

Study of LTPP Distress Data Variability

Volume II: Appendix A, Appendix B, and Appendix C

PUBLICATION NO. FHWA/RD-99-075

SEPTEMBER 1999

PB2000-102373



ROAD
TEST
51008



U.S. Department of Transportation
Federal Highway Administration

Research, Development and Technology
Turner-Fairbank Highway Research Center
6300 Georgetown Pike
McLean, VA 22101-2296

REPRODUCED BY:
U.S. Department of Commerce
National Technical Information Service
Springfield, Virginia 22161

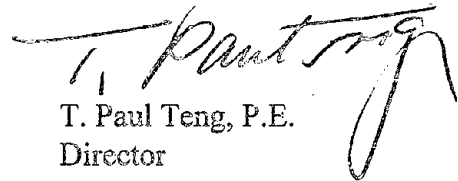
NTIS



FOREWORD

This report, which is part of a two-volume set, documents the results of a study to evaluate and quantify the variability of pavement distress data collected in the Long-Term Pavement Performance (LTPP) program. Analyses were performed on both manual and film-derived distress data. General trends of the distress data were first investigated, followed by statistical analyses of repeatability and detection of variability sources. Distress data bias and precision were also quantified. In addition, a comparison of variability between manual and film-derived distress data was conducted. This report will be of interest to engineers involved in pavement design, pavement performance evaluation and prediction, and pavement maintenance and rehabilitation.

Sufficient copies of this report are being distributed to provide two copies to each FHWA resource center and three copies to each FHWA division office and each State highway agency. Direct distribution is being made to the division offices. Additional copies for the public are available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161.



T. Paul Teng, P.E.
Director
Office of Infrastructure
Research and Development

NOTICE

This document is disseminated under the sponsorship of the Department of Transportation in the interest of information exchange. The United States Government assumes no liability for its contents or use thereof. This report does not constitute a standard, specification, or regulation.

The United States Government does not endorse products or manufacturers. Trade and manufacturers' names appear in this report only because they are considered essential to the object of the document.

1. Report No. FHWA-RD-99-075		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle STUDY OF LTPP DISTRESS DATA VARIABILITY VOLUME II: Appendix A: Tables and Figures for Manual Distress Data Analysis, Appendix B: Figures for PASCO/PADIAS Distress Data Analysis, Appendix C: Figures for Comparison of Manual and PASCO/PADIAS Distress Data				5. Report Date September 1999	
				6. Performing Organization Code	
				8. Performing Organization Report No.	
				10. Work Unit No. (TRAIS)	
7. Author(s) G.R. Rada, C.L. Wu, R.K. Bhandari, A.R. Shekharan, G.E. Elkins, J.S. Miller				11. Contract or Grant No. DTFH61-97-C-00002	
9. Performing Organization Name and Address Law PCS A Division of LAW Engineering and Environmental Services, Inc. 12104 Indian Creek Court, Suite A Beltsville, Maryland 20705-1242				13. Type of Report and Period Covered Final Report January 1997 - December 1998	
12. Sponsoring Agency Name and Address Office of Infrastructure Research and Development Federal Highway Administration 6300 Georgetown Pike McLean, Virginia 22011-2296				14. Sponsoring Agency Code	
15. Supplementary Notes Contracting Officer's Technical Representative - Monte Symons, HRDI-13					
16. Abstract Reliable distress data for pavement performance model development and validation, and other pavement engineering products, are critical to the success of the Long-Term Pavement Performance (LTPP) program. Confidence in distress data requires a measure of error because of the bias and precision components of its variability. No systematic evaluation has been performed to quantify the bias and variability associated with both the manual and PASCO film-based distress data. In view of this, this study was undertaken by the Federal Highway Administration (FHWA) to assess the variability of the LTPP distress data, including those in the Information Management System (IMS) and those currently being collected using either photographic or manual methods. This second volume of the report contains all tables and figures developed in this study. Volume I of the report is: FHWA-RD-99-074 Volume I Study of LTPP Distress Data Variability					
17. Key Words Pavement Distress; Pavement Evaluation; Manual Survey; Film-Derived Distress Data; Distress Data Variability; Bias and Precision; LTPP			18. Distribution Statement No restrictions. This document is available to the public through the National Technical Information Service, Springfield, VA 22161		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 366	
				22. Price	

SI* (MODERN METRIC) CONVERSION FACTORS

APPROXIMATE CONVERSIONS FROM SI UNITS

Symbol	When You Know	Multiply By	To Find	Symbol	When You Know	Multiply By	To Find	Symbol
LENGTH								
in	inches	25.4	millimeters	mm	millimeters	0.039	inches	in
ft	feet	0.305	meters	m	meters	3.28	feet	ft
yd	yards	0.914	meters	m	meters	1.09	yards	yd
mi	miles	1.61	kilometers	km	kilometers	0.621	miles	mi
AREA								
in ²	square inches	645.2	square millimeters	mm ²	square millimeters	0.0016	square inches	in ²
ft ²	square feet	0.093	square meters	m ²	square meters	10.764	square feet	ft ²
yd ²	square yards	0.836	square meters	m ²	square meters	1.195	square yards	yd ²
ac	acres	0.405	hectares	ha	hectares	2.47	acres	ac
mi ²	square miles	2.59	square kilometers	km ²	square kilometers	0.386	square miles	mi ²
VOLUME								
fl oz	fluid ounces	29.57	milliliters	mL	milliliters	0.034	fluid ounces	fl oz
gal	gallons	3.785	liters	L	liters	0.264	gallons	gal
ft ³	cubic feet	0.028	cubic meters	m ³	cubic meters	35.71	cubic feet	ft ³
yd ³	cubic yards	0.765	cubic meters	m ³	cubic meters	1.307	cubic yards	yd ³
NOTE: Volumes greater than 1000 l shall be shown in m³.								
MASS								
oz	ounces	28.35	grams	g	grams	0.035	ounces	oz
lb	pounds	0.454	kilograms	kg	kilograms	2.202	pounds	lb
T	short tons (2000 lb)	0.907	megagrams (or "metric ton")	Mg (or "t")	megagrams (or "metric ton")	1.103	short tons (2000 lb)	T
TEMPERATURE (exact)								
°F	Fahrenheit temperature	5(F-32)/9 or (F-32)/1.8	Celcius temperature	°C	Celcius temperature	1.8C + 32	Fahrenheit temperature	°F
ILLUMINATION								
fc	foot-candles	10.76	lux	lx	lux	0.0929	foot-candles	fc
fl	foot-Lamberts	3.426	candela/m ²	cd/m ²	candela/m ²	0.2919	foot-Lamberts	fl
FORCE and PRESSURE or STRESS								
lbf	poundforce	4.45	newtons	N	newtons	0.225	poundforce	lbf
lb/in ²	poundforce per square inch	6.89	kilopascals	kPa	kilopascals	0.145	poundforce per square inch	lb/in ²

* SI is the symbol for the International System of Units. Appropriate rounding should be made to comply with Section 4 of ASTM E380.

TABLE OF CONTENTS

VOLUME II

	<u>Page</u>
APPENDIX A - TABLES AND FIGURES FOR MANUAL DISTRESS DATA ANALYSIS	1
APPENDIX B - FIGURES FOR PASCO/PADIAS DISTRESS DATA .. ANALYSIS	83
APPENDIX C - FIGURES FOR COMPARISON OF MANUAL AND PASCO/PADIAS DISTRESS DATA	299

LIST OF TABLES

VOLUME II

<u>Table</u>	<u>Page</u>
1. Results of Bias Analysis Based on Square Root Transformation for AC Pavements.	1
2. Results of Bias Analysis Based on Square Root Transformation for PCC Pavements.	6

LIST OF FIGURES

VOLUME II

<u>Figure</u>	<u>Page</u>
1. Fatigue Cracking (Sq. Meters) - AC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	13
2. Longitudinal Cracking WP (Meters) - AC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	14
3. Longitudinal Cracking NWP (Meters) - AC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	15
4. Transverse Cracking (No.) - AC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	16
5. Transverse Cracking (Meters) - AC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	17
6. Corner Breaks (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	18
7. Longitudinal Cracking (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	19
8. Longitudinal Cracking Sealed (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	20
9. Transverse Cracking (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	21
10. Transverse Cracking (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	22
11. Transverse Cracking Sealed (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	23
12. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values. .	24
13. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values. .	24
14. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values. .	25
15. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	26
16. Spalling of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	27
17. Spalling of Transverse Joints (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	28
18. Polished Aggregate (Sq. Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	29
19. Popouts (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	29

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
20. Patch/Patch Deterioration Rigid (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.	30
21. Patch/Patch Deterioration Rigid (Sq. Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values. .	31
22. Fatigue Cracking (Sq. Meters) - AC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	32
23. Longitudinal Cracking WP (Meters) - AC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	33
24. Longitudinal Cracking NWP (Meters) - AC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	34
25. Transverse Cracking (No.) - AC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	35
26. Transverse Cracking (Meters) - AC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	36
27. Corner Breaks (No.) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	37
28. Longitudinal Cracking (Meters) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	38
29. Transverse Cracking (Meters) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	39
30. Transverse Cracking (No.) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	40
31. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	41
32. Spalling of Transverse Joints (Meters) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	42
33. Spalling of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.	43
34. Fatigue Cracking (Sq. Meters) - AC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	44
35. Longitudinal Cracking WP (Meters) - AC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	45
36. Longitudinal Cracking NWP (Meters) - AC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	46
37. Transverse Cracking (No.) - AC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	47
38. Transverse Cracking (Meters) - AC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	48
39. Corner Breaks (No.) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	49

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
40. Longitudinal Cracking (Meters) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	50
41. Transverse Cracking (Meters) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	51
42. Transverse Cracking (No.) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	52
43. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	53
44. Spalling of Transverse Joints (Meters) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	54
45. Spalling of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.	55
46. Fatigue Cracking (Sq. Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.	56
47. Longitudinal Cracking WP (Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.	57
48. Longitudinal Cracking NWP (Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.	58
49. Transverse Cracking (No.) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.	59
50. Transverse Cracking (Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.	60
51. Patch/Patch Deterioration (No.) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.	61
52. Patch/Patch Deterioration (Sq. Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.	62
53. Potholes (No.) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.	63
54. Potholes (Sq. Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.	64
55. Corner Breaks (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	65
56. Longitudinal Cracking (Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	66
57. Transverse Cracking (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	67
58. Transverse Cracking (Meters) -PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	68
59. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	69

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
60. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	69
61. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	70
62. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	71
63. Spalling of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	72
64. Spalling of Transverse Joints (Meters) -PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	73
65. Map Cracking (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	74
66. Map Cracking (Sq. Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	74
67. Scaling (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	75
68. Scaling (Sq. Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	75
69. Polished Aggregate (Sq. Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	76
70. Patch/Patch Deterioration Flex. (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	77
71. Patch/Patch Deterioration Flex. (Sq. Meters) -PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	78
72. Patch/Patch Deterioration Rigid (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	79
73. Patch/Patch Deterioration Rigid (Sq. Meters) -PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	80
74. Water Bleeding and Pumping (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	81
75. Water Bleeding and Pumping (Sq. Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.	81
76. Fatigue Cracking (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	83
77. Edge Cracking (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	84
78. Longitudinal Cracking, Wheel Path (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions. . .	85

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
79. Longitudinal Cracking Sealed WP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions. . .	86
80. Longitudinal Cracking, NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	87
81. Longitudinal Cracking Sealed NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions. . .	88
82. Transverse Cracking (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	89
83. Transverse Cracking (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	90
84. Transverse Cracking, Sealed (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	91
85. Patch/Patch Deterioration (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	92
86. Patch/Patch Deterioration (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	93
87. Bleeding (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	94
88. Raveling (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	95
89. Fatigue Cracking (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	96
90. Longitudinal Cracking, Wheel Path (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	97
91. Longitudinal Cracking, Sealed, Wheel Path (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	98

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
92. Longitudinal Cracking, NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	99
93. Longitudinal Cracking, Sealed, NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	100
94. Transverse Cracking (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	101
95. Transverse Cracking (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	102
96. Transverse Cracking, Sealed (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	103
97. Patch/Patch Deterioration (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	104
98. Patch/Patch Deterioration (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	105
99. Bleeding (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	106
100. Corner Breaks (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	107
101. Longitudinal Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	108
102. Longitudinal Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	109
103. Transverse Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	110
104. Transverse Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	111 .

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
105. Transverse Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	112
106. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions. . .	113
107. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	114
108. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	114
109. Spalling of Longitudinal Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	115
110. Spalling of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	116
111. Spalling of Transverse Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	117
112. Map Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	118
113. Map Cracking (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	118
114. Popouts (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	119
115. Polished Aggregate (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	119
116. Patch/Patch Deterioration Flexible (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	120
117. Patch/Patch Deterioration Flexible (Sq. Meters) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	121

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
118. Patch/Patch Deterioration Rigid (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	122
119. Patch/Patch Deterioration Rigid (Sq. Meters) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.	123
120. Corner Breaks (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	124
121. Longitudinal Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	125
122. Transverse Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	126
123. Transverse Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	127
124. Transverse Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	128
125. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	129
126. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	130
127. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	130
128. Spalling of Longitudinal Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	131
129. Spalling of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	132
130. Spalling of Transverse Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	133

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
131. Map Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	134
132. Map Cracking (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	134
133. Scaling (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	135
134. Scaling (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	135
135. Popouts (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	136
136. Patch/Patch Deterioration Flexible (No.) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	137
137. Patch/Patch Deterioration Flexible (Sq. Meters) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.	138
138. Fatigue Cracking (Sq. Meters) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	139
139. Longitudinal Cracking WP (Meters) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	140
140. Longitudinal Cracking NWP (Meters) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	141
141. Transverse Cracking (No.) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	142
142. Transverse Cracking (Meters) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	143
143. Fatigue Cracking (Sq. Meters) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	144
144. Longitudinal Cracking WP (Meters) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	145
145. Longitudinal Cracking NWP (Meters) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	146
146. Transverse Cracking (No.) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	147

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
147. Transverse Cracking (Meters) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	148
148. Fatigue Cracking (Sq. Meters) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	149
149. Longitudinal Cracking WP (Meters) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	150
150. Longitudinal Cracking NWP (Meters) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	151
151. Transverse Cracking (No.) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	152
152. Transverse Cracking (Meters) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	153
153. Corner Breaks (No.) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	154
154. Longitudinal Cracking (Meters) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	155
155. Transverse Cracking (No.) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	156
156. Transverse Cracking (Meters) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	157
157. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	158
158. Spalling of Transverse Joints (No.) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	159
159. Spalling of Transverse Joints (Meters) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.	160
160. Corner Breaks (No.) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	161
161. Longitudinal Cracking (Meters) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	162
162. Transverse Cracking (No.) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	163
163. Transverse Cracking (Meters) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	164
164. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	165
165. Spalling of Transverse Joints (No.) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	166
166. Spalling of Transverse Joints (Meters) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.	167

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
167. Corner Breaks (No.) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	168
168. Longitudinal Cracking (Meters) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	169
169. Transverse Cracking (No.) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	170
170. Transverse Cracking (Meters) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	171
171. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	172
172. Spalling of Transverse Joints (No.) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	173
173. Spalling of Transverse Joints (Meters) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.	174
174. Fatigue Cracking (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	175
175. Edge Cracking (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	176
176. Longitudinal Cracking WP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	177
177. Longitudinal Cracking Sealed WP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams. . .	178
178. Longitudinal Cracking NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	179
179. Longitudinal Cracking Sealed NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams. . .	180
180. Transverse Cracking (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	181
181. Transverse Cracking (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	182
182. Transverse Cracking Sealed (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	183
183. Patch/Patch Deterioration (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	184
184. Patch/Patch Deterioration (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	185
185. Bleeding (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	186
186. Corner Breaks (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	187

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
187. Longitudinal Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	188
188. Longitudinal Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	189
189. Transverse Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	190
190. Transverse Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	191
191. Transverse Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	192
192. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, Experts, Individuals & Teams.	193
193. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, Experts, Individuals & Teams.	193
194. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, Experts, Individuals & Teams.	194
195. Spalling of Longitudinal Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	195
196. Spalling of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	196
197. Spalling of Transverse Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	197
198. Polished Aggregate (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	198
199. Popouts (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	198
200. Patch/Patch Deterioration Flexible (No.) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, Experts, Individuals & Teams.	199
201. Patch/Patch Deterioration Flexible (Sq. Meters) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, Experts, Individuals & Teams.	200
202. Patch/Patch Deterioration Rigid (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals & Teams.	201
203. Patch/Patch Deterioration Rigid (Sq. Meters) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, Experts, Individuals & Teams.	202
204. Fatigue Cracking (Sq. Meters) - AC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	203
205. Longitudinal Cracking NWP (Meters) - AC Pavements, Experts, PASCO Method: Standard Deviation/RMSE Vs. Mean.	204
206. Longitudinal Cracking WP (Meters) - AC Pavements, Experts, PASCO Method: Standard Deviation/RMSE Vs. Mean.	205

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
207. Transverse Cracking (No.) - AC Pavements, Experts, PASCO Method: Standard Deviation/RMSE Vs. Mean.	206
208. Transverse Cracking (Meters) - AC Pavements, Experts, PASCO Method: Standard Deviation/RMSE Vs. Mean.	207
209. Fatigue Cracking (Sq. Meters) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	208
210. Longitudinal Cracking WP (Meters) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	209
211. Longitudinal Cracking NWP (Meters) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	210
212. Transverse Cracking (No.) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	211
213. Transverse Cracking (Meters) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	212
214. Fatigue Cracking (Sq. Meters) - AC Pavements, Teams: Standard Deviation/RMSE Vs. Mean.	213
215. Longitudinal Cracking NWP (Meters) - AC Pavements, Teams: Standard Deviation/RMSE Vs. Mean.	214
216. Longitudinal Cracking WP (Meters) - AC Pavements, Teams: Standard Deviation/RMSE Vs. Mean.	215
217. Transverse Cracking (No.) - AC Pavements, Teams: Standard Deviation/RMSE Vs. Mean.	216
218. Transverse Cracking (Meters) - AC Pavements, Teams: Standard Deviation/RMSE Vs. Mean.	217
219. Corner Breaks (No.) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	218
220. Longitudinal Cracking (Meters) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	219
221. Transverse Cracking (No.) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	220
222. Transverse Cracking (Meters) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	221
223. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	222
224. Spalling of Transverse Joints (No.) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	223
225. Spalling of Transverse Joints (Meters) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	224
226. Corner Breaks (No.) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	225

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
227. Longitudinal Cracking (Meters) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	226
228. Transverse Cracking (No.) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	227
229. Transverse Cracking (Meters) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	228
230. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	229
231. Spalling of Transverse Joints (No.) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	230
232. Spalling of Transverse Joints (Meters) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.	231
233. Corner Breaks (No.) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.	232
234. Longitudinal Cracking (Meters) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.	233
235. Transverse Cracking (No.) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.	234
236. Transverse Cracking (Meters) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.	235
237. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.	236
238. Spalling of Transverse Joints (No.) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.	237
239. Spalling of Transverse Joints (Meters) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.	238
240. Comparison of PADIAS v1.x and v4.x - AC Pavements, Fatigue Cracking (Sq. Meters).	239
241. Comparison of PADIAS v1.x and v4.x - AC Pavements, Longitudinal Cracking (Meters).	240
242. Comparison of PADIAS v1.x and v4.x - AC Pavements, Transverse Cracking (Meters).	241
243. Comparison of PADIAS v1.x and v4.x - AC Pavements, Transverse Cracking (No.).	242
244. Comparison of PADIAS v1.x and v4.x - AC Pavements, AC Patch (Sq. Meters).	243
245. Comparison of PADIAS v1.x and v4.x - AC Pavements, AC Patch (No.).	244
246. Comparison of PADIAS v1.x and v4.x - AC Pavements, Potholes (Sq. Meters).	245

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
247. Comparison of PADIAS v1.x and v4.x - AC Pavements, Potholes (No.).	246
248. Comparison of PADIAS v1.x and v4.x - AC Pavements, Bleeding (Sq. Meters).	247
249. Comparison of PADIAS v1.x and v4.x - AC Pavements, Raveling (Sq. Meters).	248
250. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Corner Break (No.).	249
251. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Longitudinal Cracking (Meters).	250
252. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Transverse Cracking (Meters).	251
253. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Transverse Cracking (No.).	252
254. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Transverse Joint Seal Damage (No.).	253
255. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Spalling of Longitudinal Joints (Meters).	254
256. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Spalling of Transverse Joints (Meters).	255
257. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Spalling of Transverse Joints (No.).	256
258. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Polished Aggregate (Sq. Meters).	257
259. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Popouts (No.).	258
260. Comparison of PADIAS v1.x and v4.x - JPC Pavements, AC Patch (Sq. Meters).	259
261. Comparison of PADIAS v1.x and v4.x - JPC Pavements, AC Patch (No.).	260
262. Comparison of PADIAS v1.x and v4.x - JPC Pavements, PCC Patch (Sq. Meters).	261
263. Comparison of PADIAS v1.x and v4.x - JPC Pavements, PCC Patch (No.).	262
264. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Longitudinal Cracking (Meters).	263
265. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Transverse Cracking (Meters).	264
266. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Transverse Cracking (No.).	265

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
267. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Scaling (Sq. Meters).	266
268. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Scaling (No.).	267
269. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Popouts (No.).	268
270. Comparison of PADIAS v1.x and v4.x - CRC Pavements, AC Patch (Sq. Meters).	269
271. Comparison of PADIAS v1.x and v4.x - CRC Pavements, AC Patch (No.).	270
272. Comparison of PADIAS v1.x and v4.x - CRC Pavements, PCC Patch (Sq. Meters).	271
273. Comparison of PADIAS v1.x and v4.x - CRC Pavements, PCC Patch (No.).	272
274. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Punchouts (No.).	273
275. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Spalling of Longitudinal Joints (Meters).	274
276. Individual Survey Vs. Reference and Consensus: Fatigue Cracking of AC Pavement, PASCO's Production Procedure.	275
277. Individual Survey Vs. Reference and Consensus: Longitudinal Cracking (WP) of AC Pavement, PASCO's Production Procedure.	276
278. Individual Survey Vs. Reference and Consensus: Longitudinal Cracking (NWP) of AC Pavement, PASCO's Production Procedure.	277
279. Individual Survey Vs. Reference and Consensus: Transverse Cracking (No.) of AC Pavement, PASCO's Production Procedure.	278
280. Individual Survey Vs. Reference and Consensus: Transverse Cracking (Meters) of AC Pavement, PASCO's Production Procedure.	279
281. Team Survey Vs. Reference and Consensus: Fatigue Cracking of AC Pavement, PASCO's Production Procedure.	280
282. Team Survey Vs. Reference and Consensus: Longitudinal Cracking (WP) of AC Pavement, PASCO's Production Procedure.	281
283. Team Survey Vs. Reference and Consensus: Longitudinal Cracking (NWP) of AC Pavement, PASCO's Production Procedure.	282
284. Team Survey Vs. Reference and Consensus: Transverse Cracking (No.) of AC Pavement, PASCO's Production Procedure.	283
285. Team Survey Vs. Reference and Consensus: Transverse Cracking (Meters) of AC Pavement, PASCO's Production Procedure.	284
286. Individual Survey Vs. Reference and Consensus: Corner Break of PCC Pavement, PASCO's Production Procedure.	285

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
287. Individual Survey Vs. Reference and Consensus: Longitudinal Cracking of PCC Pavement, PASCO's Production Procedure.	286
288. Individual Survey Vs. Reference and Consensus: Transverse Cracking (No.) of PCC Pavement, PASCO's Production Procedure.	287
289. Individual Survey Vs. Reference and Consensus: Transverse Cracking (Meters) of PCC Pavement, PASCO's Production Procedure.	288
290. Individual Survey Vs. Reference and Consensus: Spalling of Longitudinal Joints of PCC Pavement, PASCO's Production Procedure.	289
291. Individual Survey Vs. Reference and Consensus: Spalling of Transverse Joints (No.) of PCC Pavement, PASCO's Production Procedure.	290
292. Individual Survey Vs. Reference and Consensus: Spalling of Transverse Joints (Meters) of PCC Pavement, PASCO's Production Procedure.	291
293. Team Survey Vs. Reference and Consensus: Corner Break of PCC Pavement, PASCO's Production Procedure.	292
294. Team Survey Vs. Reference and Consensus: Longitudinal Cracking of PCC Pavement, PASCO's Production Procedure.	293
295. Team Survey Vs. Reference and Consensus: Transverse Cracking (No.) of PCC Pavement, PASCO's Production Procedure.	294
296. Team Survey Vs. Reference and Consensus: Transverse Cracking (Meters) of PCC Pavement, PASCO's Production Procedure.	295
297. Team Survey Vs. Reference and Consensus: Spalling of Longitudinal Joints of PCC Pavement, PASCO's Production Procedure.	296
298. Team Survey Vs. Reference and Consensus: Spalling of Transverse Joints (No.) of PCC Pavement, PASCO's Production Procedure.	297
299. Team Survey Vs. Reference and Consensus: Spalling of Transverse Joints (Meters) of PCC Pavement, PASCO's Production Procedure.	298
300. Fatigue Cracking (Sq. Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual, and PASCO/PADIAS.	299
301. Fatigue Cracking (Sq. Meters) - AC Pavements: Reference Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.,	299
302. Longitudinal cracking WP (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	300

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
303. Longitudinal Cracking WP (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	300
304. Longitudinal Cracking NWP (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	301
305. Longitudinal Cracking NWP (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	301
306. Transverse Cracking (No.) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	302
307. Transverse Cracking (No.) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	302
308. Transverse Cracking (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	303
309. Transverse Cracking (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	303
310. Corner Breaks (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	304
311. Corner Breaks (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	304
312. Longitudinal Cracking (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	305
313. Longitudinal Cracking (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	305
314. Longitudinal Cracking Well Sealed (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	306
315. Longitudinal Cracking Well Sealed (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	306

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
316. Transverse Cracking (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	307
317. Transverse Cracking (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	307
318. Transverse Cracking (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	308
319. Transverse Cracking (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	308
320. Transverse Cracking Well Sealed (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	309
321. Transverse Cracking Well Sealed (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	309
322. Spalling of Longitudinal Joints (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	310
323. Spalling of Longitudinal Joints (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	310
324. Spalling of Transverse Joints (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	311
325. Spalling of Transverse Joints (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	311
326. Spalling of Transverse Joints (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.	312
327. Spalling of Transverse Joints (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.	312
328. Fatigue Cracking (Sq. Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).	313
329. Edge Cracking (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).	314

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
330. Longitudinal Cracking WP (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	315
331. Longitudinal Cracking WP Sealed (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	316
332. Longitudinal Cracking NWP (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	317
333. Longitudinal Cracking NWP Sealed (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	318
334. Transverse Cracking (No.) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	319
335. Transverse Cracking (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	320
336. Transverse Cracking Sealed (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	321
337. Patch/Patch Deterioration (No.) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	322
338. Patch/Patch Deterioration (Sq. Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	323
339. Bleeding (Sq. Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	324
340. Raveling (Sq. Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	325
341. Water Bleeding and Pumping - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	326
342. Corner Breaks (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	327
343. Longitudinal Cracking (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	328
344. Transverse Cracking (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	329
345. Transverse Cracking (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	330
346. Transverse Cracking Sealed (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	331
347. Longitudinal Joint Seal Damage (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	332
348. Longitudinal Joint Seal Damage (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	332
349. Transverse Joint Seal Damage (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	333

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
350. Spalling of Longitudinal Joints (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	334
351. Map Cracking (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	335
352. Map Cracking (Sq. Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	335
353. Polished Aggregates (Sq. Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	336
354. Popouts (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus)	336
355. Patch/Patch Deterioration, Flexible (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).	337
356. Patch/Patch Deterioration, Flexible (Sq. Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).	338
357. Patch/Patch Deterioration, Rigid (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).	339
358. Patch/Patch Deterioration, Rigid (Sq. Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).	340

APPENDIX A **TABLES AND FIGURES FOR MANUAL** **DISTRESS DATA ANALYSIS**

Table 1. Results of Bias Analysis Based on Square Root Transformation for AC Pavements.

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINAL	OUTLIER							
Fatigue Cracking	Sq. Meters	AC # 1	LOW	12	12	1.90	5.99	6.13	4.34	Y	1.7716	0.708
	Sq. Meters	AC # 2	LOW	13	13	1.90	10.51	5.51	5.74	Y		
	Sq. Meters	AC # 3	LOW	15	15	5.80	2.58	3.06	2.85	Y		
	Sq. Meters	AC # 4	LOW	11	11	19.90	25.29	9.55	8.91	N		
	Sq. Meters	AC # 5	LOW	12	12	0.30	0.55	0.48	1.31	N		
	Sq. Meters	AC # 6	LOW	13	12	6.00	4.68	5.15	3.83	N		
	Sq. Meters	AC # 7	LOW	12	12	4.10	6.86	2.55	4.64	N		
	Sq. Meters	AC # 8	LOW	16	15	30.30	14.05	7.65	6.64	Y		
	Sq. Meters	AC # 9	LOW	6	6	3.80	6.97	1.74	4.68	N		
	Sq. Meters	AC # 1	MOD	12	12	13.00	16.86	10.25	8.20	N	1.9978	0.891
	Sq. Meters	AC # 2	MOD	13	13	13.00	15.25	8.21	7.80	N		
	Sq. Meters	AC # 3	MOD	15	15	0.00	1.65	2.68	2.57	N		
	Sq. Meters	AC # 4	MOD	11	11	0.20	4.30	2.58	4.14	Y		
	Sq. Meters	AC # 5	MOD	12	12	0.50	0.21	0.42	0.91	N		
	Sq. Meters	AC # 6	MOD	13	12	4.00	4.59	2.61	4.28	N		
	Sq. Meters	AC # 7	MOD	12	12	4.10	7.11	5.23	5.33	N		
	Sq. Meters	AC # 8	MOD	16	15	12.80	11.97	6.10	6.91	N		
	Sq. Meters	AC # 9	MOD	6	6	0.00	0.00	0.00	0.00	NA		
	Sq. Meters	AC # 1	High	12	12	0.00	1.88	3.87	2.73	N	1.9938	0.718
	Sq. Meters	AC # 2	High	13	13	0.00	0.04	0.13	0.39	N		
	Sq. Meters	AC # 3	High	15	15	0.00	0.16	0.60	0.80	N		
	Sq. Meters	AC # 4	High	11	11	2.20	1.59	1.09	2.51	N		
	Sq. Meters	AC # 5	High	12	12	0.00	0.00	0.00	0.00	NA		
	Sq. Meters	AC # 6	High	13	13	0.00	0.00	0.00	0.00	NA		
	Sq. Meters	AC # 7	High	12	12	0.00	0.88	2.59	1.86	N		
	Sq. Meters	AC # 8	High	16	15	4.30	0.54	1.03	1.47	Y		
	Sq. Meters	AC # 9	High	6	6	0.00	0.00	0.00	0.00	NA		
	Sq. Meters	AC # 1	TOTAL	12	12	14.90	24.73	6.86	8.37	Y	1.6825	0.827
	Sq. Meters	AC # 2	TOTAL	13	13	14.90	25.80	7.60	8.55	Y		
	Sq. Meters	AC # 3	TOTAL	15	15	5.80	4.39	3.38	3.53	N		
	Sq. Meters	AC # 4	TOTAL	11	11	22.30	31.18	10.43	9.40	Y		
	Sq. Meters	AC # 5	TOTAL	12	12	0.80	0.76	0.58	1.46	N		
	Sq. Meters	AC # 6	TOTAL	13	12	10.00	9.27	5.03	5.12	N		
	Sq. Meters	AC # 7	TOTAL	12	12	8.20	14.84	7.56	6.48	Y		
	Sq. Meters	AC # 8	TOTAL	16	15	47.40	26.55	10.78	8.67	Y		
	Sq. Meters	AC # 9	TOTAL	6	6	3.80	6.97	1.74	4.44	N		

Table 1. Results of Bias Analysis Based on Square Root Transformation for AC Pavements (Continued).

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINA	OUTLIER							
Longitudinal Cracking WP	Meters	AC # 1	LOW	12	12	0.00	0.00	0.00	0.00	NA	1.4916	0.716
	Meters	AC # 2	LOW	13	13	0.00	0.18	0.34	0.64	N		
	Meters	AC # 3	LOW	15	15	16.00	7.79	4.18	4.16	Y		
	Meters	AC # 4	LOW	11	11	11.00	5.68	6.31	3.56	Y		
	Meters	AC # 5	LOW	12	12	33.80	37.98	6.90	9.19	N		
	Meters	AC # 6	LOW	13	13	9.00	6.93	4.89	3.93	N		
	Meters	AC # 7	LOW	12	12	4.30	6.66	4.88	3.85	N		
	Meters	AC # 8	LOW	16	15	3.30	11.07	5.87	4.96	Y		
	Meters	AC # 9	LOW	6	6	2.00	1.20	1.10	1.63	N		
	Meters	AC # 1	MOD	12	12	0.00	0.00	0.00	0.00	NA	2.3357	0.924
	Meters	AC # 2	MOD	13	13	0.00	0.00	0.00	0.00	NA		
	Meters	AC # 3	MOD	15	15	0.00	8.03	8.26	6.62	Y		
	Meters	AC # 4	MOD	11	11	2.00	23.39	9.10	11.30	Y		
	Meters	AC # 5	MOD	12	12	2.20	3.08	4.27	4.10	N		
	Meters	AC # 6	MOD	13	13	22.00	17.59	8.97	9.80	N		
	Meters	AC # 7	MOD	12	12	3.40	1.42	3.40	2.78	N		
	Meters	AC # 8	MOD	16	15	15.30	17.45	11.77	9.76	N		
	Meters	AC # 9	MOD	6	6	0.00	0.00	0.00	0.00	NA		
	Meters	AC # 1	High	12	12	0.00	0.00	0.00	0.00	NA	2.9743	0.905
	Meters	AC # 2	High	13	13	0.00	0.00	0.00	0.00	NA		
	Meters	AC # 3	High	15	15	0.00	0.00	0.00	0.00	NA		
	Meters	AC # 4	High	11	11	33.40	7.49	10.05	8.14	Y		
	Meters	AC # 5	High	12	12	0.00	0.00	0.00	0.00	NA		
	Meters	AC # 6	High	13	13	5.00	3.28	4.42	5.39	N		
	Meters	AC # 7	High	12	12	0.00	0.17	0.55	1.21	N		
	Meters	AC # 8	High	16	15	3.30	2.65	2.87	4.84	N		
	Meters	AC # 9	High	6	6	0.00	0.00	0.00	0.00	NA		
	Meters	AC # 1	TOTAL	12	12	0.00	0.00	0.00	0.00	NA	1.8485	0.720
	Meters	AC # 2	TOTAL	13	13	0.00	0.18	0.34	0.79	N		
	Meters	AC # 3	TOTAL	15	15	16.00	15.83	8.57	7.35	N		
	Meters	AC # 4	TOTAL	11	11	46.40	36.56	13.50	11.18	N		
	Meters	AC # 5	TOTAL	12	12	36.00	41.06	5.16	11.84	N		
	Meters	AC # 6	TOTAL	13	13	36.00	27.81	10.64	9.75	Y		
	Meters	AC # 7	TOTAL	12	12	7.70	8.24	5.25	5.31	N		
	Meters	AC # 8	TOTAL	16	15	21.90	31.17	14.01	10.32	Y		
	Meters	AC # 9	TOTAL	6	6	2.00	1.20	1.10	2.02	N		

Table 1. Results of Bias Analysis Based on Square Root Transformation for AC Pavements (Continued).

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINA	OUTLIER							
Longitudinal Cracking NWP	Meters	AC # 1	LOW	12	12	22.10	34.24	8.73	26.71	N	4.5653	0.478
	Meters	AC # 2	LOW	13	13	22.10	30.14	9.20	25.06	N		
	Meters	AC # 3	LOW	15	14	0.00	4.02	2.54	9.16	N		
	Meters	AC # 4	LOW	11	11	22.60	27.12	5.53	23.77	N		
	Meters	AC # 5	LOW	12	12	23.10	28.78	3.93	24.49	N		
	Meters	AC # 6	LOW	13	13	1.00	1.45	2.47	5.49	N		
	Meters	AC # 7	LOW	12	12	2.70	1.44	2.53	5.48	N		
	Meters	AC # 8	LOW	16	16	3.60	7.88	10.51	12.82	N		
	Meters	AC # 9	LOW	6	6	108.70	100.20	88.11	45.70	N		
	Meters	AC # 1	MOD	12	12	44.00	18.10	7.67	21.87	Y	5.1413	0.726
	Meters	AC # 2	MOD	13	13	44.00	19.75	6.91	22.85	Y		
	Meters	AC # 3	MOD	15	14	6.20	2.38	3.84	7.93	N		
	Meters	AC # 4	MOD	11	11	15.00	4.31	2.71	10.67	Y		
	Meters	AC # 5	MOD	12	12	8.30	4.19	4.58	10.53	N		
	Meters	AC # 6	MOD	13	13	3.00	5.28	6.69	11.81	N		
	Meters	AC # 7	MOD	12	12	21.20	15.87	10.08	20.48	N		
	Meters	AC # 8	MOD	16	16	17.00	40.44	21.86	32.70	N		
	Meters	AC # 9	MOD	6	6	163.00	129.03	83.78	58.40	N		
	Meters	AC # 1	High	12	12	23.00	38.77	9.72	14.62	Y	2.3484	0.822
	Meters	AC # 2	High	13	13	23.00	32.05	11.14	13.30	N		
	Meters	AC # 3	High	15	14	0.00	0.00	0.00	0.00	NA		
	Meters	AC # 4	High	11	11	1.50	0.69	1.09	1.95	N		
	Meters	AC # 5	High	12	12	0.00	0.00	0.00	0.00	NA		
	Meters	AC # 6	High	13	13	13.00	13.30	5.51	8.56	N		
	Meters	AC # 7	High	12	12	0.00	2.66	5.42	3.83	N		
	Meters	AC # 8	High	16	16	37.60	9.63	10.34	7.29	Y		
	Meters	AC # 9	High	6	6	49.00	60.65	23.74	18.29	N		
	Meters	AC # 1	TOTAL	12	12	89.10	91.11	10.68	22.85	N	2.3935	0.627
	Meters	AC # 2	TOTAL	13	13	89.10	81.94	7.14	21.67	N		
	Meters	AC # 3	TOTAL	15	14	6.20	6.40	4.09	6.06	N		
	Meters	AC # 4	TOTAL	11	11	39.10	32.12	5.34	13.56	N		
	Meters	AC # 5	TOTAL	12	12	31.40	32.98	5.79	13.74	N		
	Meters	AC # 6	TOTAL	13	13	17.00	20.02	5.04	10.71	N		
	Meters	AC # 7	TOTAL	12	12	23.90	19.97	9.76	10.69	N		
	Meters	AC # 8	TOTAL	16	16	58.20	57.95	14.87	18.22	N		
	Meters	AC # 9	TOTAL	6	6	320.70	289.88	64.24	40.75	N		

Table 1. Results of Bias Analysis Based on Square Root Transformation for AC Pavements (Continued).

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINA	OUTLIER							
Transverse Cracking	Meters	AC # 1	LOW	12	12	21.80	32.76	4.16	6.66	Y	1.1634	0.606
	Meters	AC # 2	LOW	13	13	21.80	33.45	7.26	6.73	Y		
	Meters	AC # 3	LOW	15	13	1.40	2.59	2.05	1.87	N		
	Meters	AC # 4	LOW	11	11	4.40	4.05	1.88	2.34	N		
	Meters	AC # 5	LOW	12	12	2.40	3.52	2.31	2.18	N		
	Meters	AC # 6	LOW	13	13	2.00	1.72	1.66	1.52	N		
	Meters	AC # 7	LOW	12	12	15.40	12.65	5.51	4.14	N		
	Meters	AC # 8	LOW	16	16	1.50	7.02	5.41	3.08	Y		
	Meters	AC # 9	LOW	6	6	27.60	26.48	6.07	5.99	N		
	Meters	AC # 1	MOD	12	12	28.20	19.76	6.42	7.10	Y	1.5966	0.721
	Meters	AC # 2	MOD	13	13	28.20	16.95	5.64	6.57	Y		
	Meters	AC # 3	MOD	15	13	4.40	15.21	5.01	6.23	Y		
	Meters	AC # 4	MOD	11	11	1.80	11.79	4.36	5.48	Y		
	Meters	AC # 5	MOD	12	12	4.20	13.17	3.74	5.79	Y		
	Meters	AC # 6	MOD	13	13	11.00	9.30	4.88	4.87	N		
	Meters	AC # 7	MOD	12	12	38.30	32.06	9.87	9.04	N		
	Meters	AC # 8	MOD	16	16	22.10	30.71	12.45	8.85	Y		
	Meters	AC # 9	MOD	6	6	3.70	3.70	2.14	3.07	N		
	Meters	AC # 1	High	12	12	24.60	28.85	6.12	9.37	N	1.7452	0.447
	Meters	AC # 2	High	13	13	24.60	25.98	8.42	8.90	N		
	Meters	AC # 3	High	15	13	11.10	4.11	5.62	3.54	Y		
	Meters	AC # 4	High	11	11	20.90	8.89	4.57	5.20	Y		
	Meters	AC # 5	High	12	12	11.60	2.03	3.35	2.49	Y		
	Meters	AC # 6	High	13	13	19.00	21.92	4.82	8.17	N		
	Meters	AC # 7	High	12	12	10.30	12.08	8.62	6.07	N		
	Meters	AC # 8	High	16	16	36.30	20.61	13.02	7.92	Y		
	Meters	AC # 9	High	6	6	0.00	0.00	0.00	0.00	NA		
	Meters	AC # 1	TOTAL	12	12	74.60	81.36	5.08	6.06	Y	0.6716	0.655
	Meters	AC # 2	TOTAL	13	13	74.60	76.37	7.53	5.87	N		
	Meters	AC # 3	TOTAL	15	13	16.90	21.91	1.80	3.14	Y		
	Meters	AC # 4	TOTAL	11	11	27.10	24.74	2.91	3.34	N		
	Meters	AC # 5	TOTAL	12	12	18.20	18.72	2.04	2.91	N		
	Meters	AC # 6	TOTAL	13	13	32.00	32.93	2.39	3.85	N		
	Meters	AC # 7	TOTAL	12	12	64.00	56.79	6.39	5.06	Y		
	Meters	AC # 8	TOTAL	16	16	59.90	58.33	5.04	5.13	N		
	Meters	AC # 9	TOTAL	6	6	31.30	30.18	4.70	3.69	N		

Table 1. Results of Bias Analysis Based on Square Root Transformation for AC Pavements (Continued).

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINA	OUTLIER							
Transverse Cracking	No.	AC # 1	LOW	12	12	25.00	31.33	4.53	5.60	Y	1.0002	0.730
	No.	AC # 2	LOW	13	13	25.00	30.54	5.81	5.53	Y		
	No.	AC # 3	LOW	15	14	1.00	3.43	2.56	1.85	Y		
	No.	AC # 4	LOW	11	11	10.00	6.91	1.73	2.63	Y		
	No.	AC # 5	LOW	12	12	2.00	3.00	1.35	1.73	N		
	No.	AC # 6	LOW	13	13	3.00	1.85	1.17	1.36	Y		
	No.	AC # 7	LOW	12	12	12.00	9.67	2.66	3.11	N		
	No.	AC # 8	LOW	16	16	2.00	6.31	3.57	2.51	Y		
	No.	AC # 9	LOW	6	6	15.00	12.83	5.01	3.58	N		
	No.	AC # 1	MOD	12	12	20.00	10.42	3.57	3.31	Y	1.0260	0.728
	No.	AC # 2	MOD	13	13	20.00	9.15	3.94	3.10	Y		
	No.	AC # 3	MOD	15	14	2.00	6.64	1.99	2.64	Y		
	No.	AC # 4	MOD	11	11	3.00	6.00	2.09	2.51	Y		
	No.	AC # 5	MOD	12	12	2.00	5.50	1.94	2.41	Y		
	No.	AC # 6	MOD	13	13	5.00	4.46	1.91	2.17	N		
	No.	AC # 7	MOD	12	12	12.00	9.67	2.43	3.19	N		
	No.	AC # 8	MOD	16	16	10.00	13.13	4.78	3.72	Y		
	No.	AC # 9	MOD	6	6	1.00	1.00	0.58	1.03	N		
	No.	AC # 1	High	12	12	11.00	13.25	4.15	4.33	N	1.1900	0.584
	No.	AC # 2	High	13	13	11.00	11.54	3.23	4.04	N		
	No.	AC # 3	High	15	14	7.00	1.71	2.19	1.56	Y		
	No.	AC # 4	High	11	11	11.00	4.64	2.10	2.56	Y		
	No.	AC # 5	High	12	12	4.00	0.75	1.16	1.03	Y		
	No.	AC # 6	High	13	13	7.00	7.54	1.74	3.27	N		
	No.	AC # 7	High	12	12	3.00	4.00	3.32	2.38	N		
	No.	AC # 8	High	16	16	14.00	7.94	5.43	3.35	Y		
	No.	AC # 9	High	6	6	0.00	0.00	0.00	0.00	NA		
	No.	AC # 1	TOTAL	12	12	56.00	55.00	5.96	5.81	N	0.7830	0.544
	No.	AC # 2	TOTAL	13	13	56.00	51.23	6.12	5.60	Y		
	No.	AC # 3	TOTAL	15	14	10.00	11.79	2.51	2.69	N		
	No.	AC # 4	TOTAL	11	11	24.00	17.55	1.44	3.28	Y		
	No.	AC # 5	TOTAL	12	12	8.00	9.25	1.83	2.38	N		
	No.	AC # 6	TOTAL	13	13	15.00	13.85	1.70	2.91	N		
	No.	AC # 7	TOTAL	12	12	27.00	23.33	2.78	3.78	Y		
	No.	AC # 8	TOTAL	16	16	26.00	27.38	5.05	4.10	N		
	No.	AC # 9	TOTAL	6	6	16.00	13.83	5.49	2.91	N		

Table 2. Results of Bias Analysis Based on Square Root Transformation for PCC Pavements.

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINAL	OUTLIER							
Corner Breaks	Number	PCC # 1	LOW	12	12	2.00	2.75	1.88	1.47	N	0.8859	0.824
	Number	PCC # 2	LOW	14	14	2.00	3.21	1.01	1.59	N		
	Number	PCC # 3	LOW	14	13	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 4	LOW	11	11	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 5	LOW	12	12	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 6	LOW	13	13	0.00	0.46	0.93	0.60	N		
	Number	PCC # 7	LOW	11	11	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 8	LOW	16	16	0.00	0.44	0.79	0.59	N		
	Number	PCC # 9	LOW	6	6	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 1	MOD	12	12	7.00	5.83	2.07	1.90	N	0.7878	0.986
	Number	PCC # 2	MOD	14	14	7.00	4.93	1.67	1.75	Y		
	Number	PCC # 3	MOD	14	13	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 4	MOD	11	11	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 5	MOD	12	12	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 6	MOD	13	13	6.00	4.23	1.72	1.62	Y		
	Number	PCC # 7	MOD	11	11	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 8	MOD	16	16	5.00	3.94	1.34	1.56	N		
	Number	PCC # 9	MOD	6	6	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 1	High	12	12	0.00	0.25	0.60	0.42	N	0.8356	0.341
	Number	PCC # 2	High	14	14	0.00	0.93	1.91	0.81	Y		
	Number	PCC # 3	High	14	13	2.00	0.92	0.62	0.80	Y		
	Number	PCC # 4	High	11	11	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 5	High	12	12	3.00	2.42	0.64	1.30	N		
	Number	PCC # 6	High	13	13	1.00	1.54	1.34	1.04	N		
	Number	PCC # 7	High	11	11	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 8	High	16	16	0.00	0.44	0.61	0.55	Y		
	Number	PCC # 9	High	6	6	1.00	0.83	0.37	0.76	N		
	Number	PCC # 1	TOTAL	12	12	9.00	8.83	1.21	1.14	N	0.3834	0.792
	Number	PCC # 2	TOTAL	14	14	9.00	9.07	0.70	1.15	N		
	Number	PCC # 3	TOTAL	14	13	2.00	0.92	0.62	0.37	Y		
	Number	PCC # 4	TOTAL	11	11	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 5	TOTAL	12	12	3.00	2.42	0.64	0.60	Y		
	Number	PCC # 6	TOTAL	13	13	7.00	6.23	1.19	0.96	N		
	Number	PCC # 7	TOTAL	11	11	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 8	TOTAL	16	16	5.00	4.81	0.95	0.84	N		
	Number	PCC # 9	TOTAL	6	6	0.00	0.83	0.37	0.35	Y		

Table 2. Results of Bias Analysis Based on Square Root Transformation for PCC Pavements (Continued).

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINAL	OUTLIER							
Longitudinal Cracking	Meters	PCC # 1	LOW	12	12	11.30	11.74	1.08	2.69	N	0.7838	0.659
	Meters	PCC # 2	LOW	14	13	11.30	12.00	3.74	2.72	N		
	Meters	PCC # 3	LOW	14	14	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 4	LOW	11	11	0.00	0.09	0.12	0.24	N		
	Meters	PCC # 5	LOW	12	12	0.00	0.63	0.54	0.62	Y		
	Meters	PCC # 6	LOW	13	13	5.90	2.98	2.35	1.35	Y		
	Meters	PCC # 7	LOW	11	11	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 8	LOW	16	15	3.80	3.48	1.64	1.46	N		
	Meters	PCC # 9	LOW	6	6	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 1	MOD	12	12	4.50	3.59	1.44	1.92	N	1.0115	0.984
	Meters	PCC # 2	MOD	14	13	4.50	3.60	1.89	1.92	N		
	Meters	PCC # 3	MOD	14	14	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 4	MOD	11	11	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 5	MOD	12	12	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 6	MOD	13	13	11.30	12.09	3.73	3.52	N		
	Meters	PCC # 7	MOD	11	11	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 8	MOD	16	15	8.30	8.20	2.97	2.90	N		
	Meters	PCC # 9	MOD	6	6	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 1	High	12	12	3.00	0.32	1.05	0.81	Y	1.4349	0.971
	Meters	PCC # 2	High	14	13	3.00	0.98	1.13	1.42	Y		
	Meters	PCC # 3	High	14	14	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 4	High	11	11	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 5	High	12	12	0.00	0.17	0.55	0.59	N		
	Meters	PCC # 6	High	13	13	1.00	2.65	2.42	2.33	N		
	Meters	PCC # 7	High	11	11	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 8	High	16	15	0.00	0.33	0.87	0.83	N		
	Meters	PCC # 9	High	6	6	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 1	TOTAL	12	12	18.80	15.65	1.09	2.72	Y	0.6873	0.801
	Meters	PCC # 2	TOTAL	14	13	18.80	16.58	3.62	2.80	N		
	Meters	PCC # 3	TOTAL	14	14	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 4	TOTAL	11	11	0.00	0.09	0.12	0.21	N		
	Meters	PCC # 5	TOTAL	12	12	0.00	0.79	0.74	0.61	Y		
	Meters	PCC # 6	TOTAL	13	13	18.20	17.72	3.38	2.89	N		
	Meters	PCC # 7	TOTAL	11	11	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 8	TOTAL	16	15	12.10	12.01	2.65	2.38	N		
	Meters	PCC # 9	TOTAL	6	6	0.00	0.00	0.00	0.00	NA		

Table 2. Results of Bias Analysis Based on Square Root Transformation for PCC Pavements (Continued).

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINAL	OUTLIER							
Transverse Cracking	Meters	PCC # 1	LOW	12	12	0.00	2.50	1.77	3.00	N	1.8986	0.521
	Meters	PCC # 2	LOW	14	13	0.00	3.79	1.97	3.70	Y		
	Meters	PCC # 3	LOW	14	13	5.00	3.10	0.70	3.34	N		
	Meters	PCC # 4	LOW	11	11	30.00	10.10	4.90	6.03	Y		
	Meters	PCC # 5	LOW	12	12	11.80	14.95	4.48	7.34	N		
	Meters	PCC # 6	LOW	13	13	2.30	3.48	1.90	3.54	N		
	Meters	PCC # 7	LOW	11	10	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 8	LOW	16	16	3.00	6.27	3.41	4.75	N		
	Meters	PCC # 9	LOW	6	6	9.60	17.12	15.35	7.85	N		
	Meters	PCC # 1	MOD	12	12	3.70	3.70	3.70	2.28	N	1.1835	0.496
	Meters	PCC # 2	MOD	14	13	3.70	1.42	3.09	1.41	Y		
	Meters	PCC # 3	MOD	14	13	0.00	0.28	0.96	0.62	N		
	Meters	PCC # 4	MOD	11	11	14.00	35.64	5.34	7.07	Y		
	Meters	PCC # 5	MOD	12	12	25.90	22.46	3.20	5.61	N		
	Meters	PCC # 6	MOD	13	13	7.80	7.98	2.63	3.34	N		
	Meters	PCC # 7	MOD	11	10	0.00	0.76	1.52	1.03	N		
	Meters	PCC # 8	MOD	16	16	9.10	7.61	2.79	3.27	N		
	Meters	PCC # 9	MOD	6	6	39.30	27.82	9.98	6.24	Y		
	Meters	PCC # 1	High	12	12	7.40	4.75	3.95	3.21	N	1.4740	0.725
	Meters	PCC # 2	High	14	13	7.40	6.22	2.65	3.67	N		
	Meters	PCC # 3	High	14	13	3.70	6.11	1.68	3.64	N		
	Meters	PCC # 4	High	11	11	0.60	0.67	2.13	1.21	N		
	Meters	PCC # 5	High	12	12	0.00	2.21	2.48	2.19	Y		
	Meters	PCC # 6	High	13	13	6.10	3.85	3.40	2.89	N		
	Meters	PCC # 7	High	11	10	7.40	6.48	1.42	3.75	N		
	Meters	PCC # 8	High	16	16	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 9	High	6	6	25.20	26.17	9.41	7.54	N		
	Meters	PCC # 1	TOTAL	12	12	11.10	10.95	2.09	1.82	N	0.5500	0.772
	Meters	PCC # 2	TOTAL	14	13	11.10	11.42	1.90	1.86	N		
	Meters	PCC # 3	TOTAL	14	13	8.70	9.48	1.57	1.69	N		
	Meters	PCC # 4	TOTAL	11	11	44.60	46.41	3.53	3.75	N		
	Meters	PCC # 5	TOTAL	12	12	37.70	39.62	4.04	3.46	N		
	Meters	PCC # 6	TOTAL	13	13	16.20	15.30	1.85	2.15	N		
	Meters	PCC # 7	TOTAL	11	11	7.40	7.28	0.22	1.48	N		
	Meters	PCC # 8	TOTAL	16	15	12.10	13.32	3.04	2.01	N		
	Meters	PCC # 9	TOTAL	6	6	74.10	71.10	4.40	4.64	N		

Table 2. Results of Bias Analysis Based on Square Root Transformation for PCC Pavements (Continued).

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINAL	OUTLIER							
Transverse Cracking	Number	PCC # 1	LOW	12	12	0.00	0.75	0.60	0.92	N	1.0658	0.647
	Number	PCC # 2	LOW	14	14	0.00	2.00	1.41	1.51	Y		
	Number	PCC # 3	LOW	14	14	5.00	2.64	1.39	1.73	Y		
	Number	PCC # 4	LOW	11	11	12.00	7.00	2.56	2.82	Y		
	Number	PCC # 5	LOW	12	12	11.00	12.58	3.07	3.78	N		
	Number	PCC # 6	LOW	13	13	2.00	2.23	0.70	1.59	N		
	Number	PCC # 7	LOW	11	11	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 8	LOW	16	16	1.00	3.00	1.84	1.85	Y		
	Number	PCC # 9	LOW	6	6	5.00	6.50	4.89	2.72	N		
	Number	PCC # 1	MOD	12	12	1.00	1.08	0.95	0.80	N	0.7727	0.629
	Number	PCC # 2	MOD	14	14	1.00	0.36	0.81	0.46	Y		
	Number	PCC # 3	MOD	14	14	0.00	0.07	0.26	0.21	N		
	Number	PCC # 4	MOD	11	11	4.00	12.18	2.44	2.70	Y		
	Number	PCC # 5	MOD	12	12	7.00	6.08	0.86	1.91	N		
	Number	PCC # 6	MOD	13	13	3.00	2.46	0.84	1.21	N		
	Number	PCC # 7	MOD	11	11	0.00	0.27	0.45	0.40	N		
	Number	PCC # 8	MOD	16	16	3.00	2.38	0.78	1.19	N		
	Number	PCC # 9	MOD	6	6	12.00	8.67	3.73	2.27	Y		
	Number	PCC # 1	High	12	12	2.00	1.17	0.90	0.89	Y	0.8264	0.696
	Number	PCC # 2	High	14	14	2.00	1.93	0.59	1.15	N		
	Number	PCC # 3	High	14	14	2.00	1.79	0.41	1.10	N		
	Number	PCC # 4	High	11	11	1.00	0.18	0.57	0.35	Y		
	Number	PCC # 5	High	12	12	0.00	0.58	0.64	0.63	Y		
	Number	PCC # 6	High	13	13	2.00	1.08	0.92	0.86	Y		
	Number	PCC # 7	High	11	11	2.00	1.73	0.45	1.09	N		
	Number	PCC # 8	High	16	16	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 9	High	6	6	7.00	7.67	3.14	2.29	N		
	Number	PCC # 1	TOTAL	12	12	3.00	3.00	0.41	1.05	N	0.6034	0.820
	Number	PCC # 2	TOTAL	14	14	3.00	4.29	1.10	1.25	Y		
	Number	PCC # 3	TOTAL	14	14	7.00	4.50	1.40	1.28	Y		
	Number	PCC # 4	TOTAL	11	11	17.00	19.36	2.80	2.66	N		
	Number	PCC # 5	TOTAL	12	12	18.00	19.25	3.17	2.65	N		
	Number	PCC # 6	TOTAL	13	13	7.00	5.77	1.25	1.45	Y		
	Number	PCC # 7	TOTAL	11	11	2.00	2.00	0.00	0.85	N		
	Number	PCC # 8	TOTAL	16	16	4.00	5.38	1.80	1.40	Y		
	Number	PCC # 9	TOTAL	6	6	24.00	22.83	2.67	2.88	N		

Table 2. Results of Bias Analysis Based on Square Root Transformation for PCC Pavements (Continued).

