Sources

- PMIS Rater's Manual 2010
- TxDOT Research Report 1989-1: PMIS Concepts, Equations and Analysis Models
- PMIS data tables from 1993 to 2010:
 - PMIS JCP Ratings
 - PMIS Data Collection Section
 - PMIS Scores Summaries





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JCP Distress Type	PMIS Rating	Computing L Value
Failed Joints and Cracks	total number (0 to 999)	L = percent of joints and cracks that are failed (see equation below this table)
Failures	total number (0 to 999)	L = number per mile (see equation below this table)
Shattered (Failed) Slabs	total number (0 to 999)	L = percent of slabs that are failed (see equation below this table)
Slabs With Longitudinal Cracks	total number (0 to 999)	L = percent of slabs that have longitudinal cracks (see equation below this table)
Concrete Patches	total number (0 to 999)	L = number per mile (see equation below this table)
Apparent Joint Spacing	spacing (15 to 75), to the nearest foot (0.1 m)	none





Utilization in PMIS: In calculations of distress levels L measured per slab





Failed Joints and Cracks



- **JC)** • Field rating (Rat)=# occurrences
 - Distress level calculated as

$$L_i = 100 \frac{Rat}{5280Len}$$

$$AJS$$

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Spalling = yes Load transfer loss = no





Longitudinal Cracks (LC)



- Field rating (Rat)=# occurrences
- Distress level calculated as

$$L_i = 100 \frac{Rat}{\underbrace{5280Len}}$$

$$AJS$$





Shattered Slabs (S, SS)



Failures ≥ 5 or failure larger than ½ slab



- Field rating (Rat)=# occurrences
- Distress level calculated as

$$L_i = 100 \frac{Rat}{5280Len}$$

$$AJS$$





Failures (F, FL)



- Field rating (Rat)=#occurrences
- · Distress level calculated as: Rat/Len









Concrete Patches (P, Pat)



- Field rating (Rat)=#occurrences
- Distress level calculated as: Rat/ Len









JCP Distresses Progression







Example of Non-Adherence to Order of Performance

Zone 3 Data







Example of Non-Adherence to Order of Performance Zone 1 LR Data



Age

