



PSI and **PSR**

- Pavement Serviceability Index or Rating
- Panel of Experts
- Zero to 5
- AASHO Road Test 1958 to 1961

ASTM E1927(2003)

Standard Guide for Conducting Subjective Pavement Ride Quality (Serviceability) Ratings

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PSI and **PSR**

HMA Surface

PSI = 5.03-1.9 log (1+SV)-0.01 (C+P) $^{0.5}$ - 1.38 (RD) 2

Concrete Surface

 $PSI = 5.41-1.8 log (1+SV)-0.09 (C+P)^{0.5}$

PSI = Present Serviceability Index (0-5)

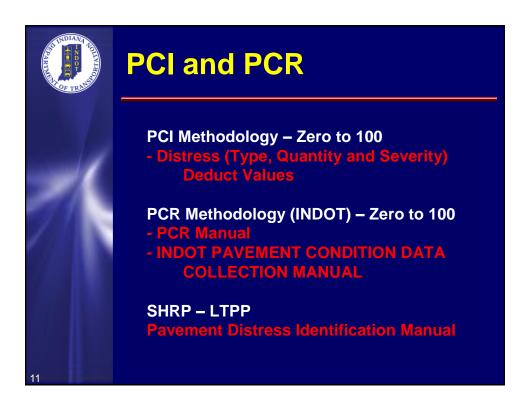
SV = Slope Variance

C = Cracking Length in ft per 1000 ft² Area

P = Patching area in ft² per 1000 ft² Area

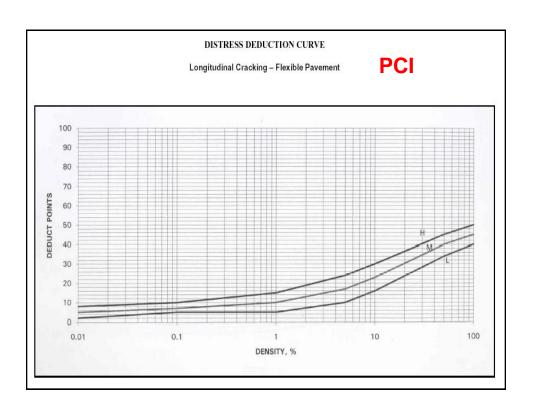
RD = Rut Depth in Inches

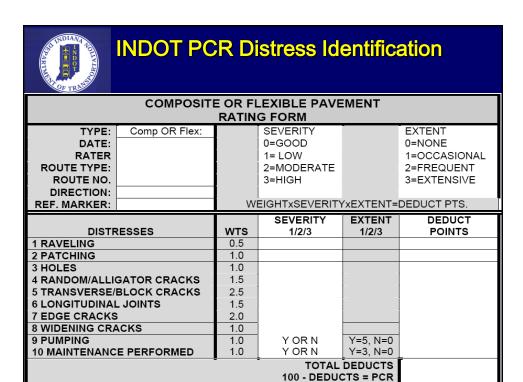
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	AS	CONDIT	FACED ROAL ION SURVEY FOR SAMPLE	DATA SHEE			SKETCH:		РС	ı	
BRANCH				DATE			1		_		
SURVEYED BY SAMPLE UNIT					1						
ECTION SAMPLE AREA					1						
1. Alligator Cracking oq Pt 2. Bleeding oq Pt 3. Block Cracking oq Pt 4. Bumps and Sags Pt 5. Loreng Sags Pt 6. Loreng Sags Pt 7. Loreng Shoulde 6. Corrugation oq Pt 7. Loreng Shoulde 7. Loreng Shoulde 7. Loreng Shoulde			Fit 12. Polished Agg Cracking Fit 13. Potholes cour Drop Off Fit 14. Railroad Cros			regate og Ft nt		16. Shoving sq Ft 17. Slippage Cracking sq Ft 18. Swell sq Ft 19. Weathering/Ravelling sq Ft			
ISTRESS EVERITY				QUA	NTITY				TOTAL	DENSITY %	DEDUCT VALUE

BRANCH				SECTION			SAMPLE	LINIT			
SURVEYED BY DATE							SAMPLE AREA				
		ES	27.12	SKETCH:			BE FILEFI				
PCI	21. Blow up/E 22. Corner Bre 23. Divided Si 24. Durability 25. Faulting 26. Joint Seal 27. Lane/Sho 28. Linear Cra 29. Patching 30. Patching	eak lab Crack ulder acking (Large)	31. Polished A 32. Poouts 33. Pumping 34. Punchout 35. Railroad C 36. Scaling 37. Shrinkage 38. Spalling C 39. Spalling J	Crossing						10 9	
DIST TYPE	SEV	NO. SLABS	DENSITY %	DEDUCT VALUE	1					8	
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TO LIVE BOOK OF TRANSPORTED TO STATE OF TRANSPORTED TO	INDO	PCR Distress Identification								
JOINTED CONCRETE PAVEMENT, JCP RATING FORM										
TYPE DATE: RATER ROUTE TYPE: ROUTE NO. DIRECTION: REF. MARKER:	JCP	WEIGHTxSEVI	SEVERITY 0=GOOD 1= LOW 2=MODERATE 3=HIGH ERITYXEXTENT=DEDI	UCT PTS.	EXTENT 0=NONE 1=OCCASIONAL 2=FREQUENT 3=EXTENSIVE					
DIOTREGOES		WTO	SEVERITY	EXTENT	DEDUCT					
DISTRESSES 1 D-CRACKS 2 PATCHING 3 FAULTING		1.0 1.0 1.5	1/2/3	1/2/3	POINTS					
4 JOINT or CRACI	K SPALLS	1.5								
4 JOINT or CRACI 5 TRANSVERSE C 6 LONGITUDINAL 7 CORNER BREA	CRACKS	1.5 1.0 0.5 1.0								
4 JOINT or CRACI 5 TRANSVERSE C 6 LONGITUDINAL	CRACKS CRACKS KS PERFORMED	1.5 1.0 0.5	Y OR N Y OR N	Y=5, N=0 Y=3, N=0						