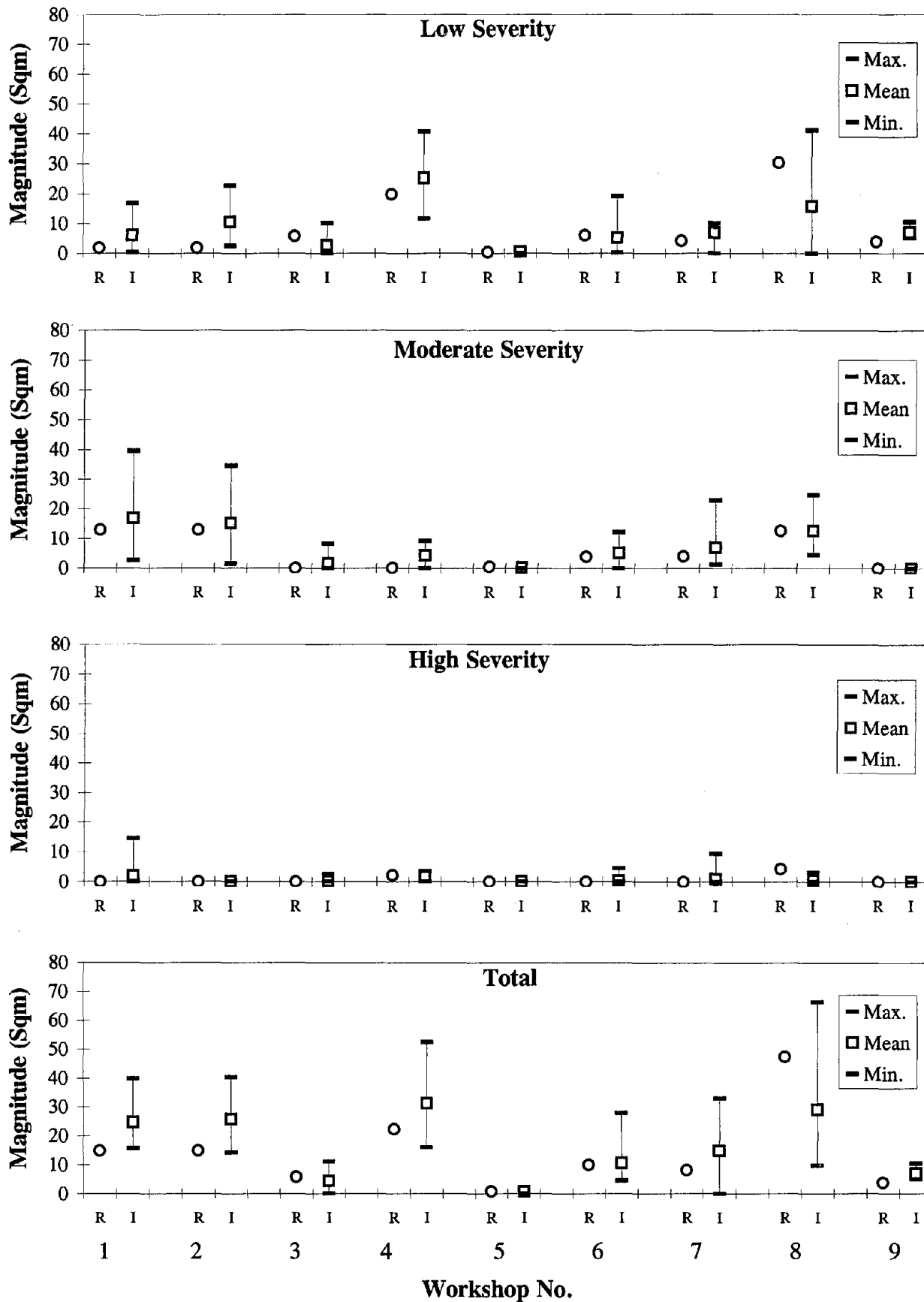
DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINAL	OUTLIER							
Spalling of Longitudinal Joints	Meters	PCC # 1	LOW	12	12	15.00	12.18	5.56	5.61	N	1.6076	0.923
	Meters	PCC # 2	LOW	14	14	15.00	9.14	4.24	4.86	Y		
	Meters	PCC # 3	LOW	14	14	3.50	2.79	2.70	2.69	N		
	Meters	PCC # 4	LOW	11	10	0.00	0.49	0.61	1.13	N		
	Meters	PCC # 5	LOW	12	11	1.30	0.86	1.44	1.49	N		
	Meters	PCC # 6	LOW	13	13	1.00	1.59	2.35	2.03	N		
	Meters	PCC # 7	LOW	11	10	0.60	0.35	0.34	0.95	N		
	Meters	PCC # 8	LOW	16	15	9.00	3.27	2.46	2.91	Y		
	Meters	PCC # 9	LOW	6	6	7.40	9.02	5.90	4.83	N		
	Meters	PCC # 1	MOD	12	12	0.00	1.65	1.77	1.48	Y	1.1529	0.899
	Meters	PCC # 2	MOD	14	14	0.00	0.79	1.05	1.03	N		
	Meters	PCC # 3	MOD	14	14	0.00	0.08	0.21	0.32	N		
	Meters	PCC # 4	MOD	11	10	0.00	0.07	0.16	0.31	N		
	Meters	PCC # 5	MOD	12	11	0.00	0.03	0.06	0.19	N		
	Meters	PCC # 6	MOD	13	13	0.50	0.28	0.64	0.61	N		
	Meters	PCC # 7	MOD	11	10	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 8	MOD	16	15	0.20	1.03	1.57	1.17	N		
	Meters	PCC # 9	MOD	6	6	6.20	3.45	1.75	2.14	Y		
	Meters	PCC # 1	High	12	12	0.00	0.18	0.28	1.08	N	2.5114	0.941
	Meters	PCC # 2	High	14	14	0.00	0.04	0.13	0.47	N		
	Meters	PCC # 3	High	14	14	0.00	0.04	0.13	0.47	N		
	Meters	PCC # 4	High	11	10	0.00	0.02	0.06	0.36	N		
	Meters	PCC # 5	High	12	11	0.00	0.07	0.23	0.68	N		
	Meters	PCC # 6	High	13	13	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 7	High	11	10	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 8	High	16	15	0.10	0.05	0.13	0.54	N		
	Meters	PCC # 9	High	6	6	0.00	4.03	5.40	5.04	N		
	Meters	PCC # 1	TOTAL	12	12	15.00	14.01	5.68	4.45	N	1.1895	0.734
	Meters	PCC # 2	TOTAL	14	14	15.00	9.96	4.43	3.75	Y		
	Meters	PCC # 3	TOTAL	14	14	3.50	2.91	2.70	2.03	N		
	Meters	PCC # 4	TOTAL	11	10	0.00	0.58	0.57	0.91	N		
	Meters	PCC # 5	TOTAL	12	11	1.30	0.96	1.40	1.17	N		
	Meters	PCC # 6	TOTAL	13	13	1.50	1.87	2.25	1.63	N		
	Meters	PCC # 7	TOTAL	11	10	0.60	0.35	0.34	0.70	N		
	Meters	PCC # 8	TOTAL	16	15	9.30	4.35	1.69	2.48	Y		
	Meters	PCC # 9	TOTAL	6	6	13.60	16.50	3.15	4.83	N		

Table 2. Results of Bias Analysis Based on Square Root Transformation for PCC Pavements (Continued).

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINAL	OUTLIER							
Spalling of Transverse Joints	Meters	PCC # 1	LOW	12	12	0.60	0.12	0.21	0.24	Y	0.6932	0.896
	Meters	PCC # 2	LOW	14	12	0.60	0.00	0.00	0.00	NA		
	Meters	PCC # 3	LOW	14	13	3.50	0.80	0.72	0.62	Y		
	Meters	PCC # 4	LOW	11	10	0.00	0.94	0.44	0.67	Y		
	Meters	PCC # 5	LOW	12	9	0.00	0.02	0.06	0.10	N		
	Meters	PCC # 6	LOW	13	13	0.90	0.85	0.72	0.64	N		
	Meters	PCC # 7	LOW	11	11	5.20	2.75	1.20	1.15	Y		
	Meters	PCC # 8	LOW	16	16	0.60	0.51	0.68	0.49	N		
	Meters	PCC # 9	LOW	6	6	0.30	1.45	0.71	0.83	Y		
	Meters	PCC # 1	MOD	12	12	0.00	0.00	0.00	0.00	NA	1.0296	0.955
	Meters	PCC # 2	MOD	14	12	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 3	MOD	14	13	0.00	0.44	0.77	0.68	N		
	Meters	PCC # 4	MOD	11	10	0.30	0.02	0.07	0.15	Y		
	Meters	PCC # 5	MOD	12	9	0.00	0.02	0.06	0.15	N		
	Meters	PCC # 6	MOD	13	13	0.20	0.30	0.40	0.56	N		
	Meters	PCC # 7	MOD	11	11	0.00	0.24	0.46	0.50	N		
	Meters	PCC # 8	MOD	16	16	1.00	0.84	0.99	0.95	N		
	Meters	PCC # 9	MOD	6	6	0.00	0.57	0.83	0.78	N		
	Meters	PCC # 1	High	12	12	0.00	0.00	0.00	0.00	NA	0.6259	0.312
	Meters	PCC # 2	High	14	12	0.00	0.00	0.00	0.00	NA		
	Meters	PCC # 3	High	14	13	0.00	0.47	1.02	0.43	Y		
	Meters	PCC # 4	High	11	10	0.00	0.06	0.09	0.15	N		
	Meters	PCC # 5	High	12	9	0.30	0.06	0.16	0.15	Y		
	Meters	PCC # 6	High	13	13	0.00	0.03	0.11	0.11	N		
	Meters	PCC # 7	High	11	11	0.00	0.28	0.89	0.33	N		
	Meters	PCC # 8	High	16	16	0.00	0.16	0.56	0.25	N		
	Meters	PCC # 9	High	6	6	1.70	3.73	0.79	1.21	Y		
	Meters	PCC # 1	TOTAL	12	12	0.60	0.12	0.21	0.22	Y	0.6448	0.788
	Meters	PCC # 2	TOTAL	14	12	0.60	0.00	0.00	0.00	NA		
	Meters	PCC # 3	TOTAL	14	13	3.50	1.71	0.83	0.84	Y		
	Meters	PCC # 4	TOTAL	11	10	0.30	1.02	0.46	0.65	Y		
	Meters	PCC # 5	TOTAL	12	9	0.30	0.10	0.16	0.20	N		
	Meters	PCC # 6	TOTAL	13	13	1.10	1.18	0.76	0.70	N		
	Meters	PCC # 7	TOTAL	11	10	5.20	2.70	0.97	1.06	Y		
	Meters	PCC # 8	TOTAL	16	16	1.60	1.51	1.39	0.79	N		
	Meters	PCC # 9	TOTAL	6	6	2.00	5.75	1.37	1.55	Y		

Table 2. Results of Bias Analysis Based on Square Root Transformation for PCC Pavements (Continued).

DISTRESS TYPE	UNIT	SECTION ID	DISTRESS SEVERITY	NO. OF RATERS		REF.	MEAN	STD DEV	DERIVED STD DEV.	BIAS	SLOPE CONST.	R ²
				ORIGINAL	OUTLIER							
Spalling of Transverse Joints	Number	PCC # 1	LOW	12	11	2.00	0.18	0.39	0.32	Y	0.7448	0.475
	Number	PCC # 2	LOW	14	12	2.00	0.00	0.00	0.00	NA		
	Number	PCC # 3	LOW	14	13	5.00	1.00	0.88	0.74	Y		
	Number	PCC # 4	LOW	11	11	0.00	2.82	1.70	1.25	Y		
	Number	PCC # 5	LOW	12	10	0.00	0.10	0.30	0.24	N		
	Number	PCC # 6	LOW	13	12	4.00	3.92	2.56	1.47	N		
	Number	PCC # 7	LOW	11	11	11.00	9.64	1.30	2.31	N		
	Number	PCC # 8	LOW	16	14	1.00	1.21	1.15	0.82	N		
	Number	PCC # 9	LOW	6	6	1.00	2.33	0.94	1.14	N		
	Number	PCC # 1	MOD	12	11	0.00	0.00	0.00	0.00	NA	1.3096	0.874
	Number	PCC # 2	MOD	14	12	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 3	MOD	14	13	0.00	0.62	0.84	1.03	N		
	Number	PCC # 4	MOD	11	11	1.00	0.09	0.29	0.39	Y		
	Number	PCC # 5	MOD	12	10	0.00	0.20	0.40	0.59	N		
	Number	PCC # 6	MOD	13	12	2.00	1.42	2.10	1.56	N		
	Number	PCC # 7	MOD	11	11	0.00	0.73	1.05	1.12	N		
	Number	PCC # 8	MOD	16	14	1.00	0.86	0.99	1.21	N		
	Number	PCC # 9	MOD	6	6	0.00	0.83	1.07	1.20	N		
	Number	PCC # 1	High	12	11	0.00	0.00	0.00	0.00	NA	0.9092	0.432
	Number	PCC # 2	High	14	12	0.00	0.00	0.00	0.00	NA		
	Number	PCC # 3	High	14	13	0.00	0.77	1.42	0.80	Y		
	Number	PCC # 4	High	11	11	0.00	0.36	0.48	0.55	N		
	Number	PCC # 5	High	11	9	1.00	0.11	0.31	0.30	Y		
	Number	PCC # 6	High	13	12	0.00	0.17	0.55	0.37	N		
	Number	PCC # 7	High	11	11	0.00	0.18	0.57	0.39	N		
	Number	PCC # 8	High	16	14	0.00	0.14	0.35	0.34	N		
	Number	PCC # 9	High	6	6	2.00	1.33	0.47	1.05	N		
	Number	PCC # 1	TOTAL	12	11	2.00	0.18	0.39	0.28	Y	0.6582	0.188
	Number	PCC # 2	TOTAL	14	12	2.00	0.00	0.00	0.00	NA		
	Number	PCC # 3	TOTAL	14	13	5.00	2.38	1.21	1.02	Y		
	Number	PCC # 4	TOTAL	11	11	1.00	3.27	1.91	1.19	Y		
	Number	PCC # 5	TOTAL	12	10	1.00	0.40	0.49	0.42	Y		
	Number	PCC # 6	TOTAL	13	12	6.00	5.50	2.81	1.54	N		
	Number	PCC # 7	TOTAL	11	11	11.00	10.55	0.66	2.14	N		
	Number	PCC # 8	TOTAL	16	14	2.00	2.21	1.70	0.98	N		
	Number	PCC # 9	TOTAL	6	6	3.00	4.50	0.96	1.40	N		



**Figure 1. Fatigue Cracking (Sq. Meters) - AC Pavements, Manual Surveys:
Reference and Individual Minimum, Mean, and Maximum Values.**

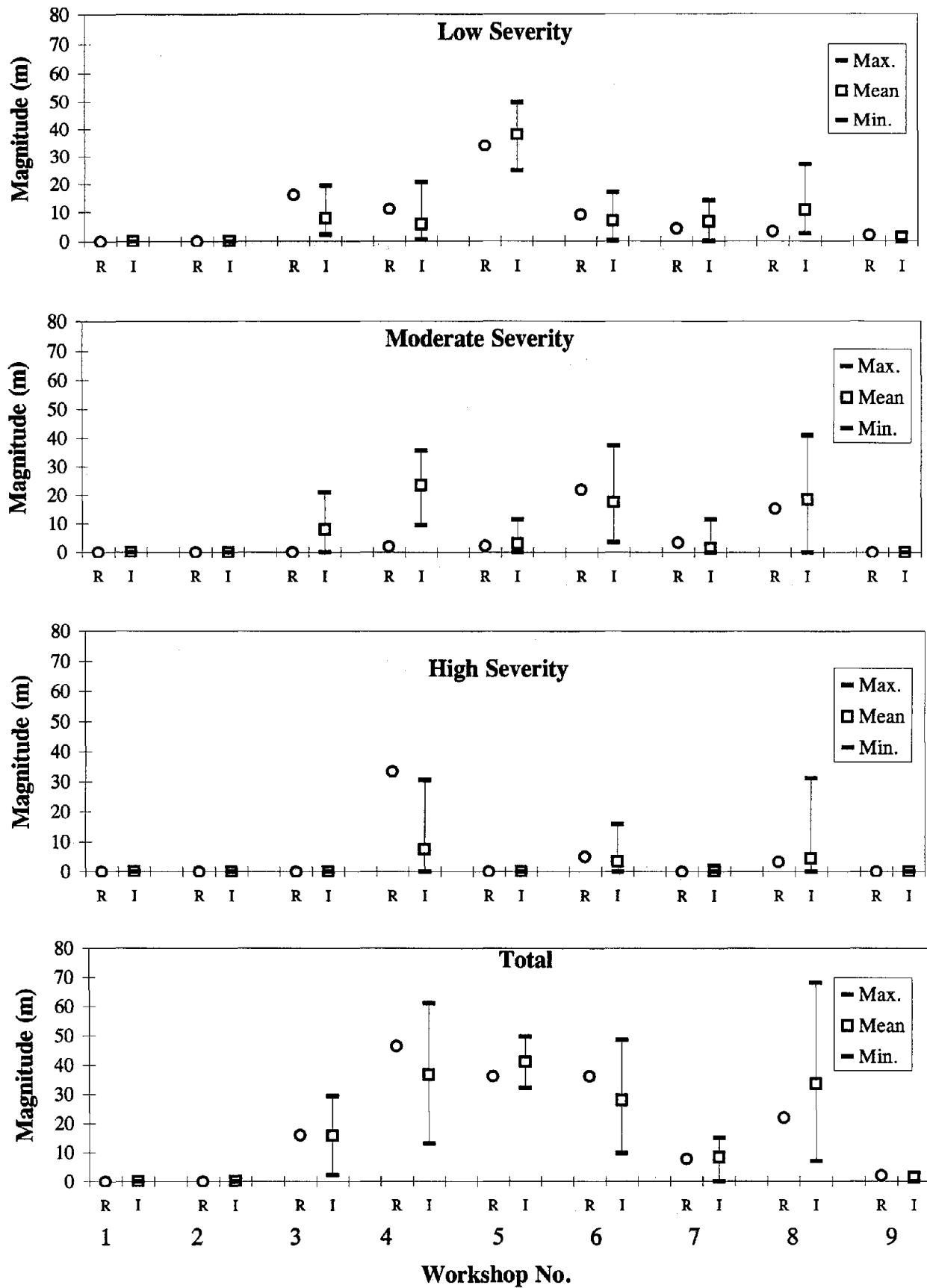


Figure 2. Longitudinal Cracking WP (Meters) - AC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

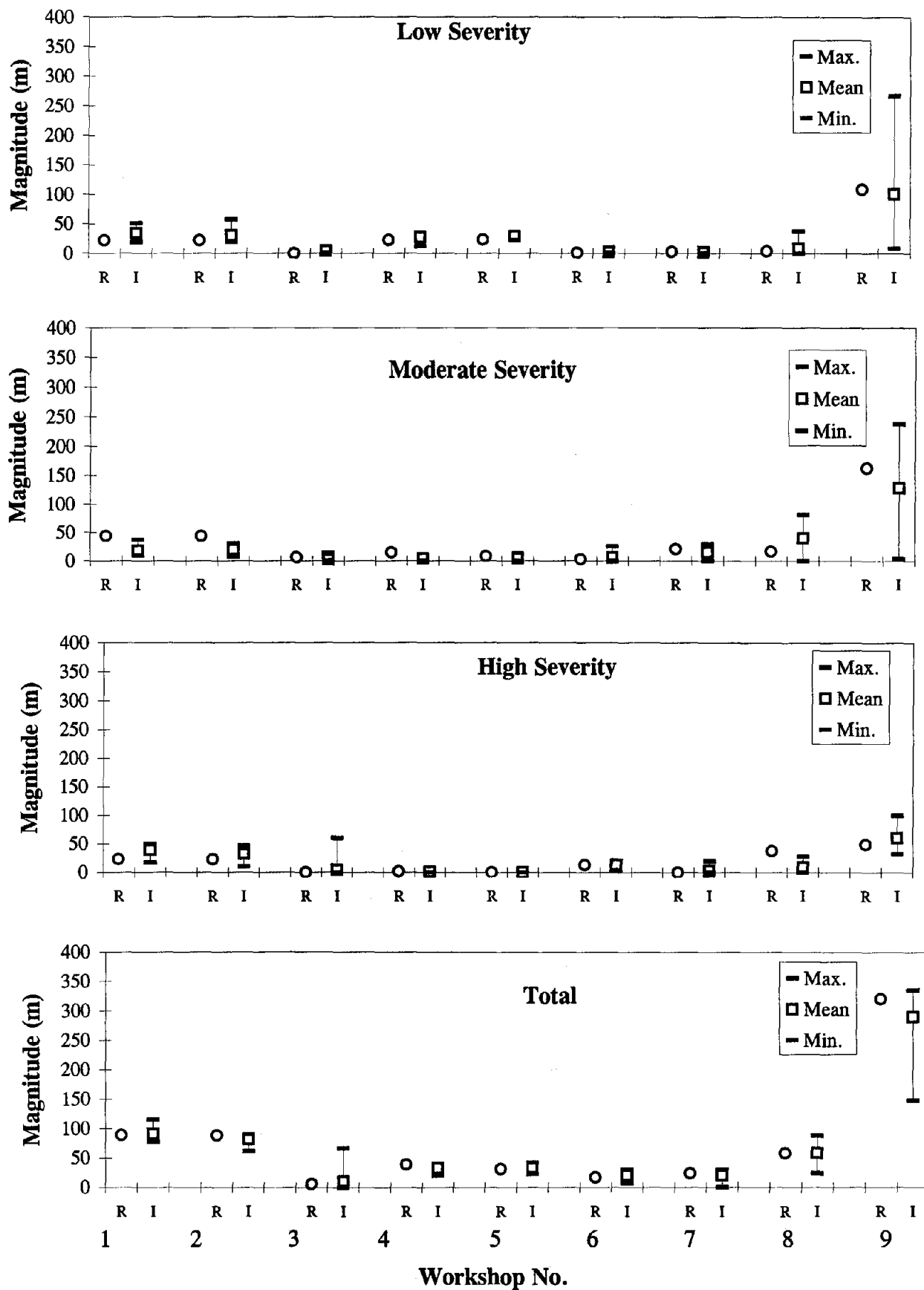


Figure 3. Longitudinal Cracking NWP (Meters) - AC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

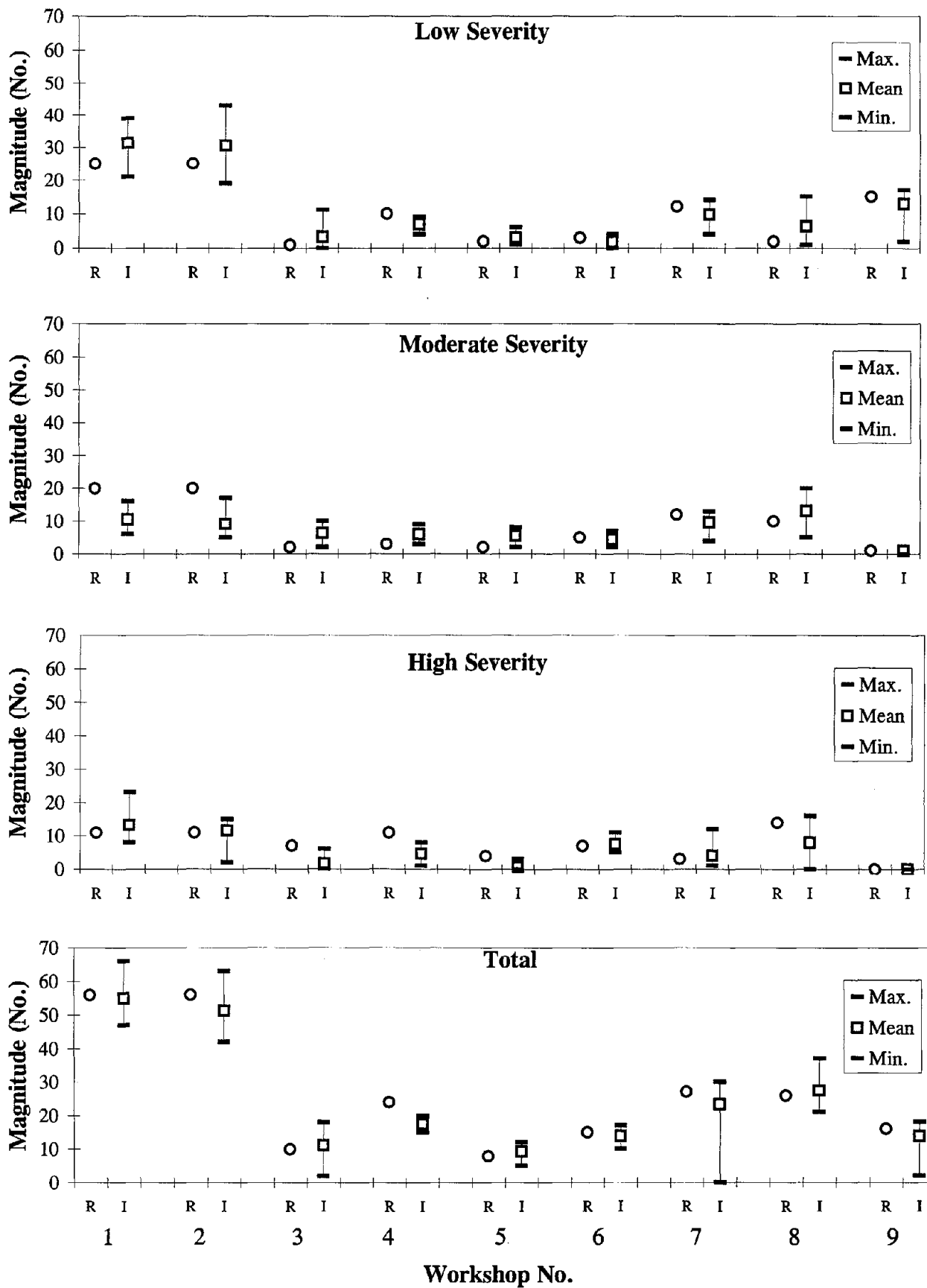


Figure 4. Transverse Cracking (No.) - AC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

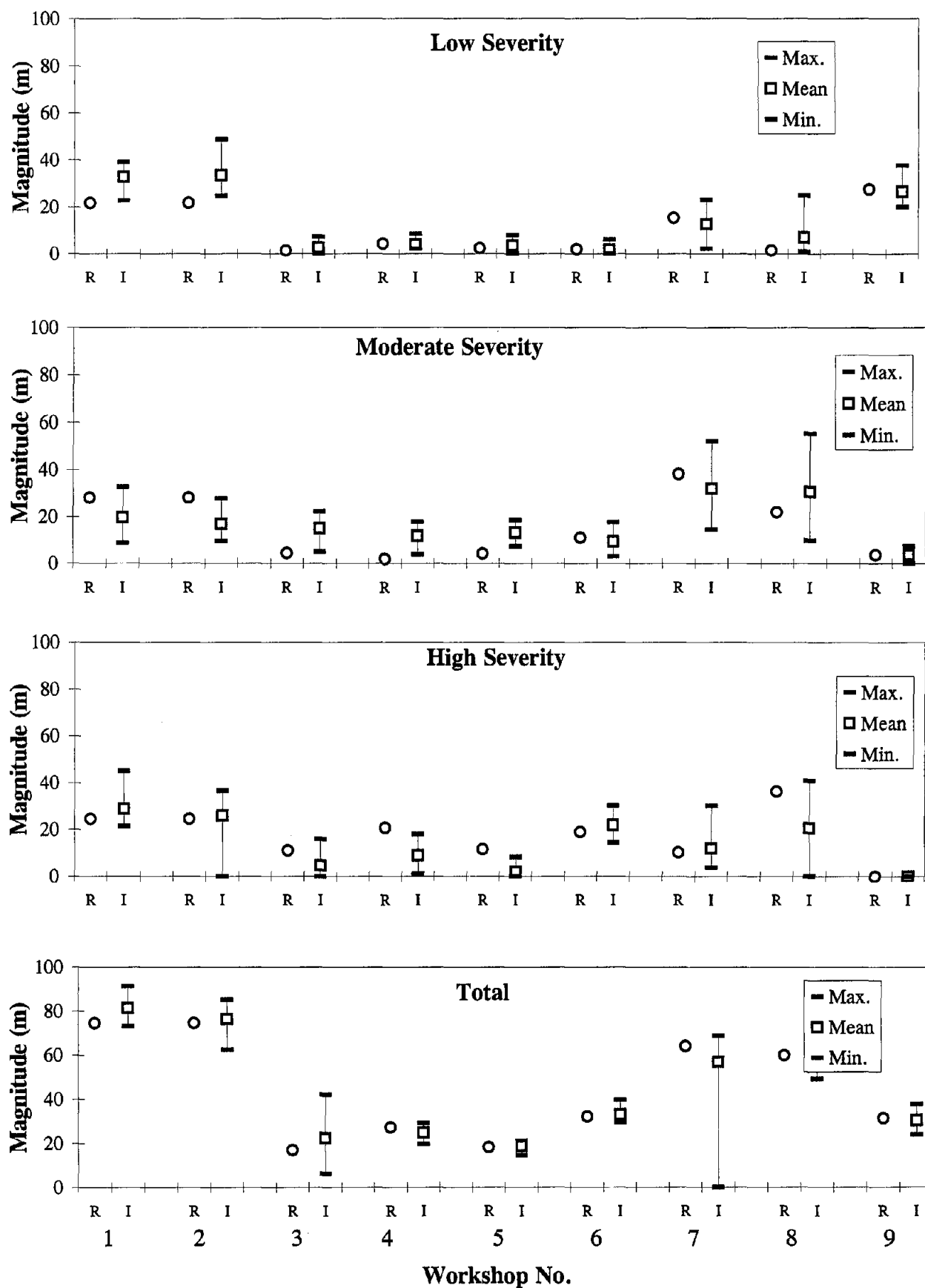


Figure 5. Transverse Cracking (Meters) - AC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

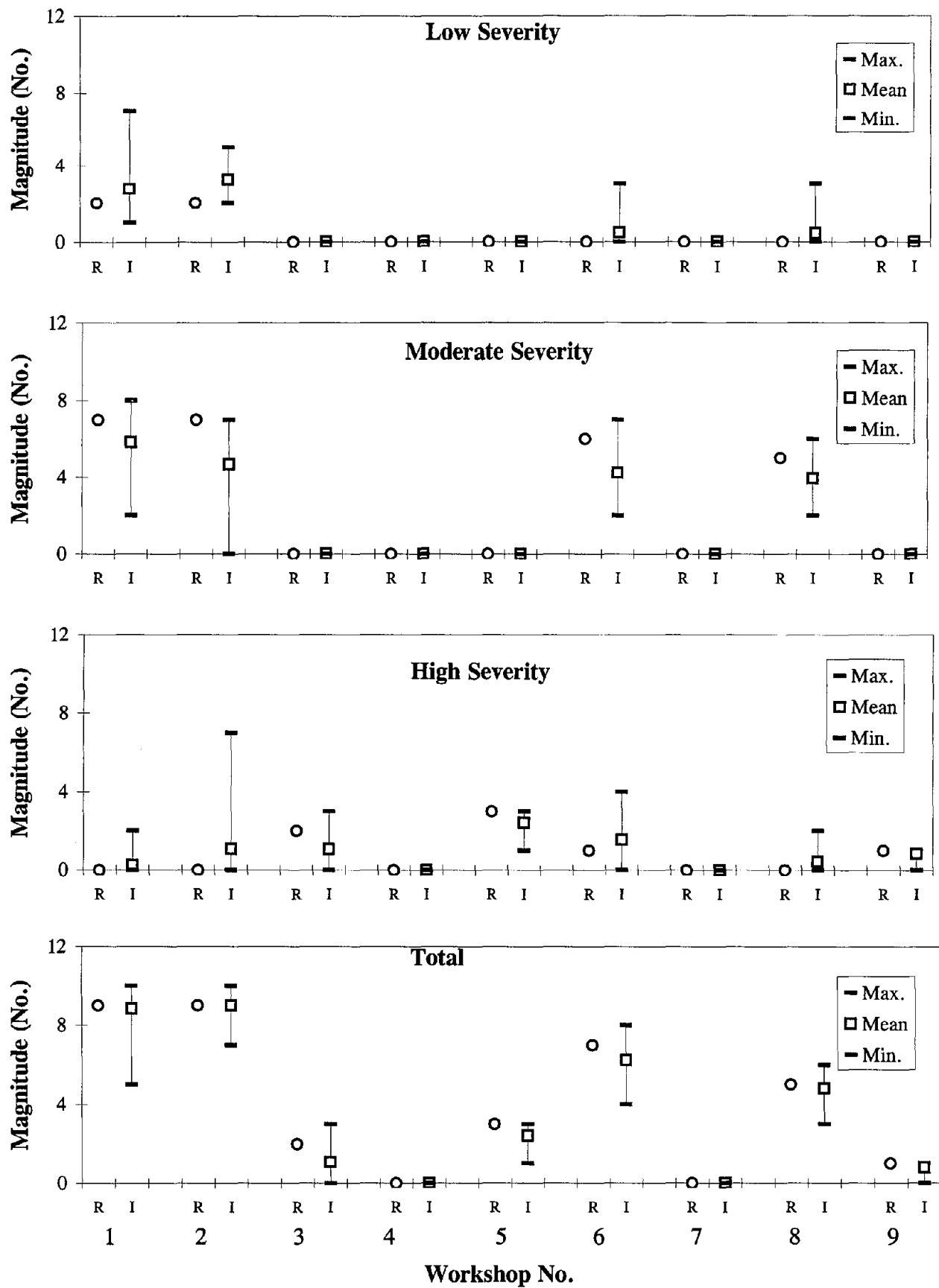


Figure 6. Corner Breaks (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

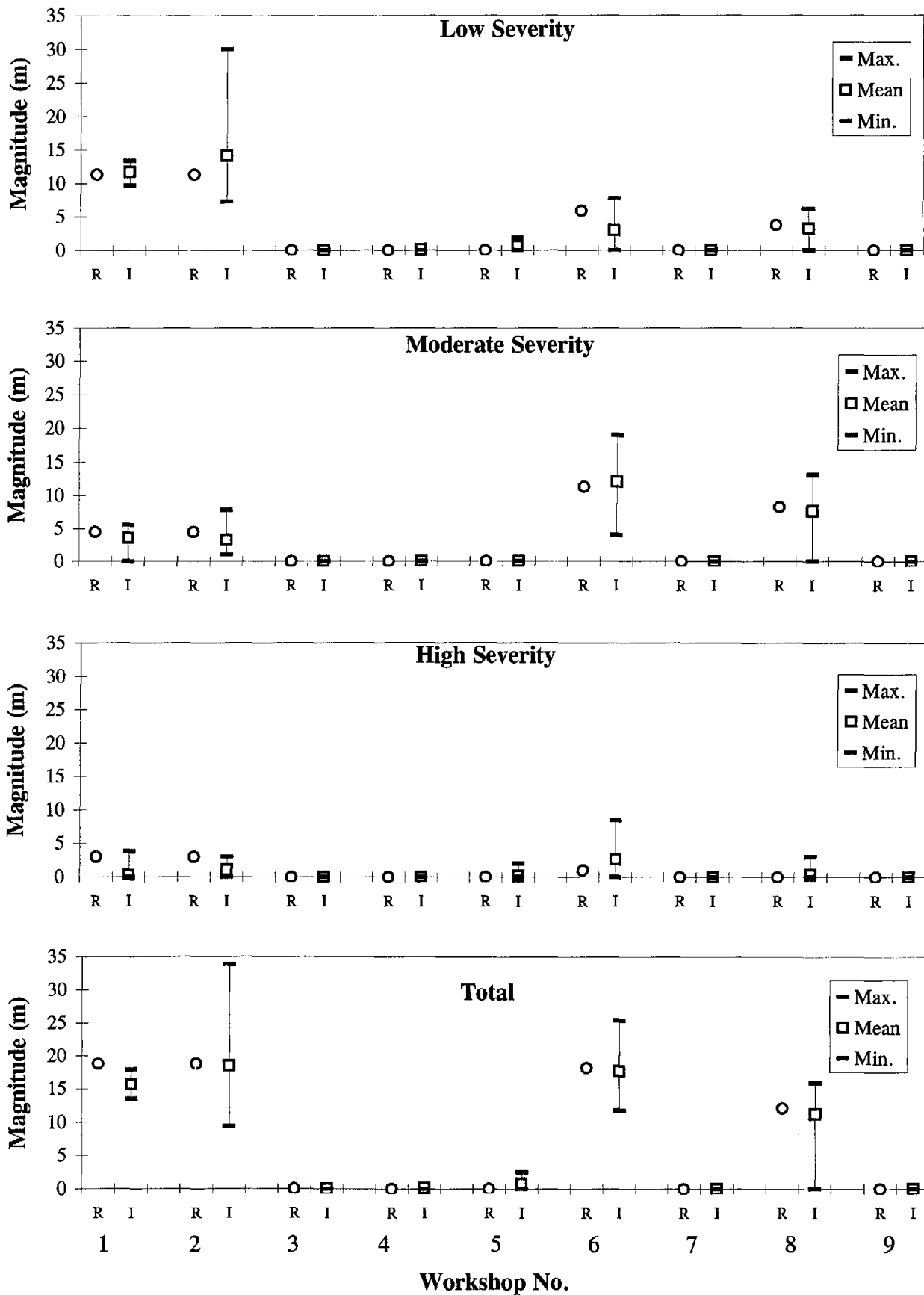


Figure 7. Longitudinal Cracking (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

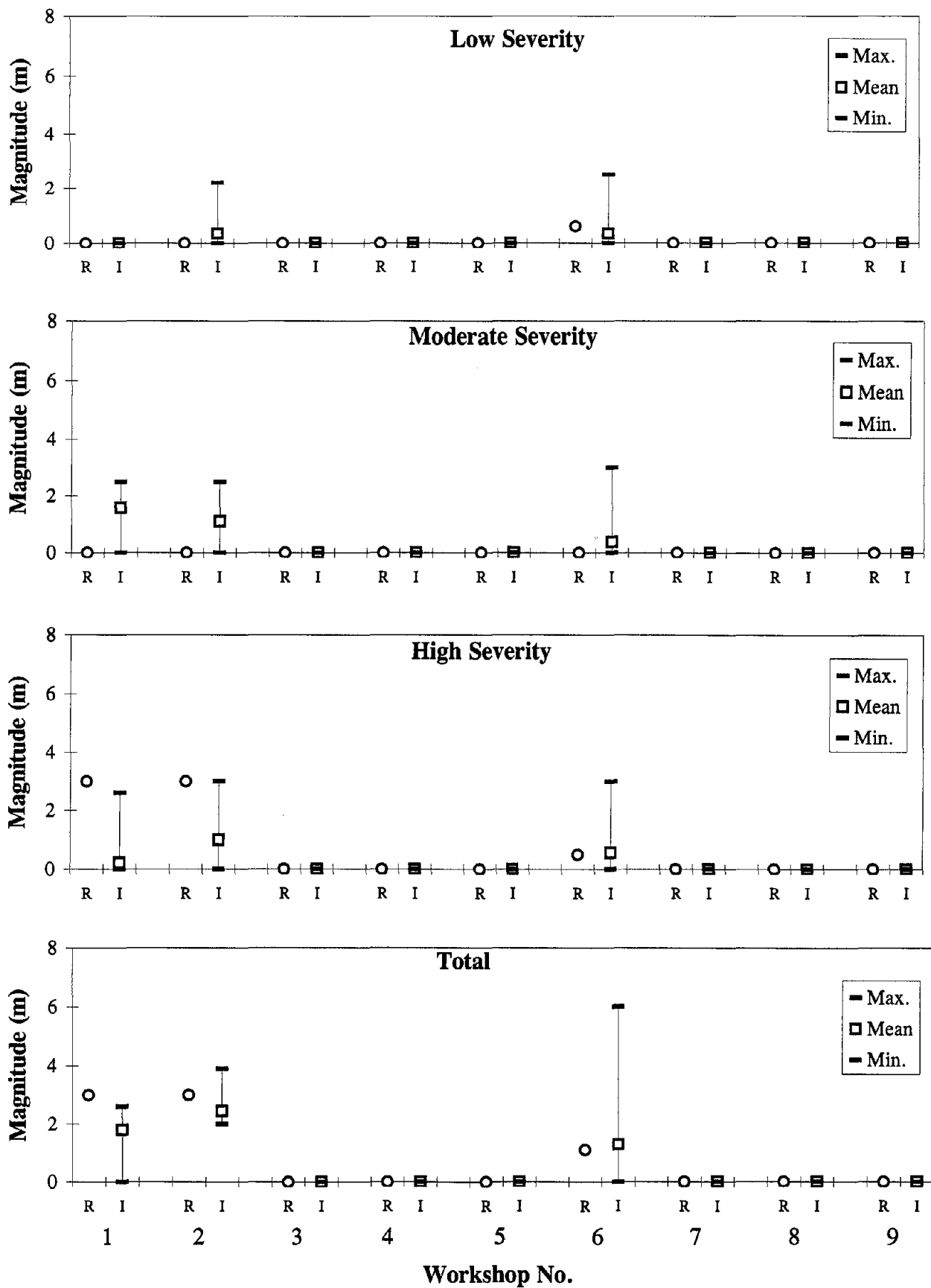


Figure 8. Longitudinal Cracking Sealed (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

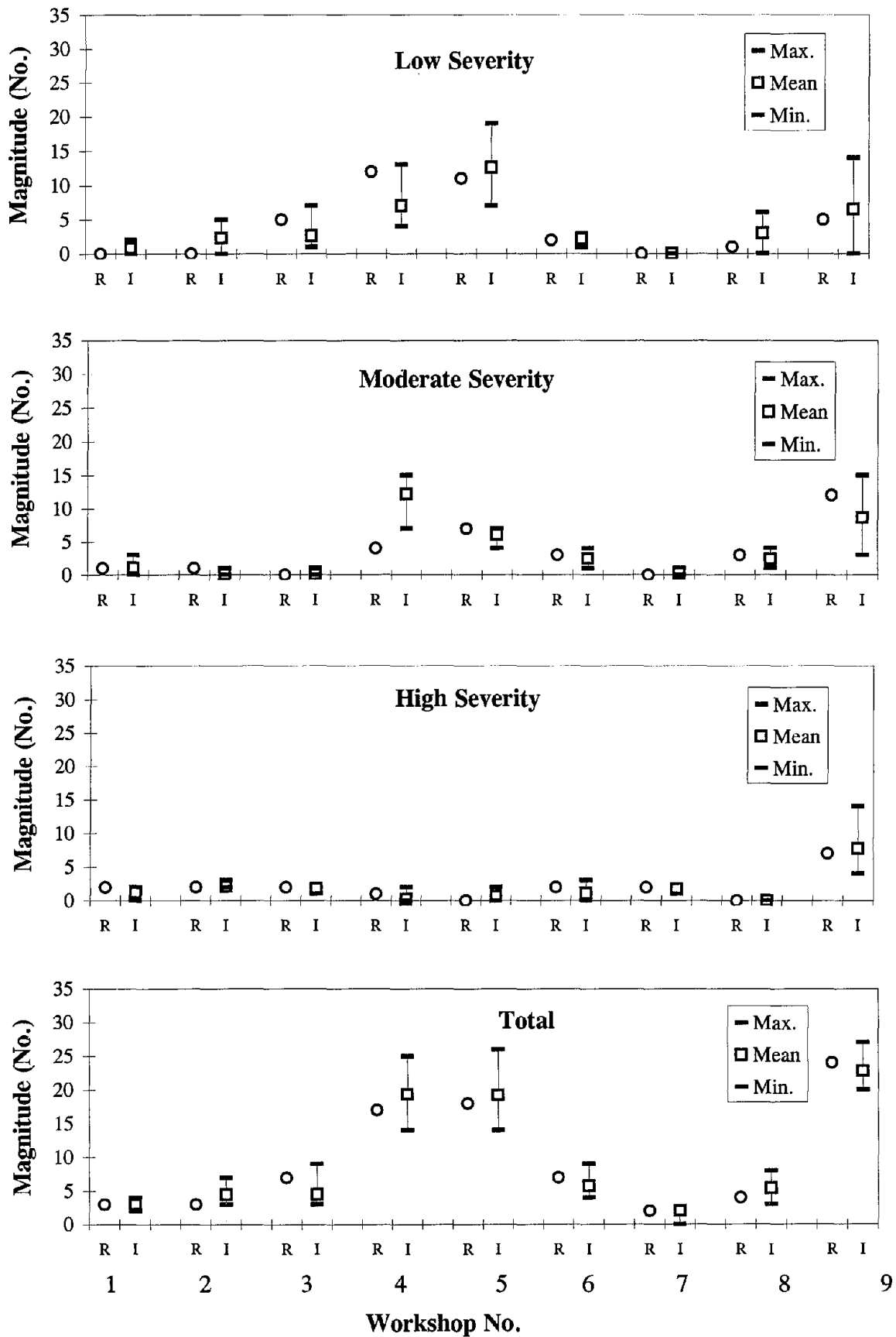


Figure 9. Transverse Cracking (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

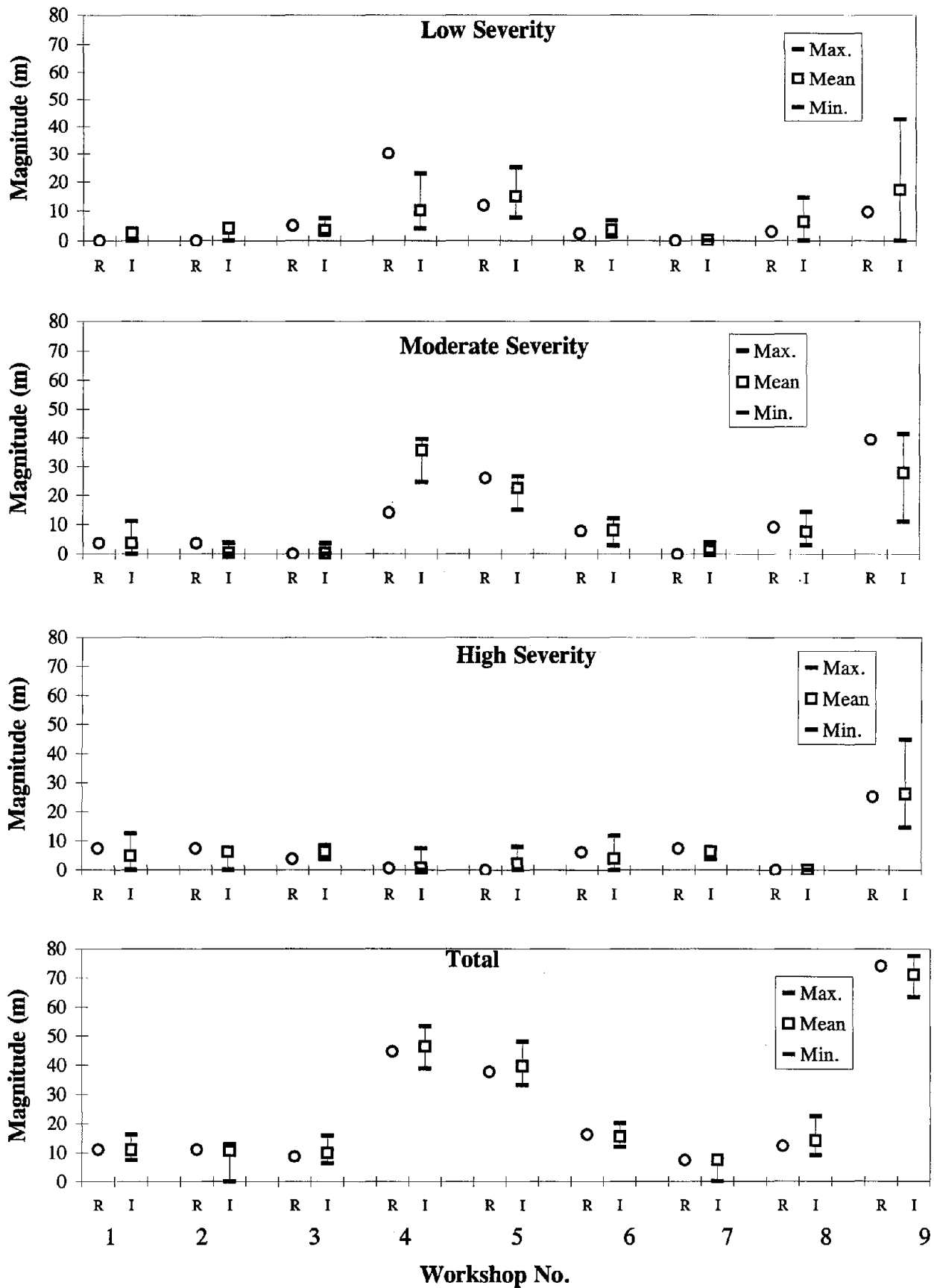


Figure 10. Transverse Cracking (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

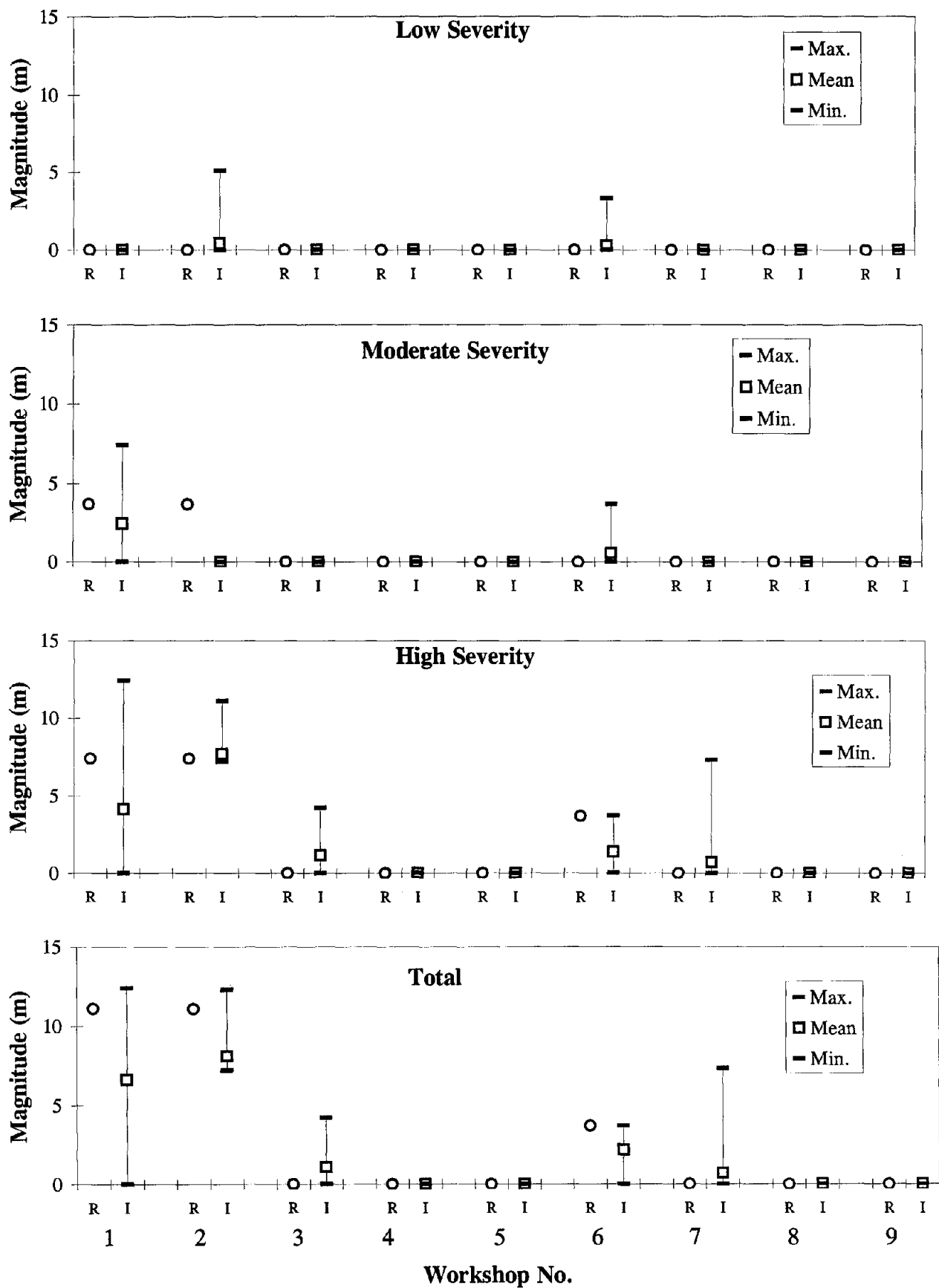


Figure 11. Transverse Cracking Sealed (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

