

PCI	Average	38.36
	Median	33
	Minimum	4
	Maximum	90
	Satisfactory (71-100)	12%
	Fair (56-70)	3%
	Poor (26-55)	71%
	Serious/Failed (0-25)	14%
Pavement Network		
	Sections	25
	Area SqFt	1,341,279
	Area SqYd	149,031

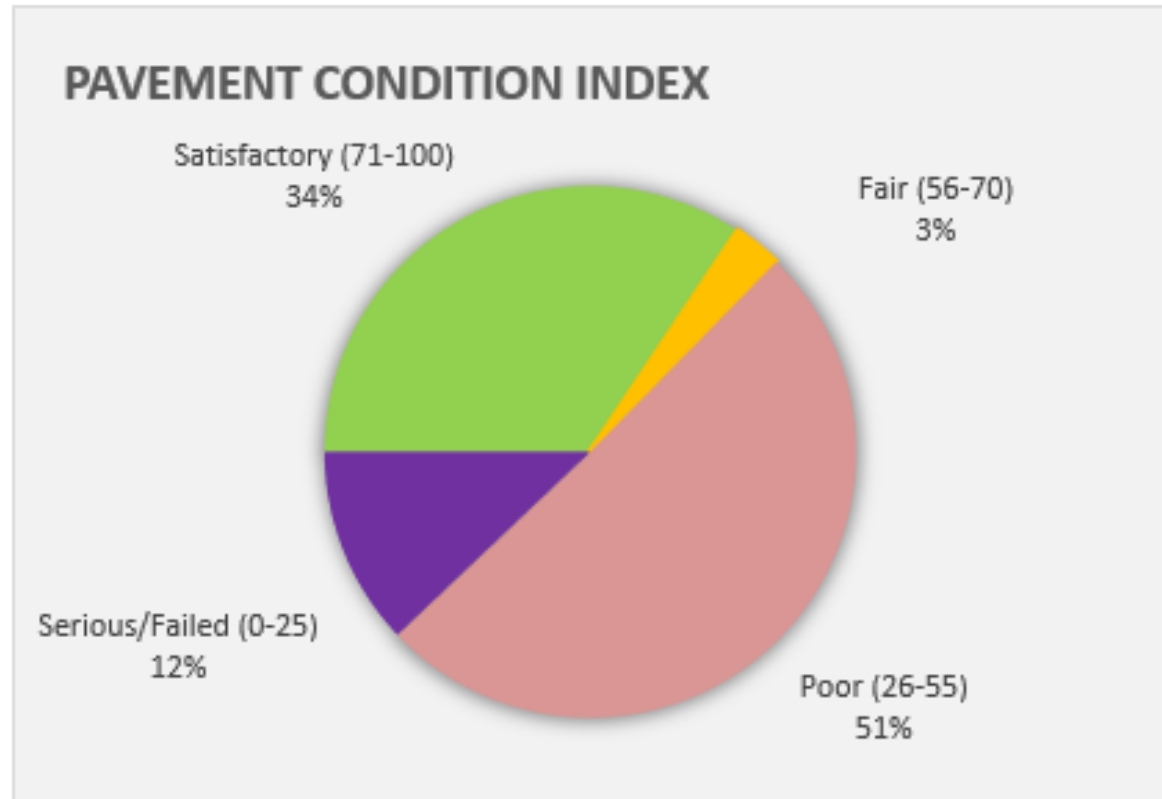


Public Parking Lots Data Analysis - Updated



Upland, CA - 2024 Parking Lot PCI Index

PCI	Average	47.56
	Median	40
	Minimum	8
	Maximum	100
	Satisfactory (71-100)	34%
	Fair (56-70)	3%
	Poor (26-55)	51%
	Serious/Failed (0-25)	12%
Pavement Network		
	Sections	25
	Area SqFt	1,341,279
	Area SqYd	149,031



Future



- Eng. Staff & Transmap are working on unit cost data for the StreetSaver software.
- Run cost analytics for various asphalt pavement treatment scenarios based on Upland's pavement conditions
 - Slurry Seals, Overlays, and Reconstruction.
 - Run budget analysis scenarios based on current and future funding.
- Compare the pavement management data results with the outcomes of the water & sewer master plans (currently in development) in order to achieve economies of scale on future maintenance and repairs.

Recommendation



- It is staff's recommendation that the Public Works Committee Receive and File the Presentation.