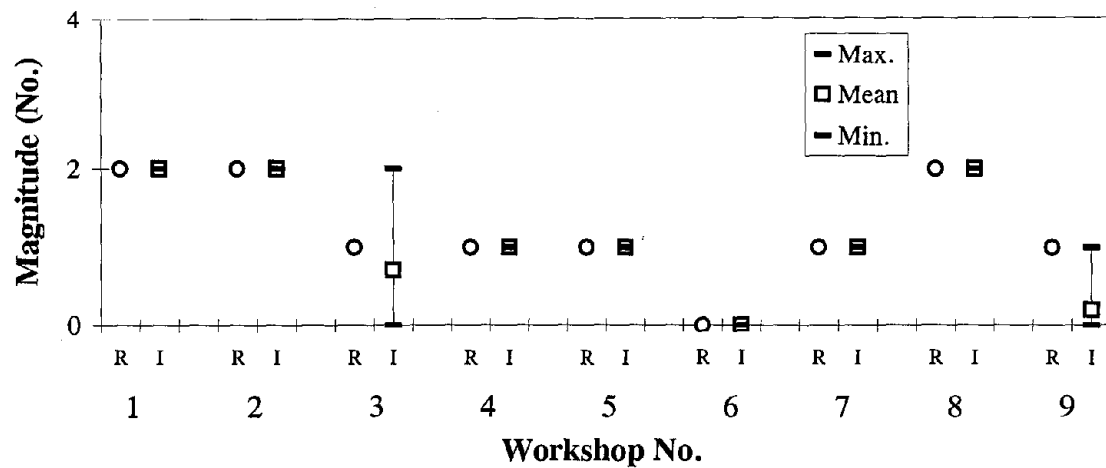


Figure 12. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

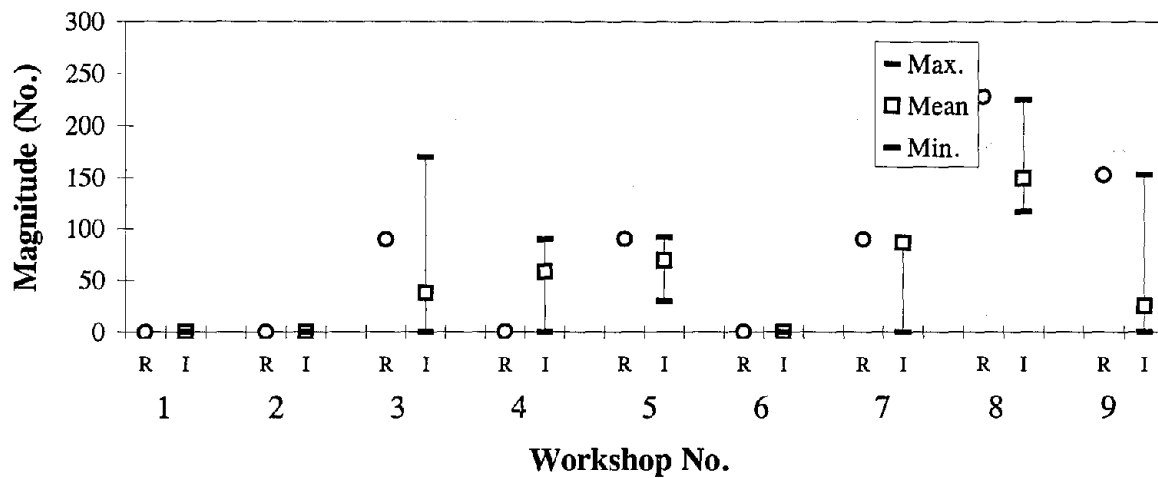


Figure 13. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

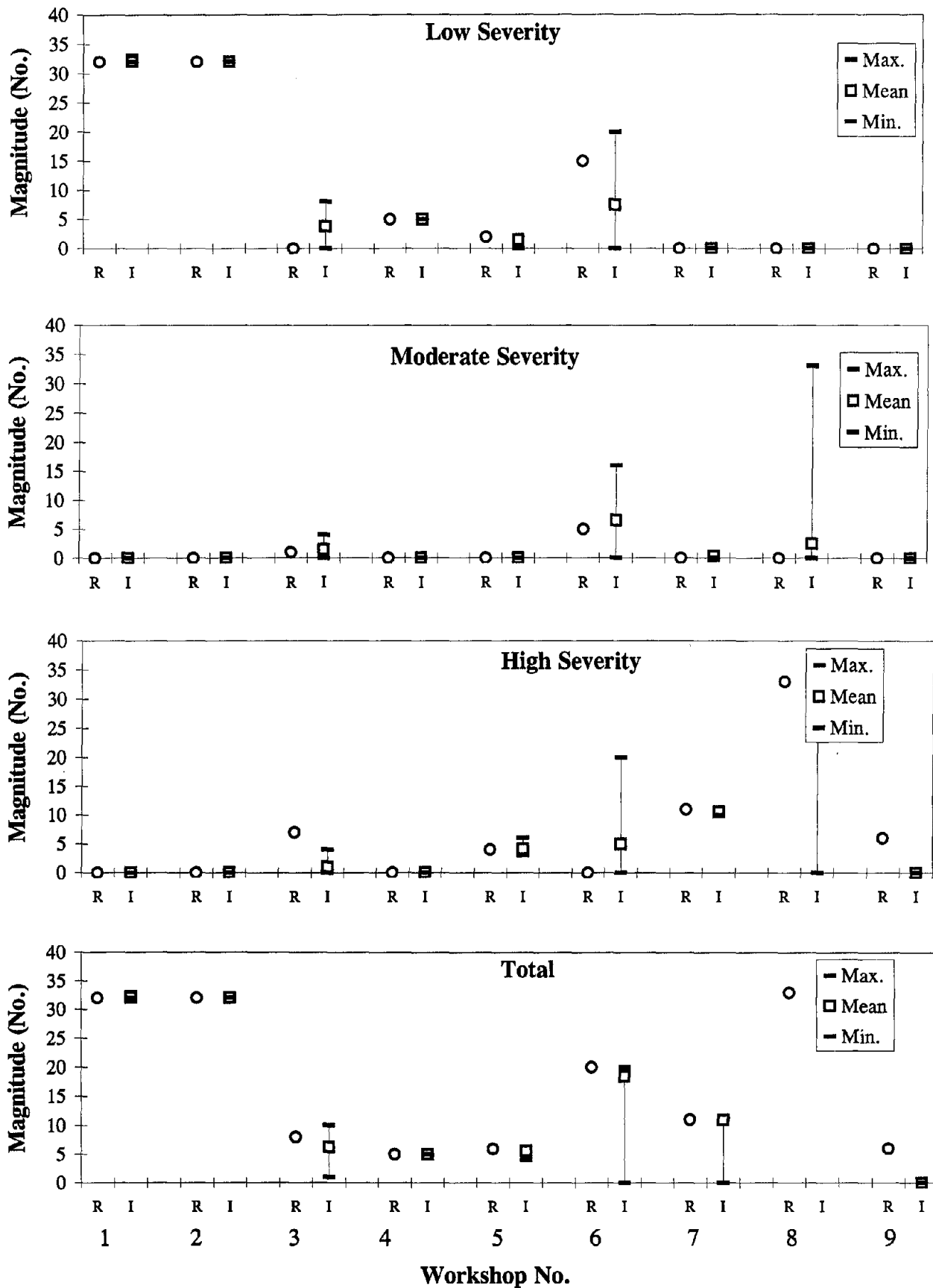


Figure 14. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

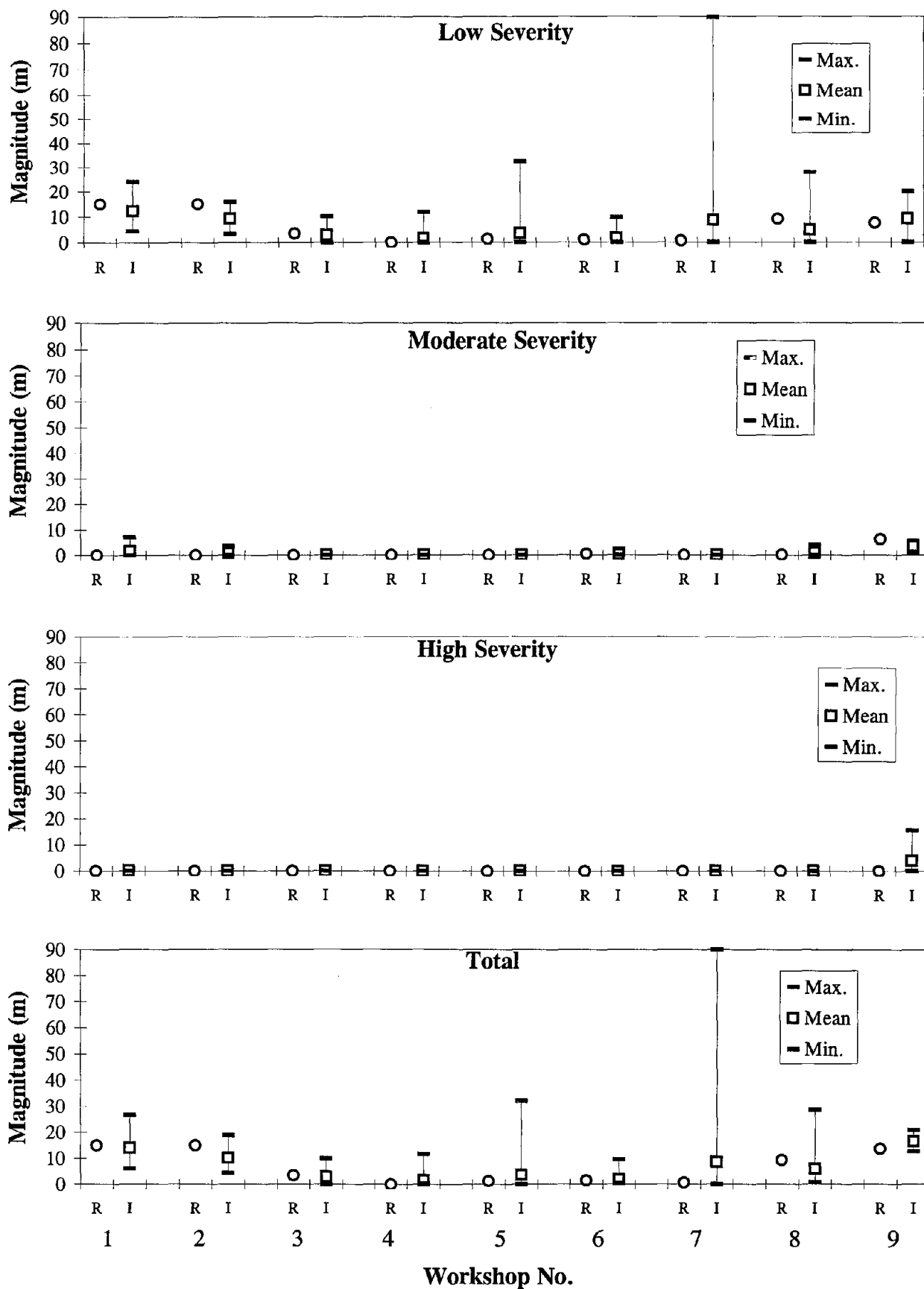


Figure 15. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

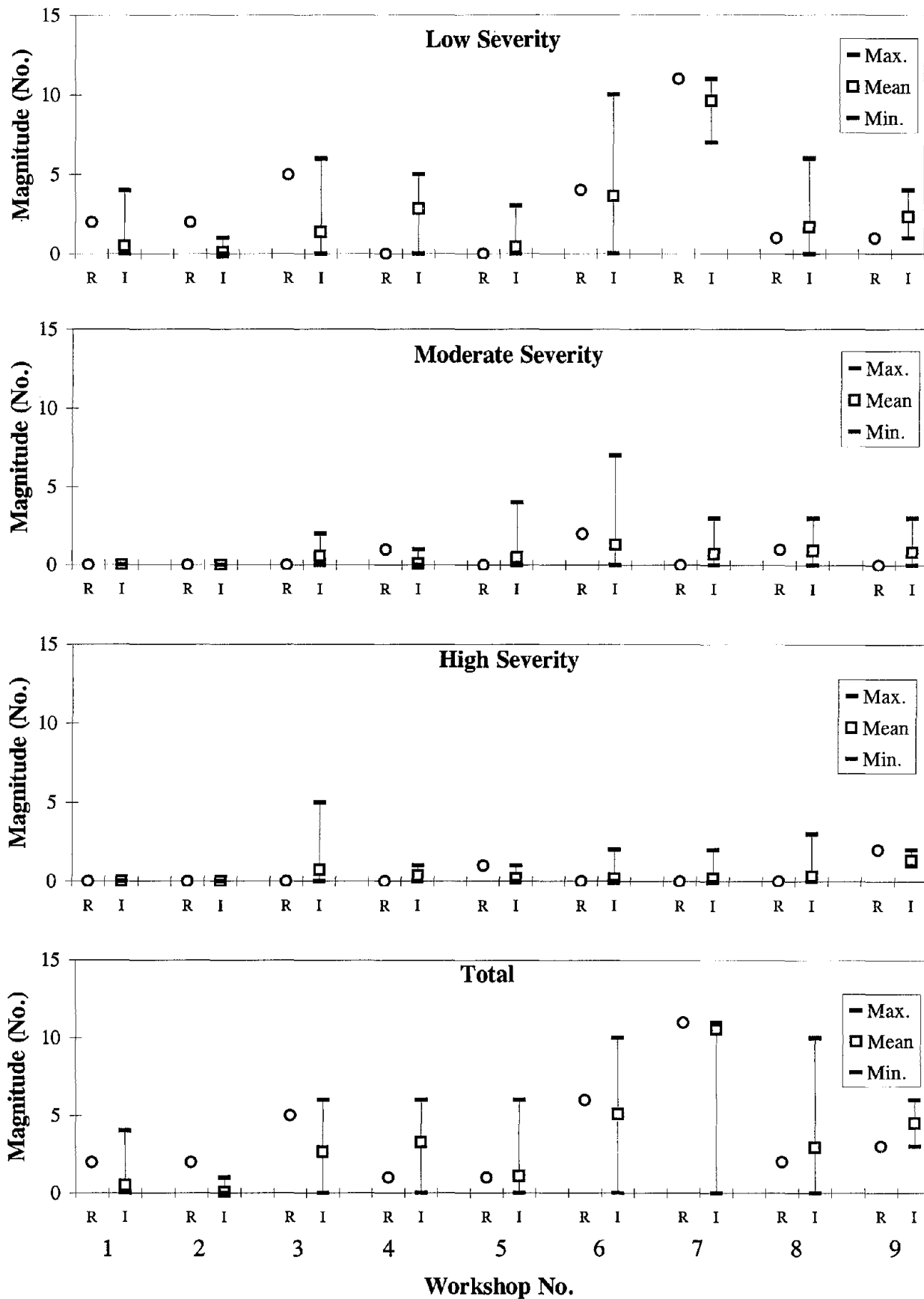


Figure 16. Spalling of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

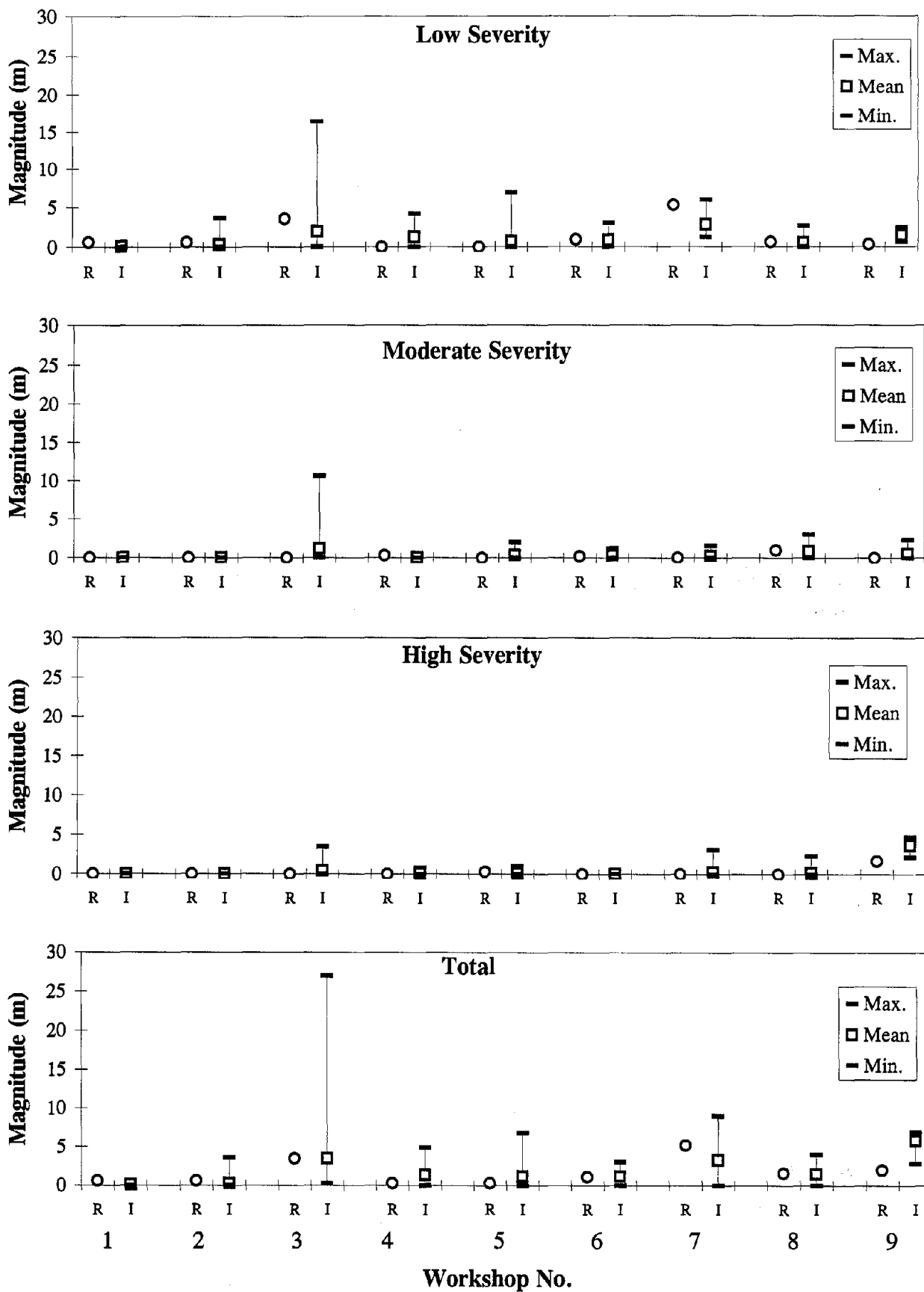


Figure 17. Spalling of Transverse Joints (Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

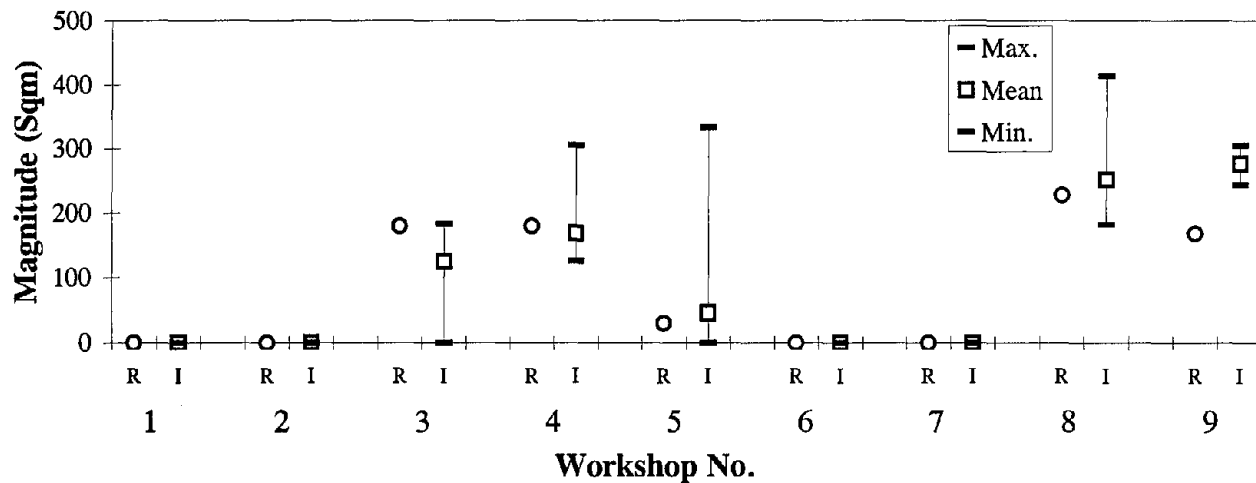


Figure 18. Polished Aggregate (Sq. Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

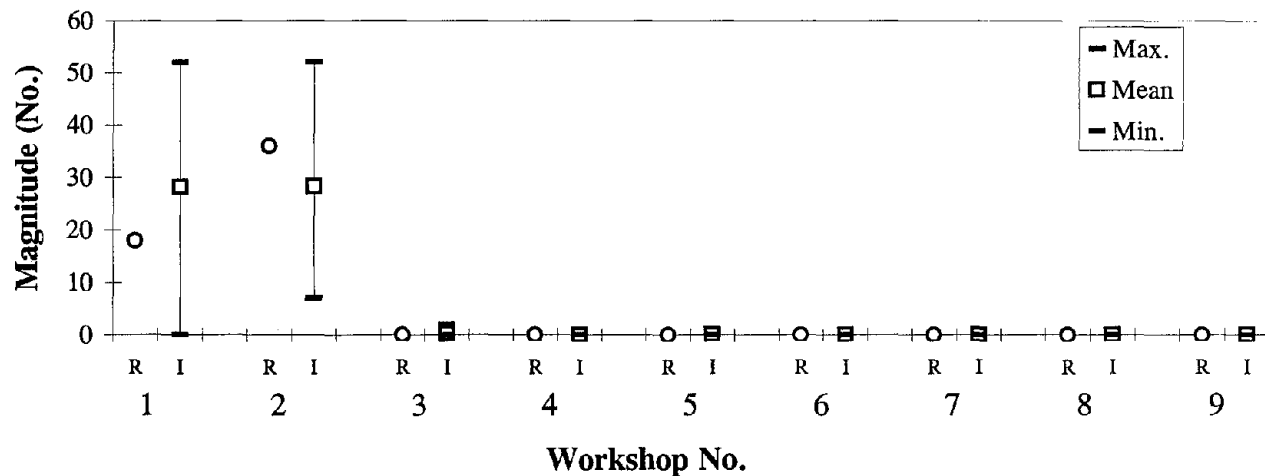


Figure 19. Popouts (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

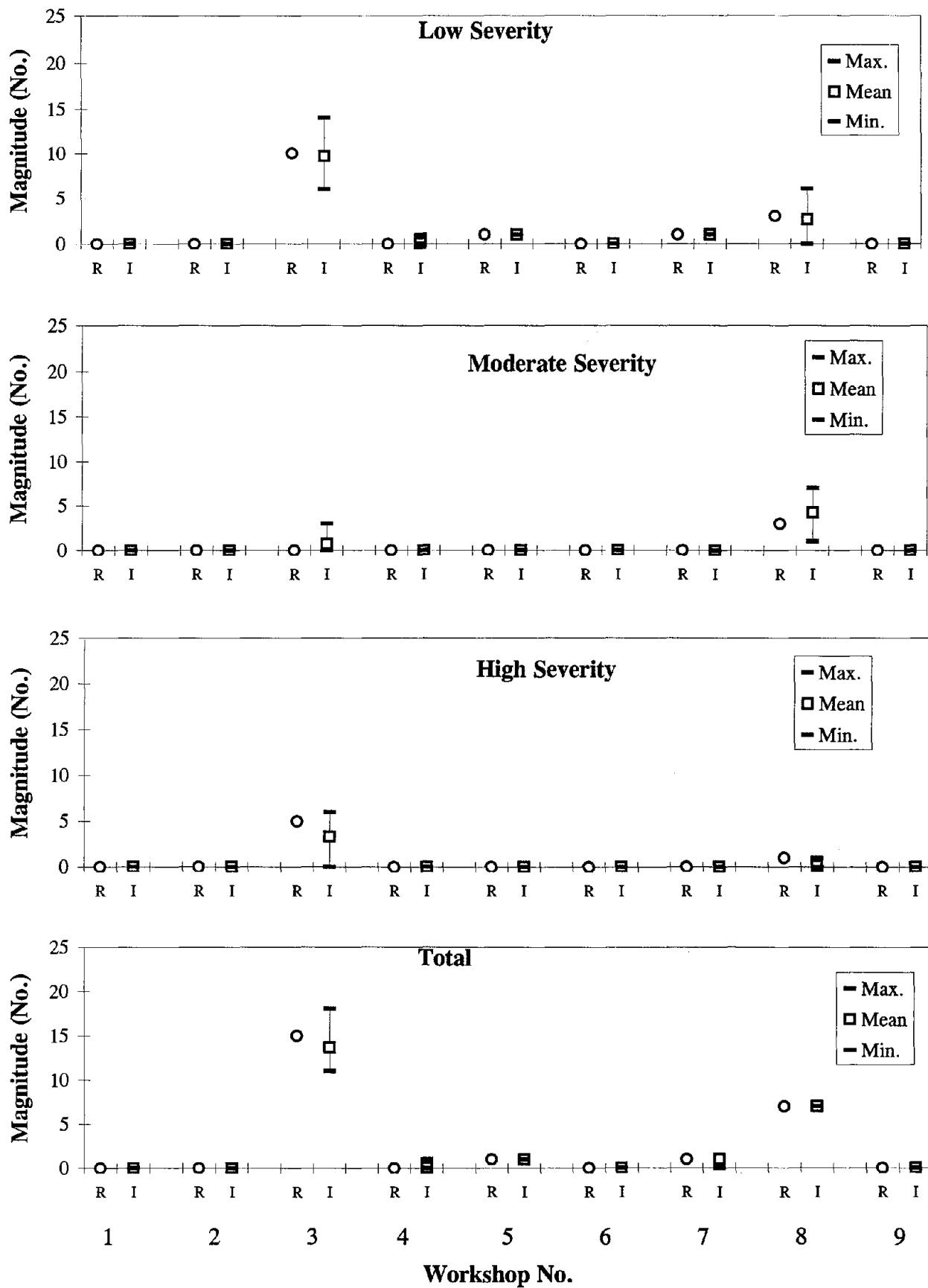


Figure 20. Patch/Patch Deterioration Rigid (No.) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.

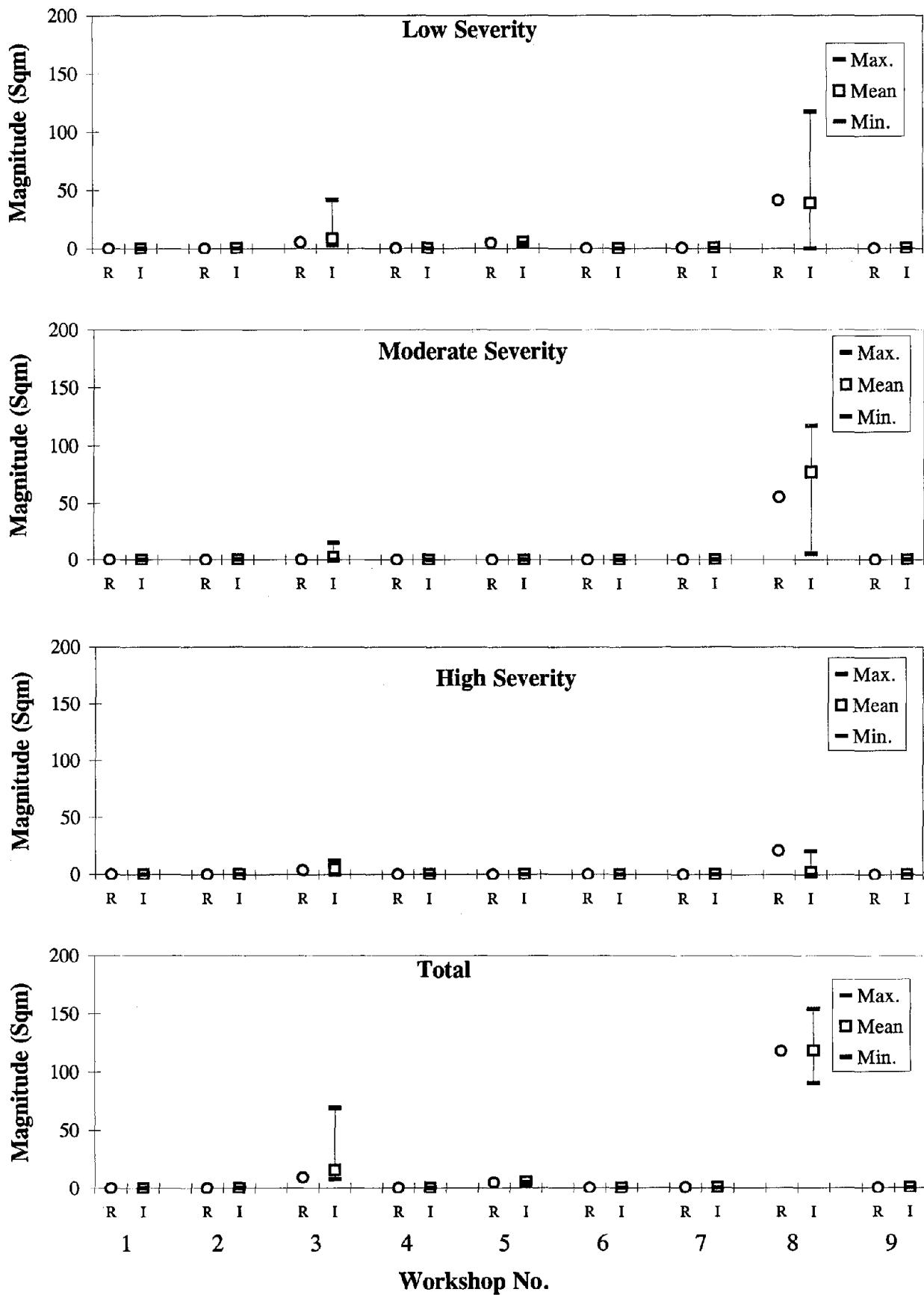
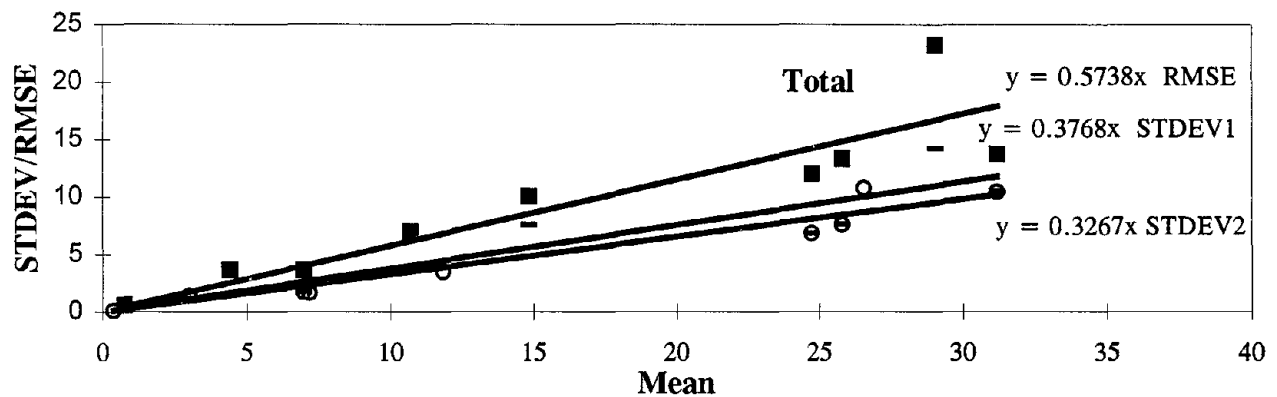
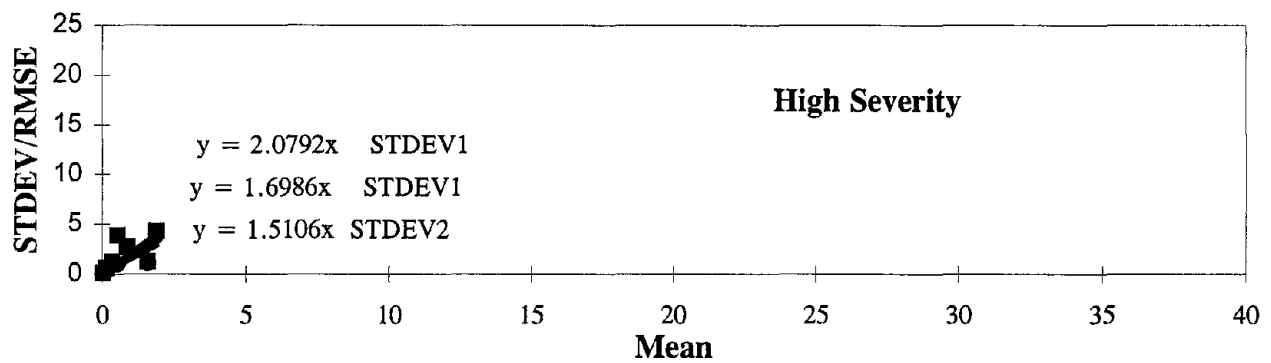
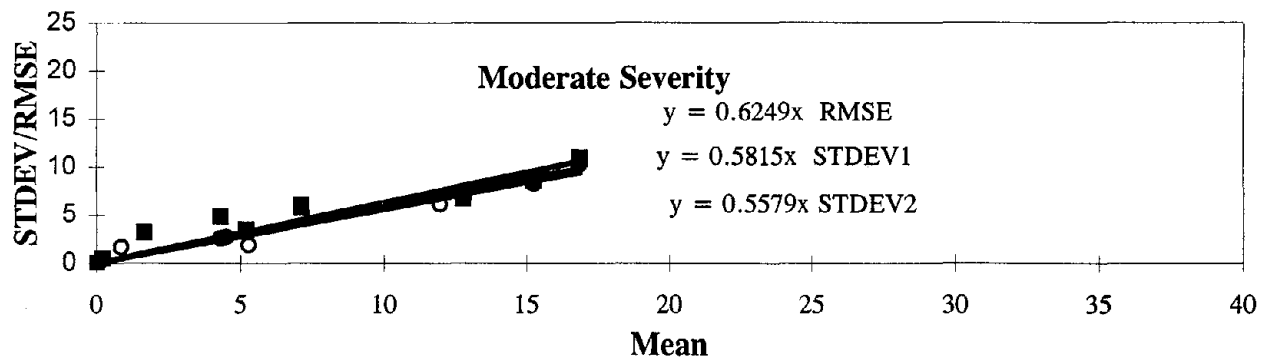
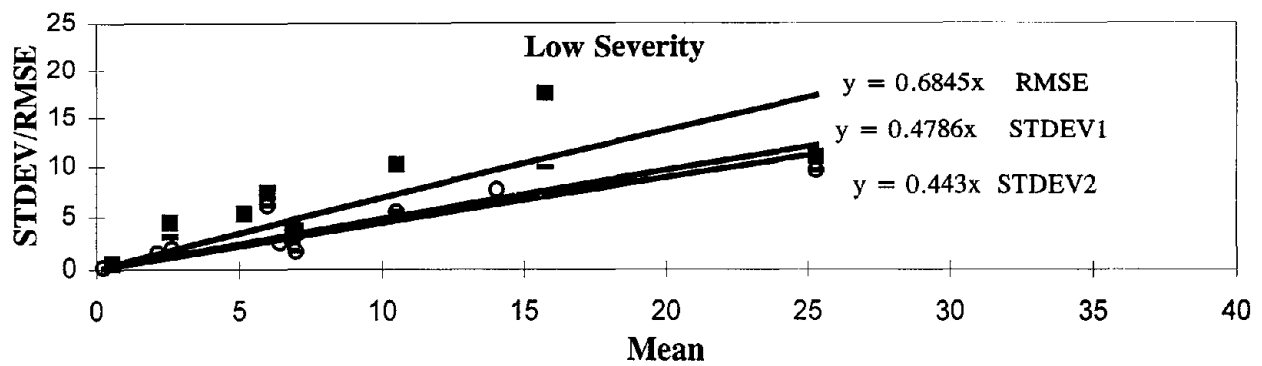


Figure 21. Patch/Patch Deterioration Rigid (Sq. Meters) - PCC Pavements, Manual Surveys: Reference and Individual Minimum, Mean, and Maximum Values.



**Figure 22. Fatigue Cracking (Sq. Meters) - AC Pavements, Manual Surveys:
Standard Deviation/RMSE Vs. Mean.**

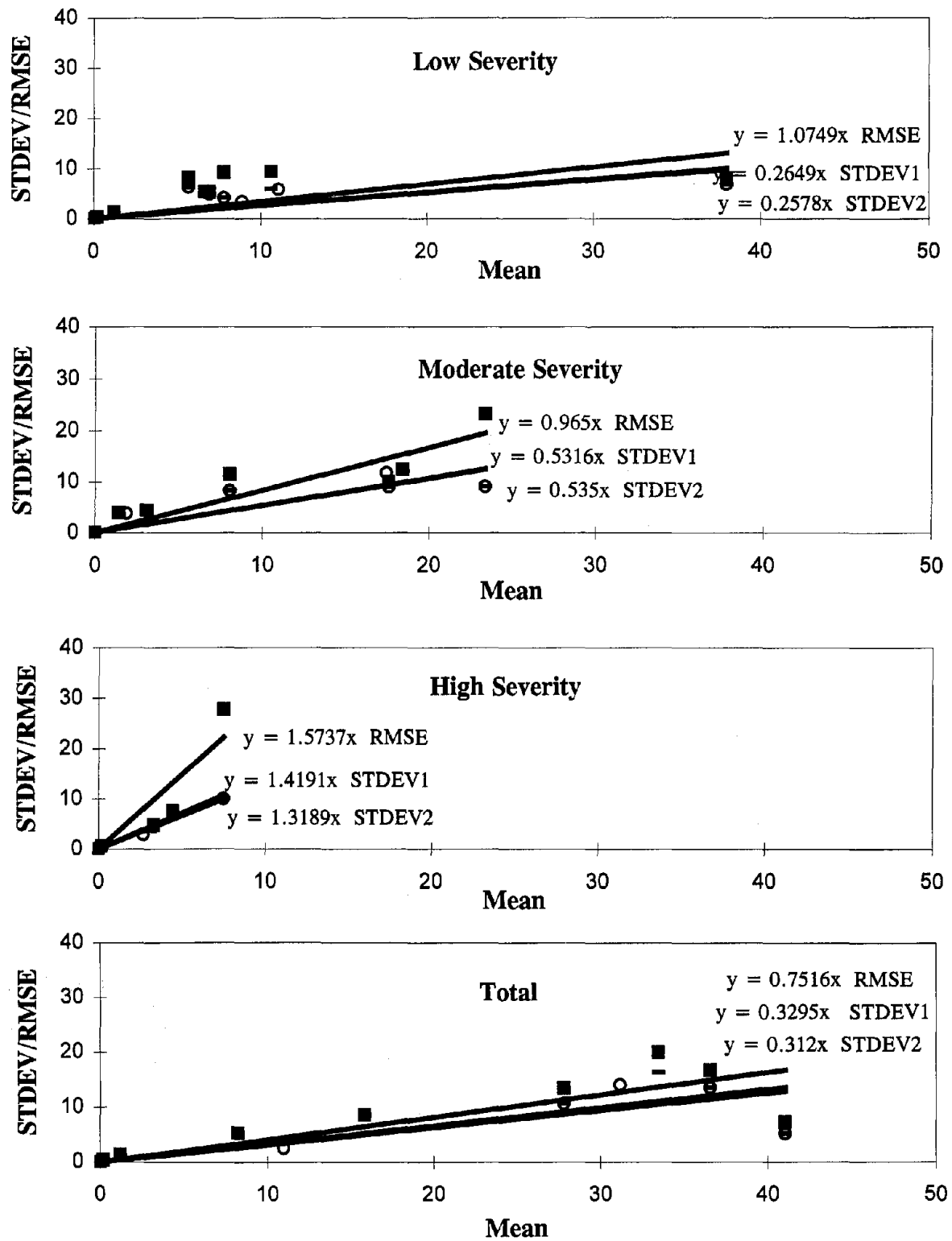
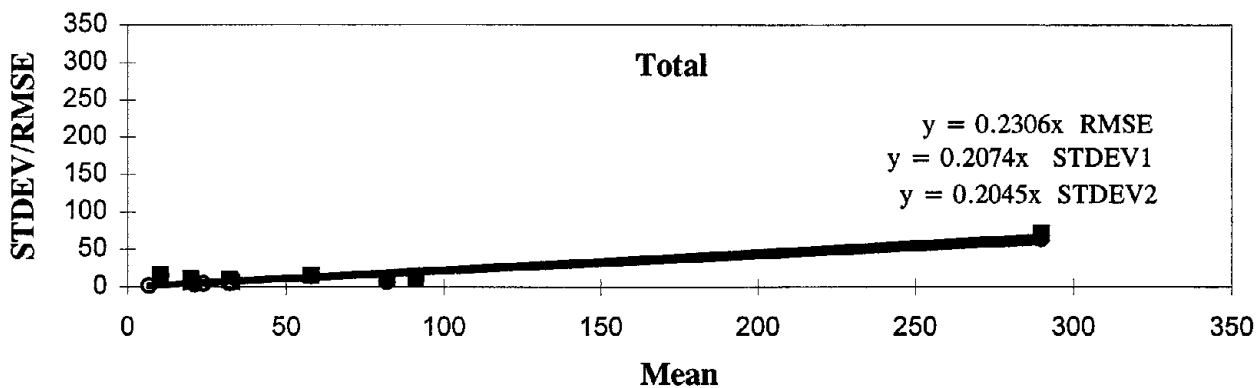
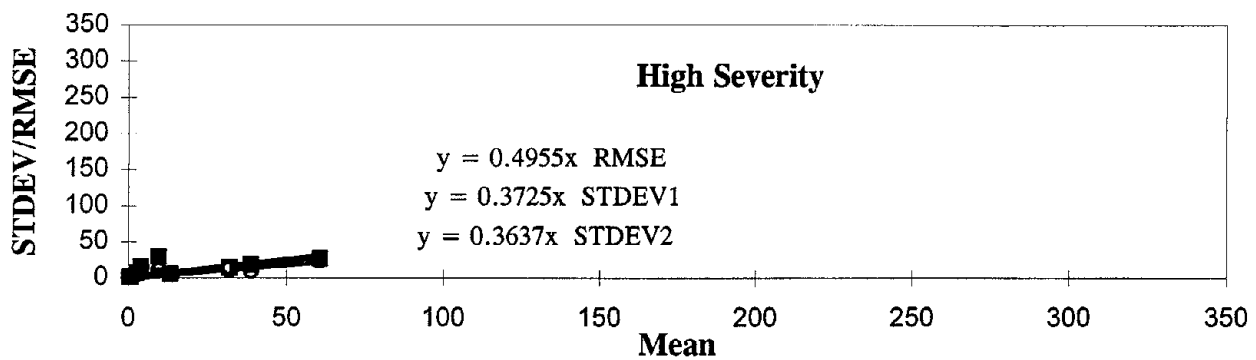
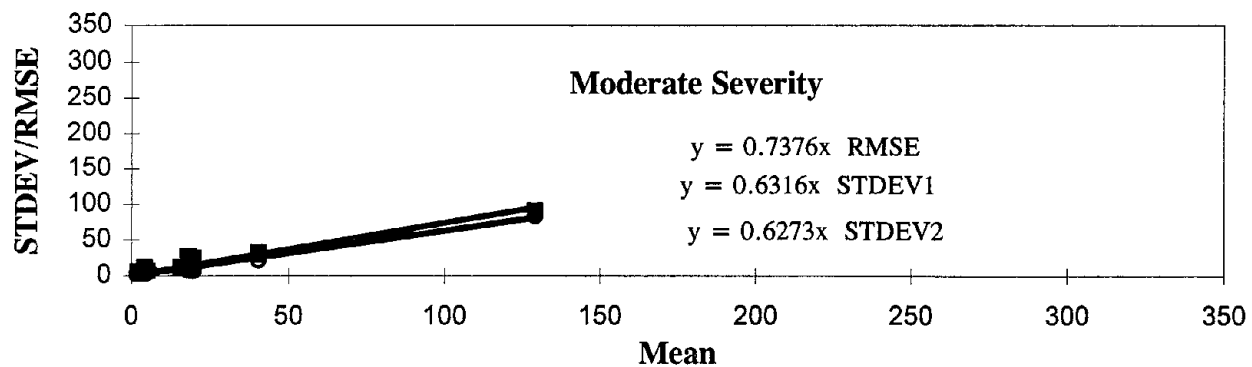
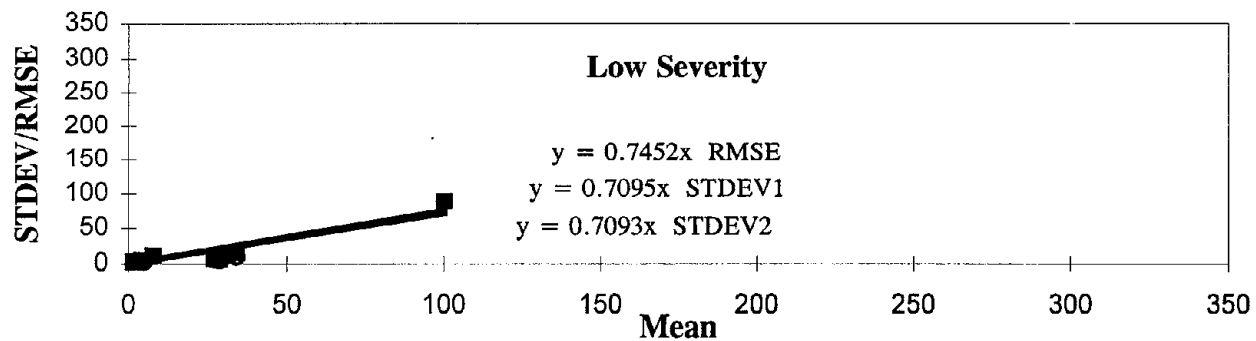
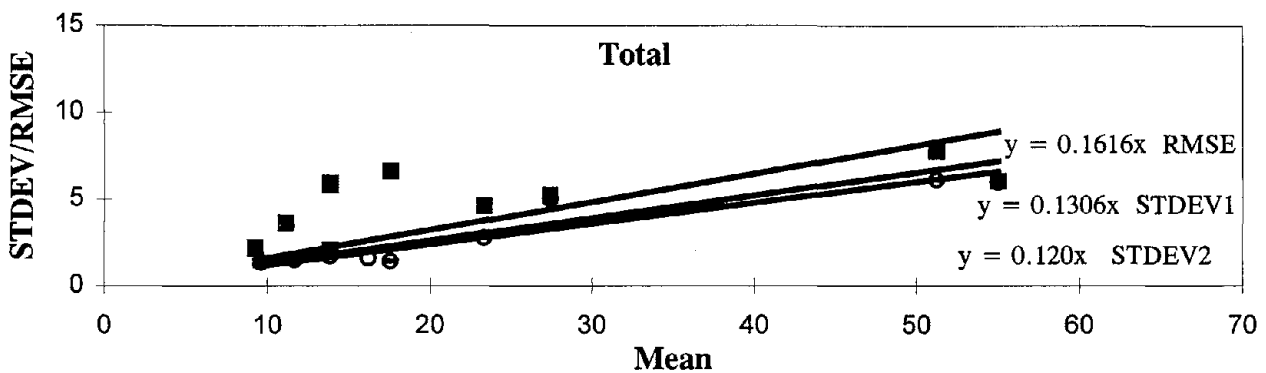
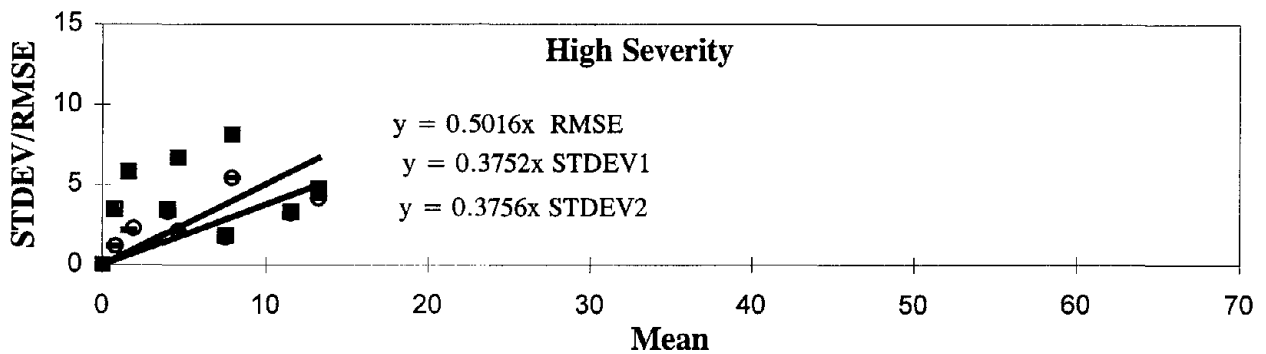
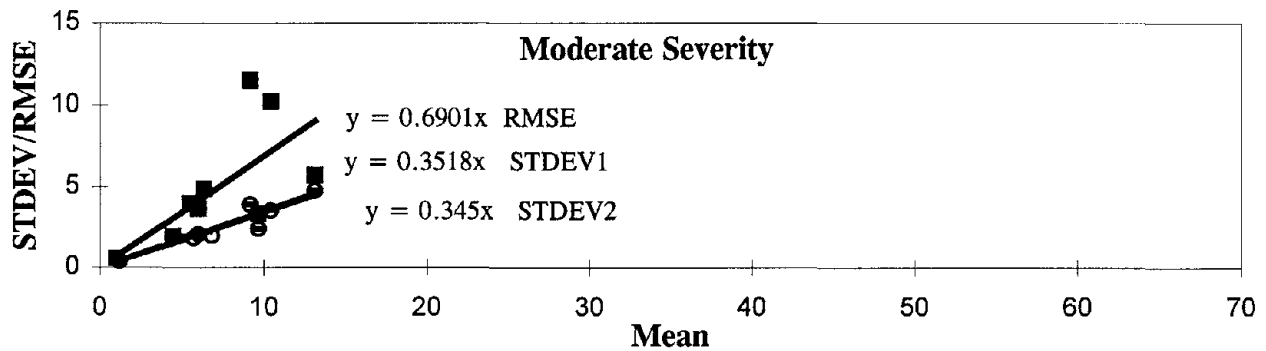
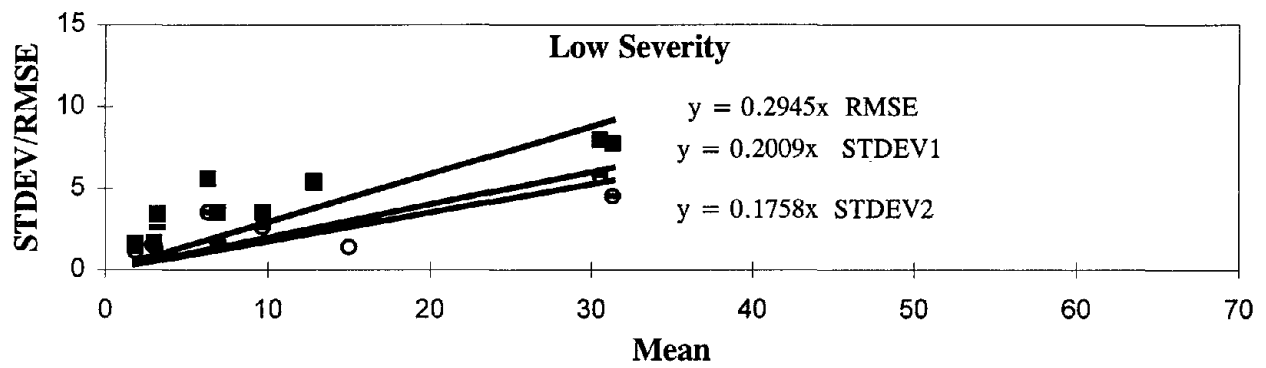


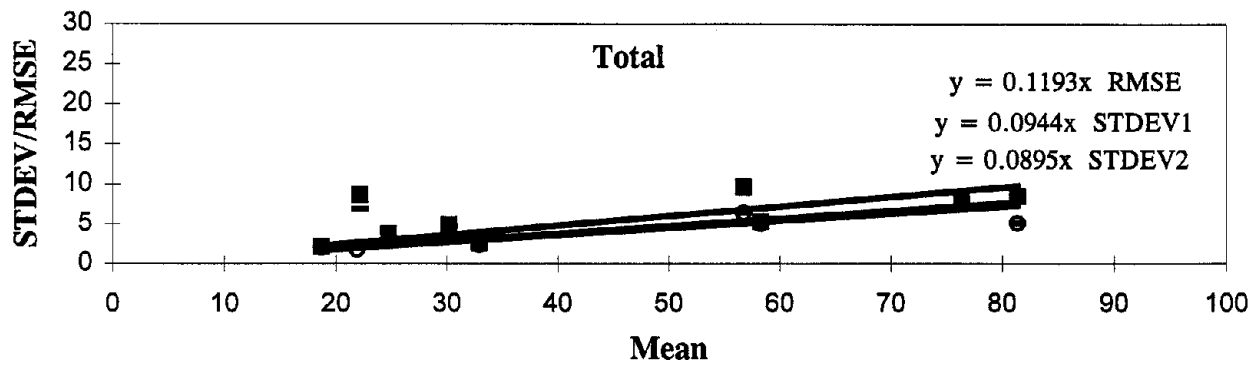
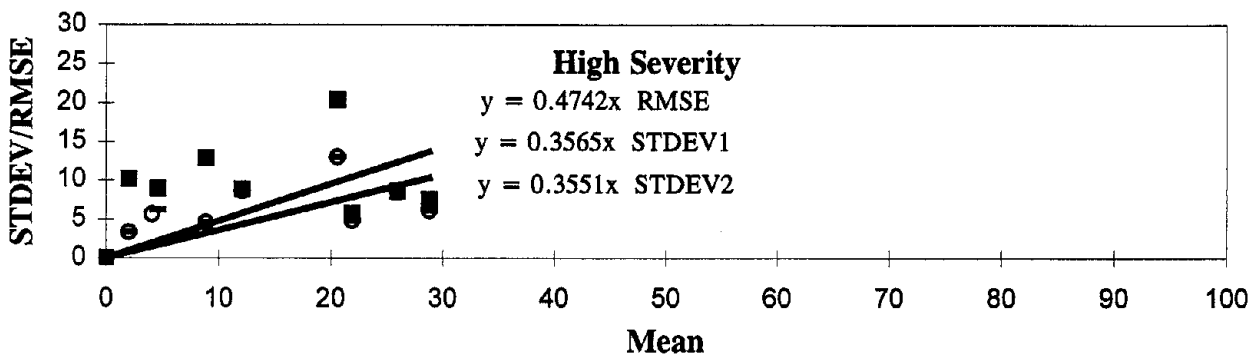
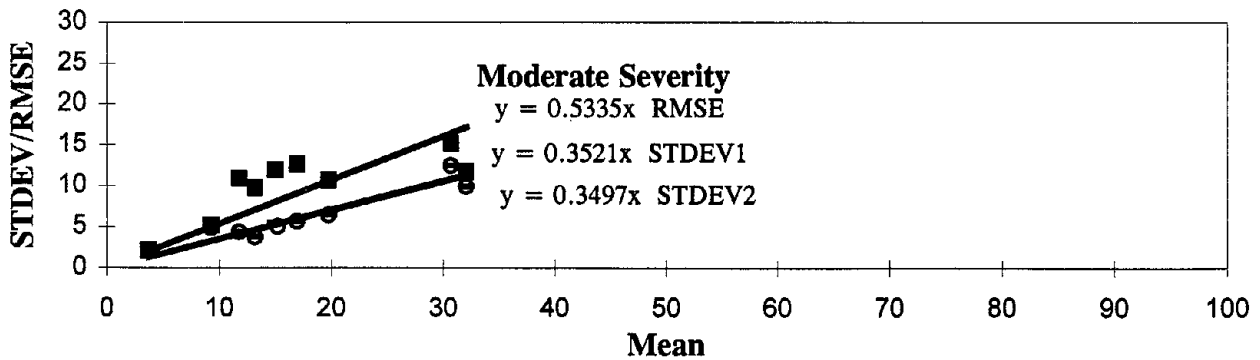
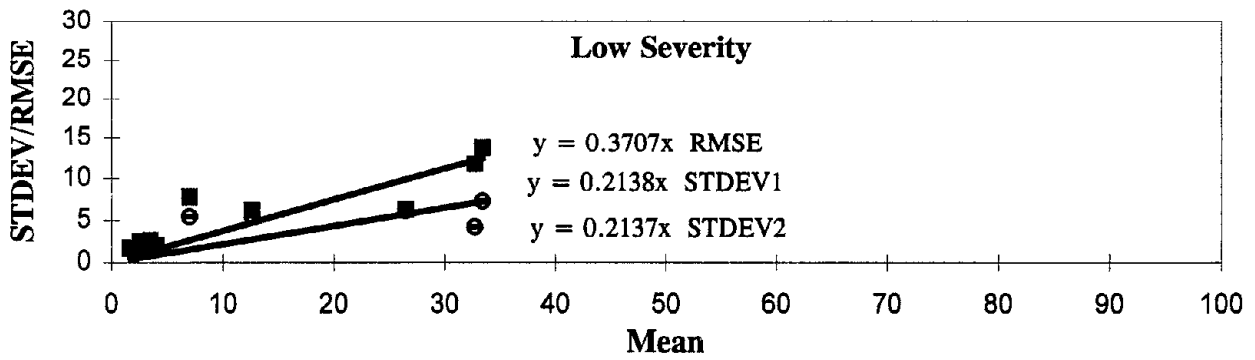
Figure 23. Longitudinal Cracking WP (Meters) - AC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.



**Figure 24. Longitudinal Cracking NWP (Meters) - AC Pavements, Manual Surveys:
Standard Deviation/RMSE Vs. Mean.**



**Figure 25. Transverse Cracking (No.) - AC Pavements, Manual Surveys:
Standard Deviation/RMSE Vs. Mean.**



**Figure 26. Transverse Cracking (Meters) - AC Pavements, Manual Surveys:
Standard Deviation/RMSE Vs. Mean.**

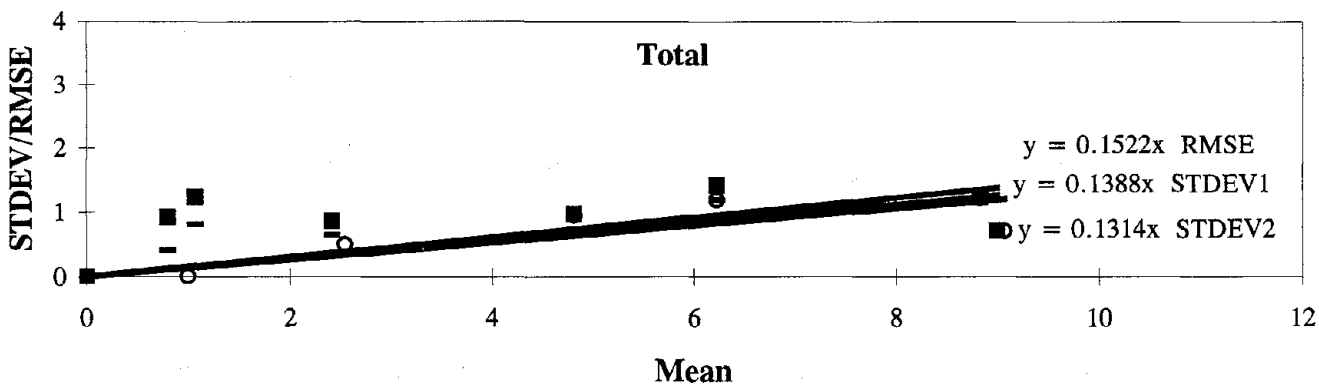
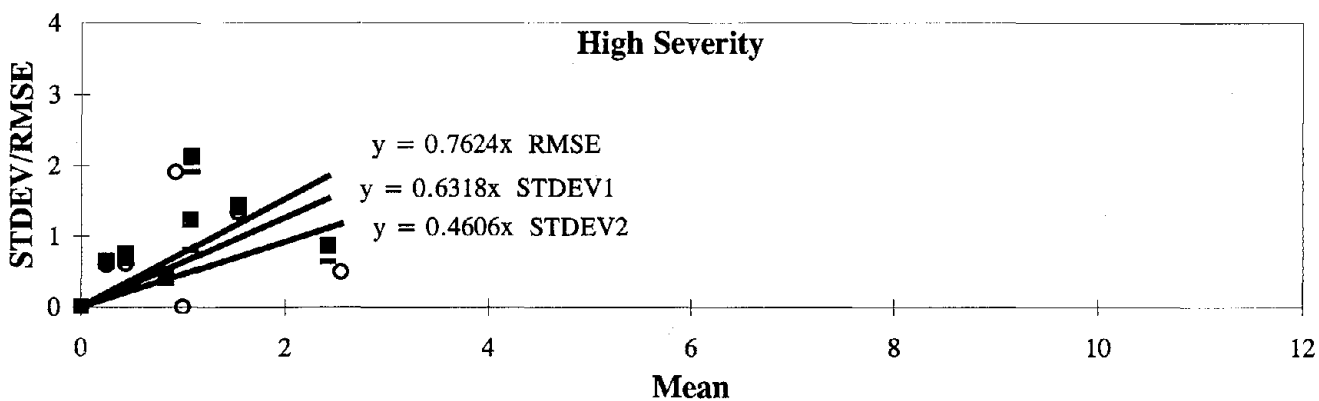
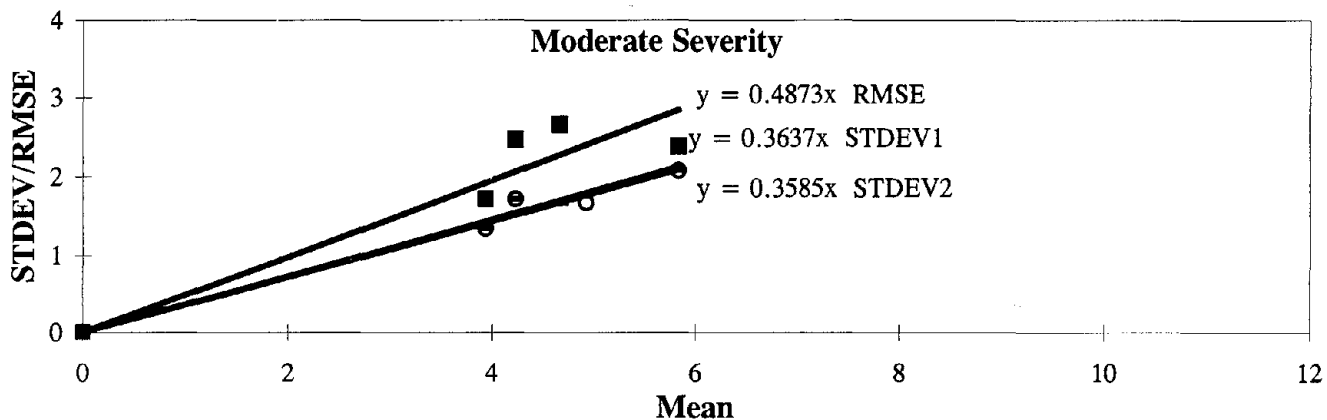
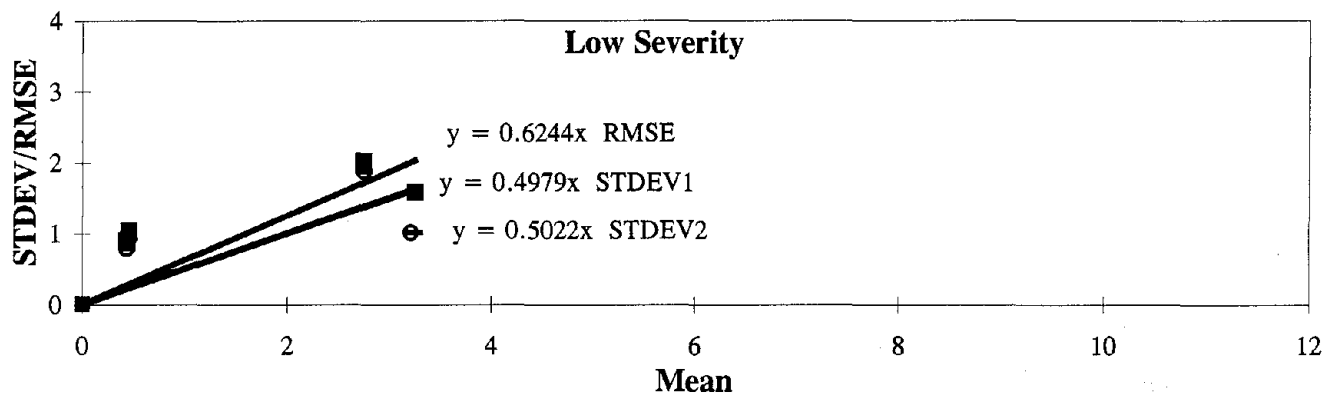


Figure 27. Corner Breaks (No.) - PCC Pavements, Manual Surveys:
Standard Deviation/RMSE Vs. Mean.

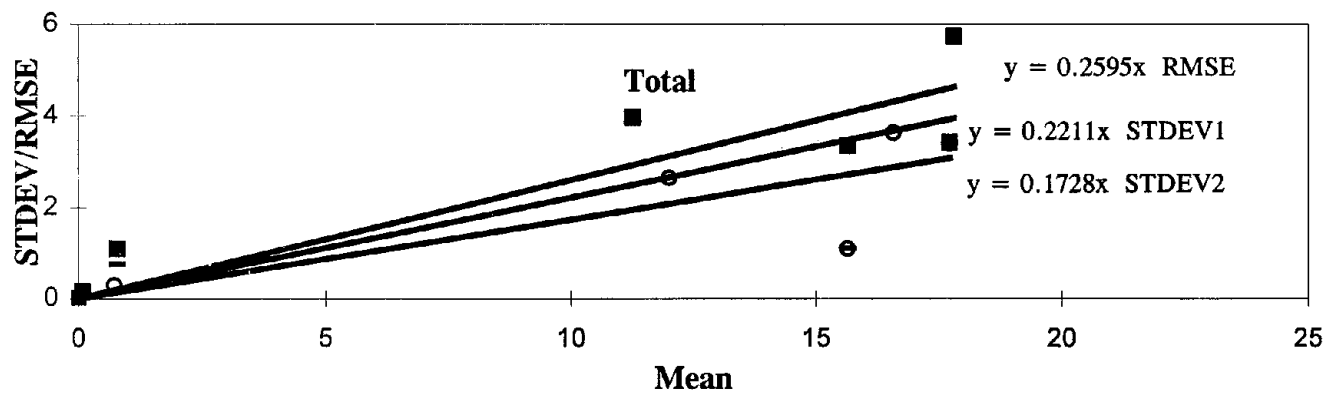
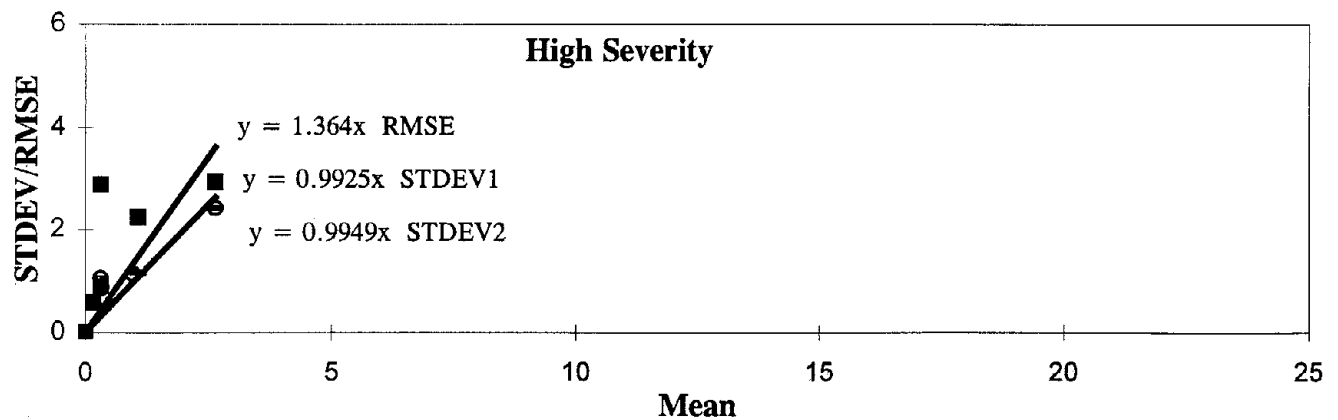
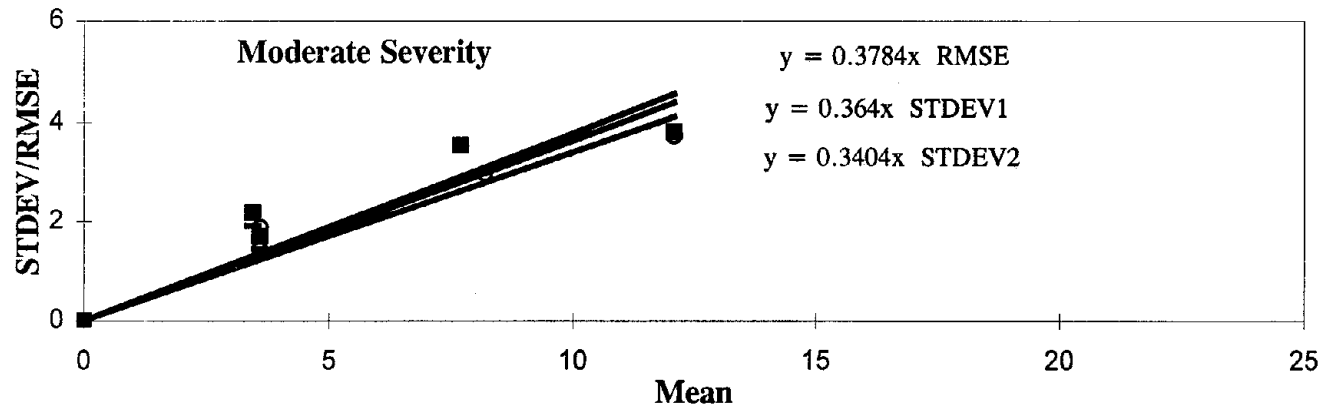
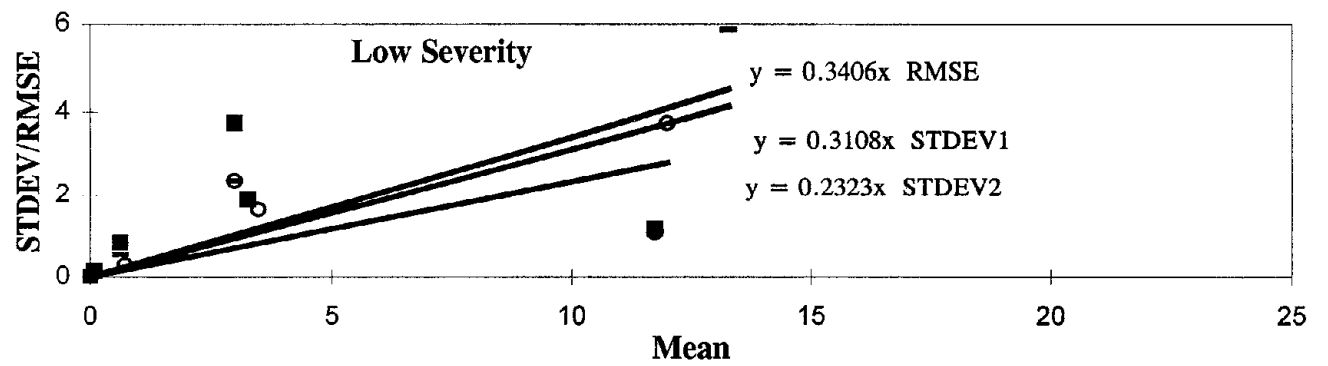
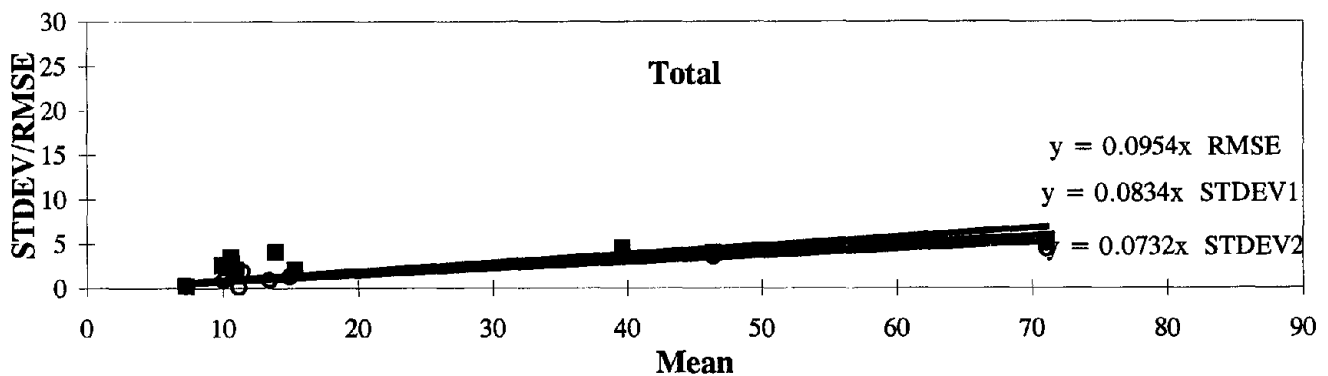
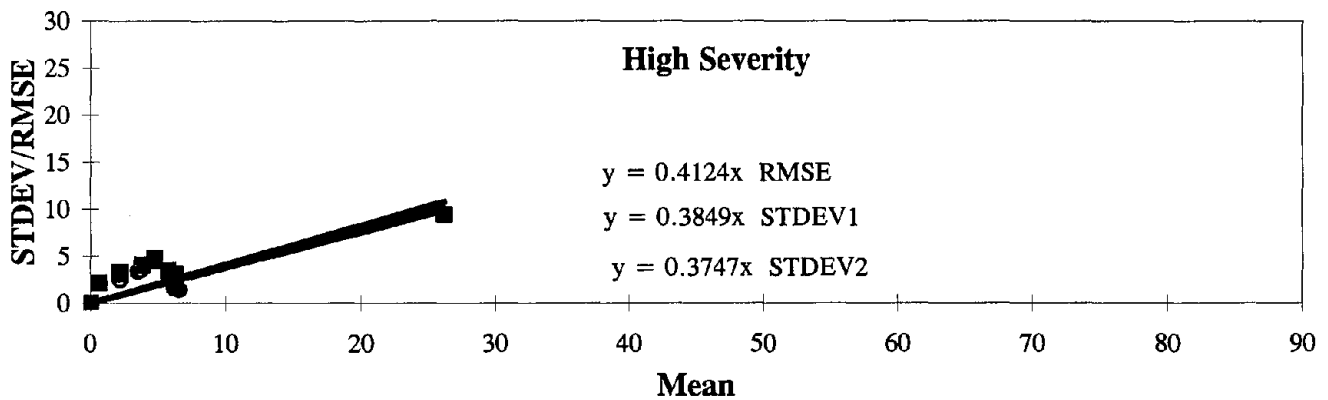
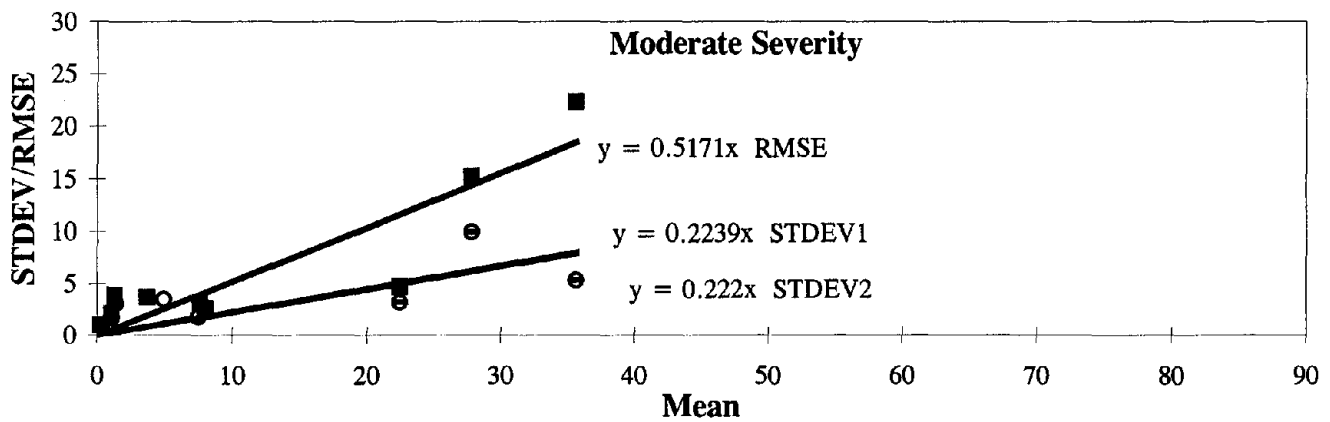
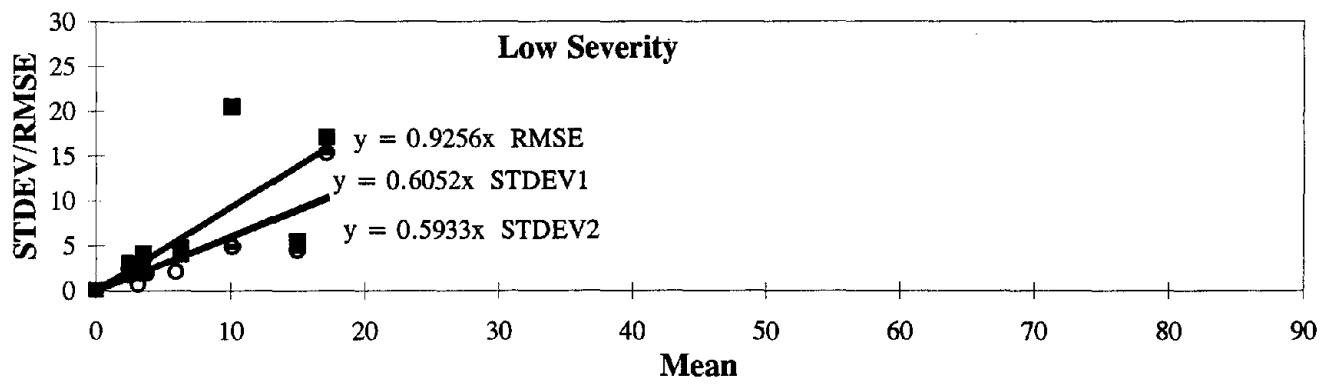
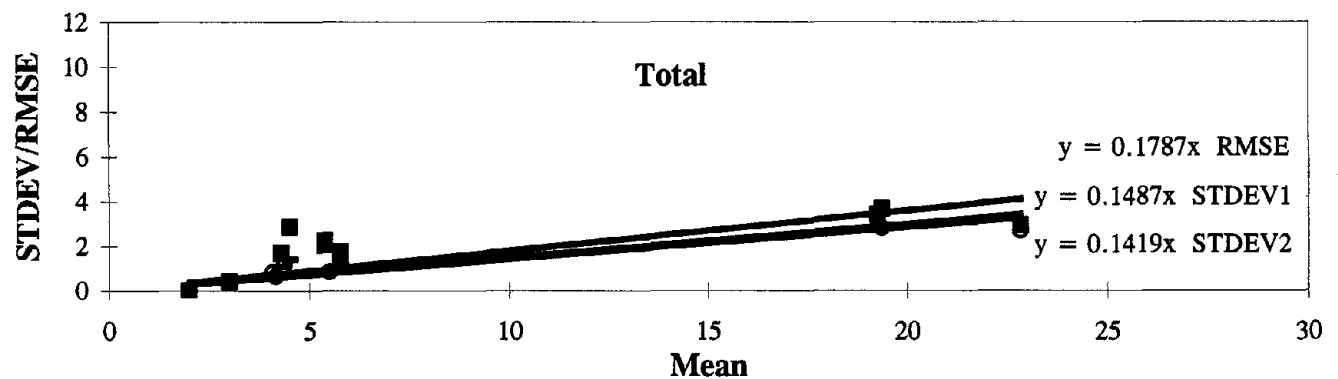
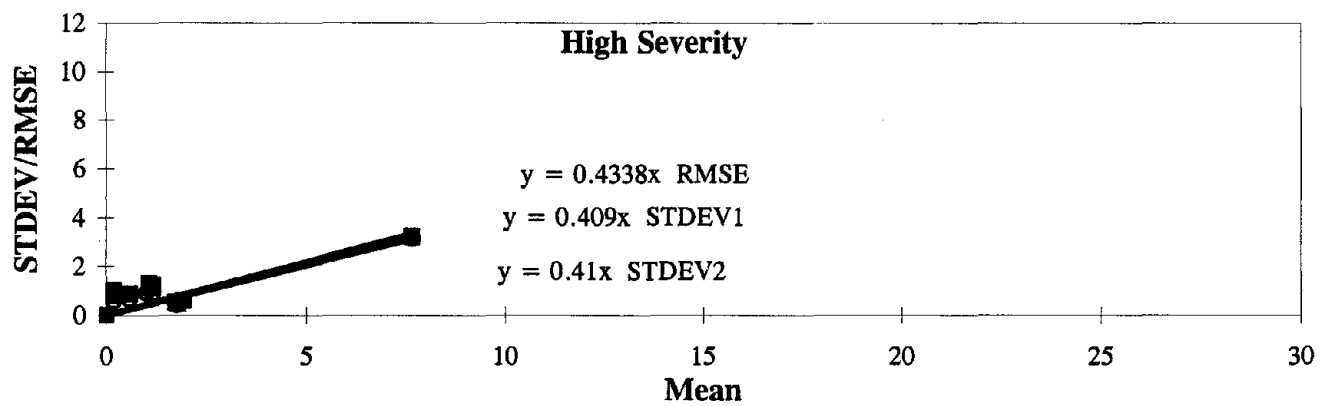
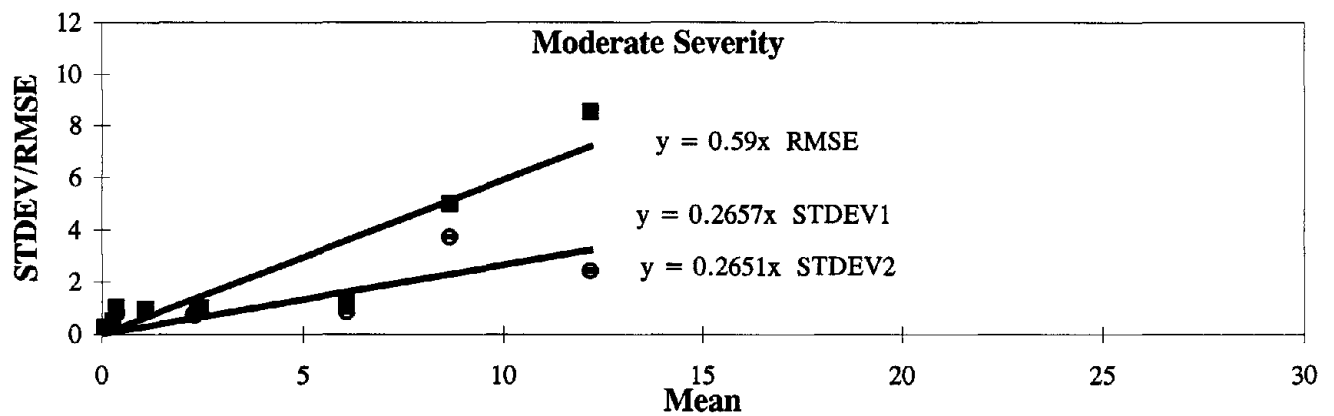
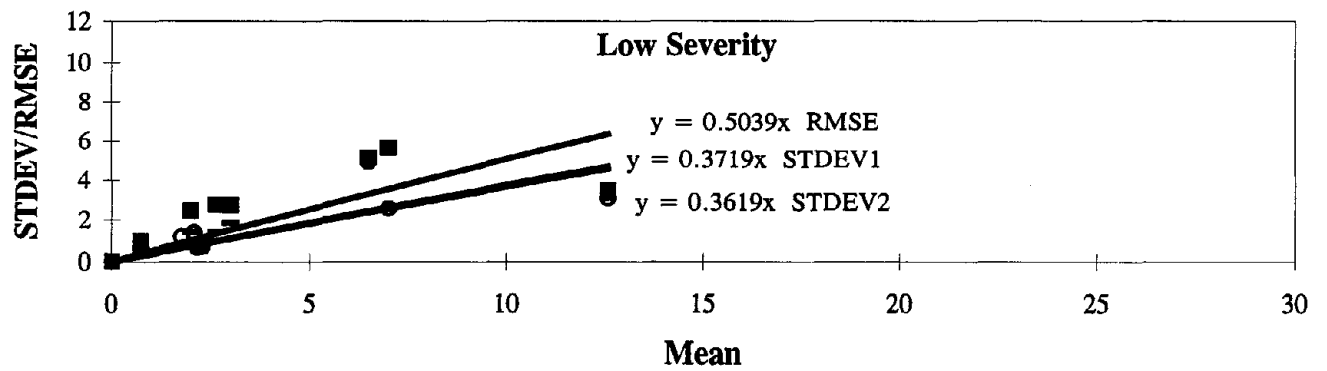


Figure 28. Longitudinal Cracking (Meters) - PCC Pavements, Manual Surveys:
Standard Deviation/RMSE Vs. Mean.



**Figure 29. Transverse Cracking (Meters) - PCC Pavements, Manual Surveys:
Standard Deviation/RMSE Vs. Mean.**



**Figure 30. Transverse Cracking (No.) - PCC Pavements, Manual Surveys:
Standard Deviation/RMSE Vs. Mean.**

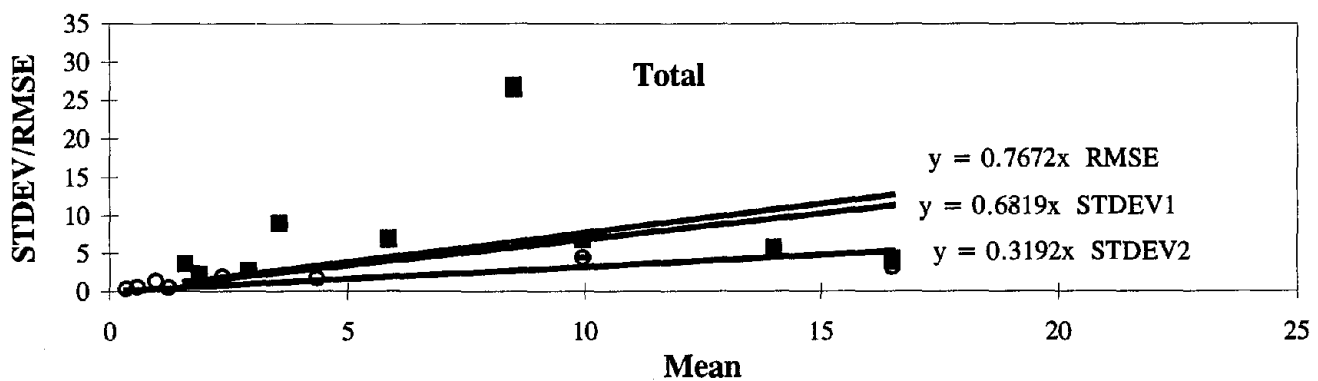
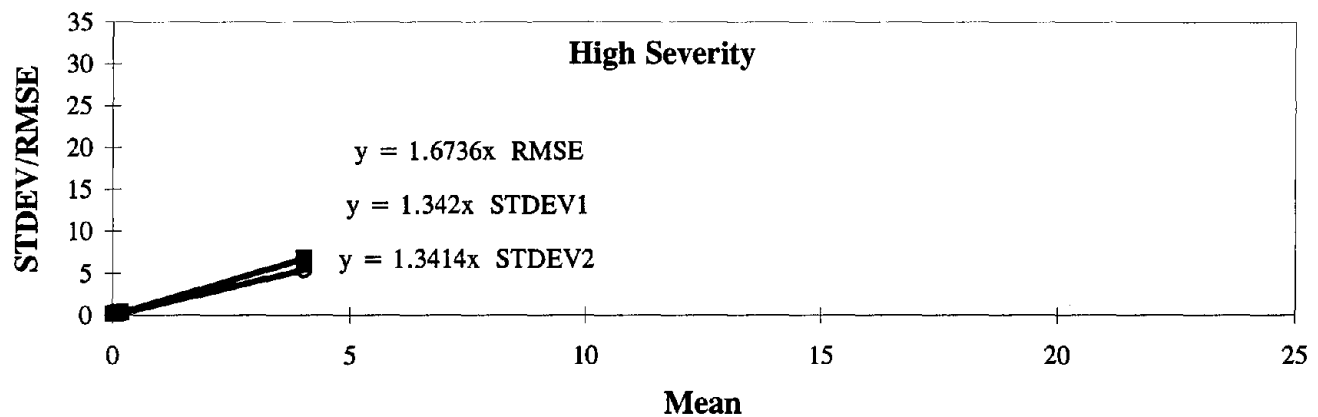
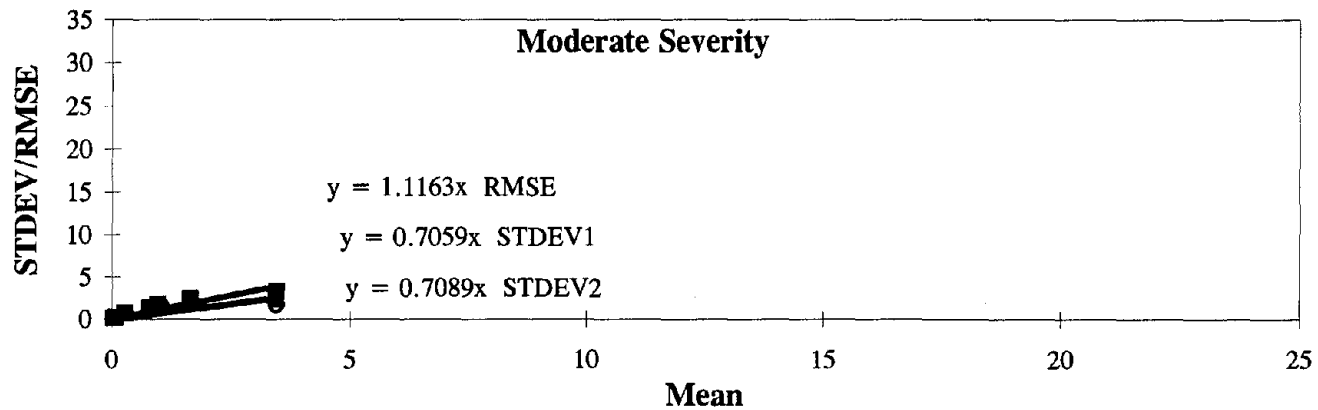
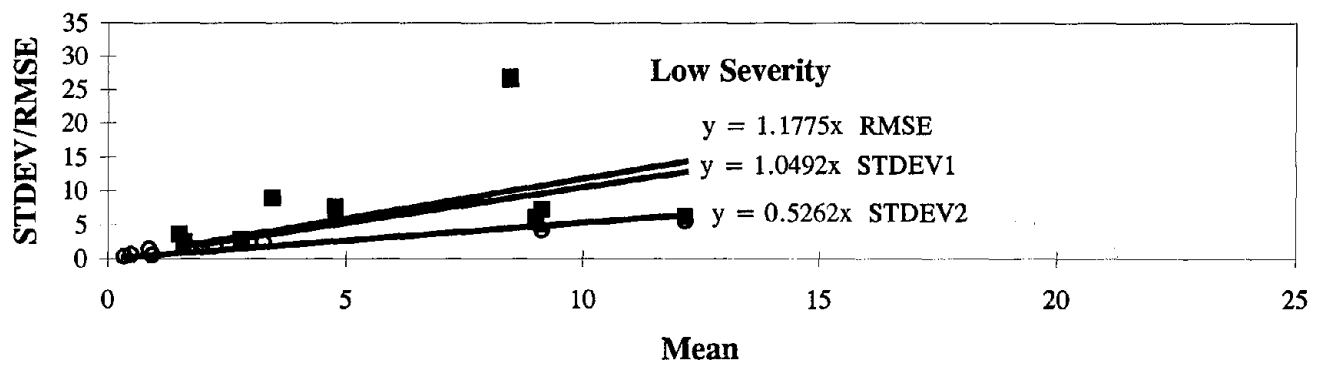


Figure 31. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.

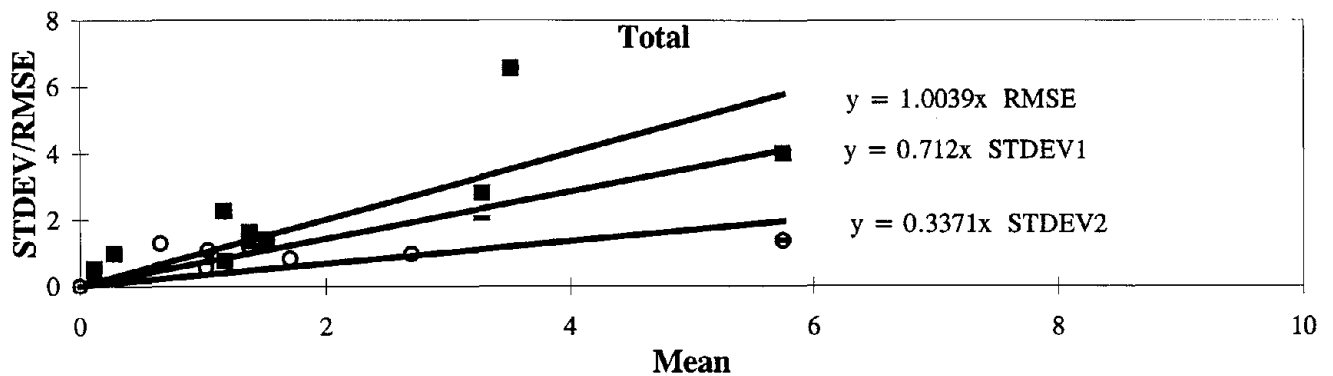
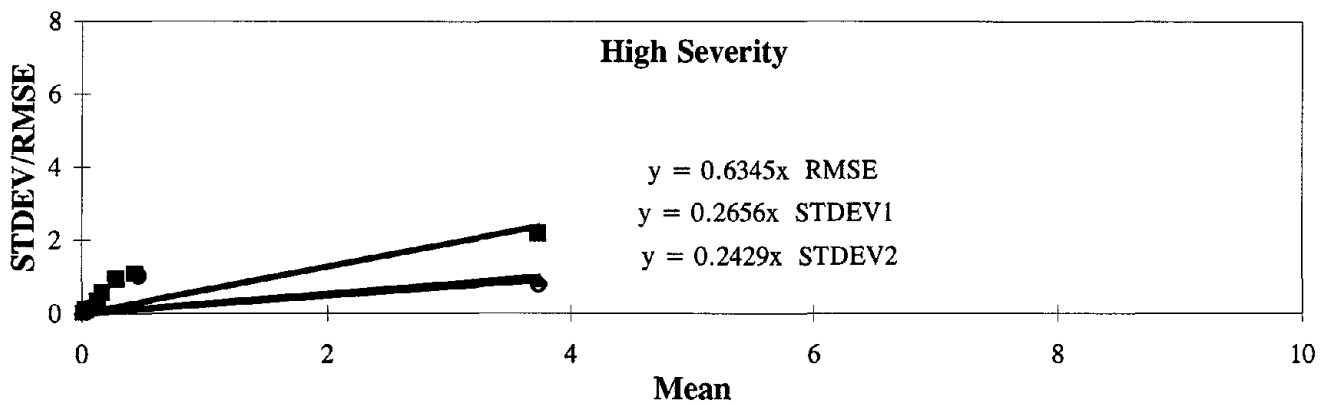
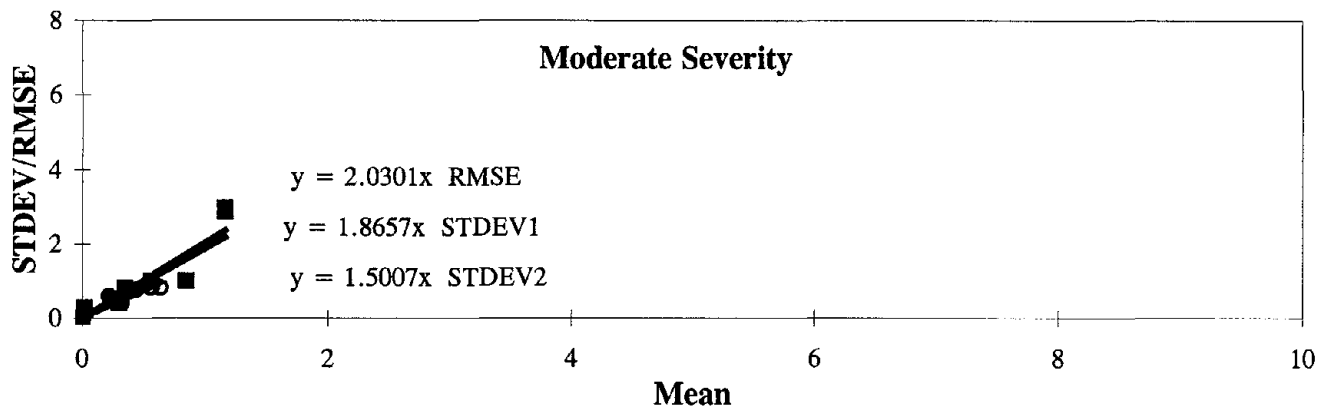
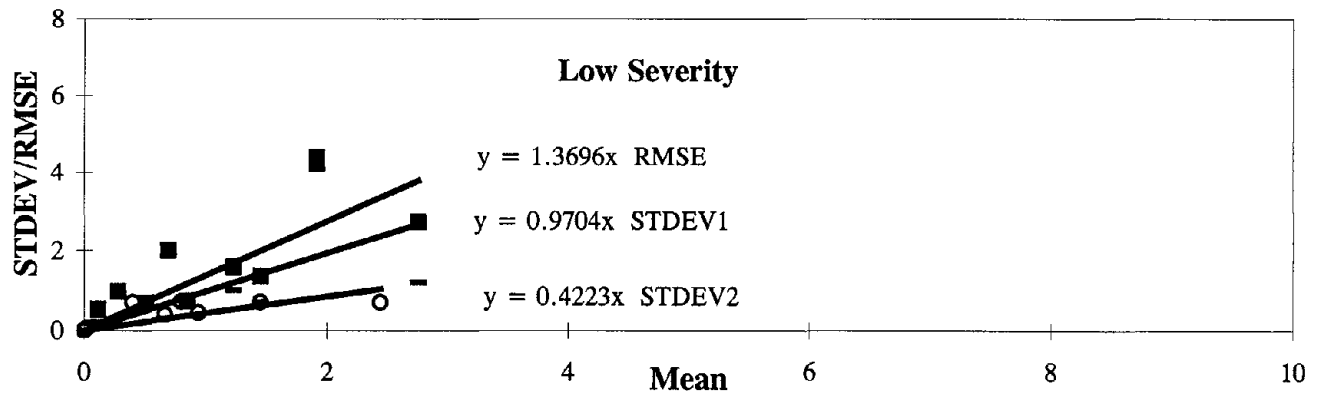


Figure 32. Spalling of Transverse Joints (Meters) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.

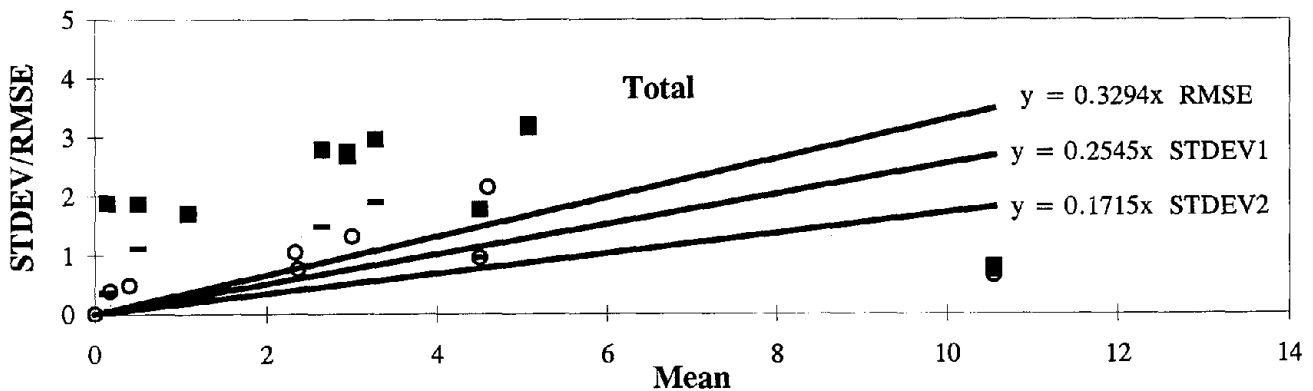
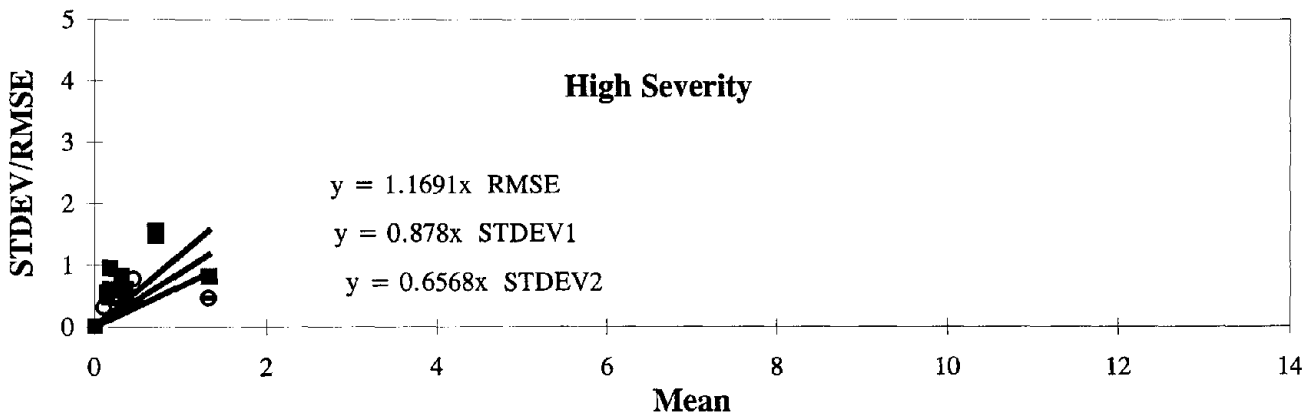
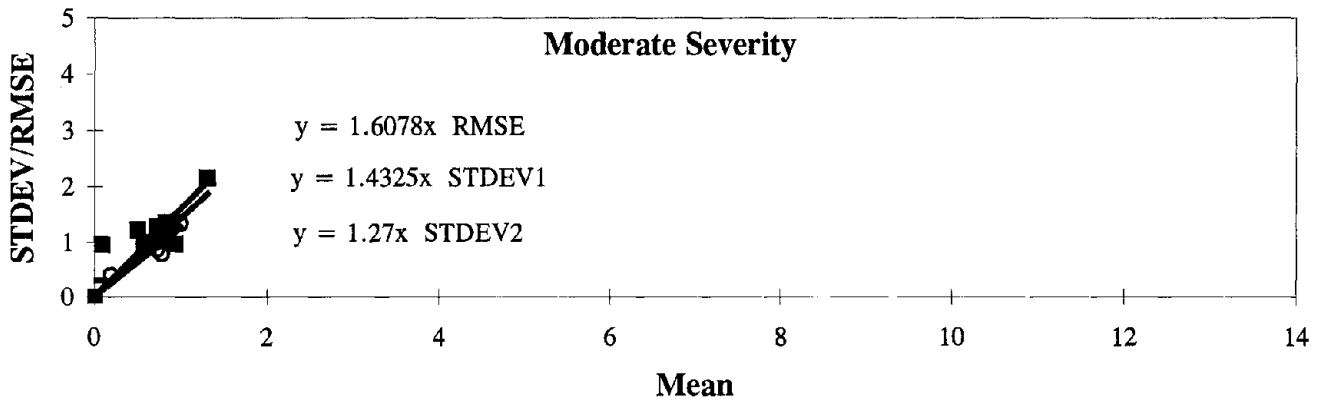
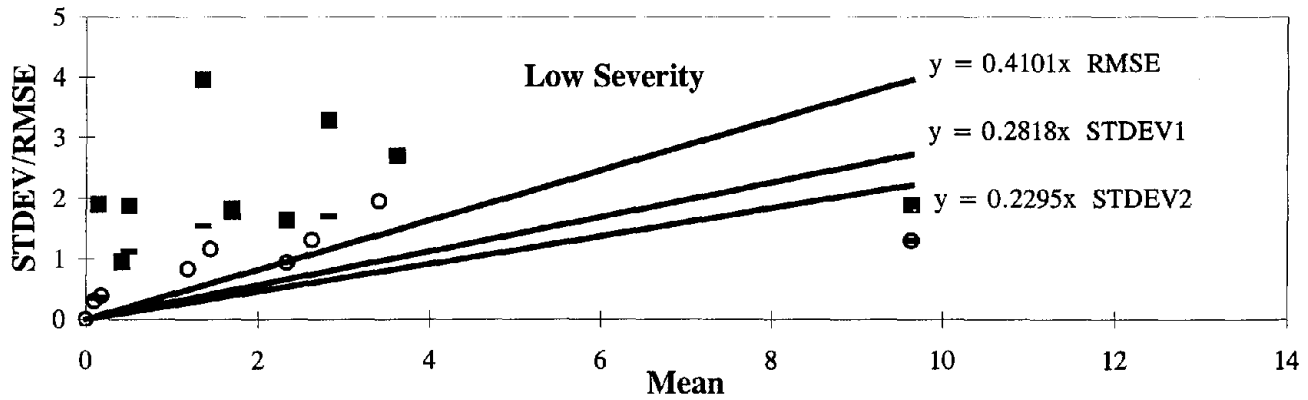
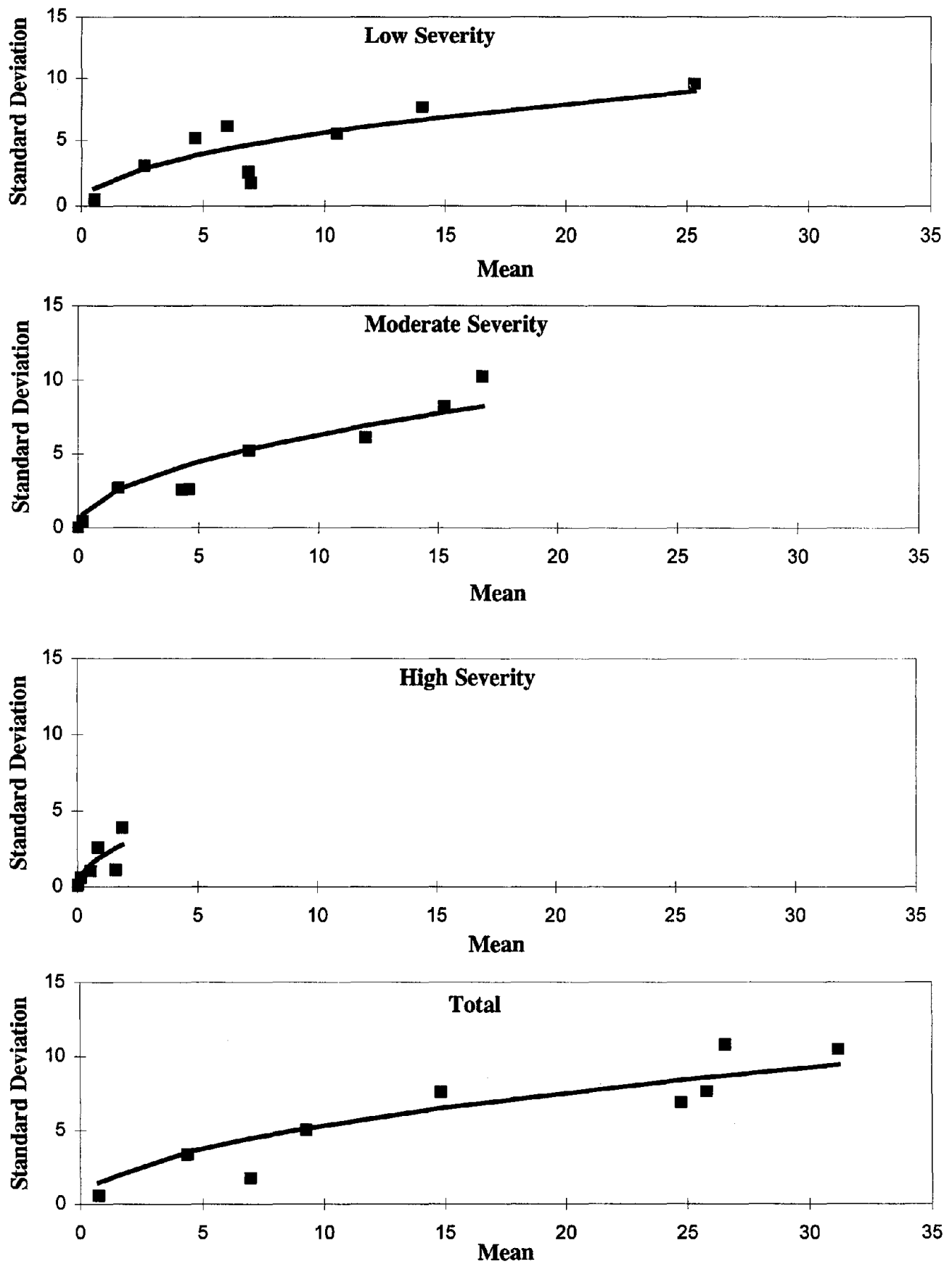


Figure 33. Spalling of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Standard Deviation/RMSE Vs. Mean.



**Figure 34. Fatigue Cracking (Sq. Meters) - AC Pavements, Manual Surveys:
Standard Deviation Vs. Mean.**

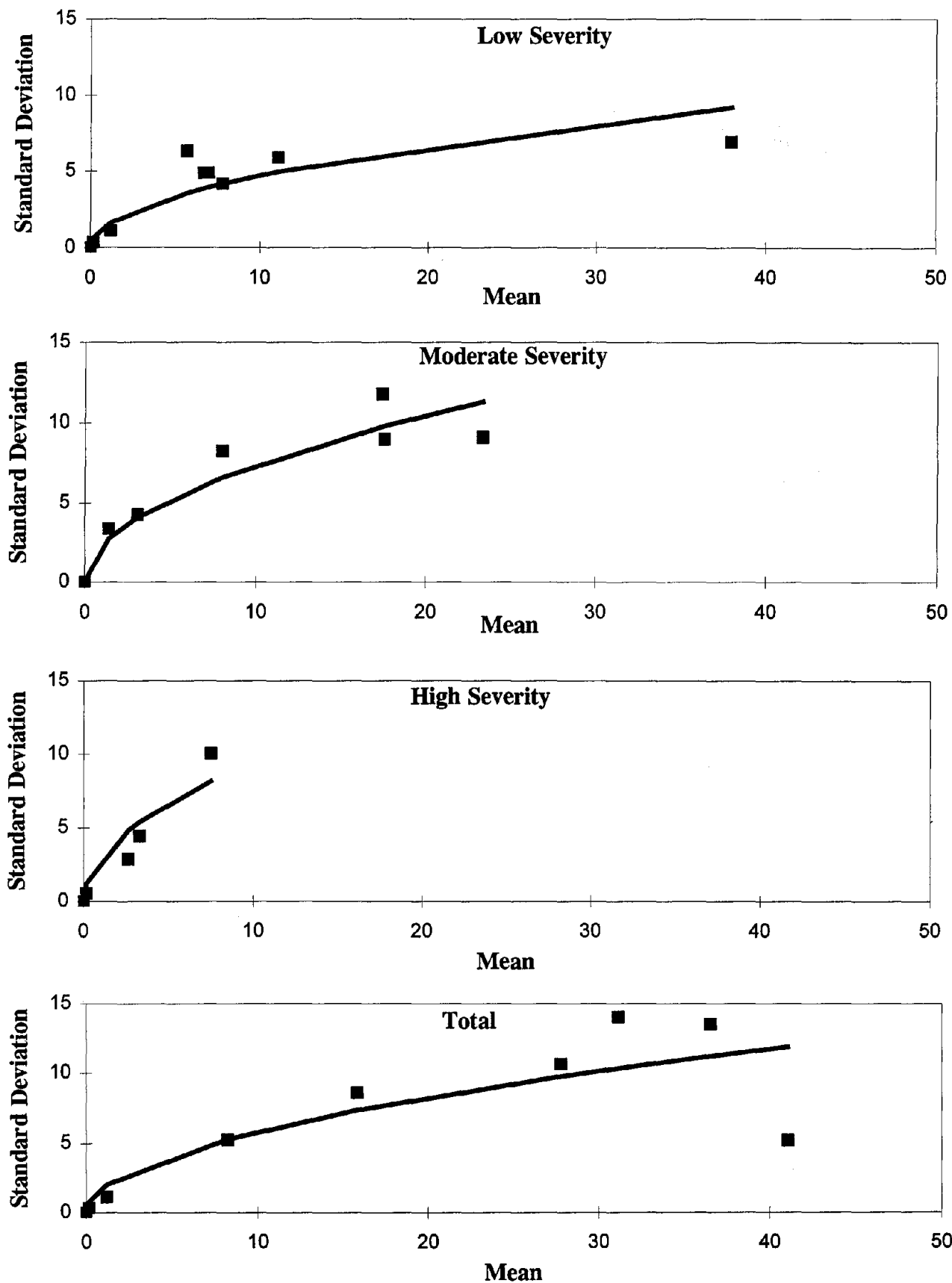


Figure 35. Longitudinal Cracking WP (Meters) - AC Pavements, Manual Surveys: Standard Deviation Vs. Mean.

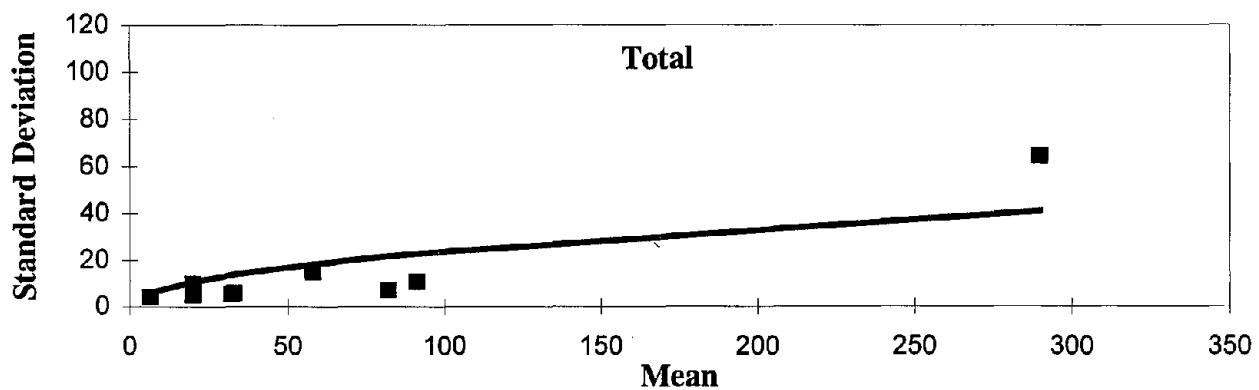
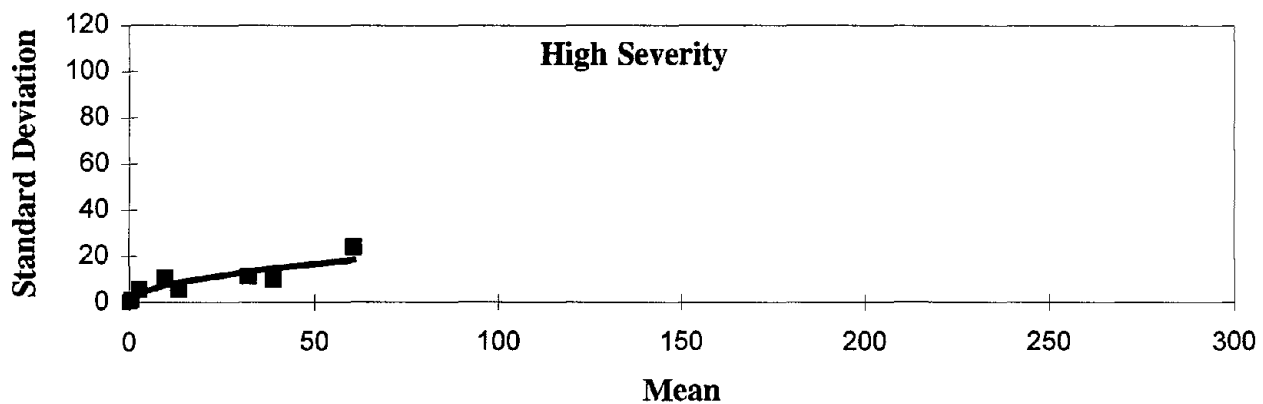
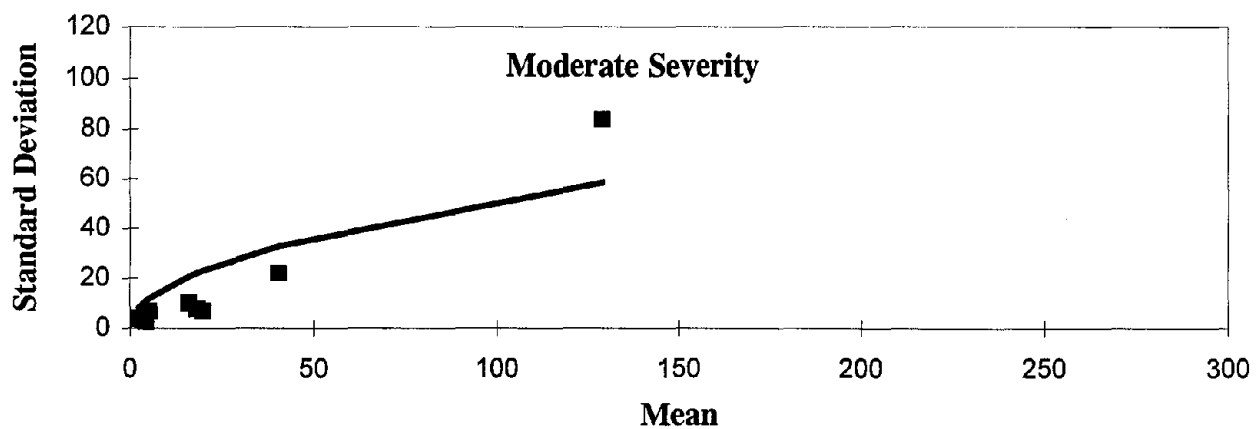
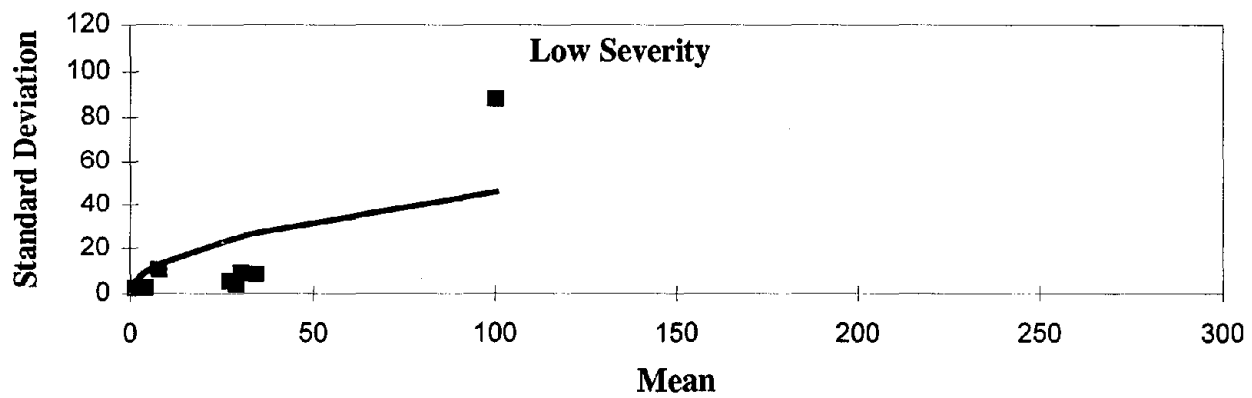
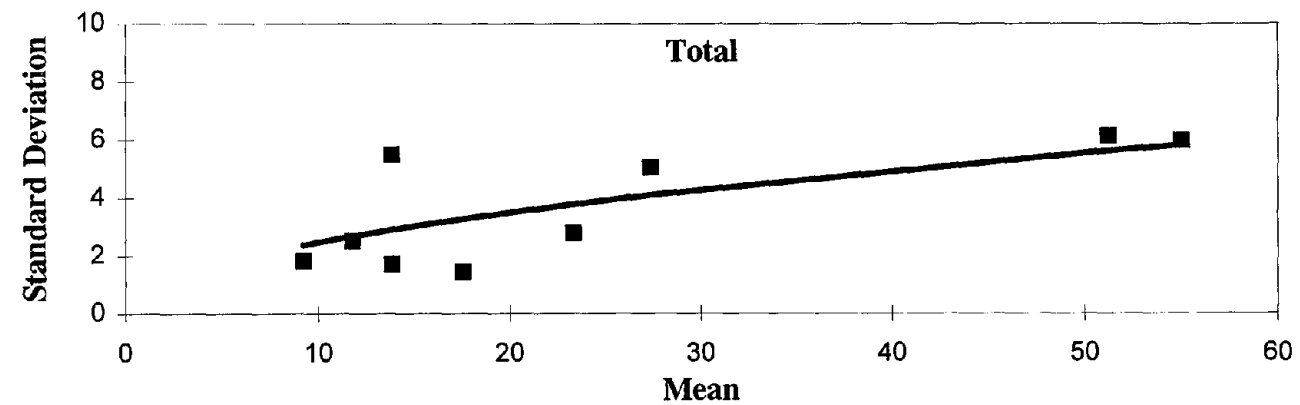
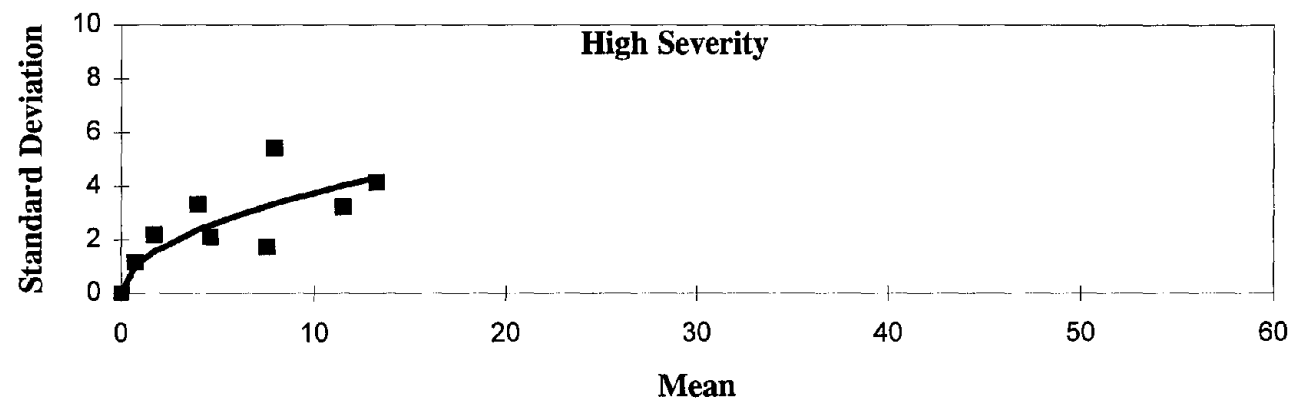
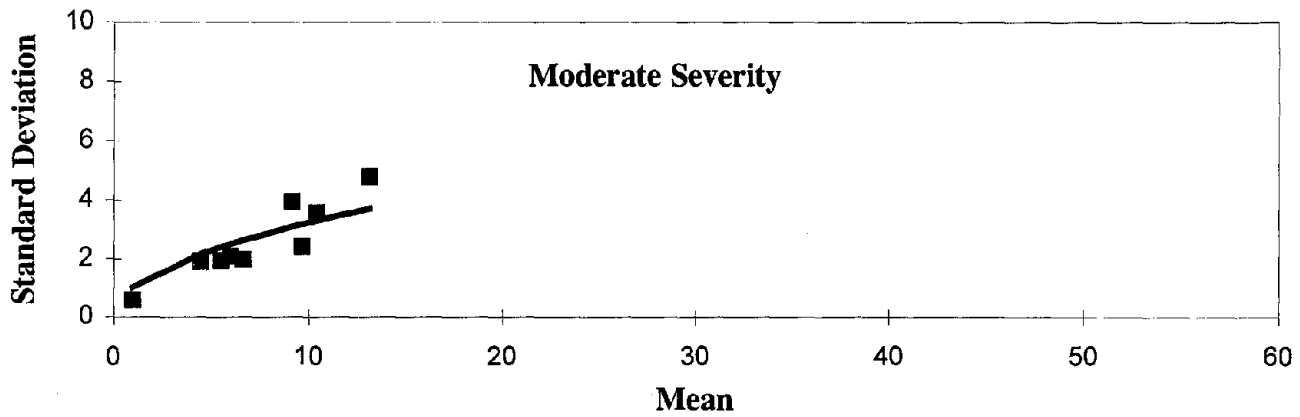
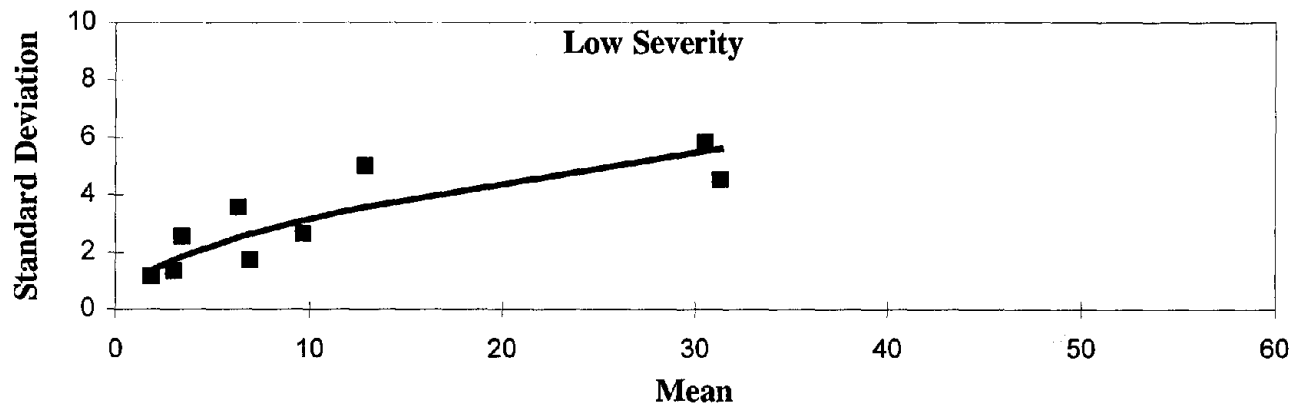


Figure 36. Longitudinal Cracking NWP (Meters) - AC Pavements, Manual Surveys: Standard Deviation Vs. Mean.



**Figure 37. Transverse Cracking (No.) - AC Pavements, Manual Surveys:
Standard Deviation Vs. Mean.**

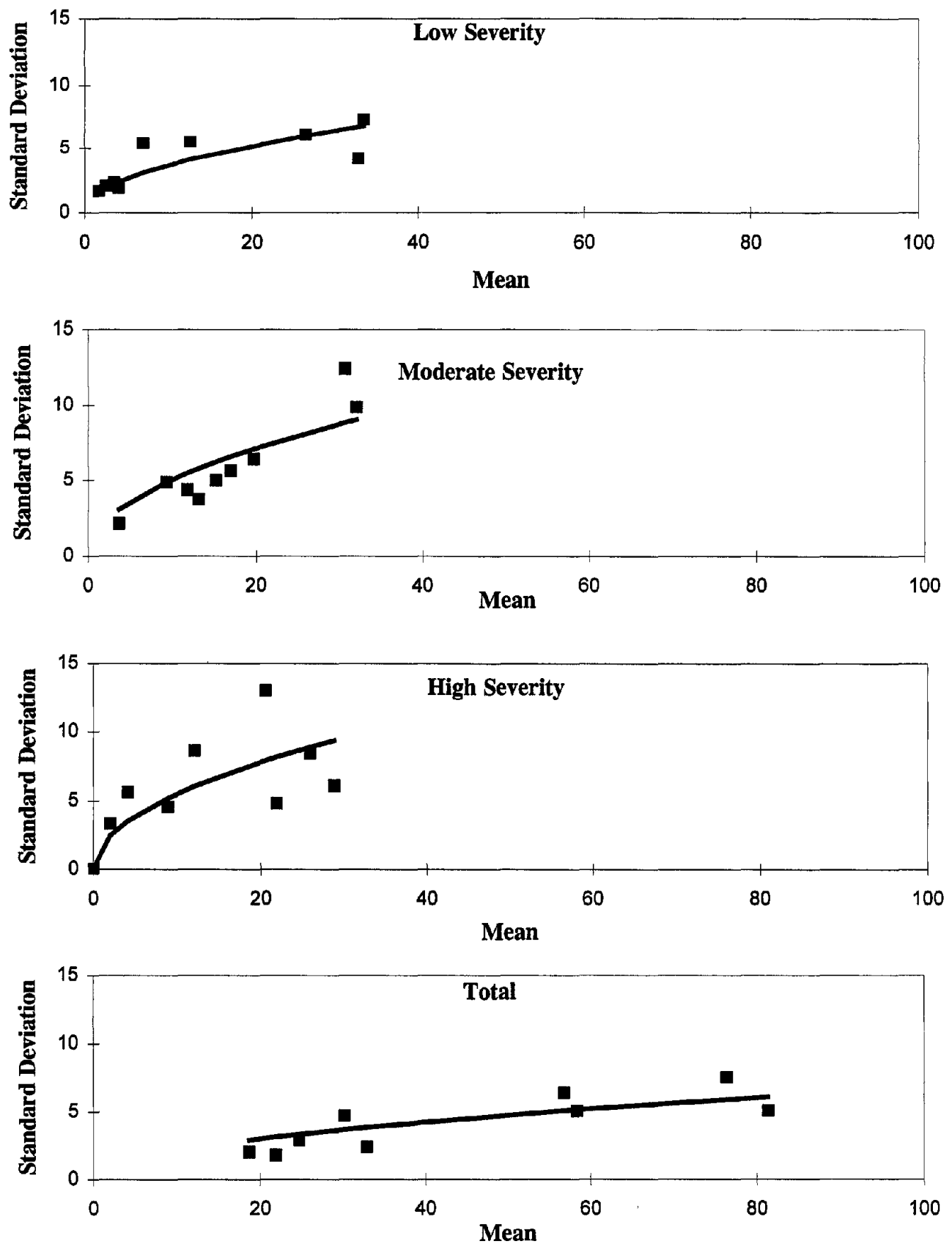
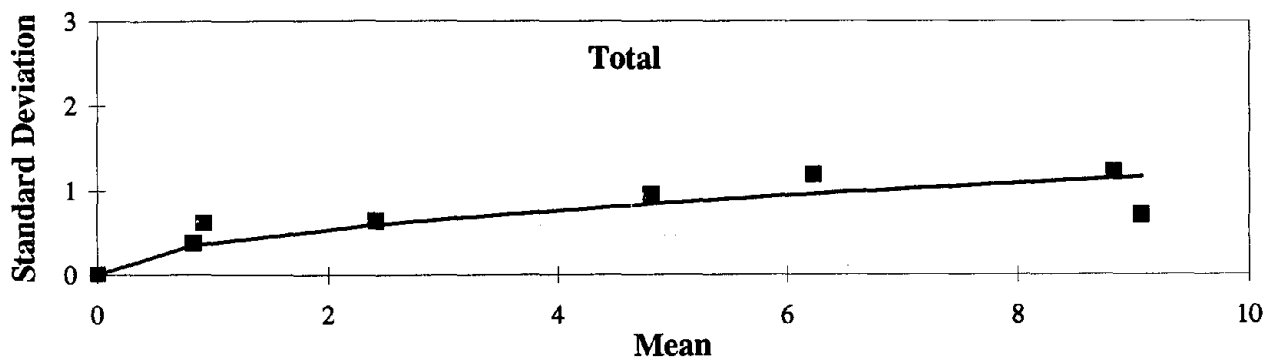
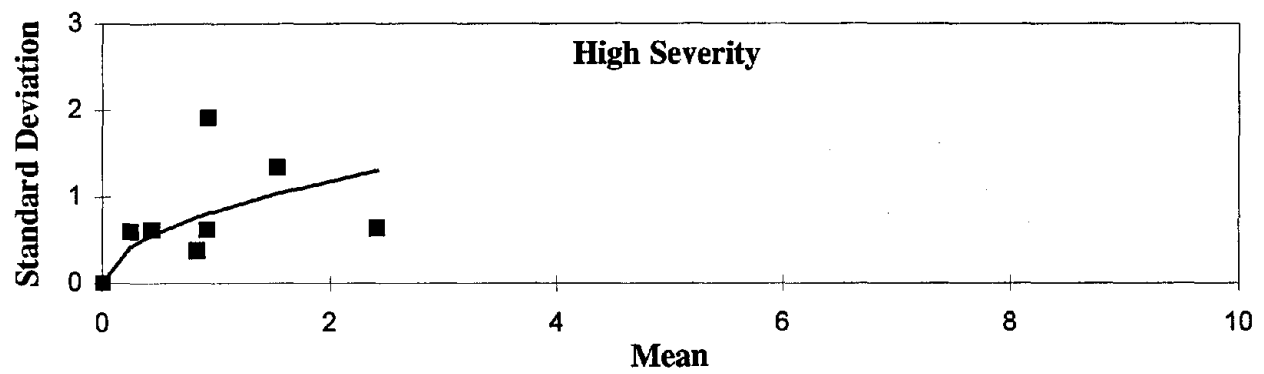
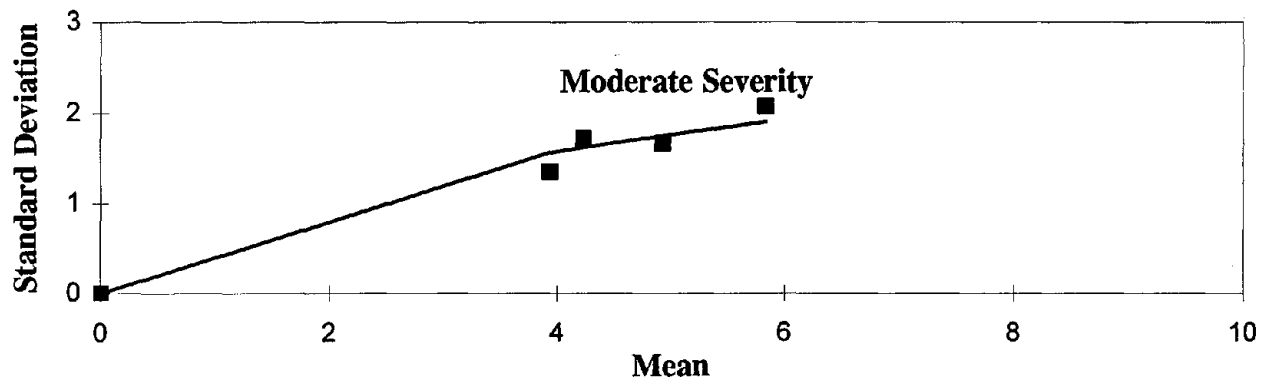
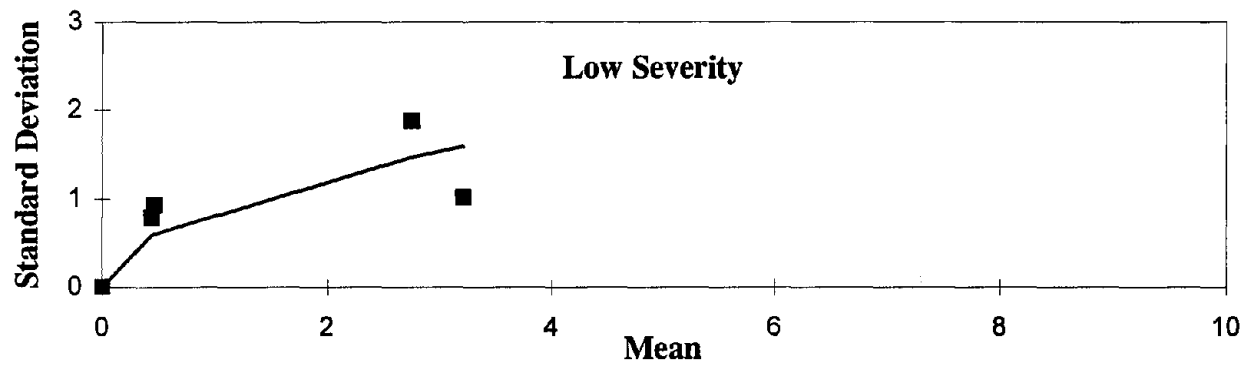


Figure 38. Transverse Cracking (Meters) - AC Pavements, Manual Surveys: Standard Deviation Vs. Mean.



**Figure 39. Corner Breaks (No.) - PCC Pavements, Manual Surveys:
Standard Deviation Vs. Mean.**

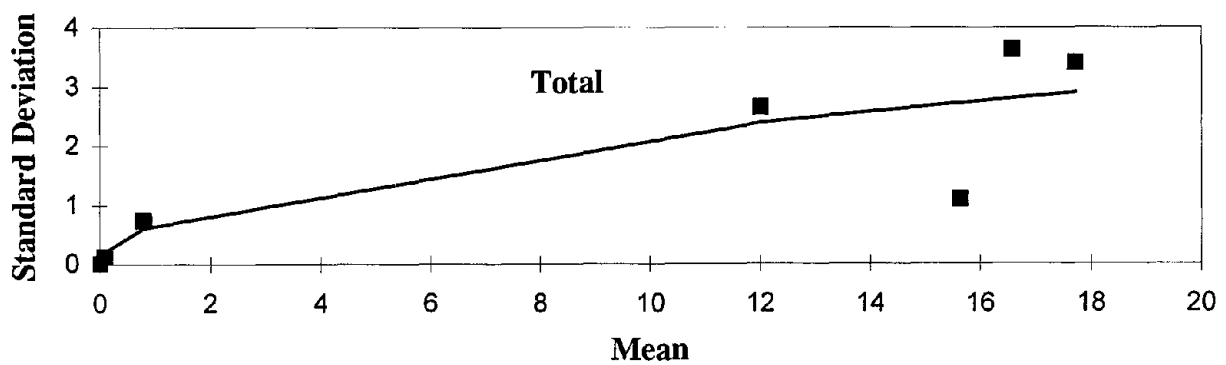
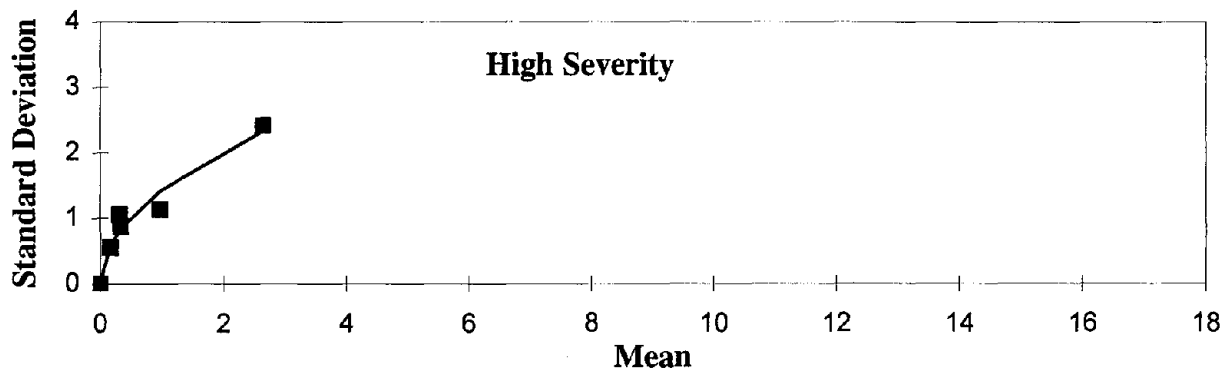
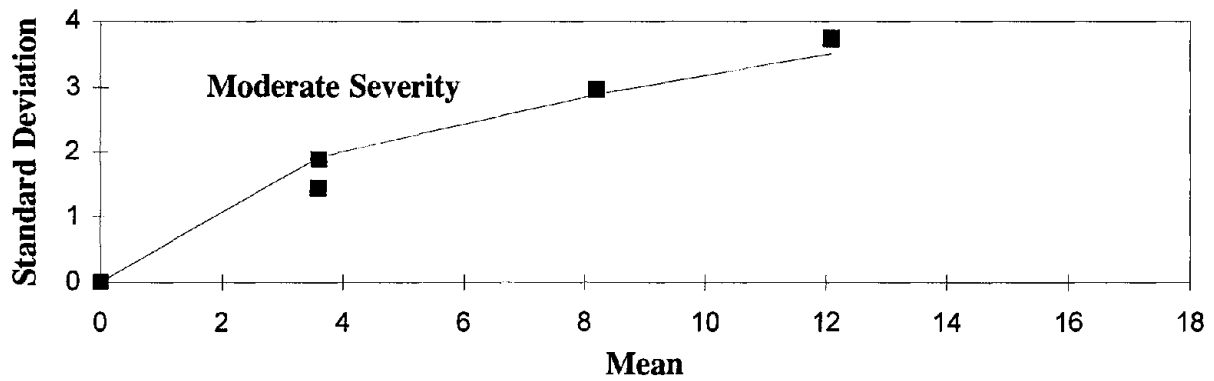
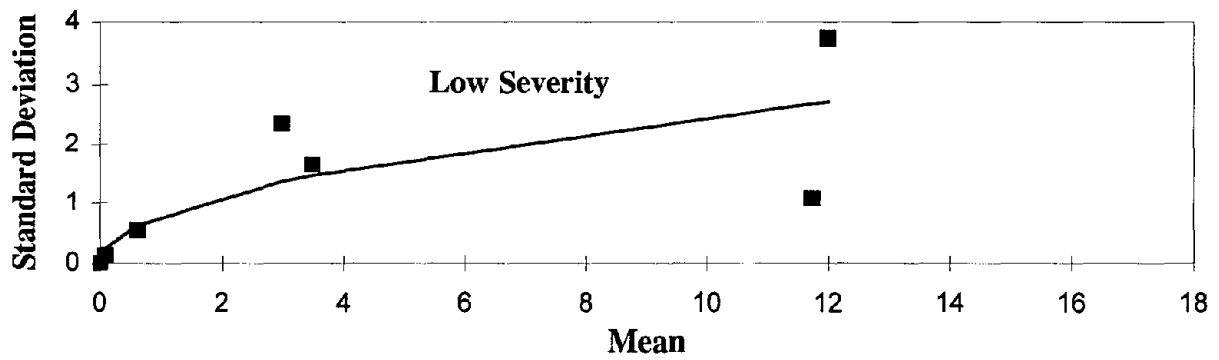


Figure 40. Longitudinal Cracking (Meters) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.

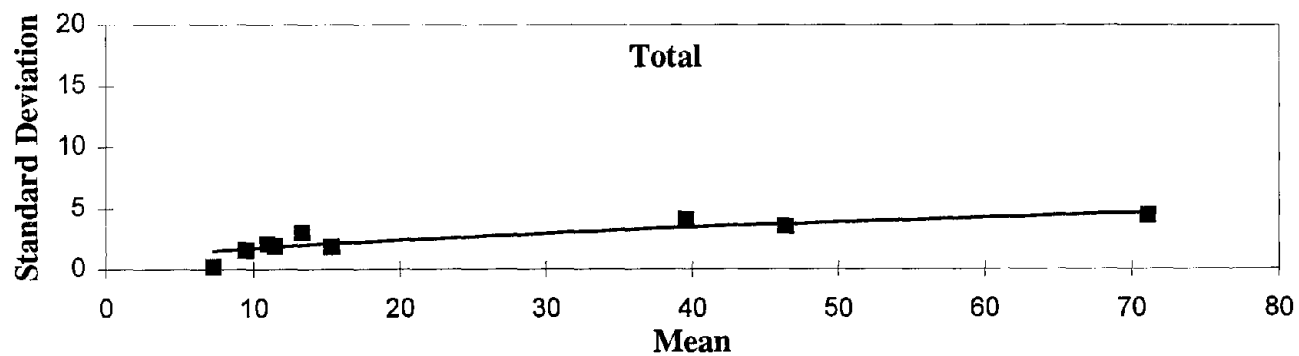
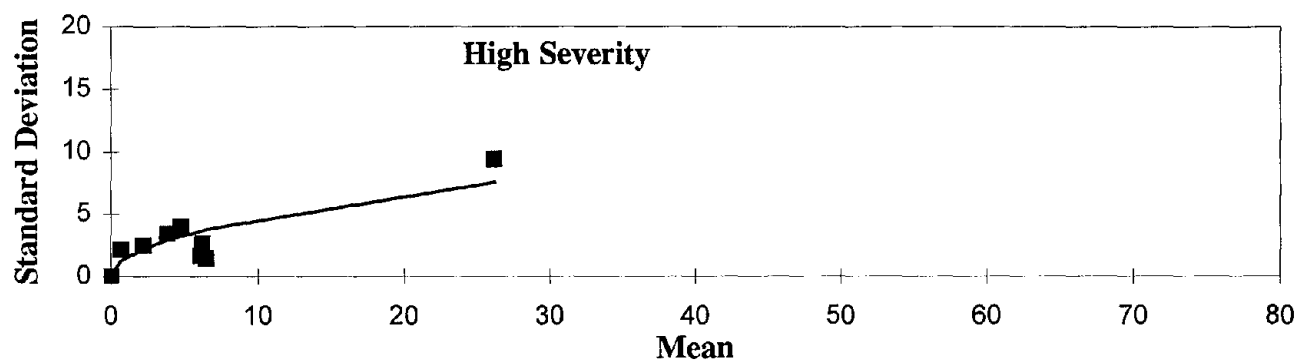
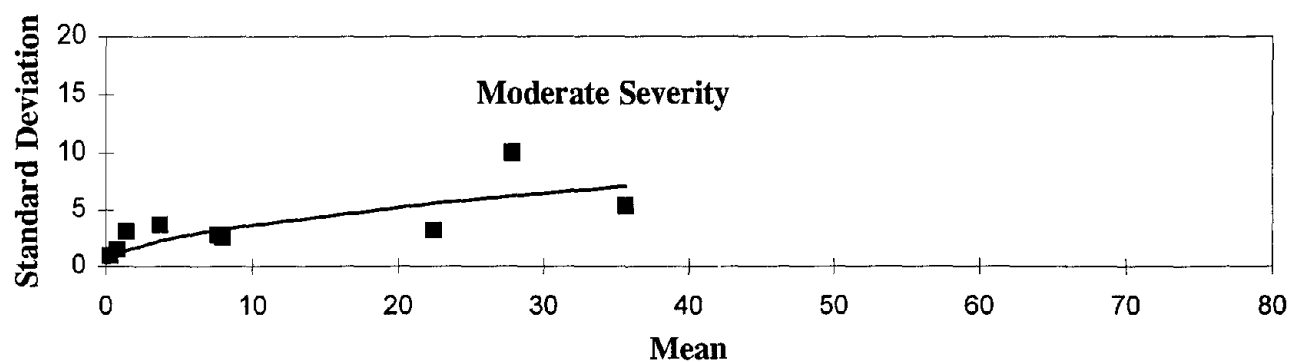
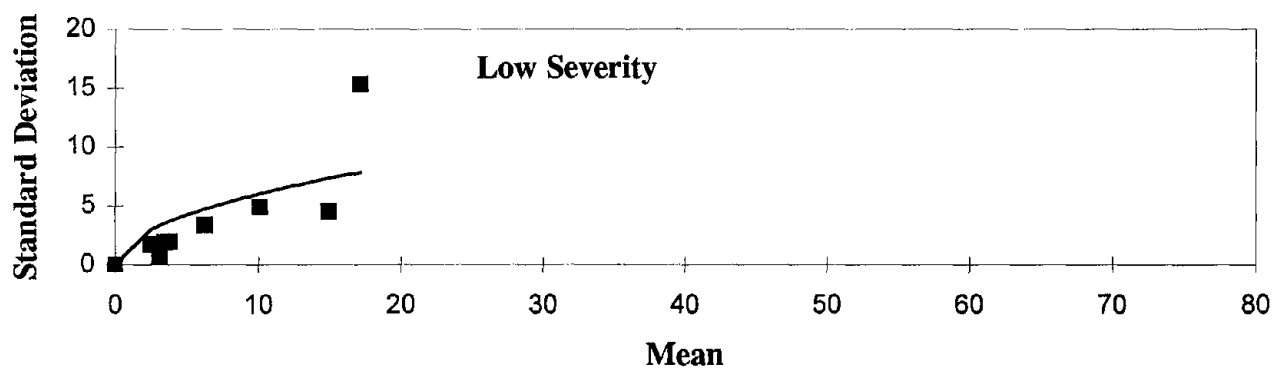


Figure 41. Transverse Cracking (Meters) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.

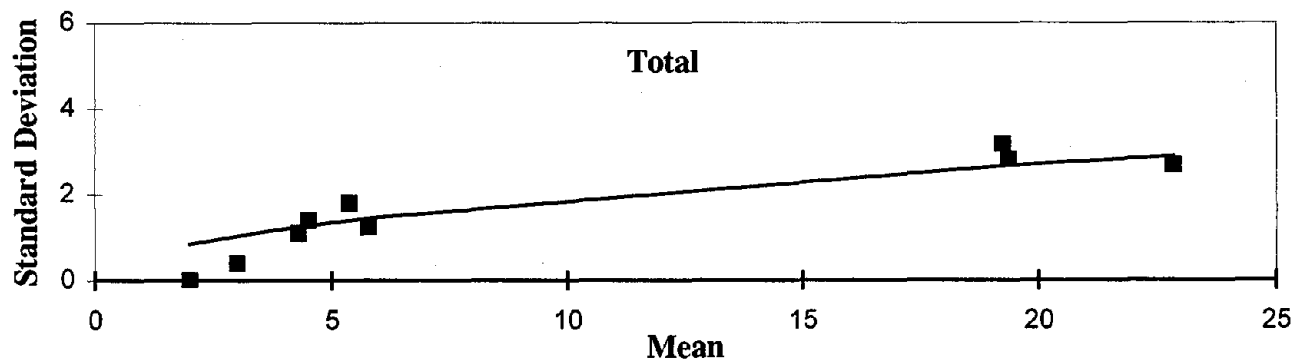
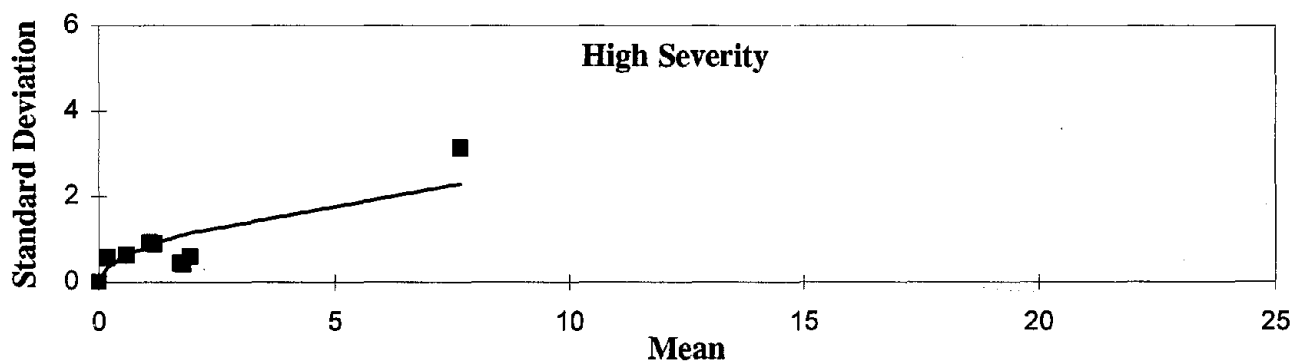
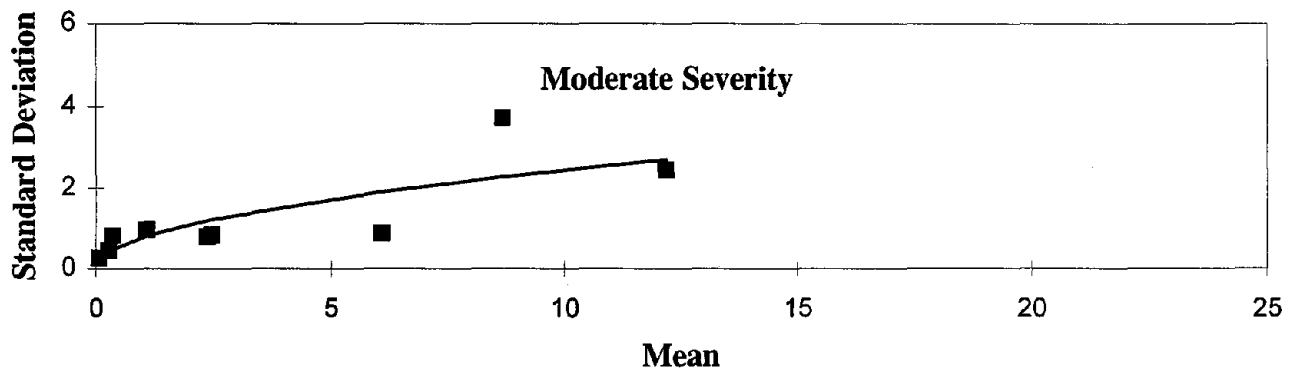
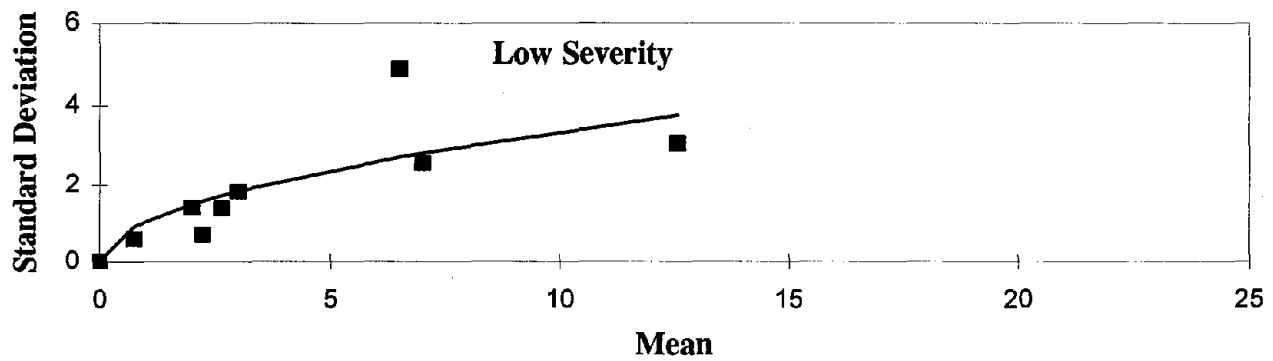


Figure 42. Transverse Cracking (No.) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.

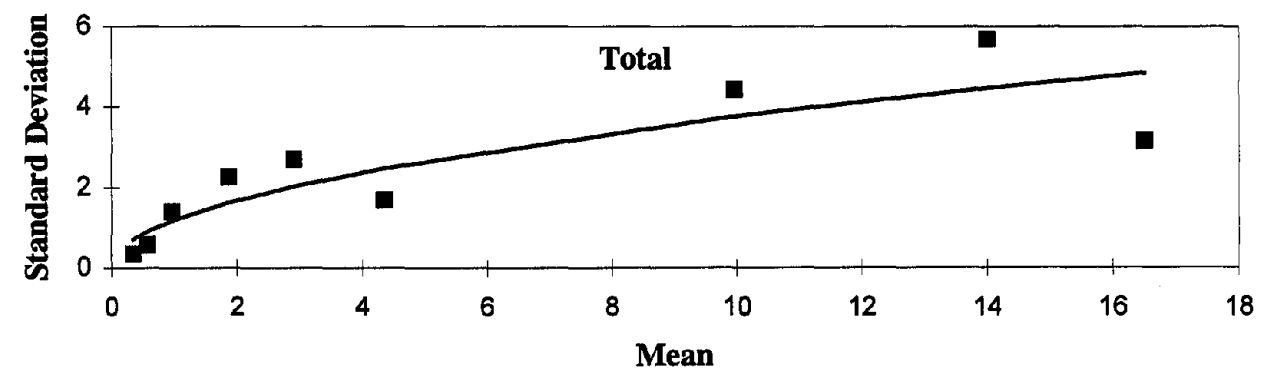
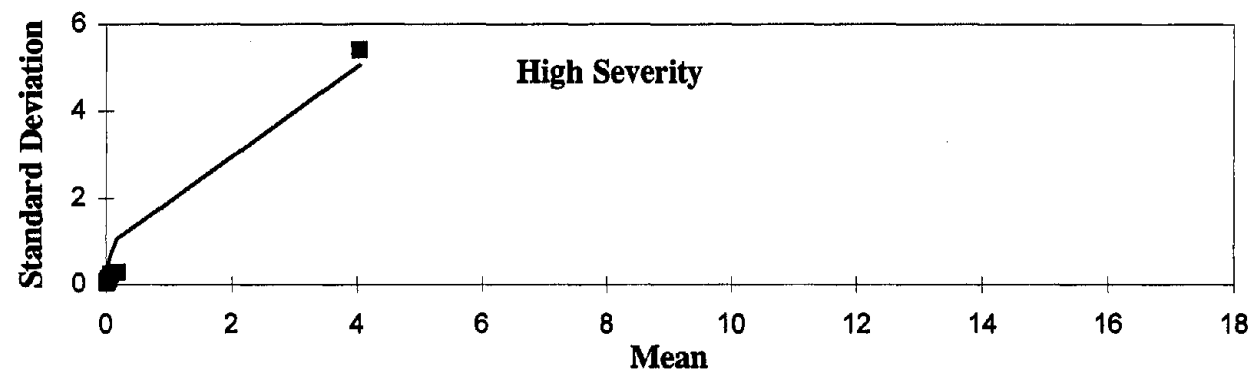
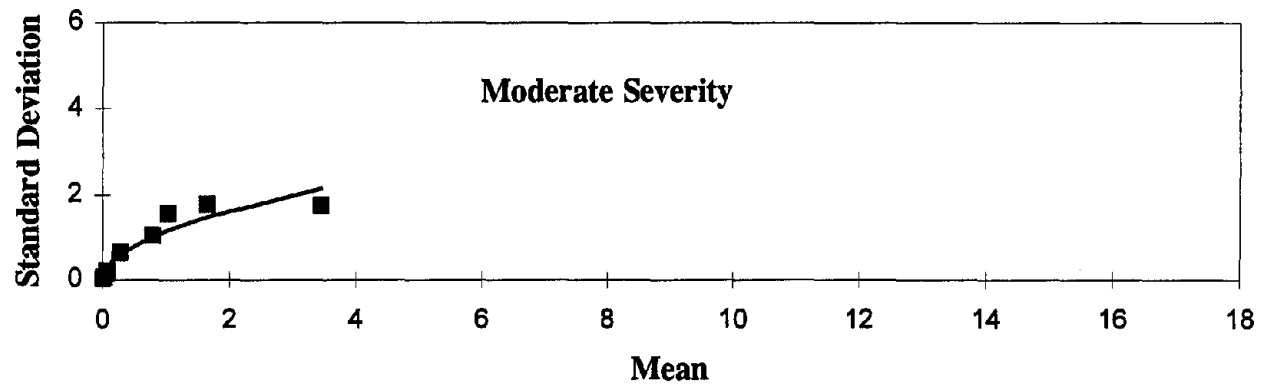
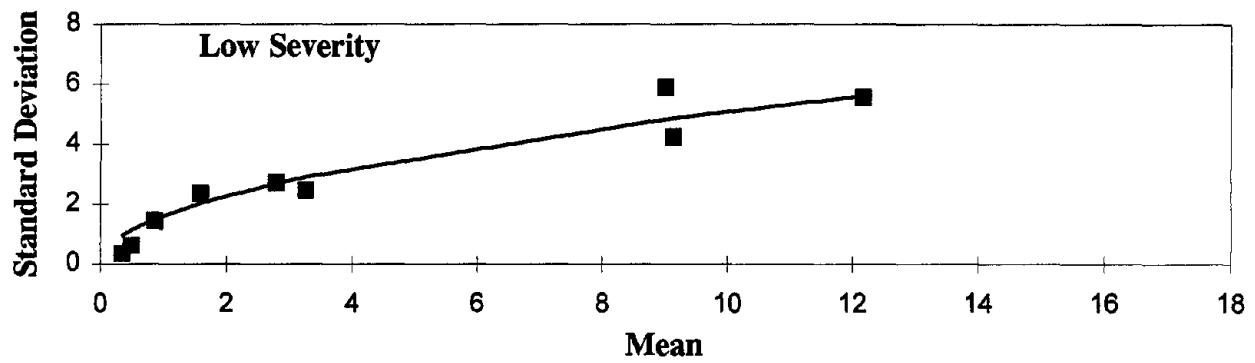


Figure 43. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.

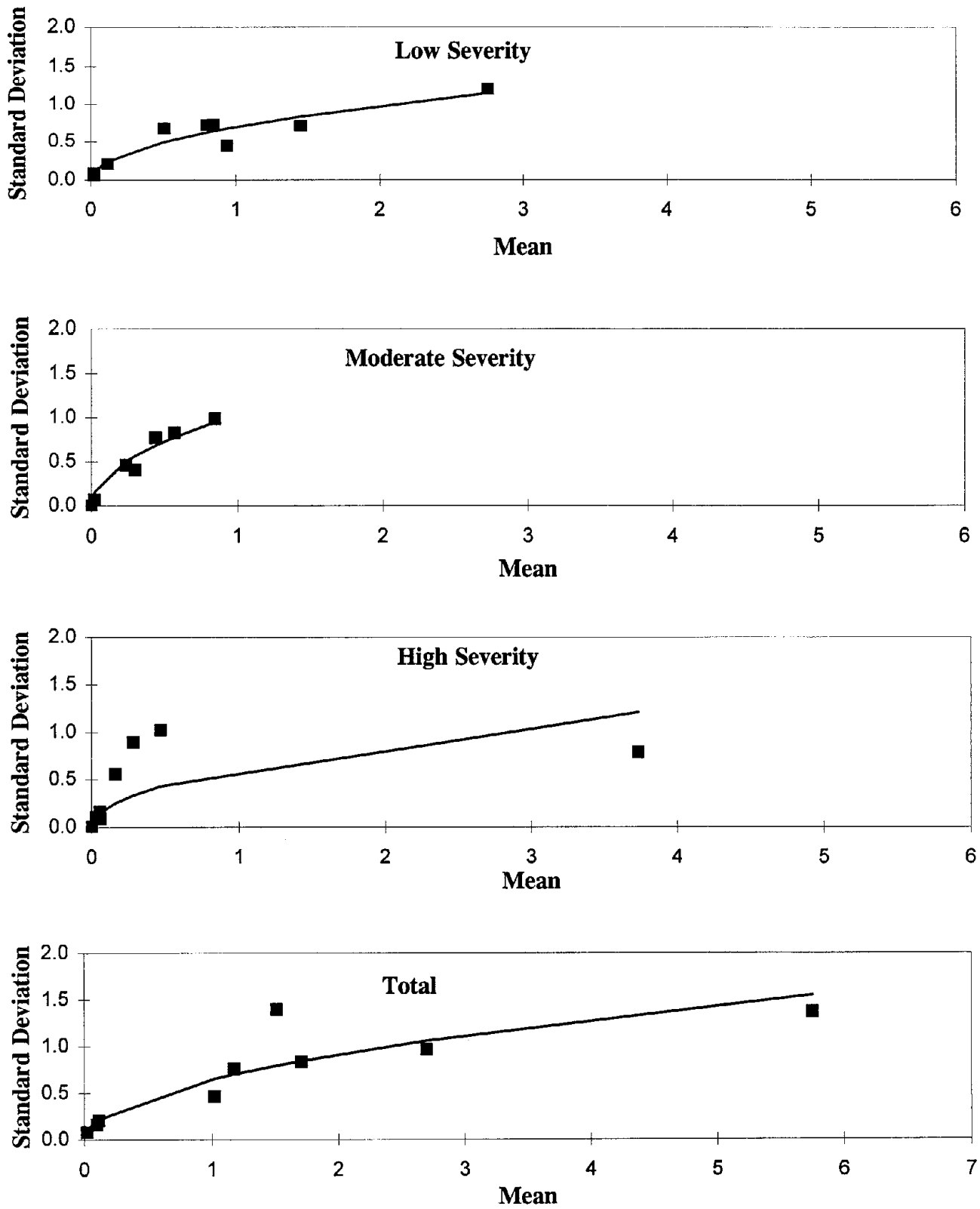


Figure 44. Spalling of Transverse Joints (Meters) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.

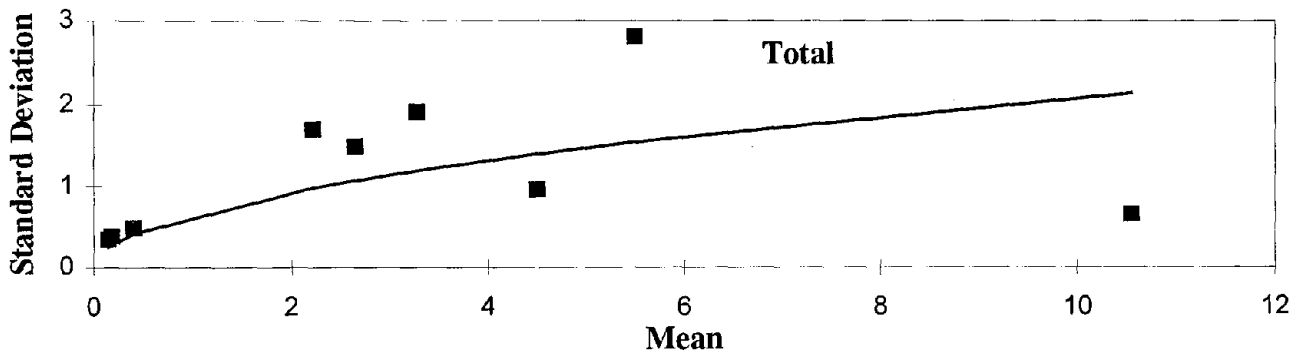
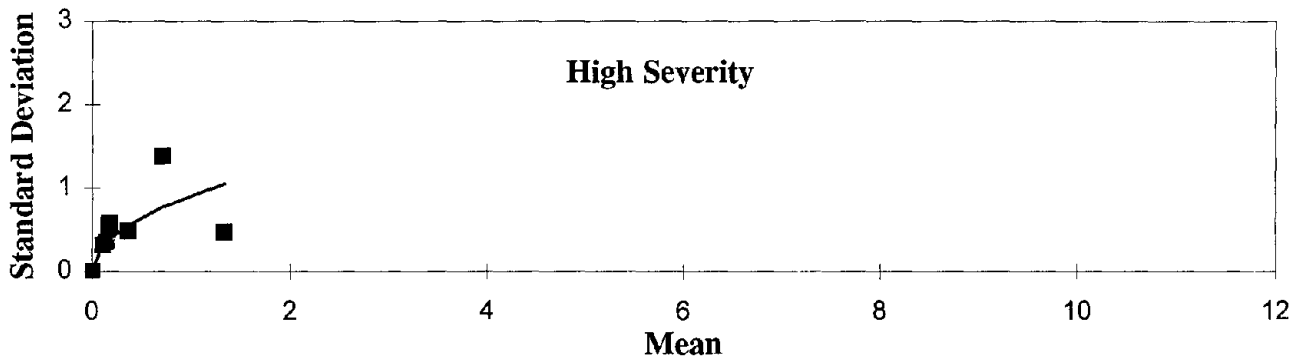
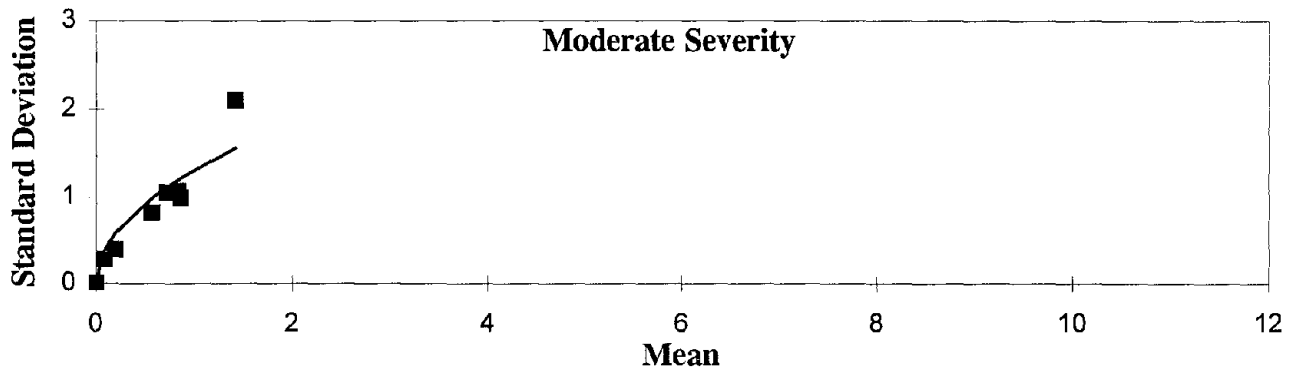
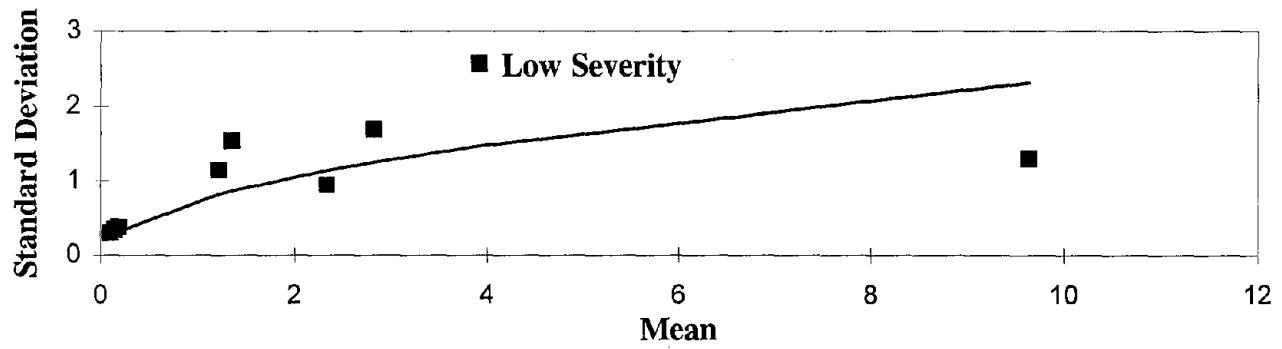
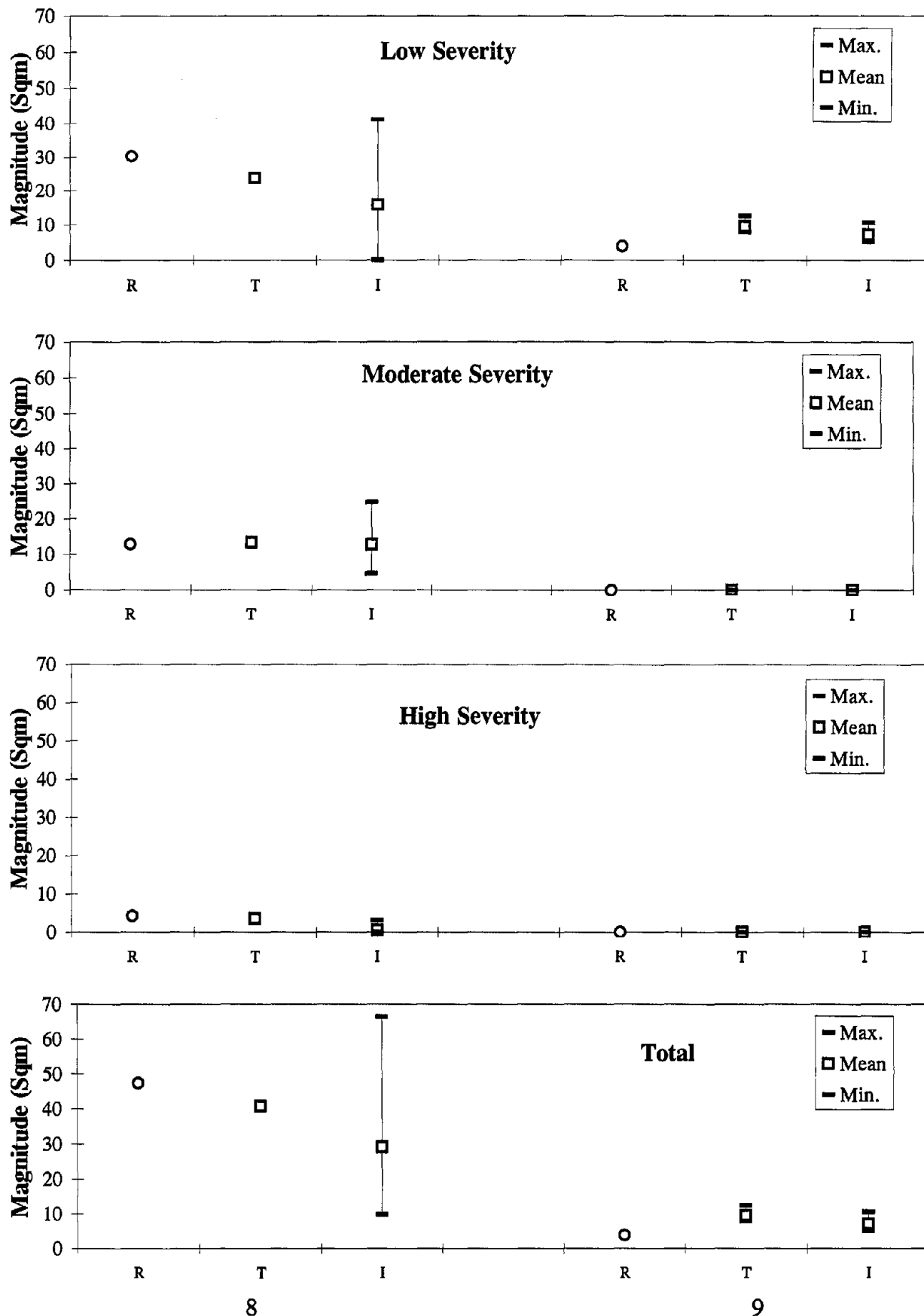
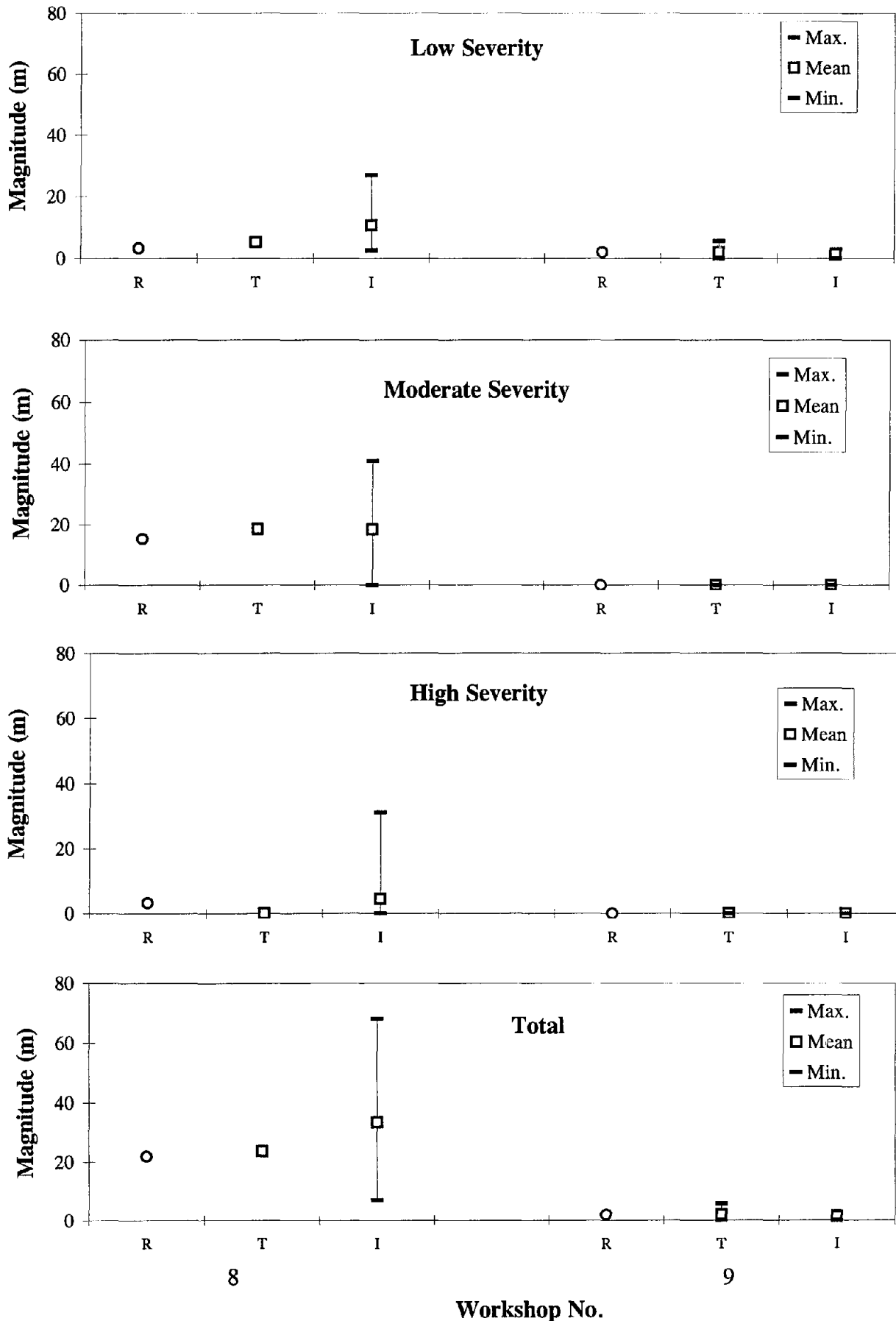


Figure 45. Spalling of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Standard Deviation Vs. Mean.



Workshop No.
Figure 46. Fatigue Cracking (Sq. Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.



**Figure 47. Longitudinal Cracking WP (Meters) - AC Pavements,
Manual Surveys: Reference, Team, and Individual Values.**

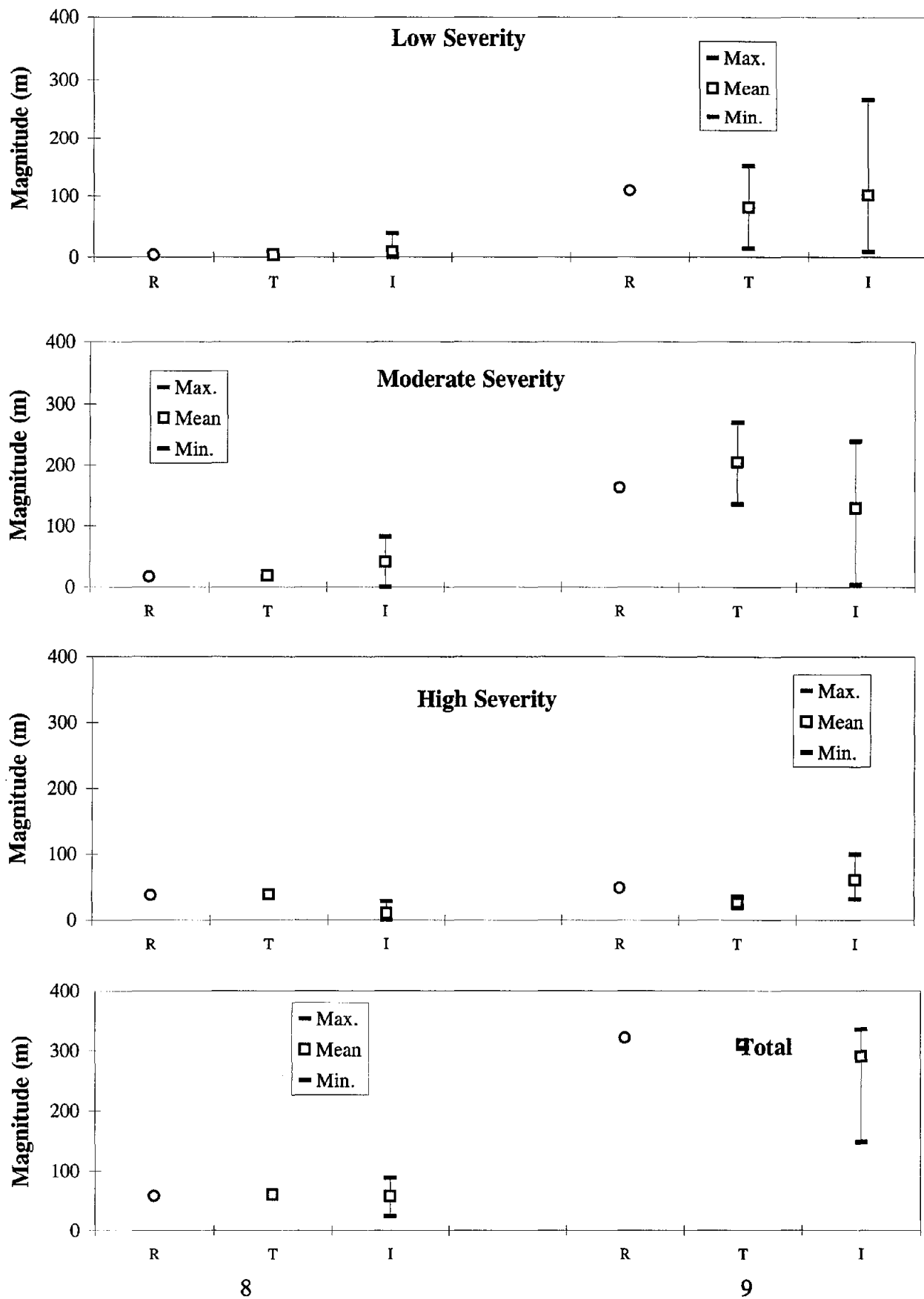


Figure 48. Longitudinal Cracking NWP (Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.

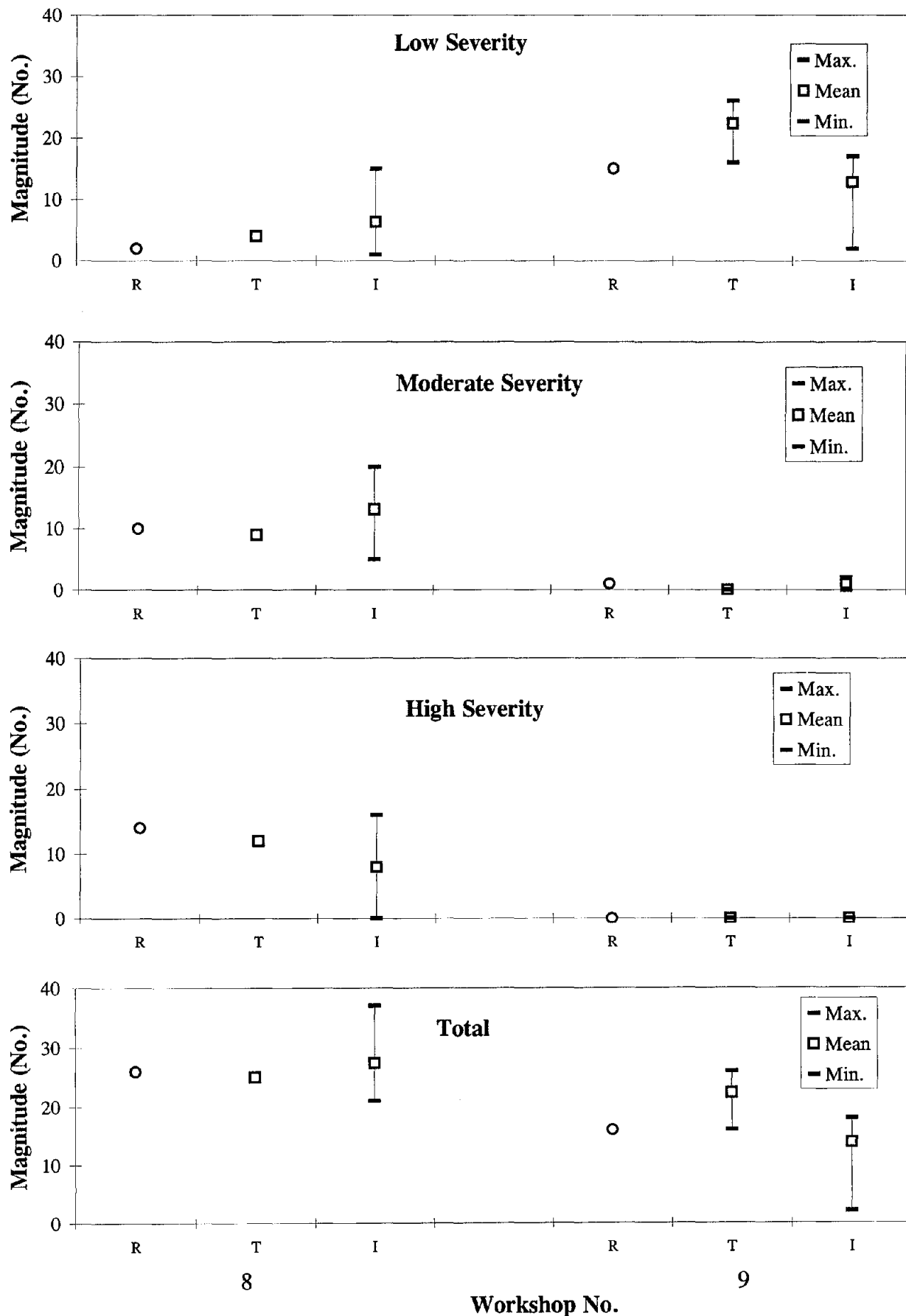


Figure 49. Transverse Cracking (No.) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.

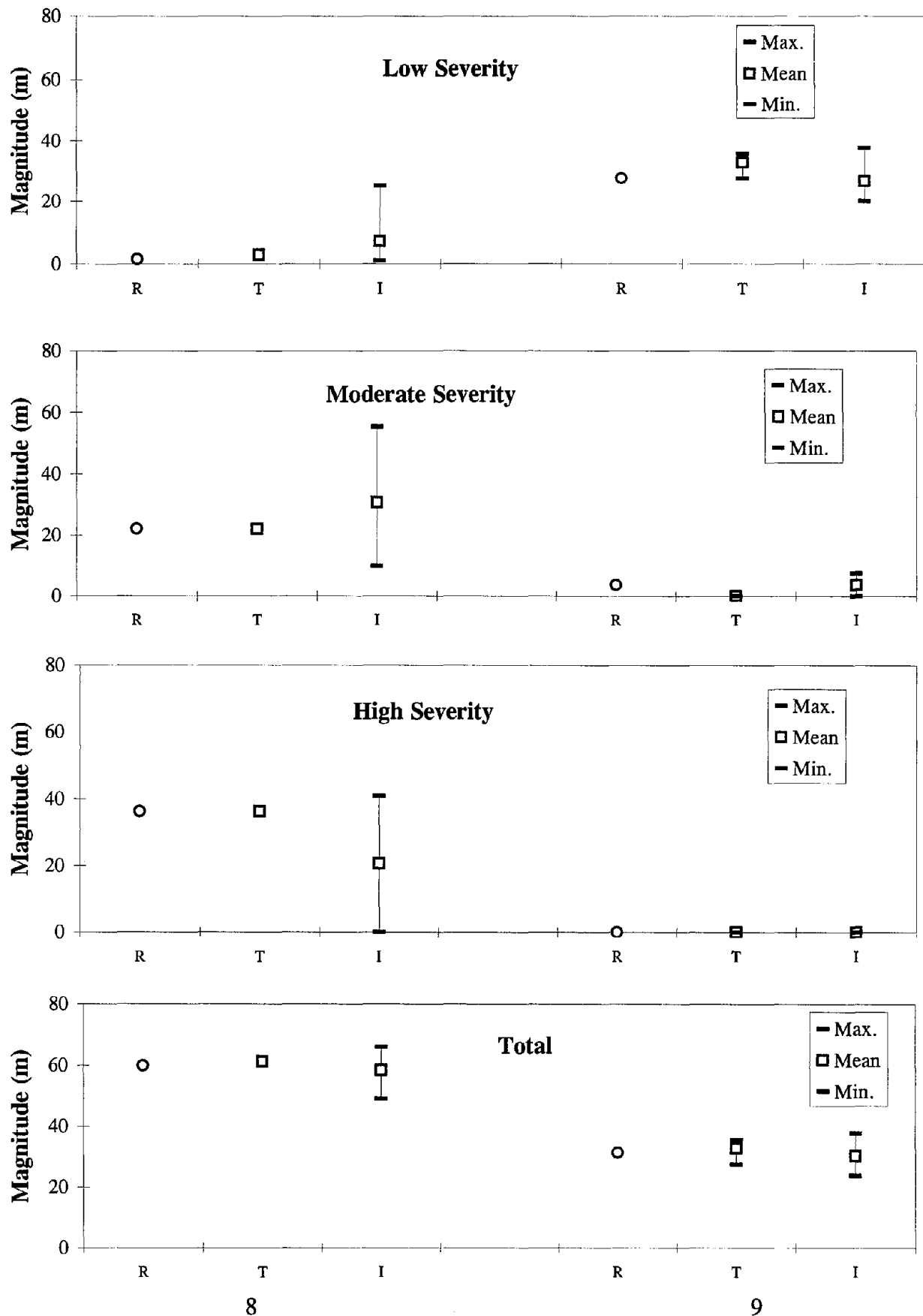


Figure 50. Transverse Cracking (Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.

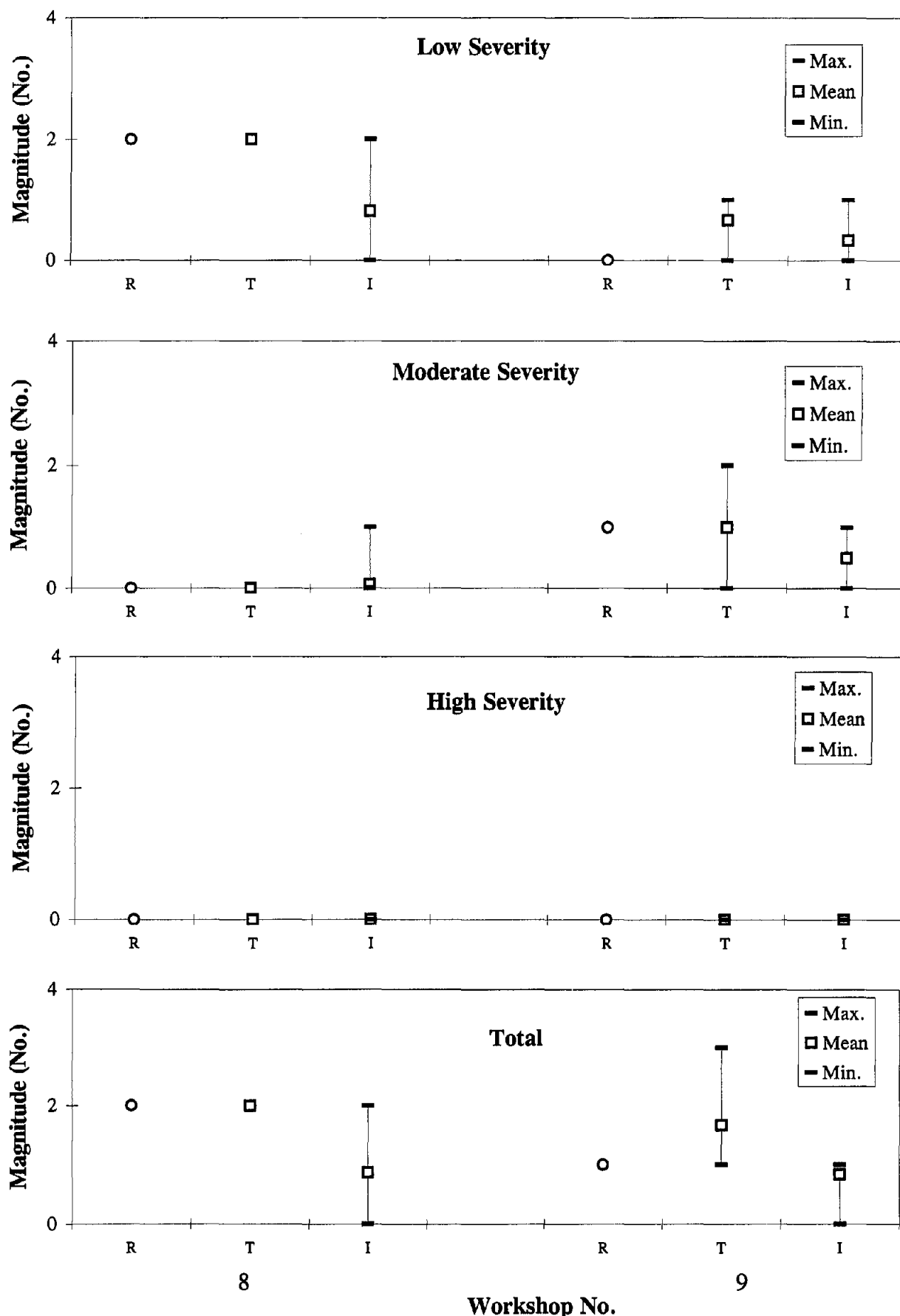


Figure 51. Patch/Patch Deterioration (No.) - AC Pavements,
Manual Surveys: Reference, Team, and Individual Values.

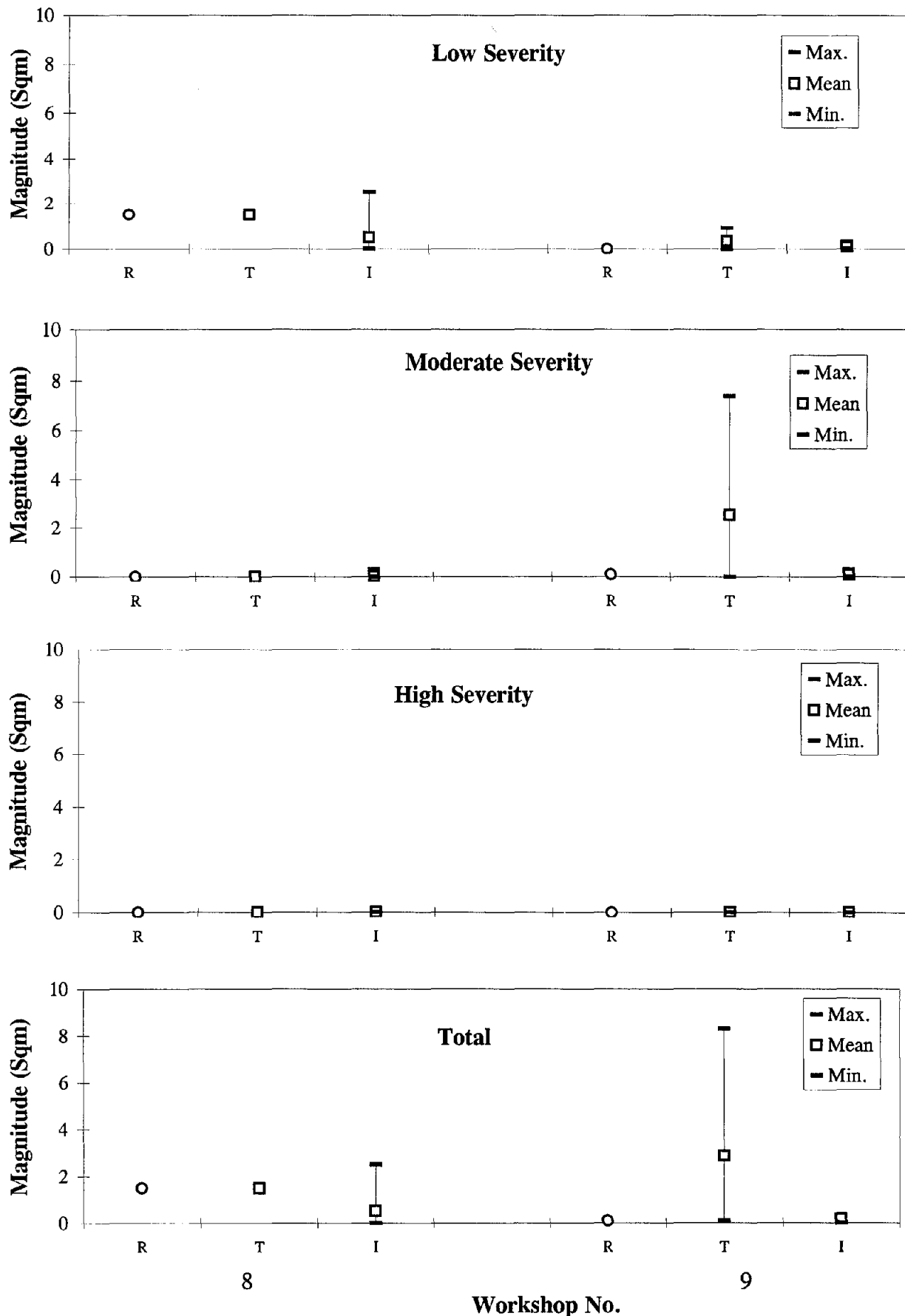


Figure 52. Patch/Patch Deterioration (Sq. Meters) - AC Pavements, Manual Surveys: Reference, Team, and Individual Values.

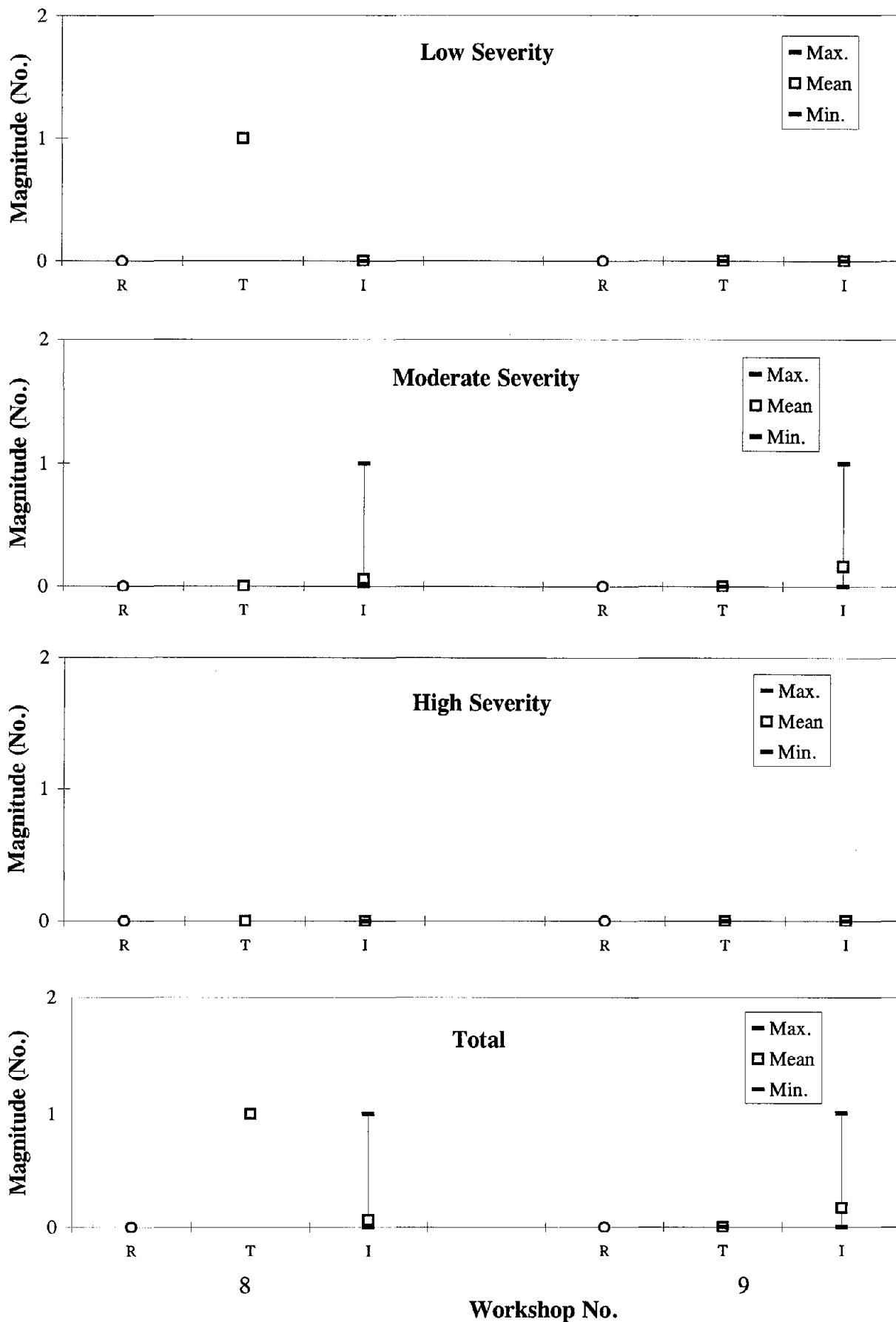


Figure 53. Potholes (No.) - AC Pavements,
Manual Surveys: Reference, Team, and Individual Values.

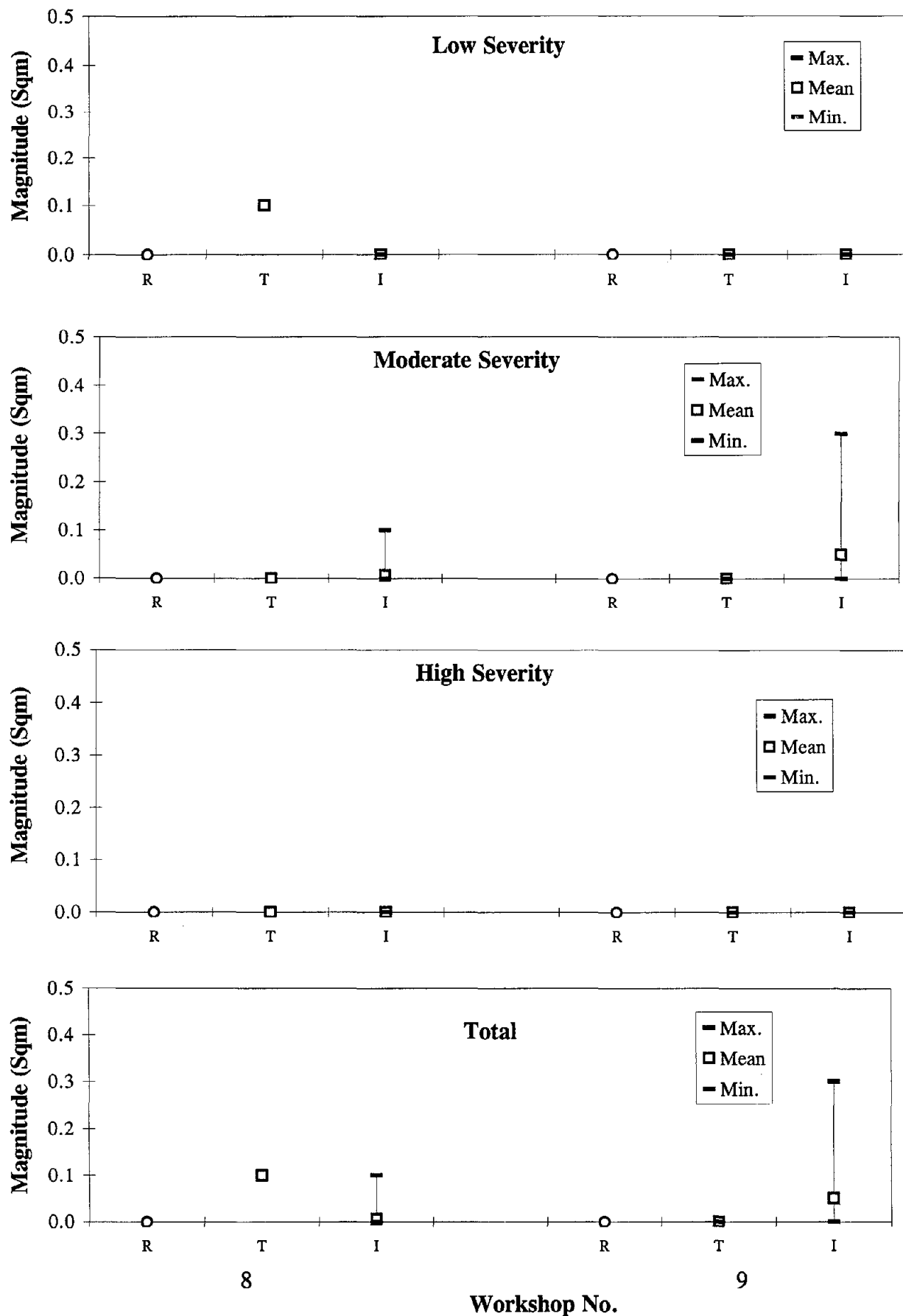


Figure 54. Potholes (Sq. Meters) - AC Pavements,
Manual Surveys: Reference, Team, and Individual Values.

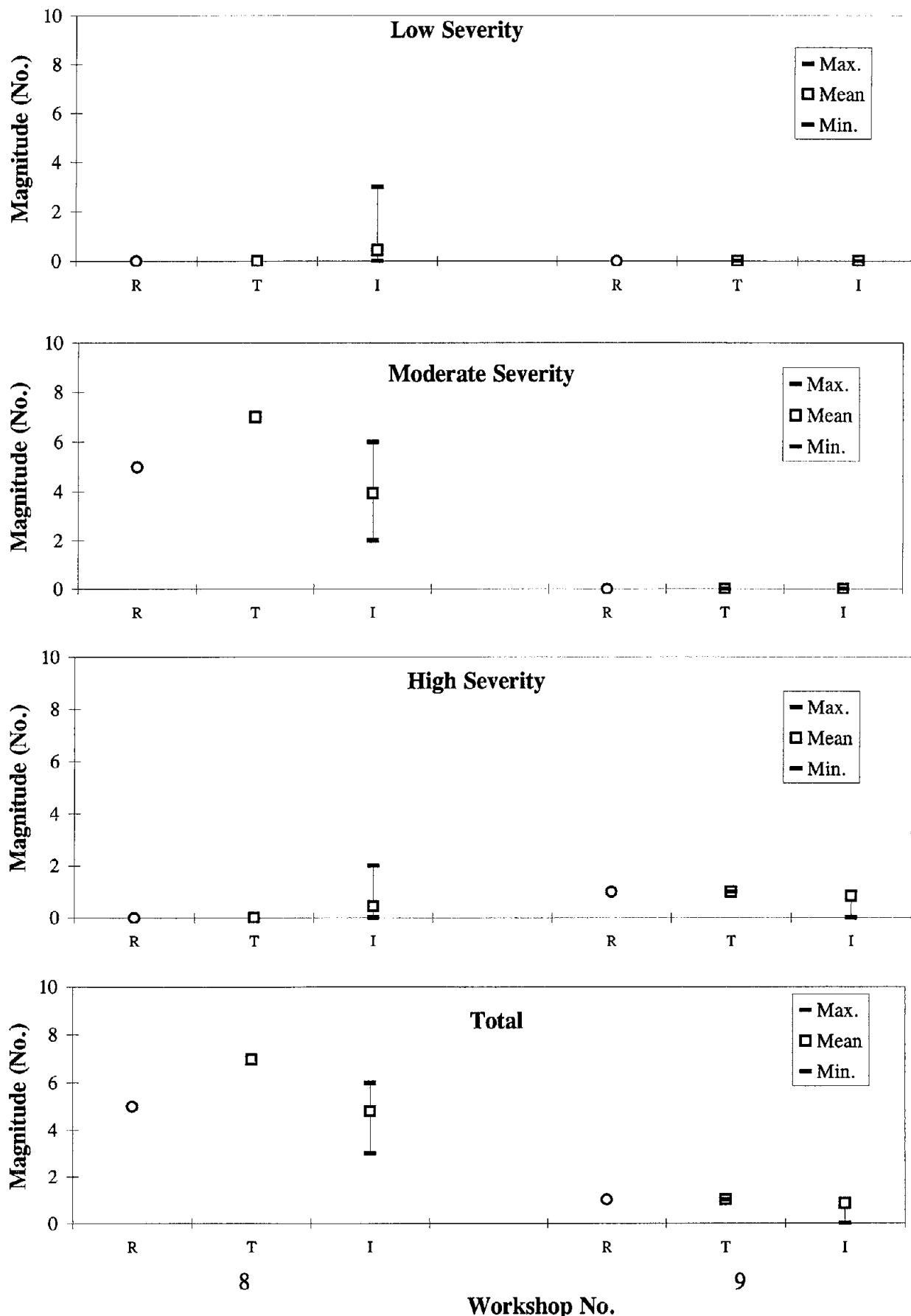


Figure 55. Corner Breaks (No.) - PCC Pavements,
Manual Surveys: Reference, Team, and Individual Values.

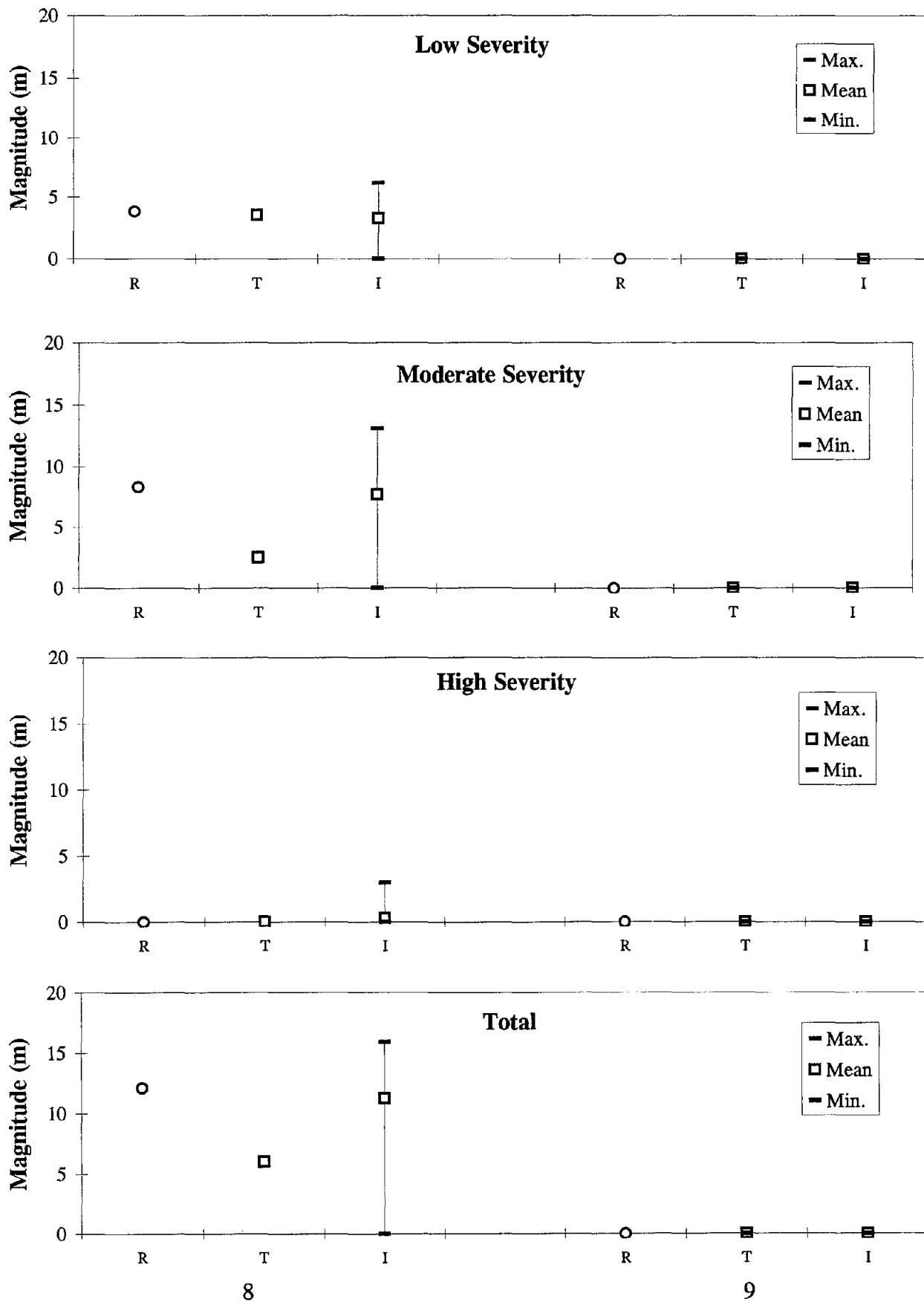


Figure 56. Longitudinal Cracking (Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

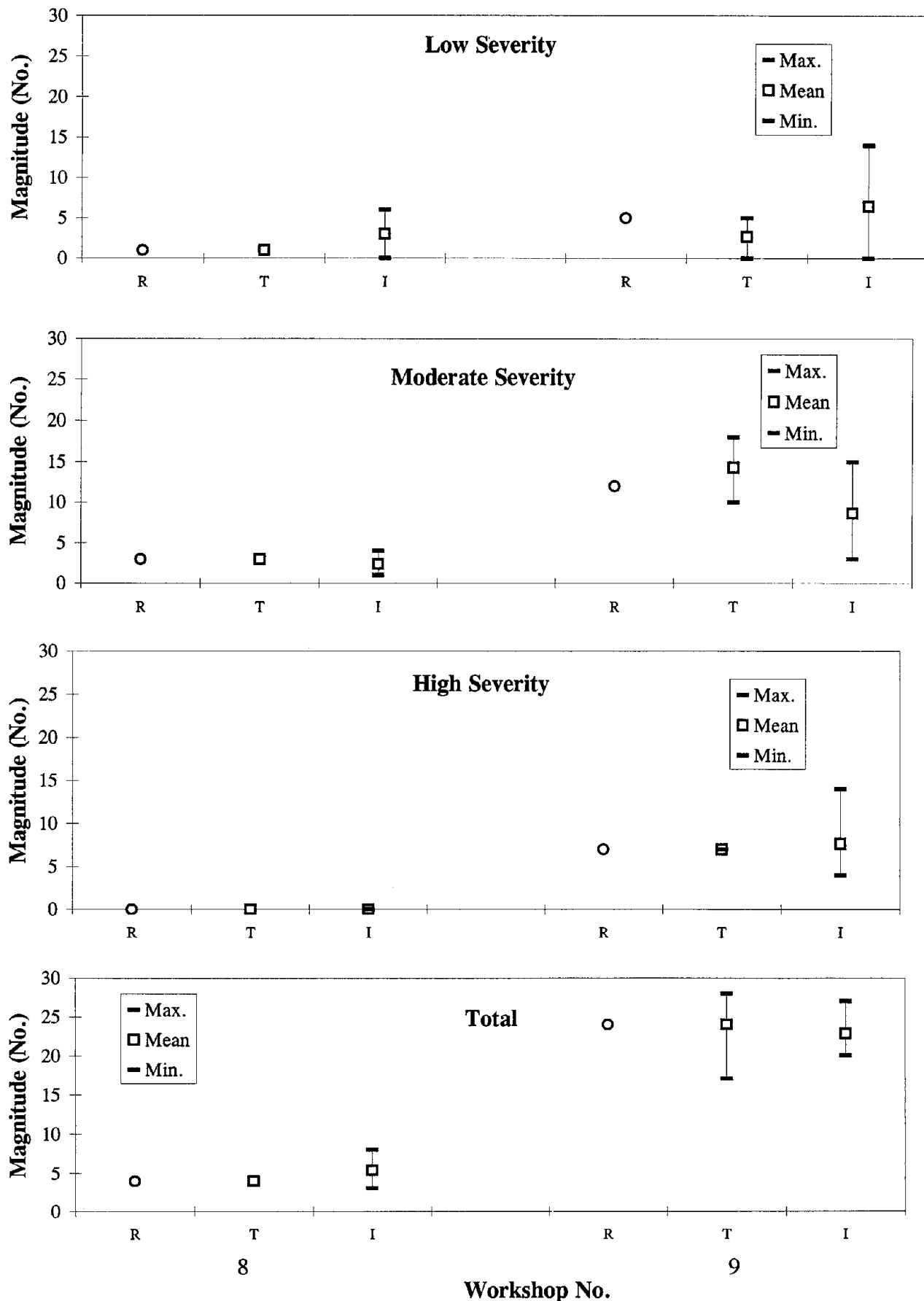
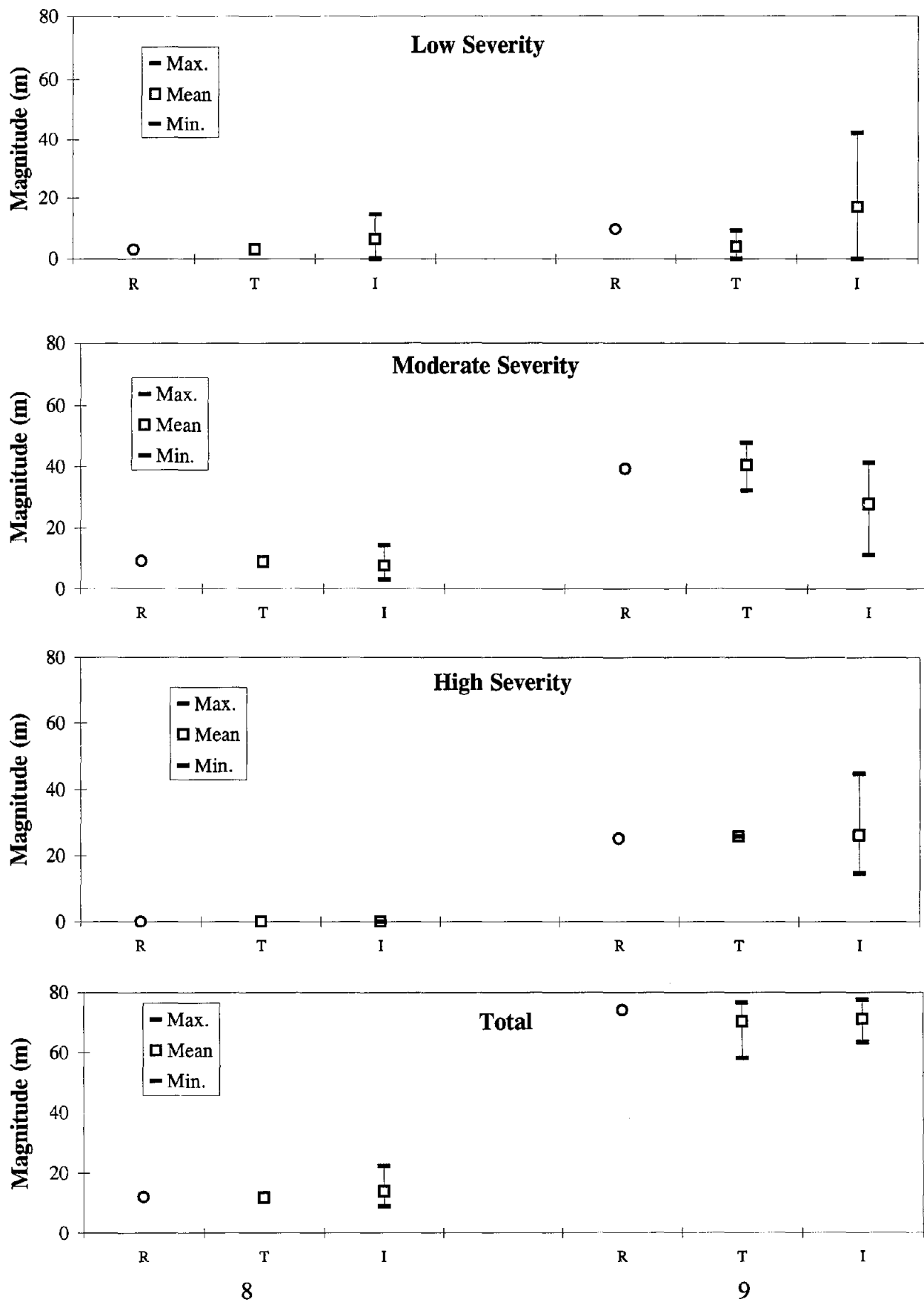


Figure 57. Transverse Cracking (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.



Workshop No.

Figure 58. Transverse Cracking (Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

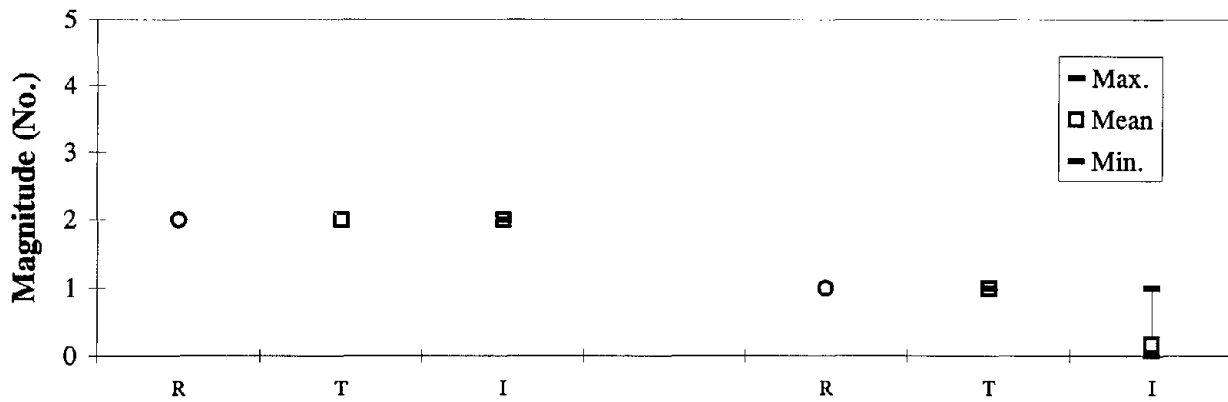


Figure 59. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

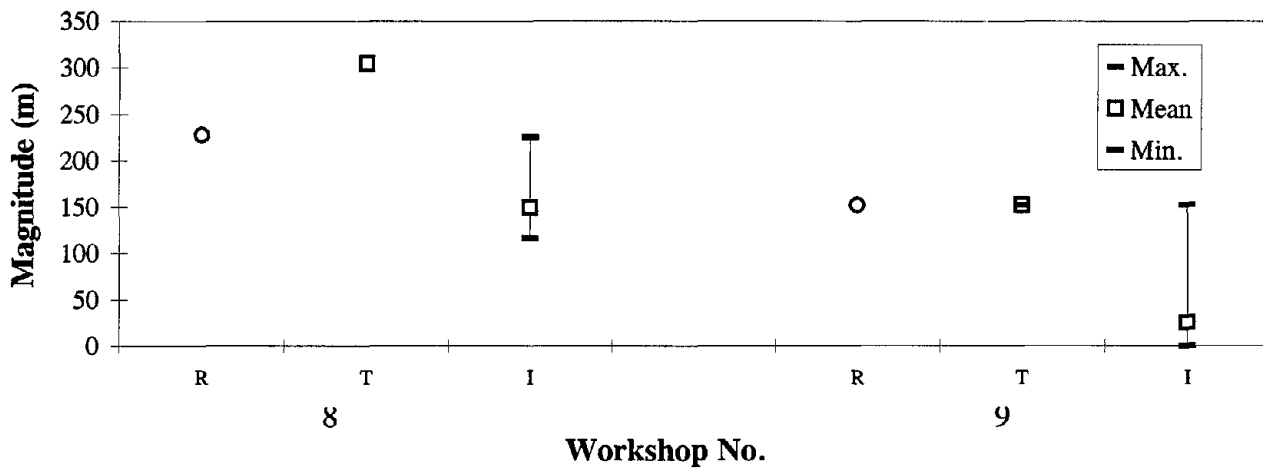


Figure 60. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

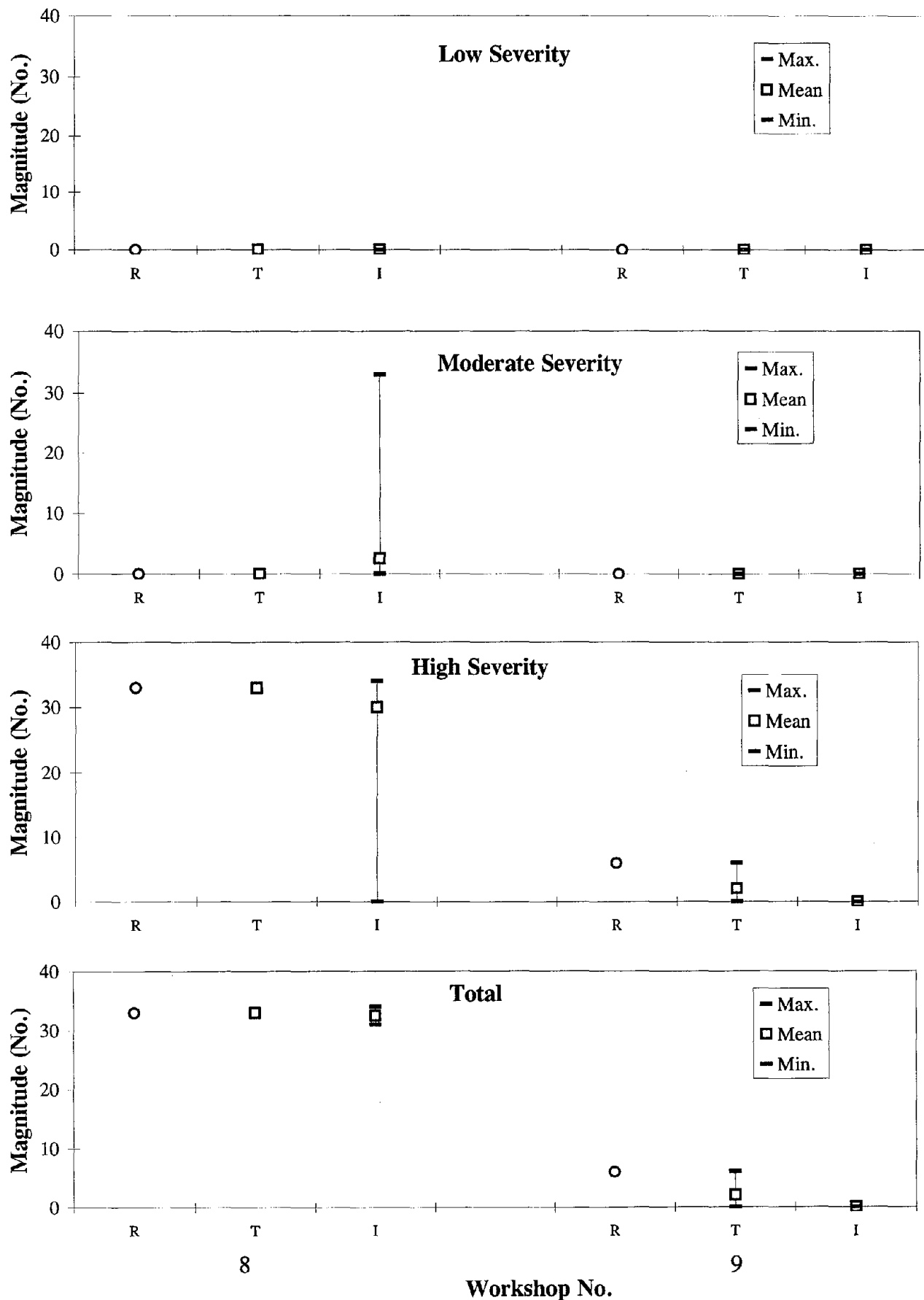


Figure 61. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

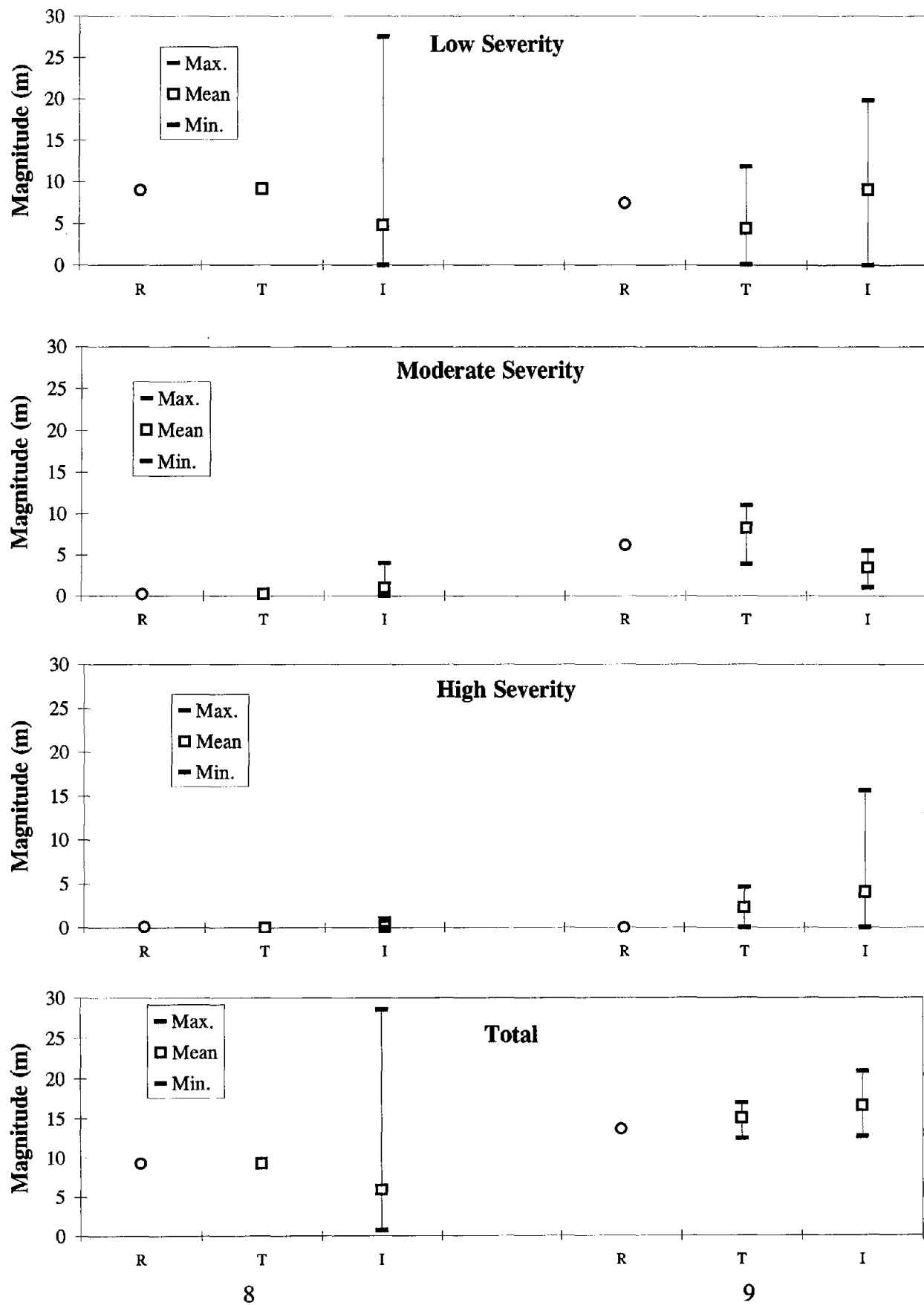


Figure 62. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

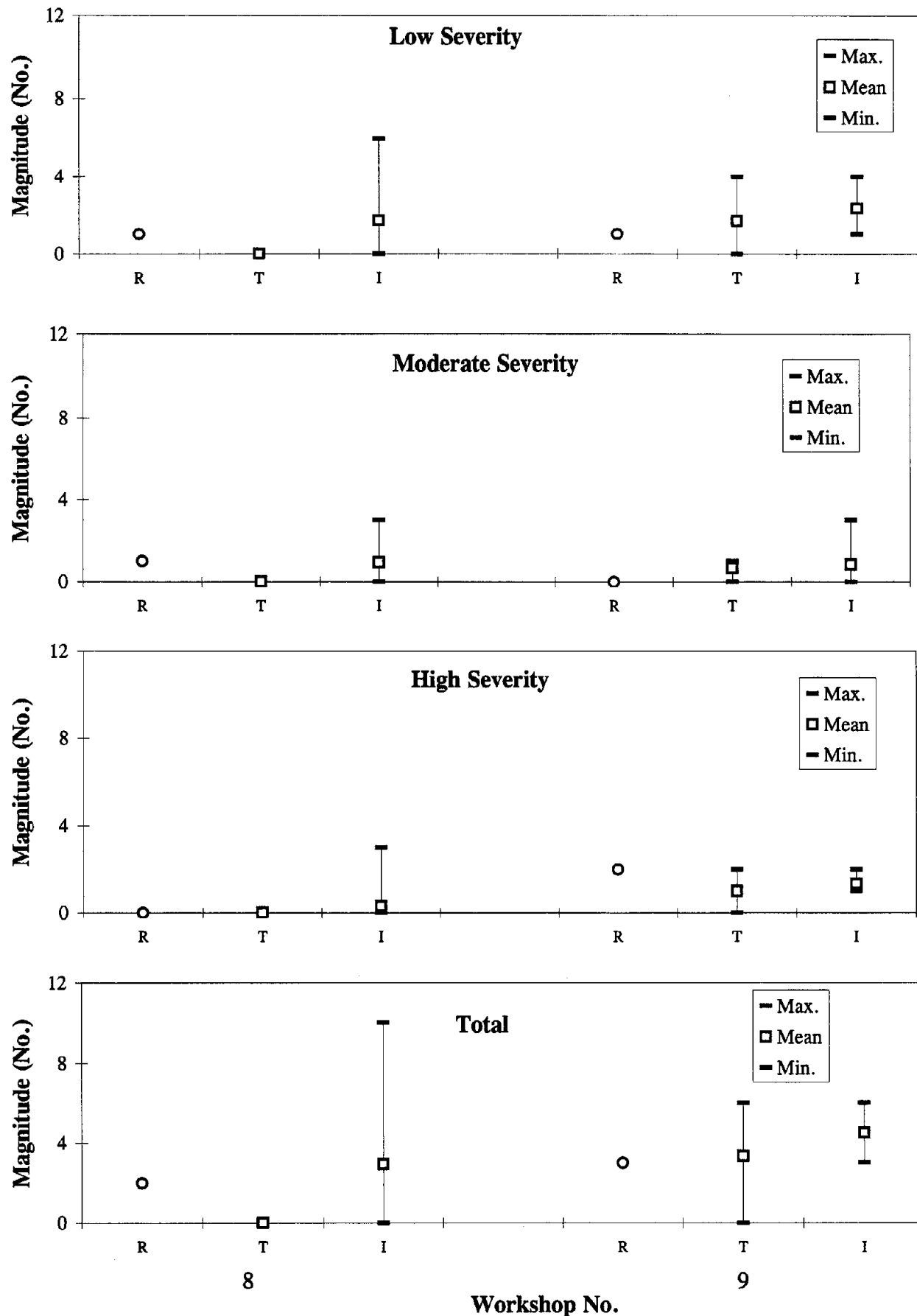


Figure 63. Spalling of Transverse Joints (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

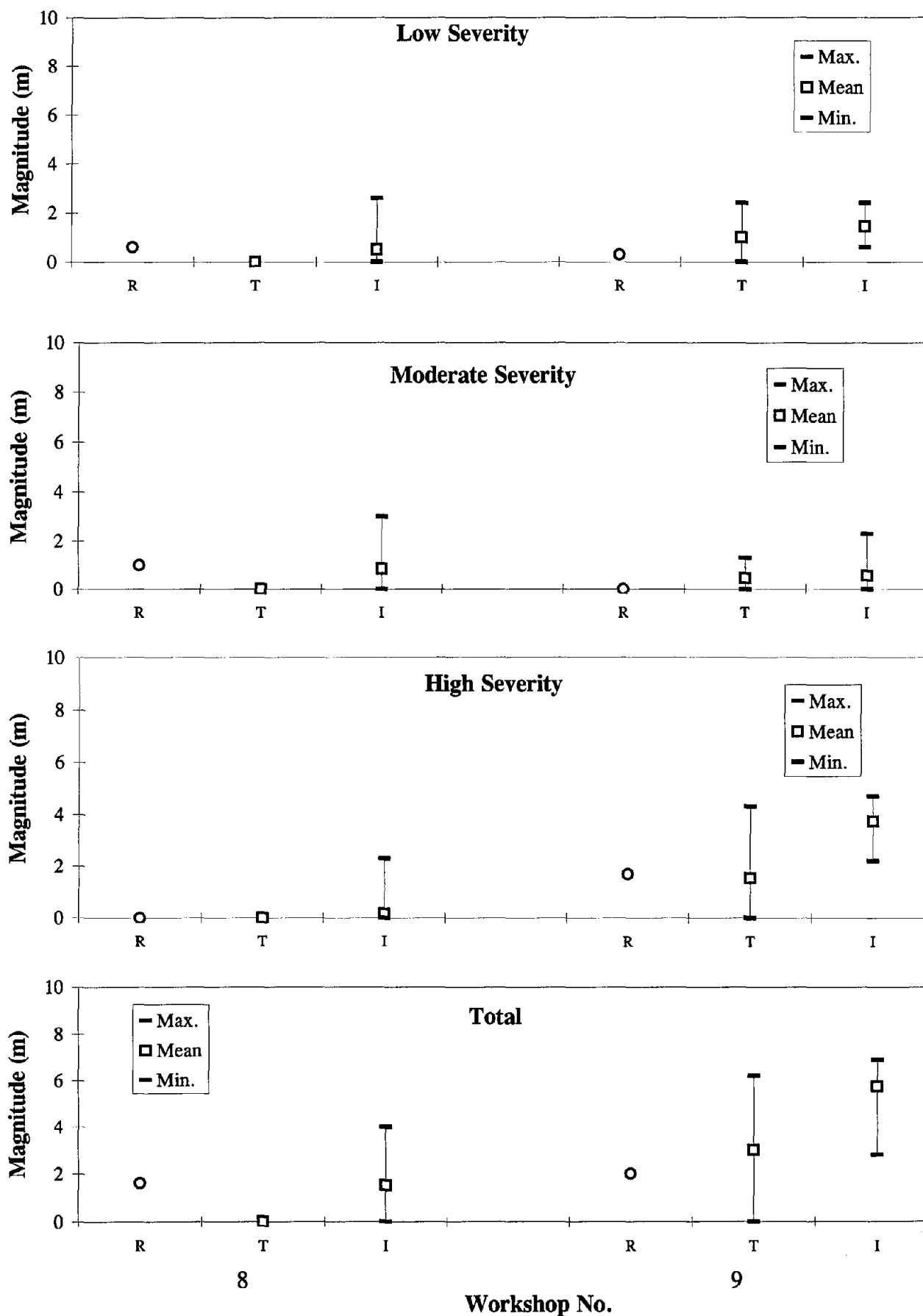


Figure 64. Spalling of Transverse Joints (Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

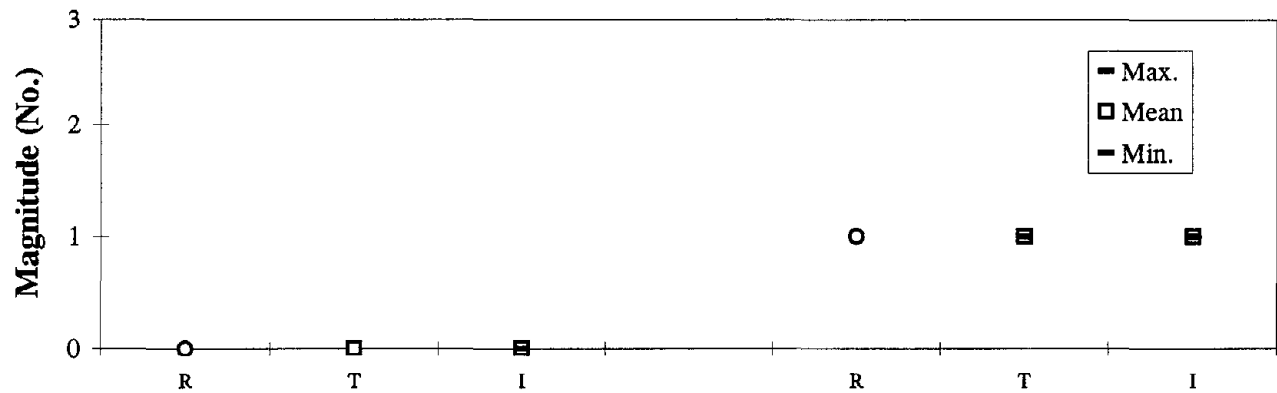


Figure 65. Map Cracking (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

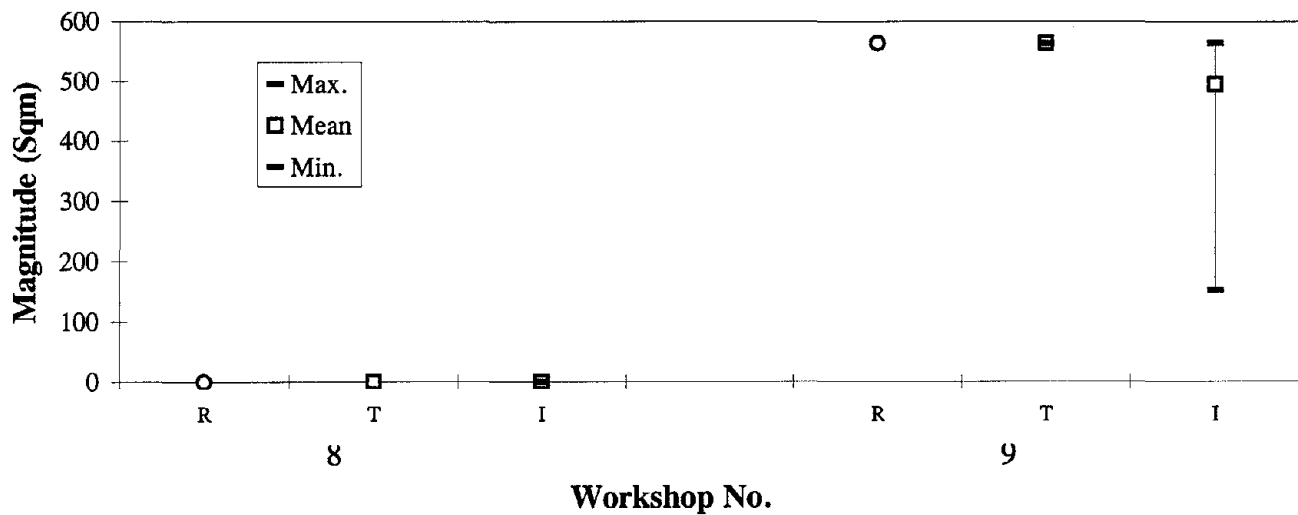
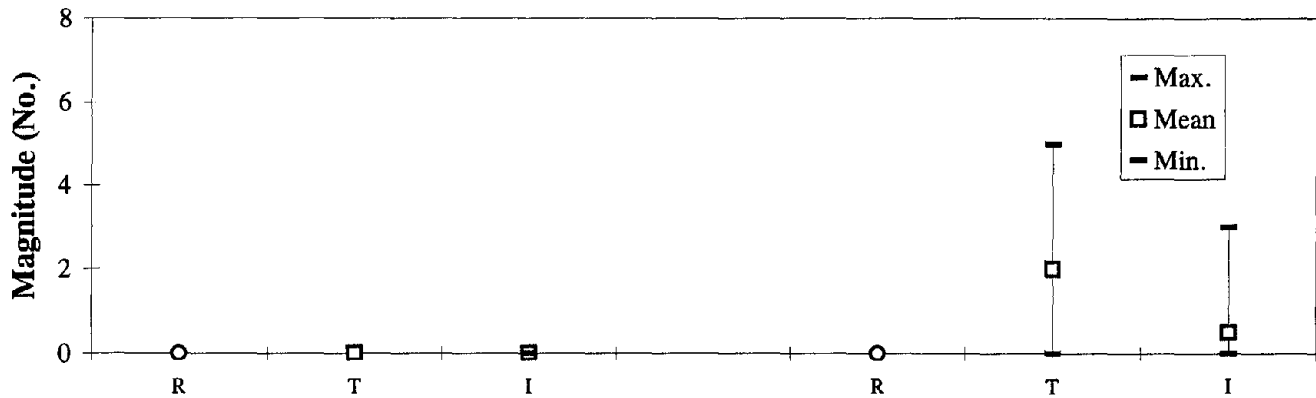
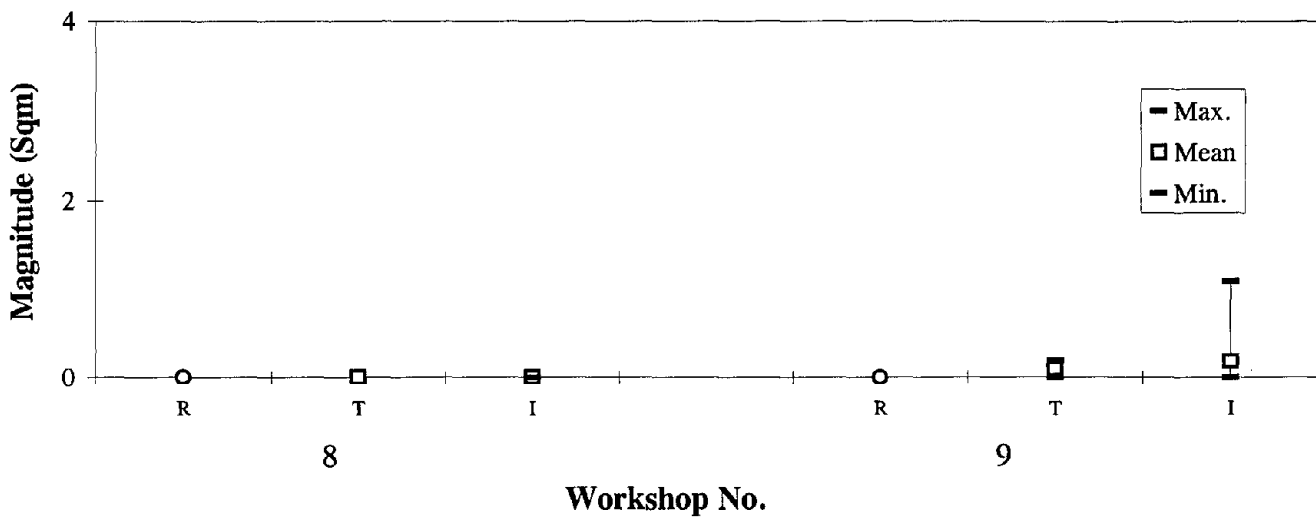


Figure 66. Map Cracking (Sq. Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.



**Figure 67. Scaling (No.) - PCC Pavements,
Manual Surveys: Reference, Team, and Individual Values.**



**Figure 68. Scaling (Sq. Meters) - PCC Pavements,
Manual Surveys: Reference, Team, and Individual Values.**

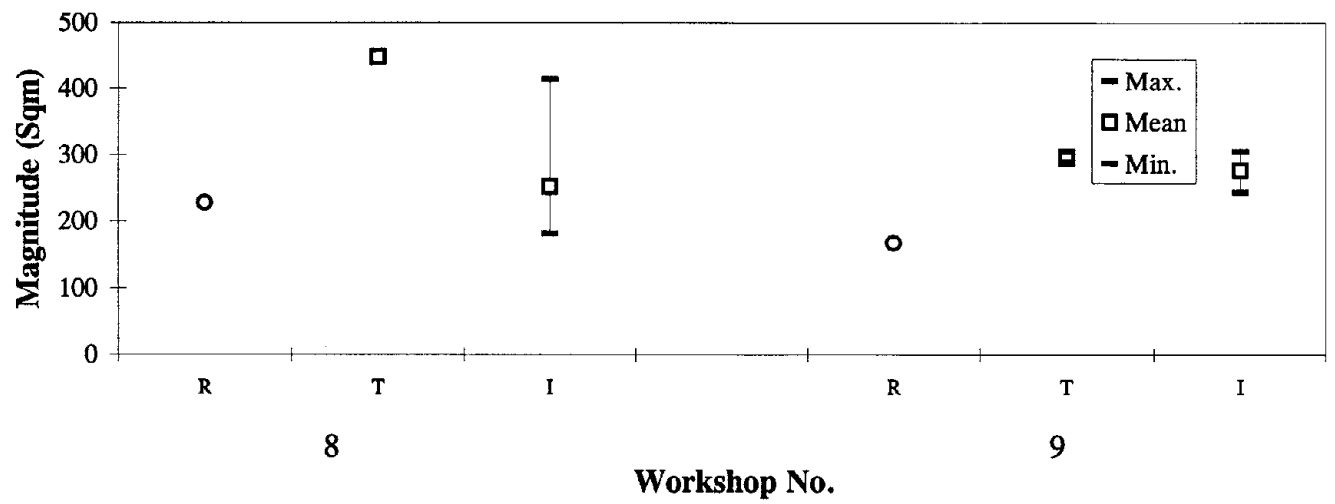


Figure 69. Polished Aggregate (Sq. Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

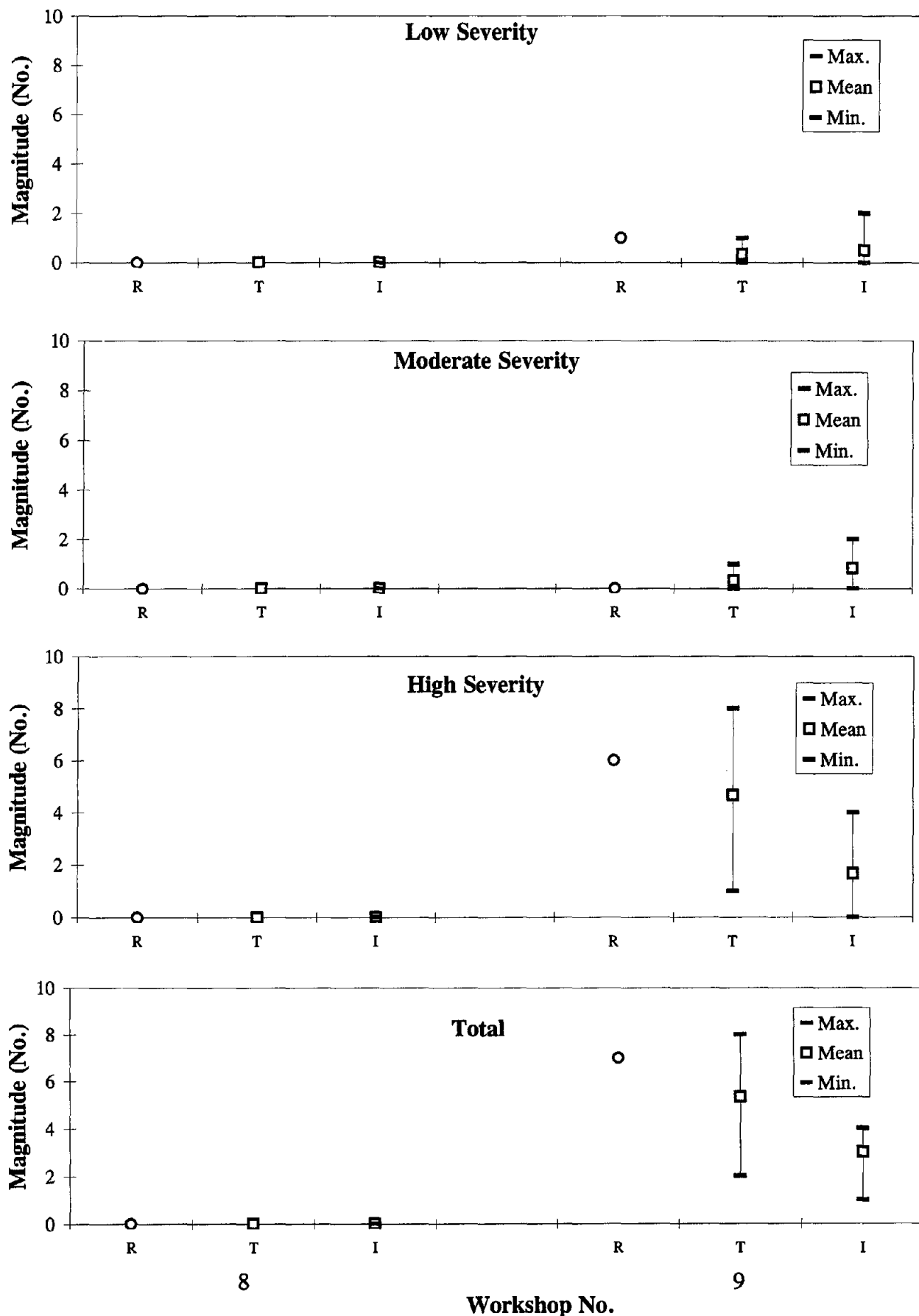


Figure 70. Patch/Patch Deterioration Flex. (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

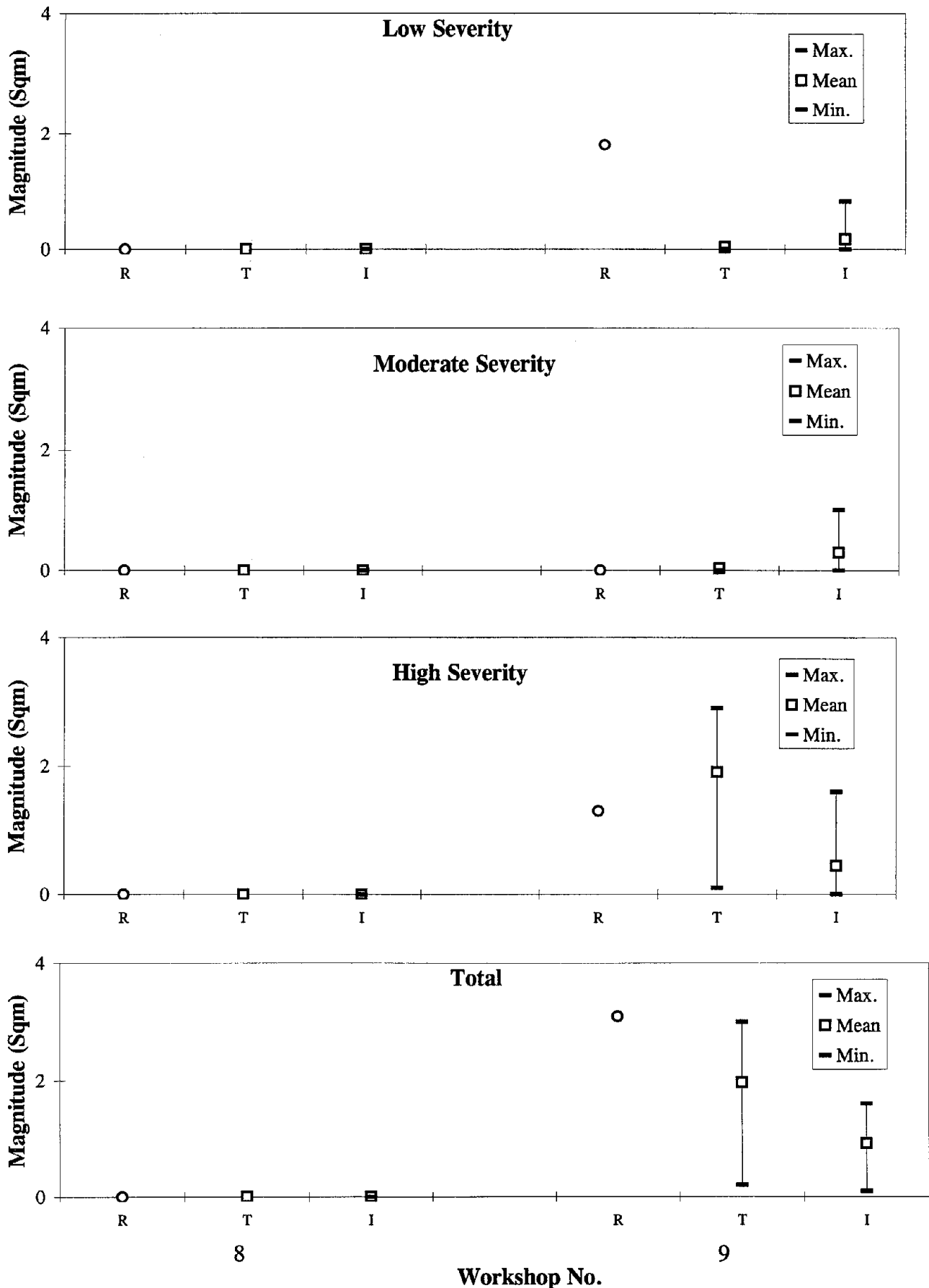


Figure 71. Patch/Patch Deterioration Flex. (Sq. Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

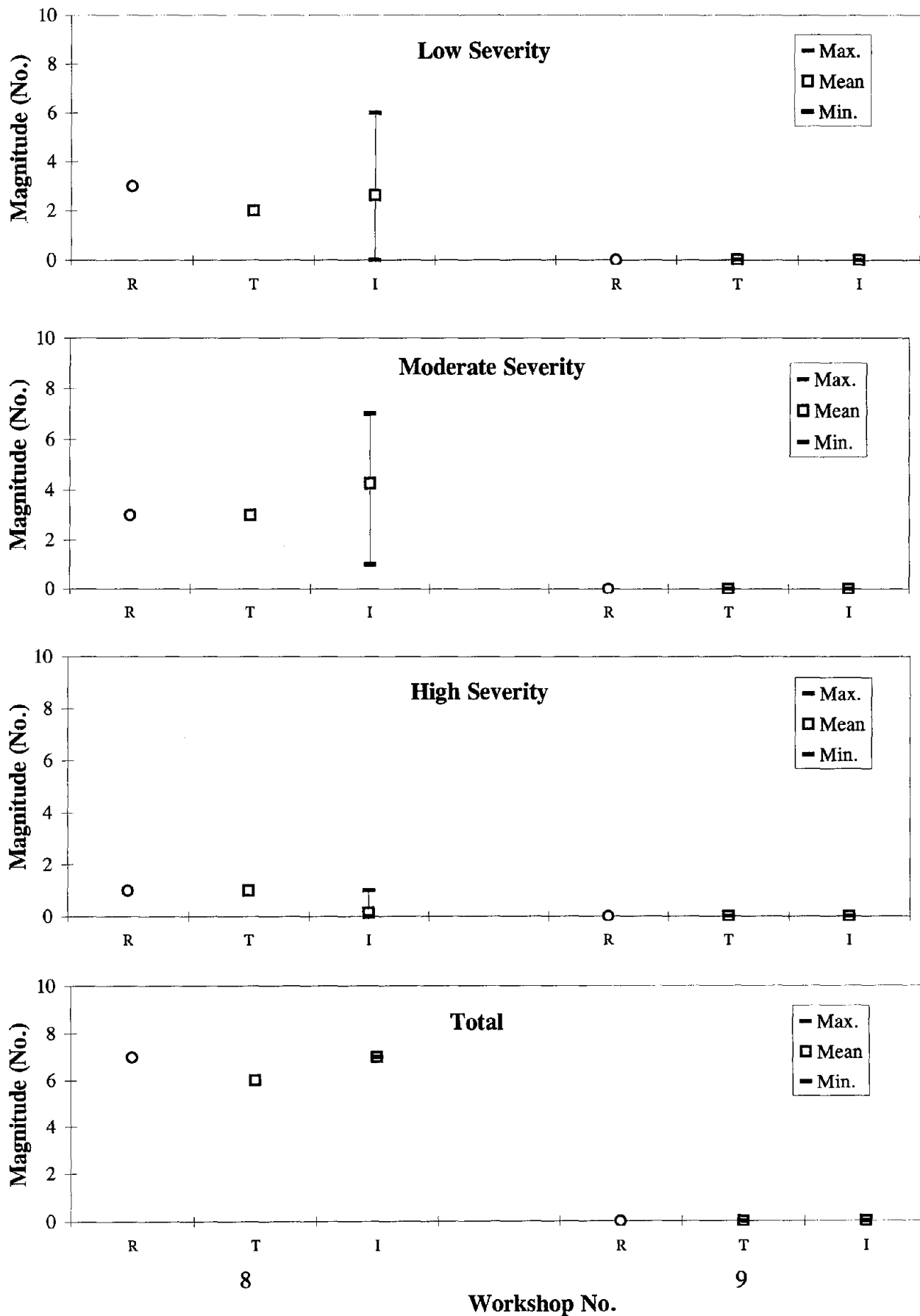
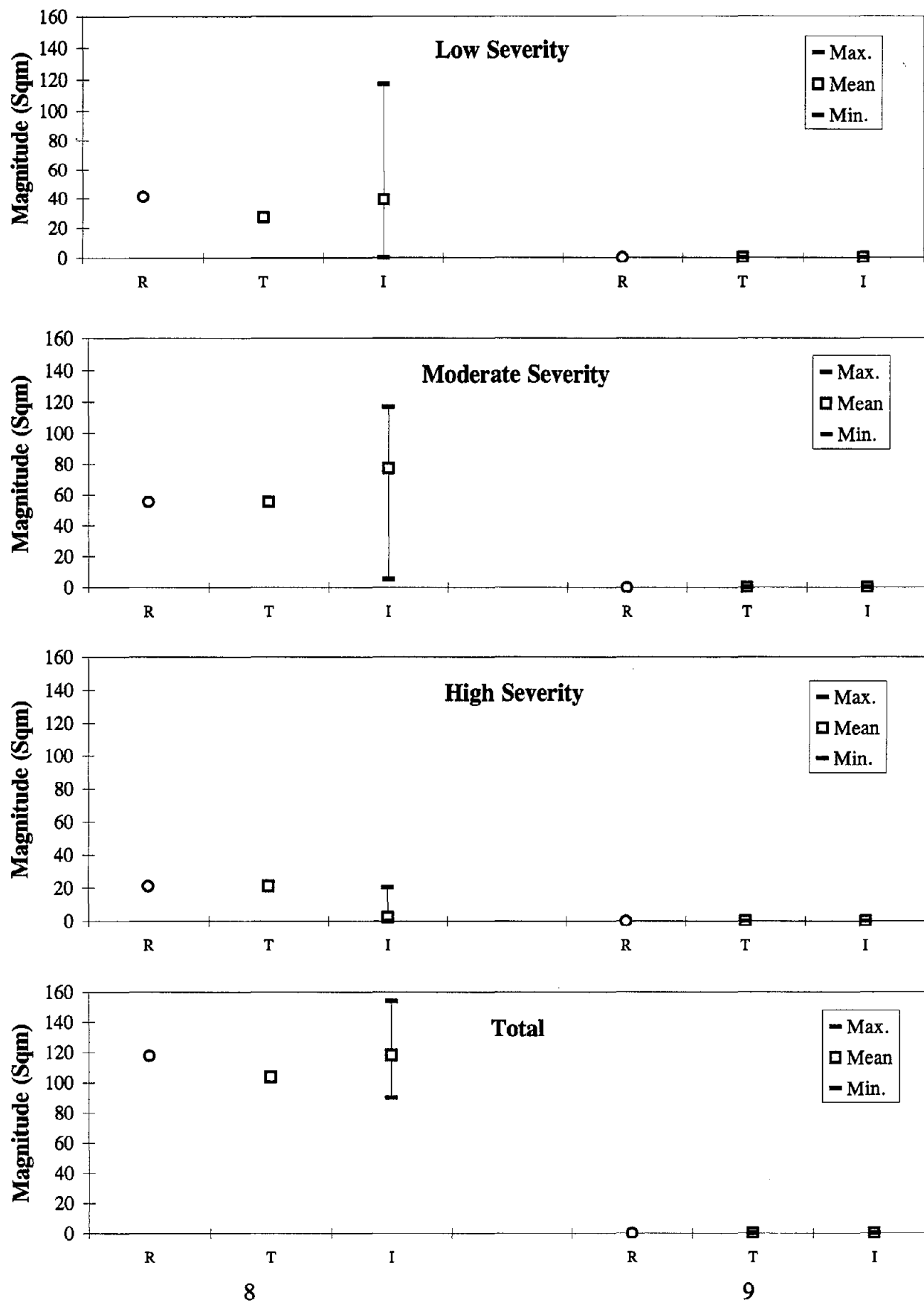


Figure 72. Patch/Patch Deterioration Rigid (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.



**Figure 73. Patch/Patch Deterioration Rigid (Sq. Meters) - PCC Pavements,
Manual Surveys: Reference, Team, and Individual Values.**

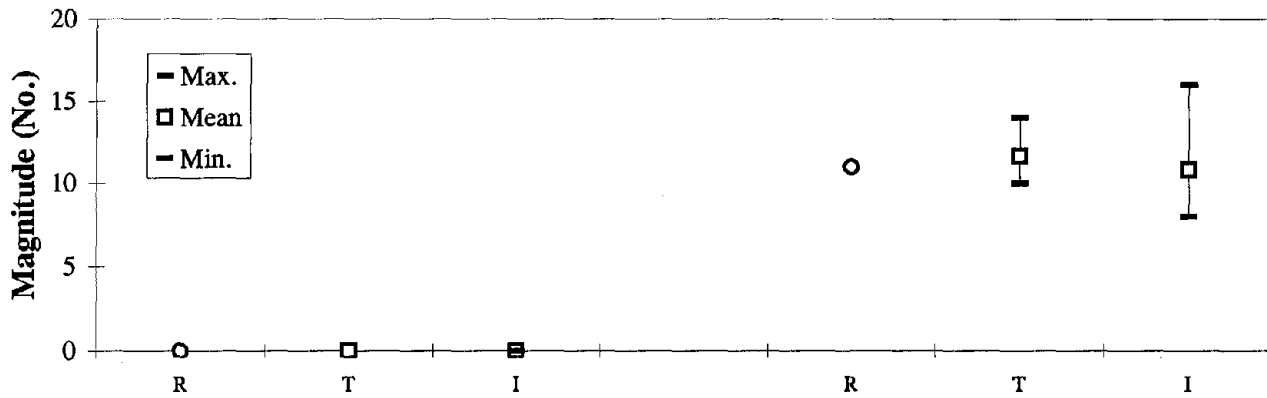


Figure 74. Water Bleeding and Pumping (No.) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

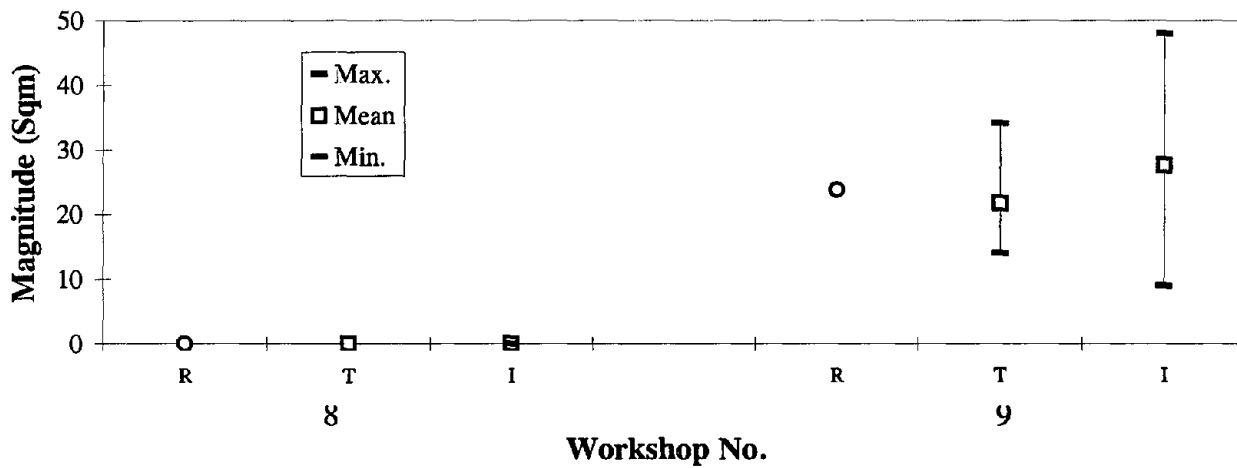


Figure 75. Water Bleeding and Pumping (Sq. Meters) - PCC Pavements, Manual Surveys: Reference, Team, and Individual Values.

APPENDIX B

FIGURES FOR PASCO/PADIAS DATA ANALYSIS

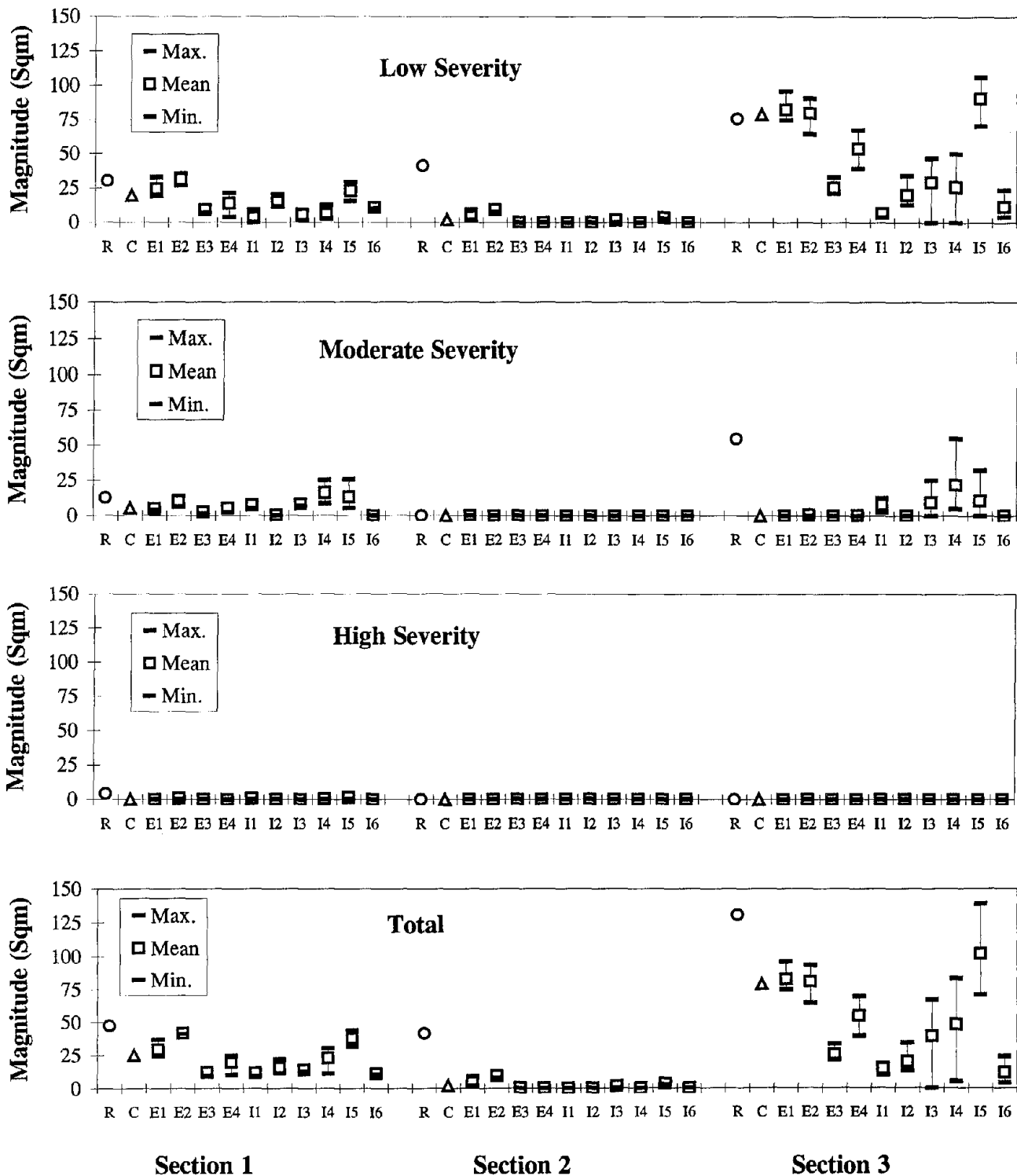


Figure 76. Fatigue Cracking (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

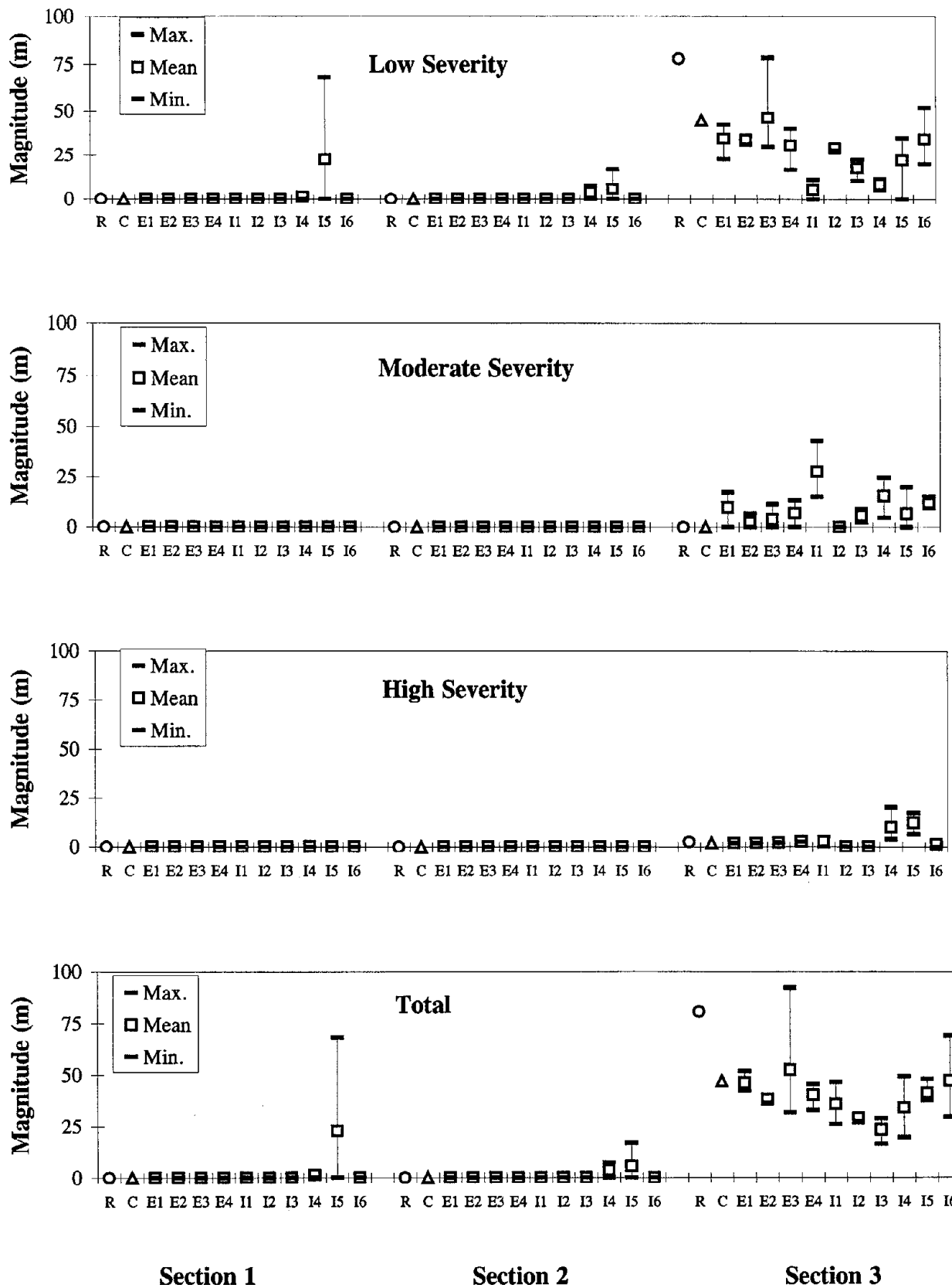


Figure 77. Edge Cracking (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

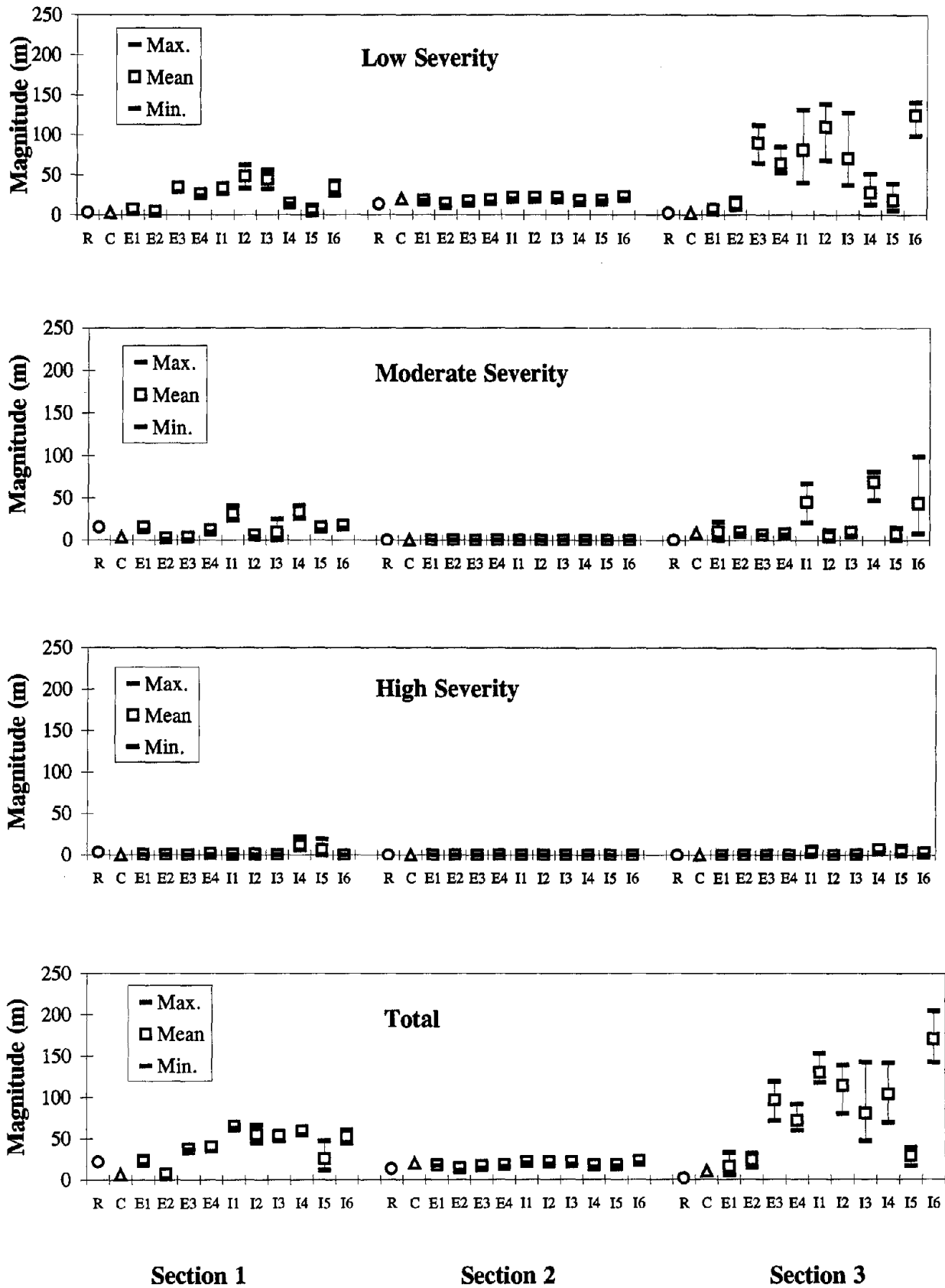


Figure 78. Longitudinal Cracking, Wheel Path (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

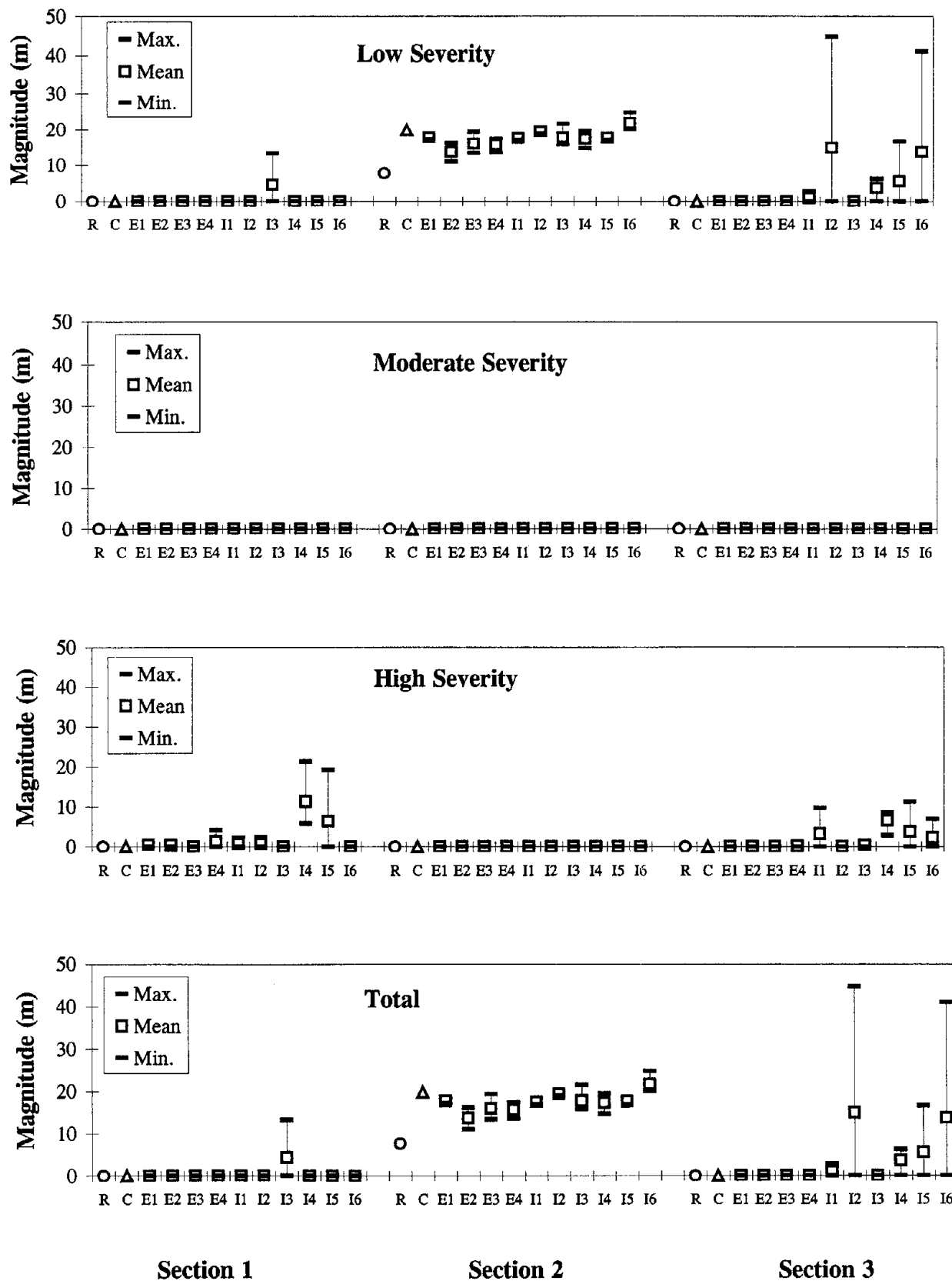


Figure 79. Longitudinal Cracking Sealed WP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

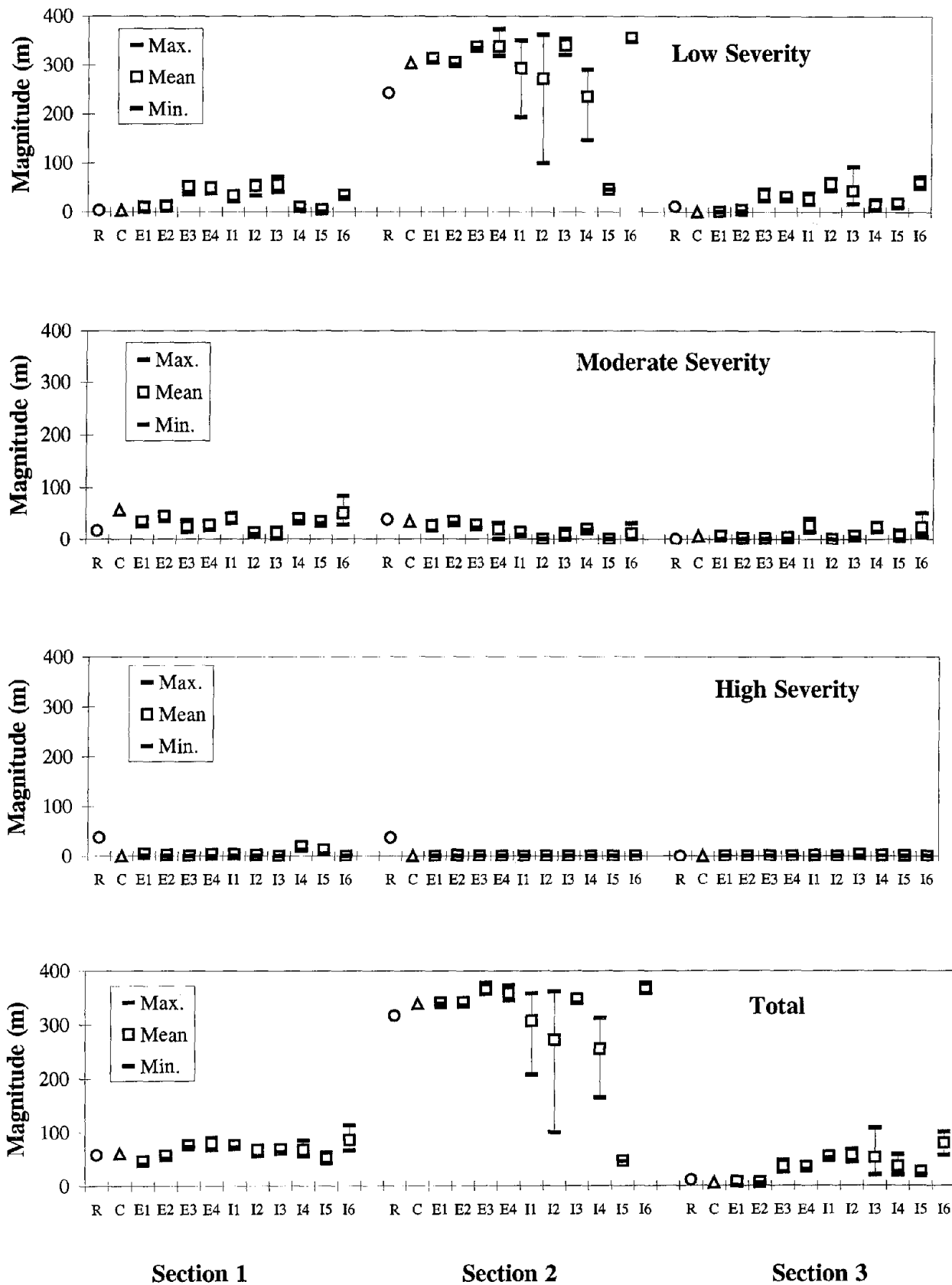


Figure 80. Longitudinal Cracking, NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

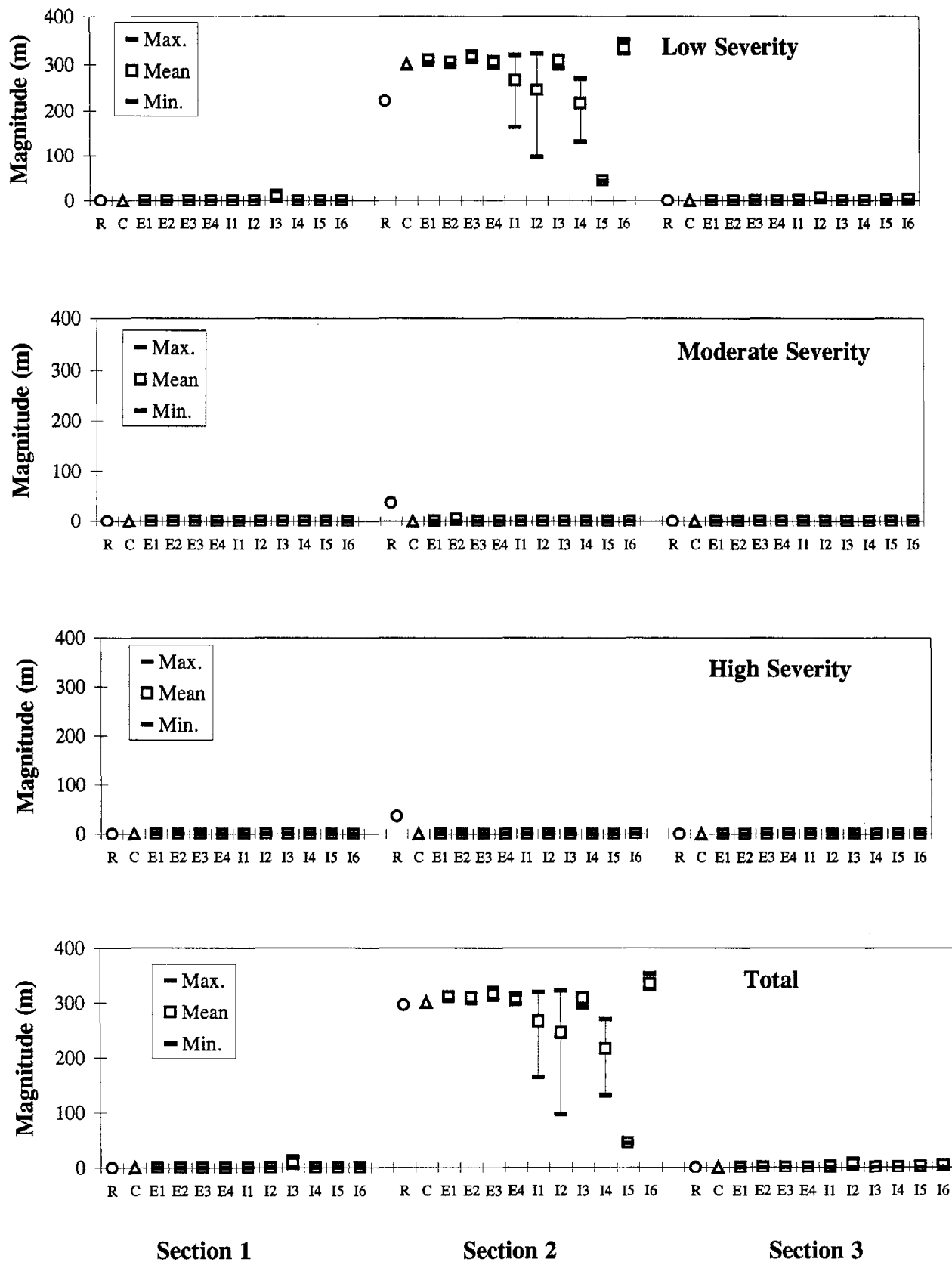


Figure 81. Longitudinal Cracking Sealed NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

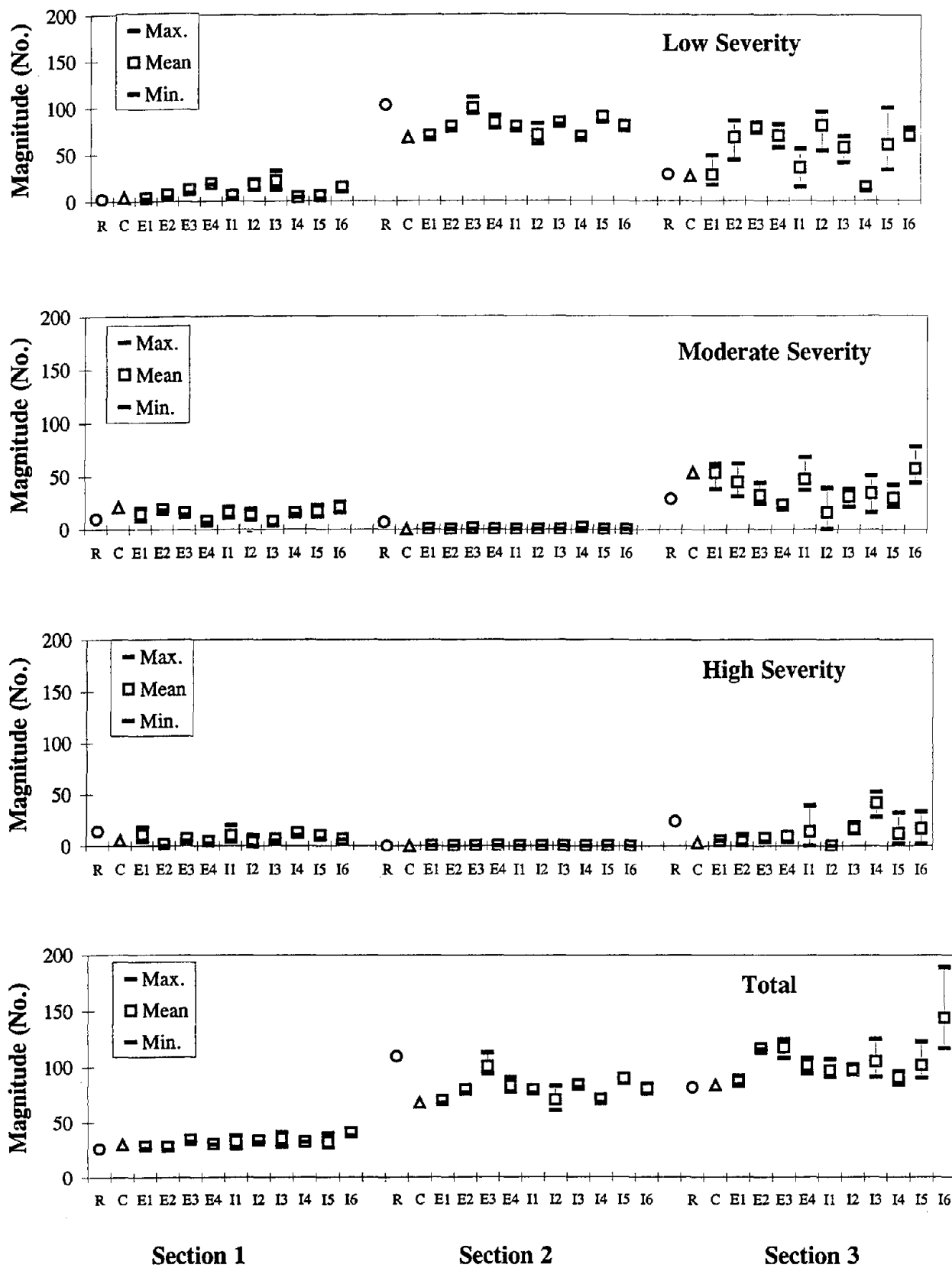


Figure 82. Transverse Cracking (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

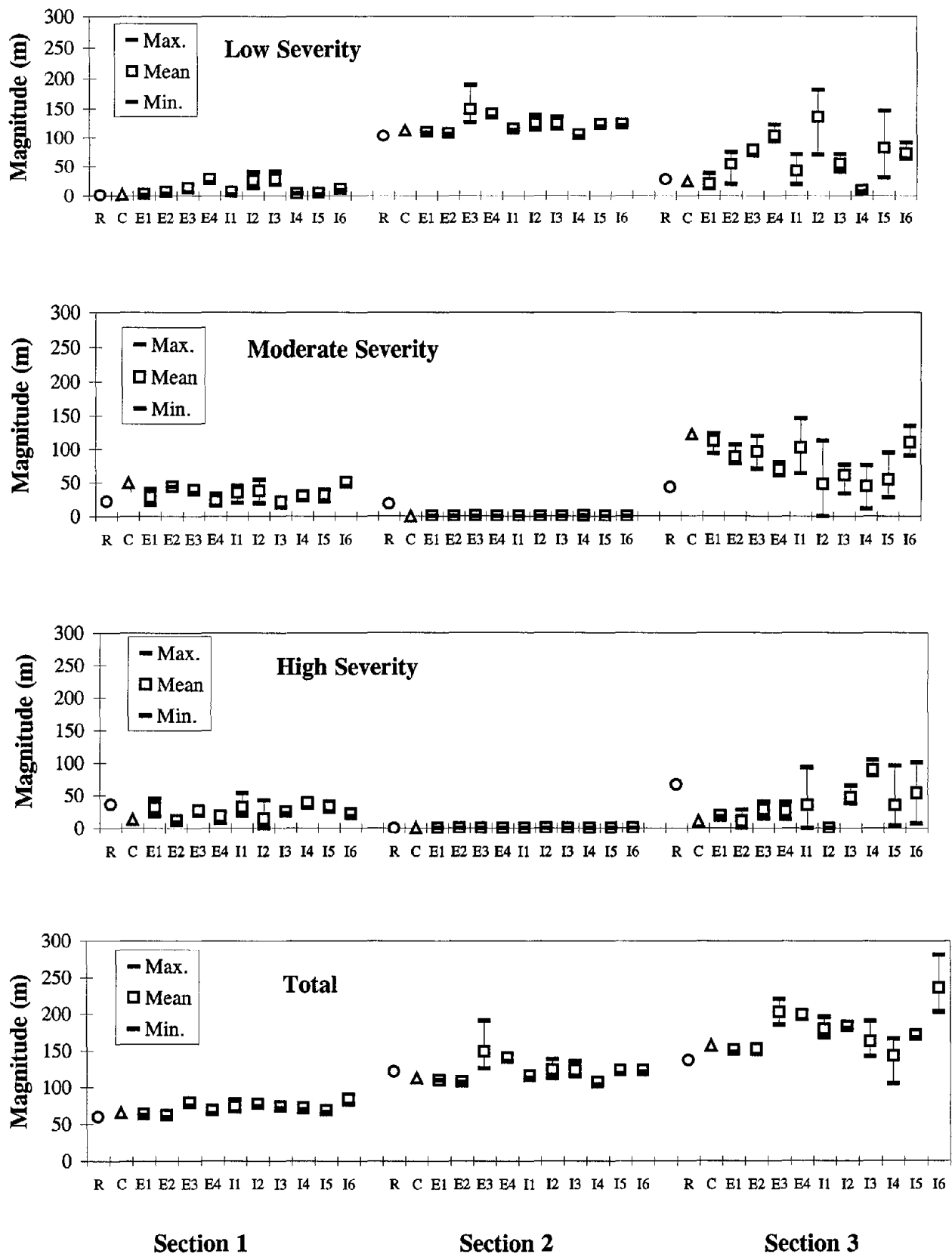


Figure 83. Transverse Cracking (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

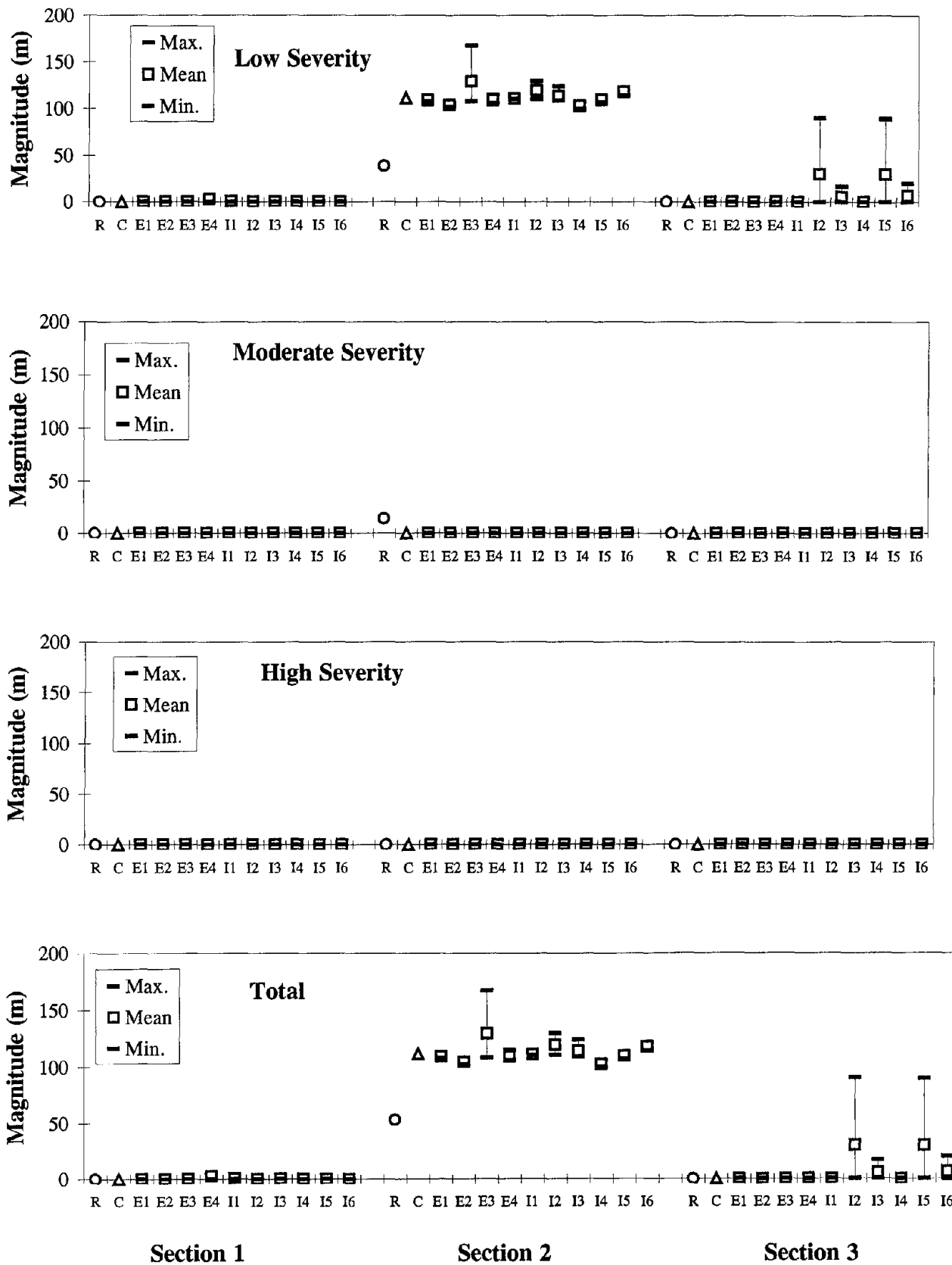


Figure 84. Transverse Cracking, Sealed (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

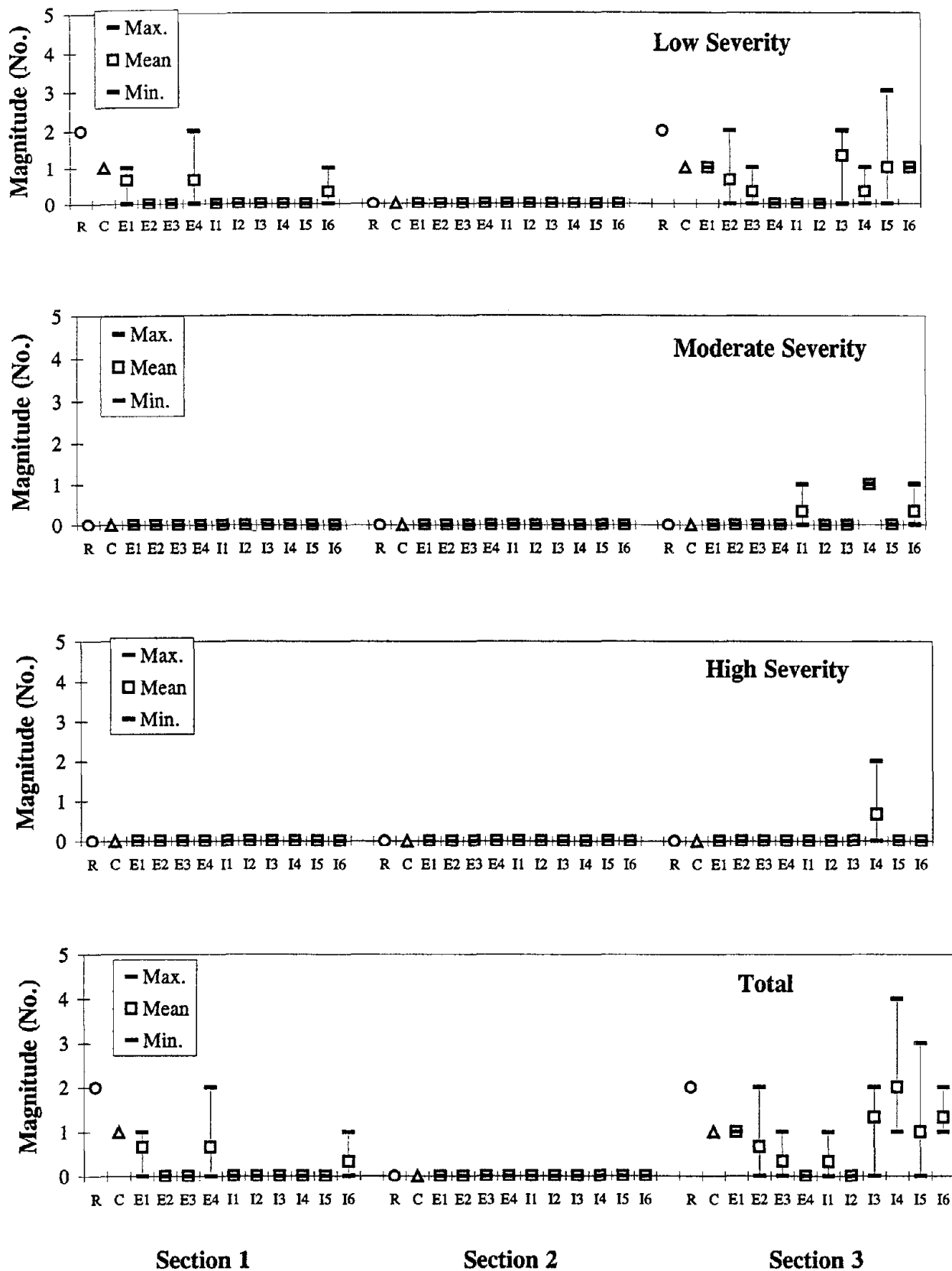


Figure 85. Patch/Patch Deterioration (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

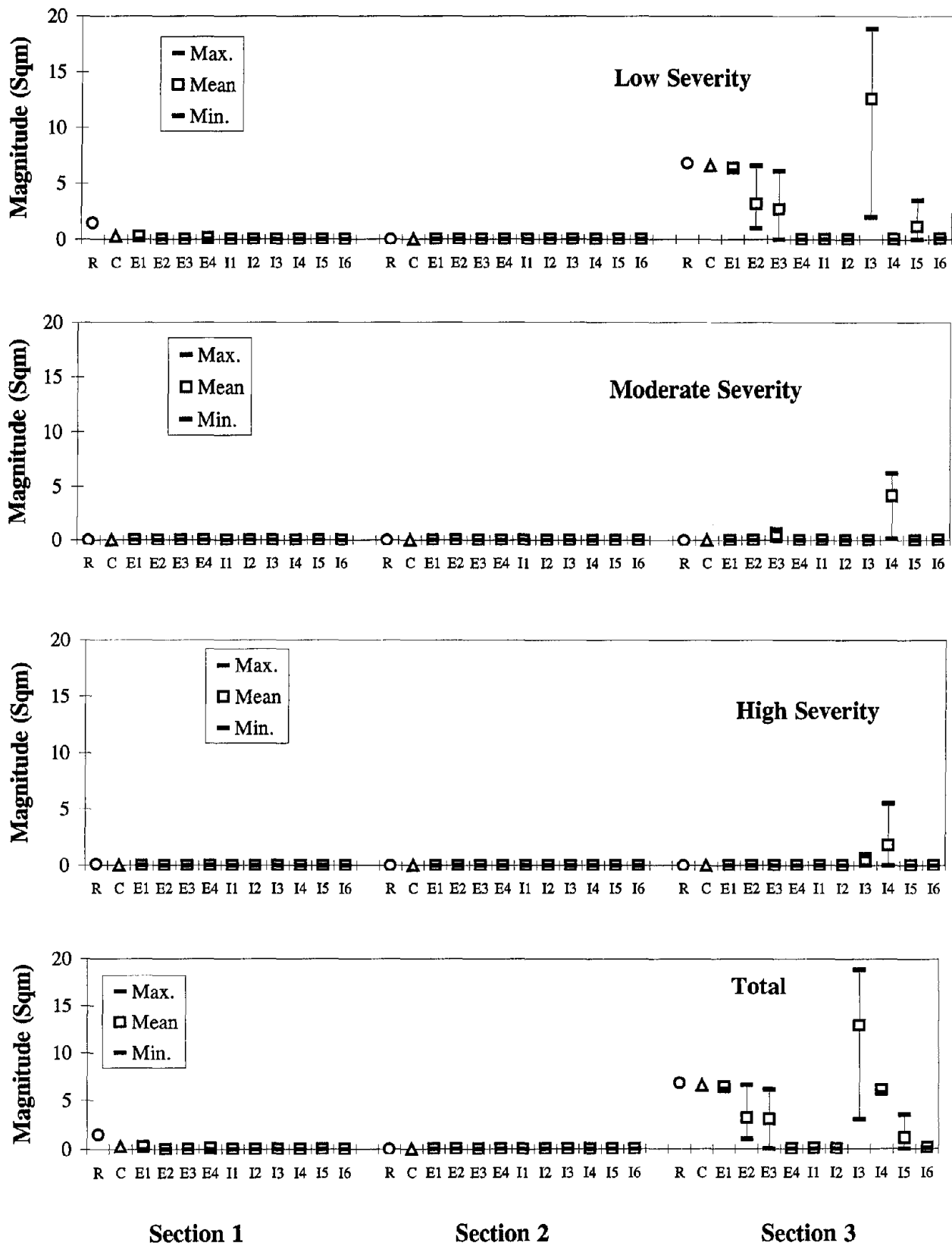


Figure 86. Patch/Patch Deterioration (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

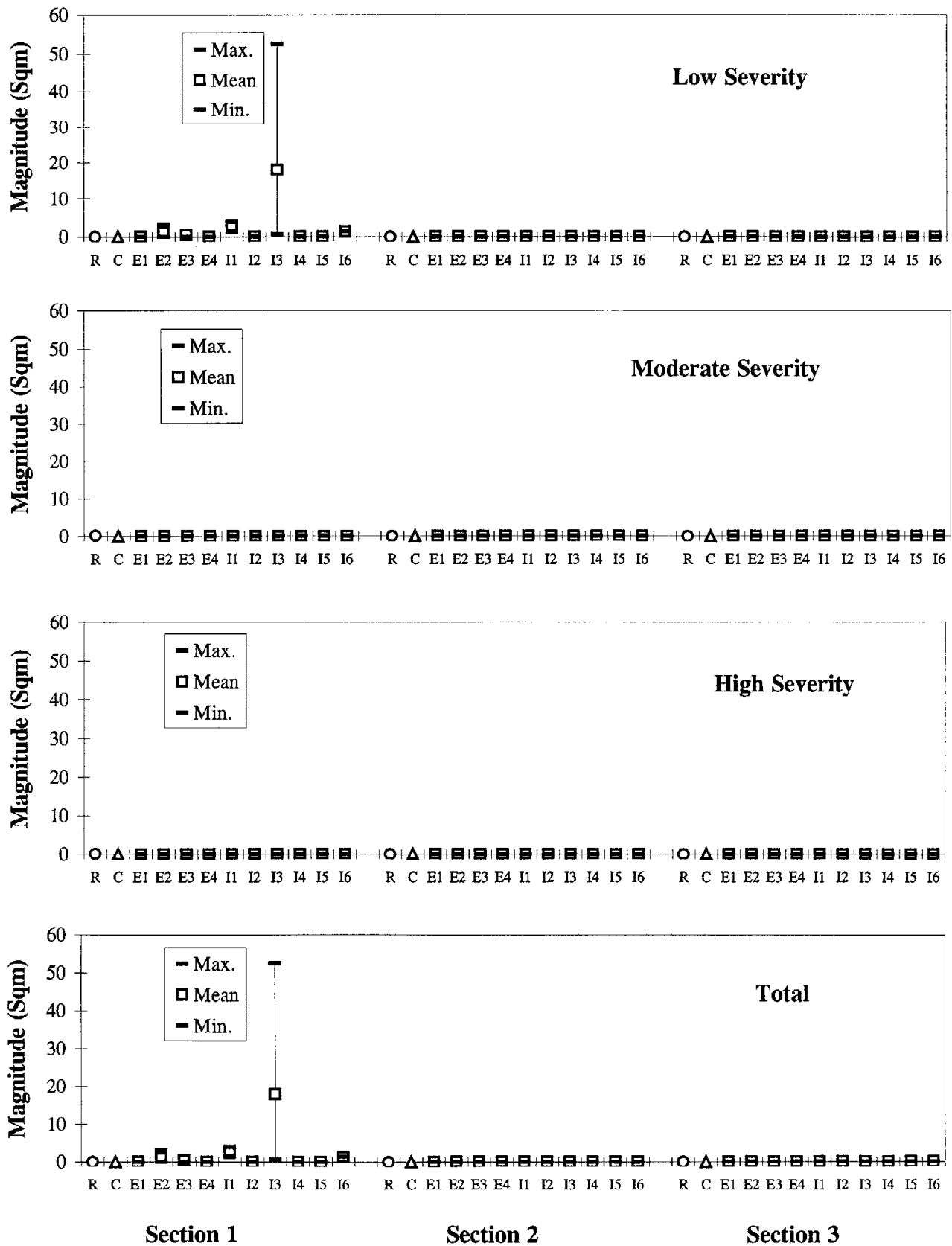


Figure 87. Bleeding (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

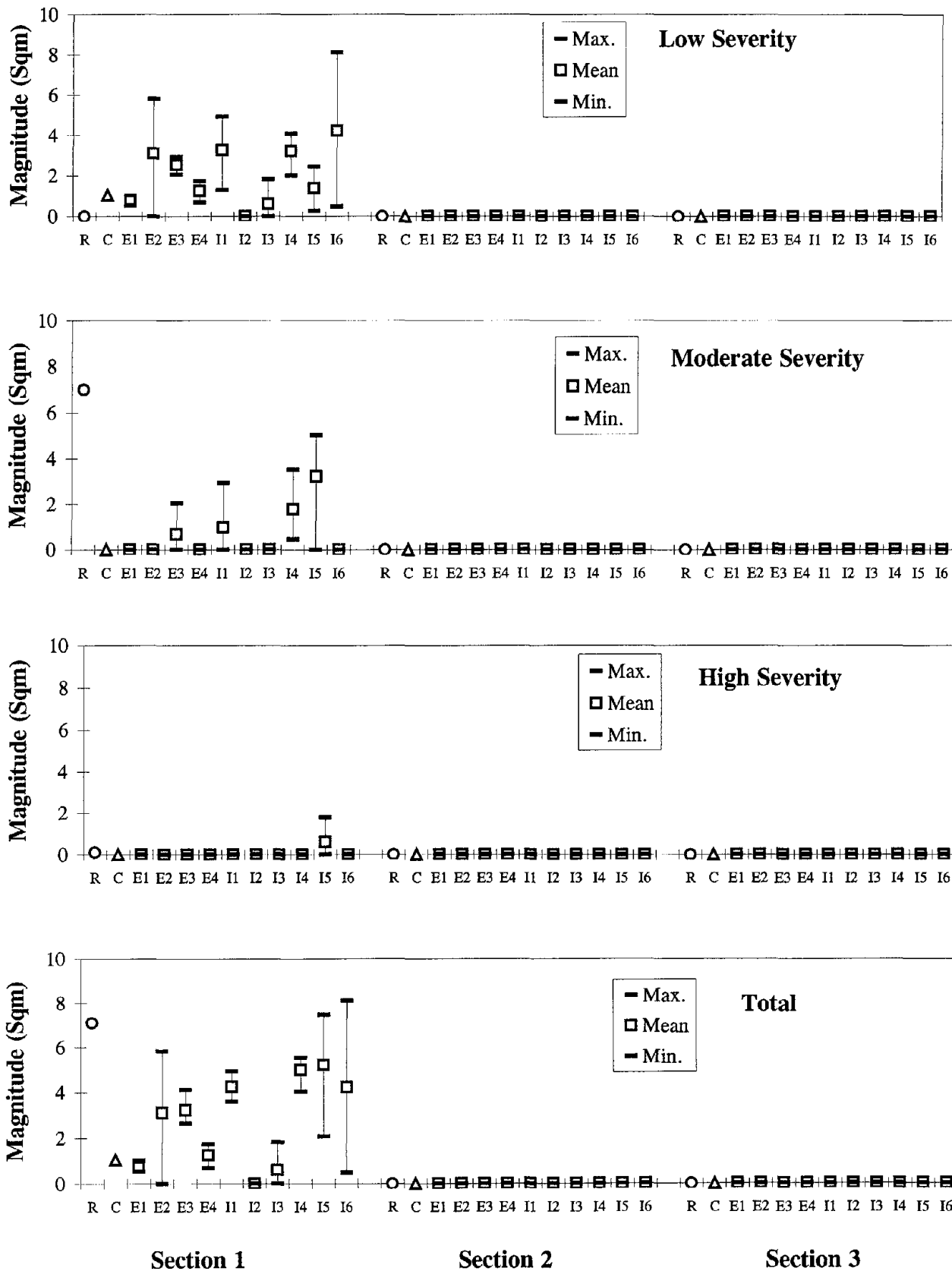


Figure 88. Raveling (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

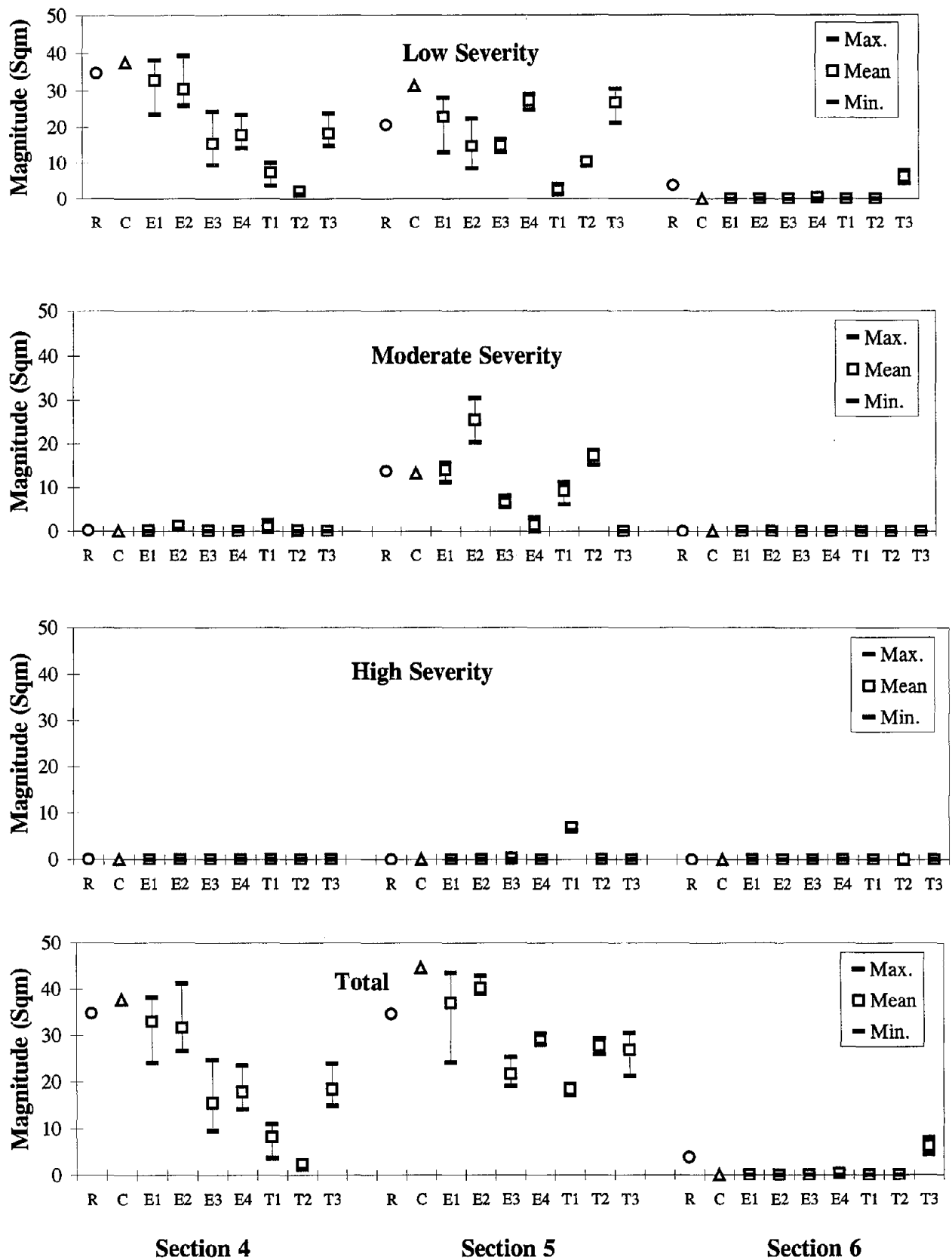


Figure 89. Fatigue Cracking (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

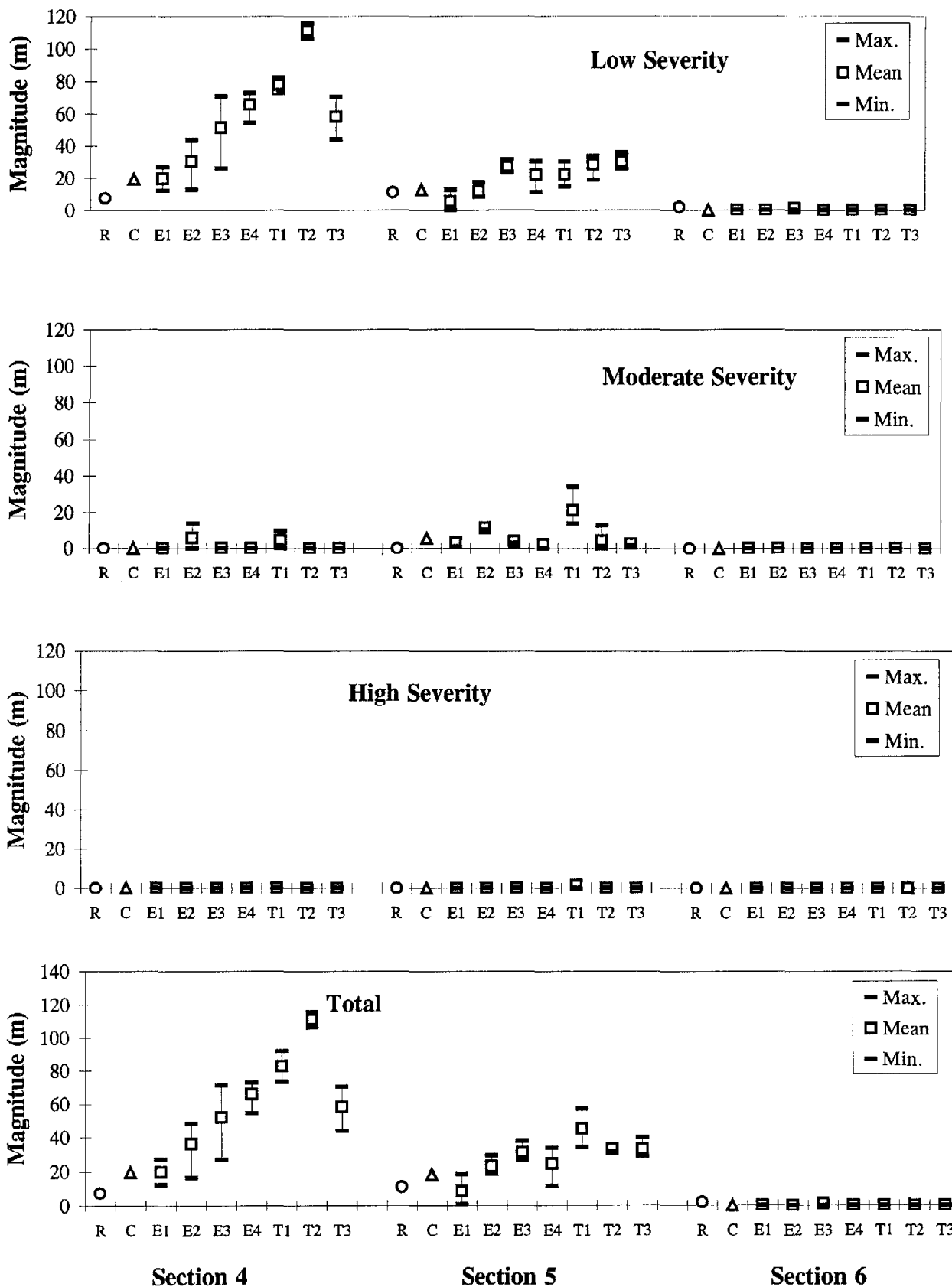


Figure 90. Longitudinal Cracking, Wheel Path (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

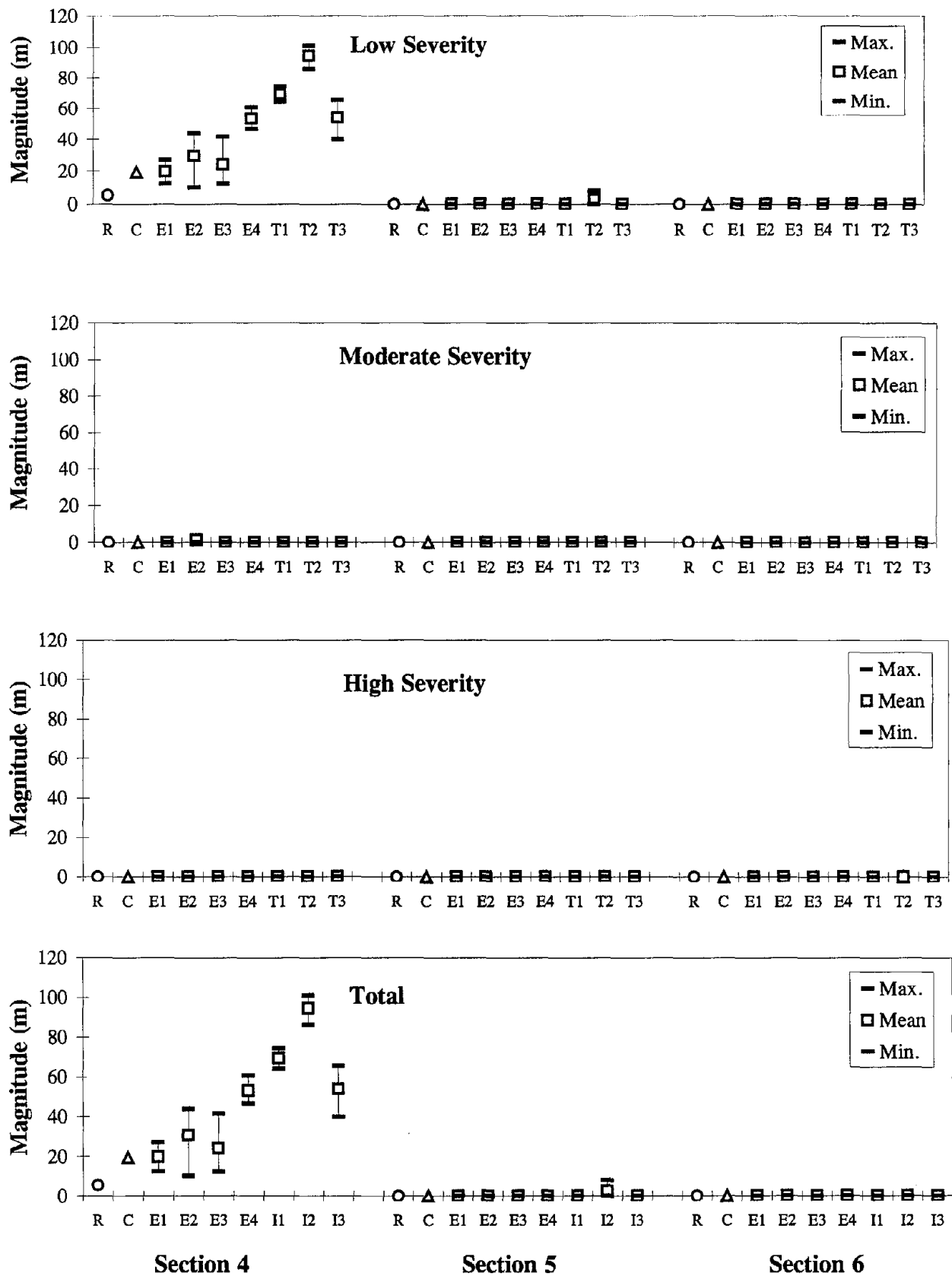


Figure 91. Longitudinal Cracking, Sealed, Wheel Path (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

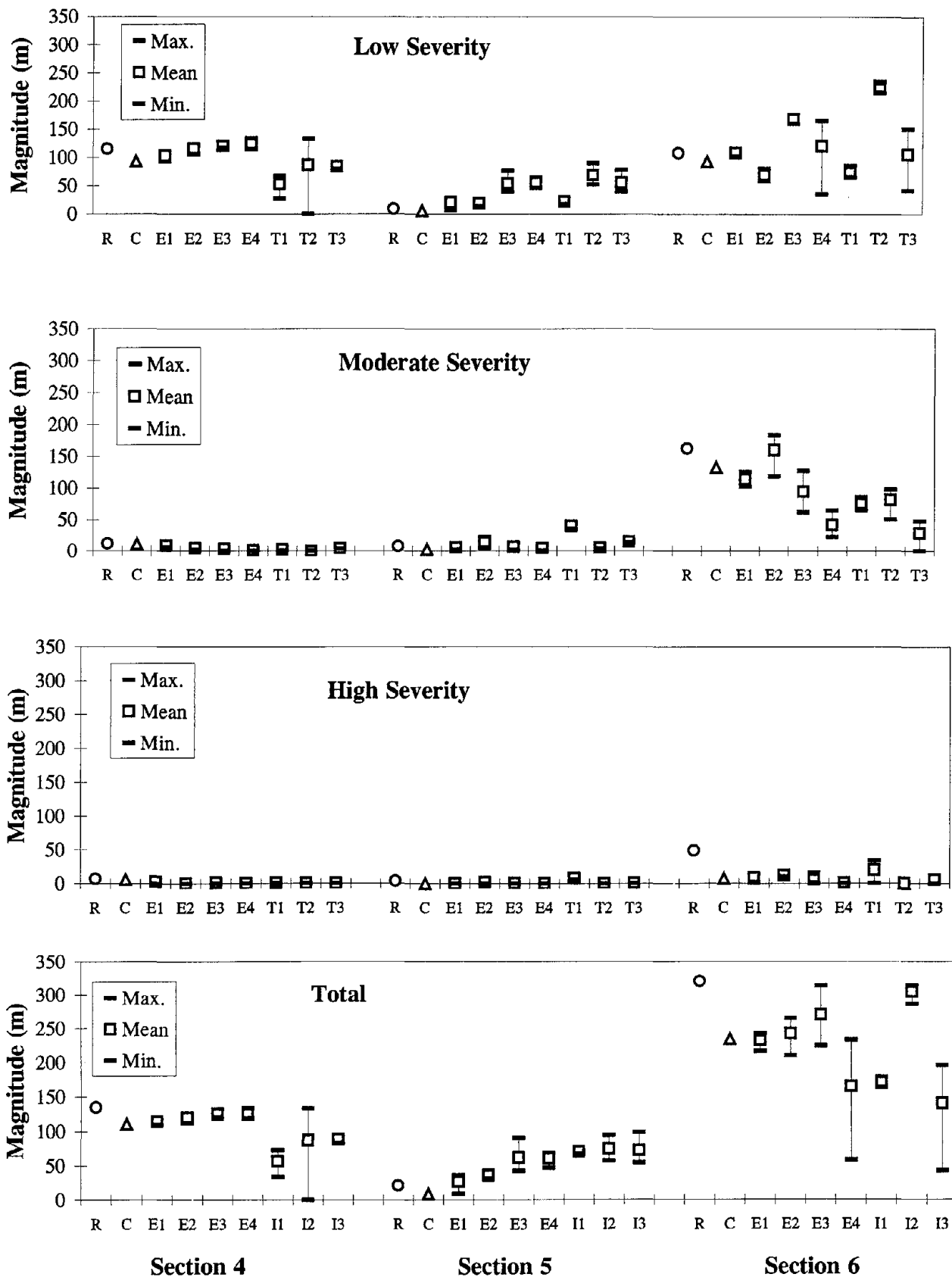


Figure 92. Longitudinal Cracking, NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

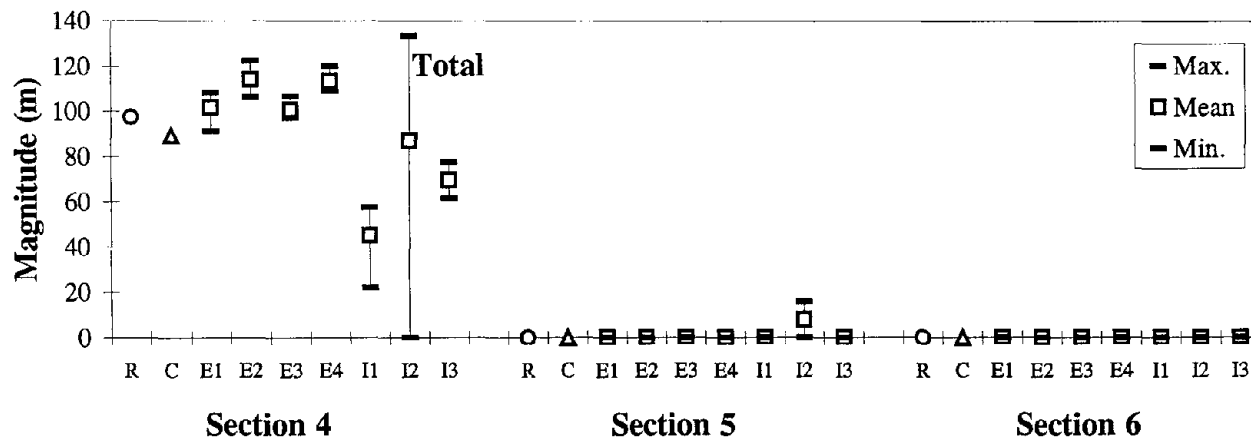
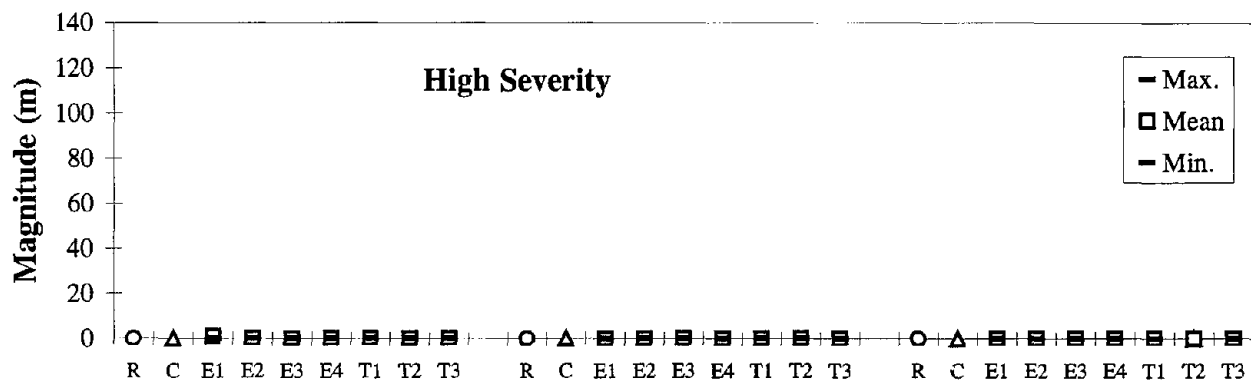
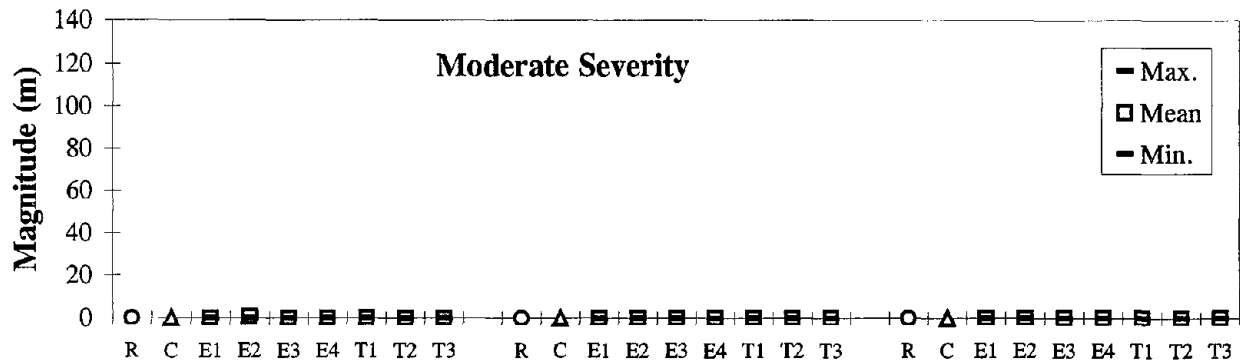
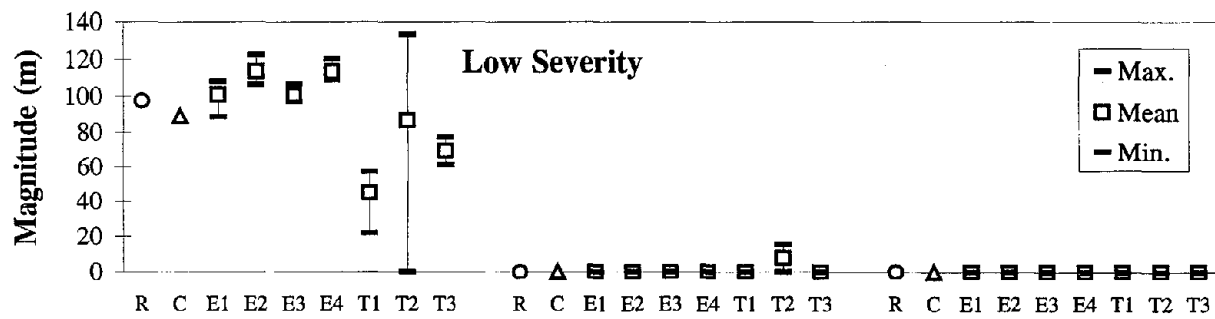
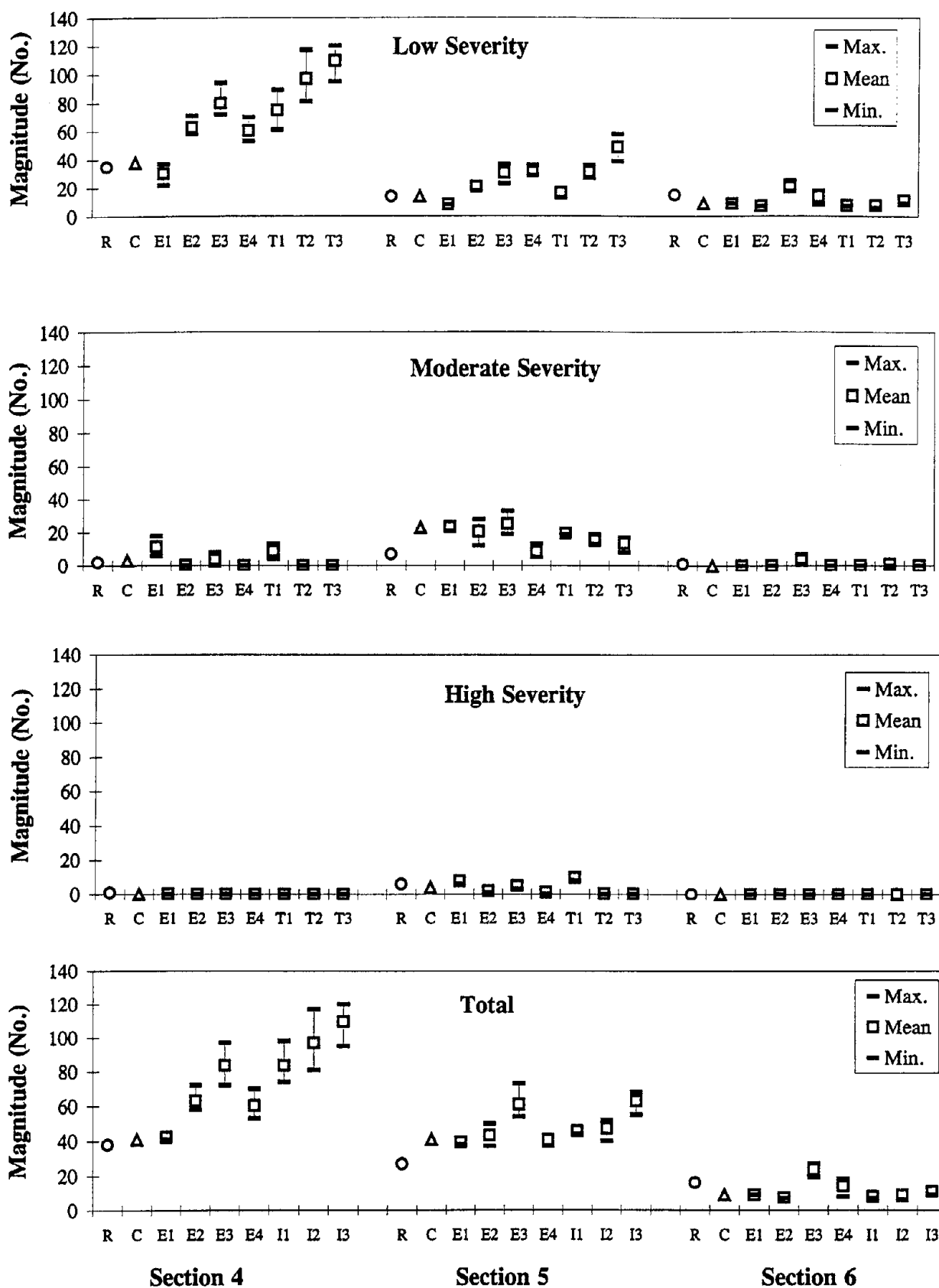


Figure 93. Longitudinal Cracking, Sealed, NWP (Meters) - AC Pavements, PASCO/ PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.



**Figure 94. Transverse Cracking (No.) - AC Pavements, PASCO/PADIAS:
Reference, Consensus, and Minimum, Mean, and Maximum
Values for Experts and Teams for Three Repetitions.**

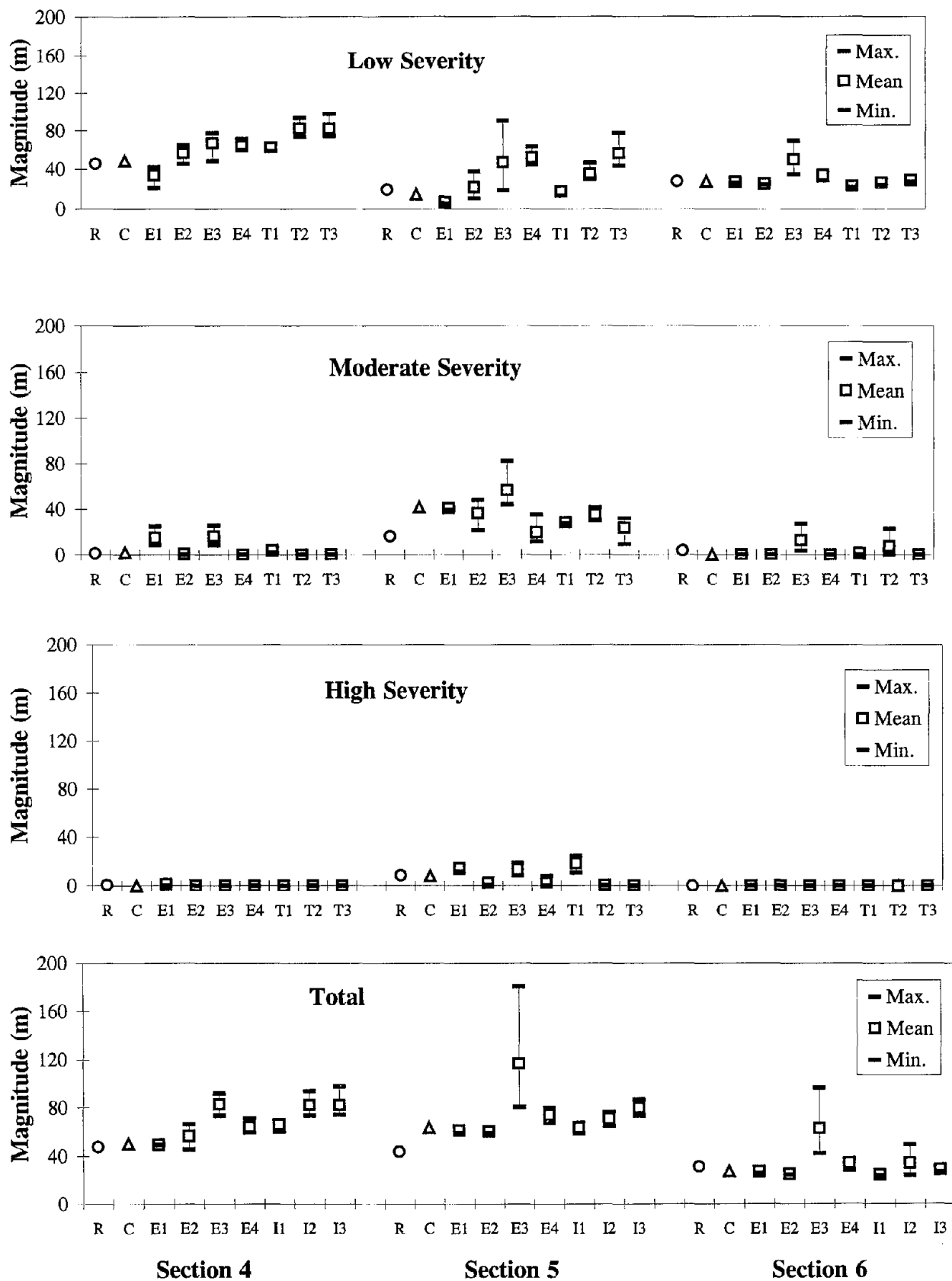


Figure 95. Transverse Cracking (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

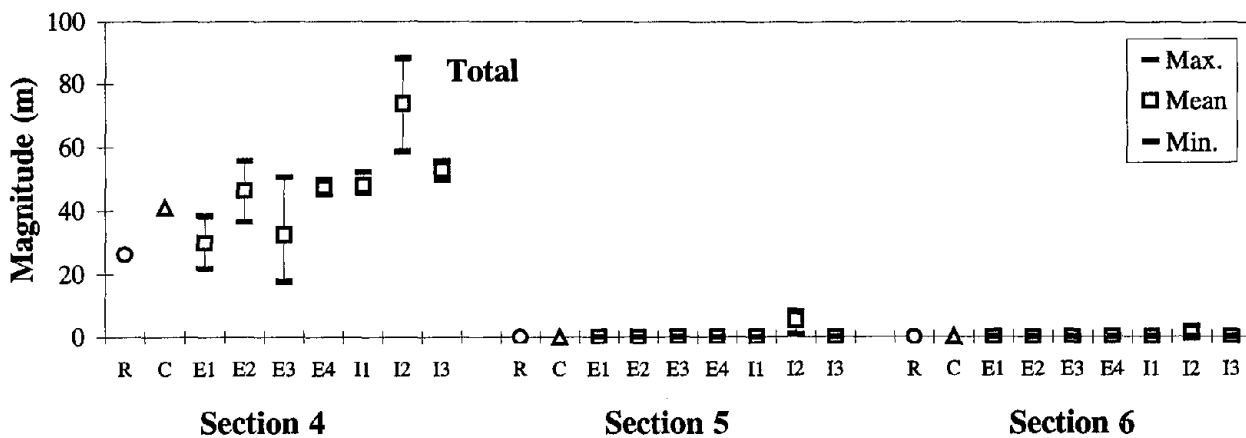
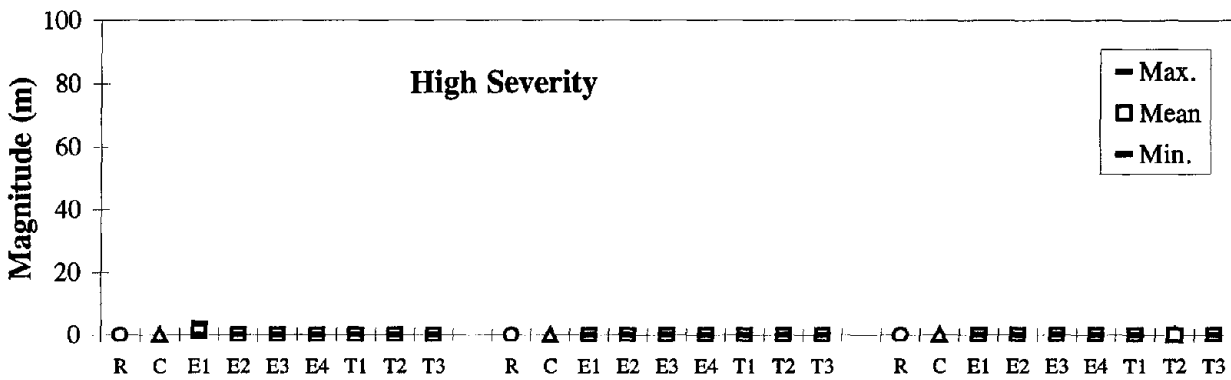
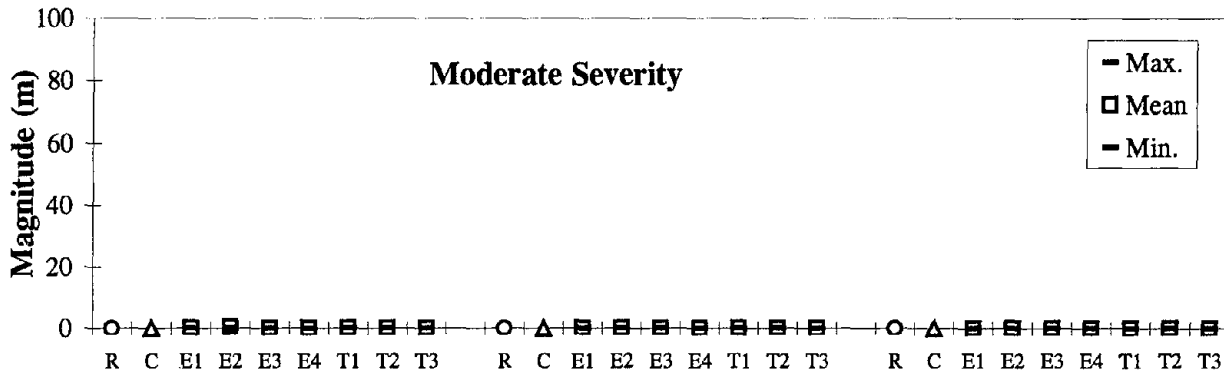
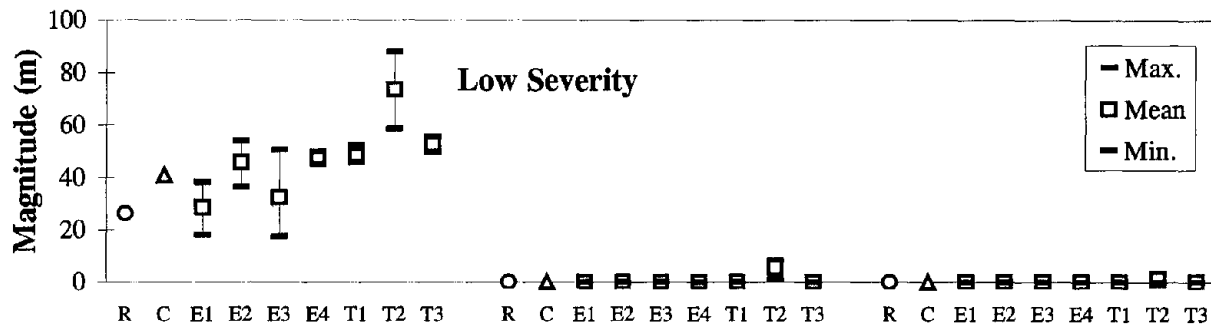


Figure 96. Transverse Cracking, Sealed (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

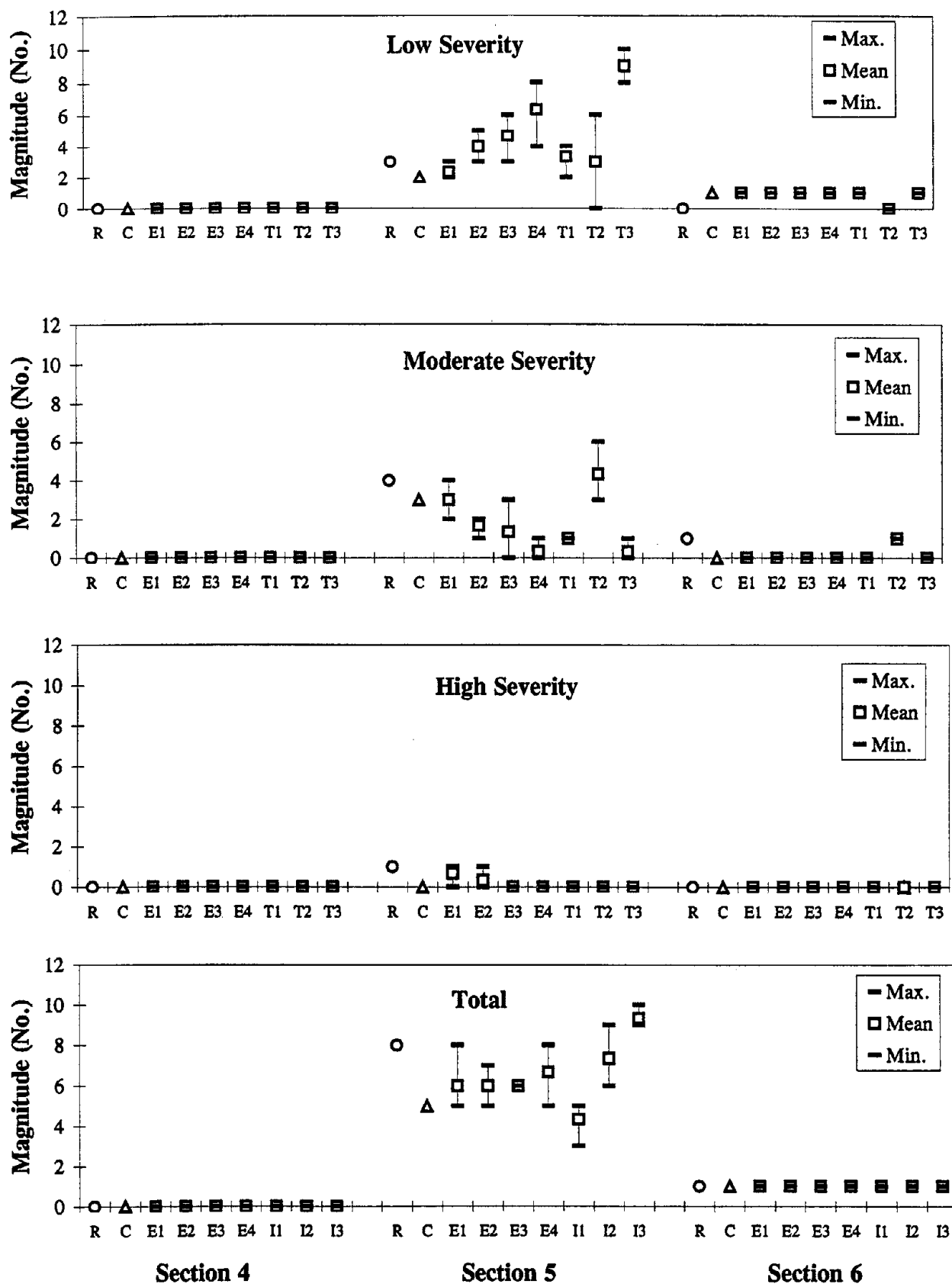


Figure 97. Patch/Patch Deterioration (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

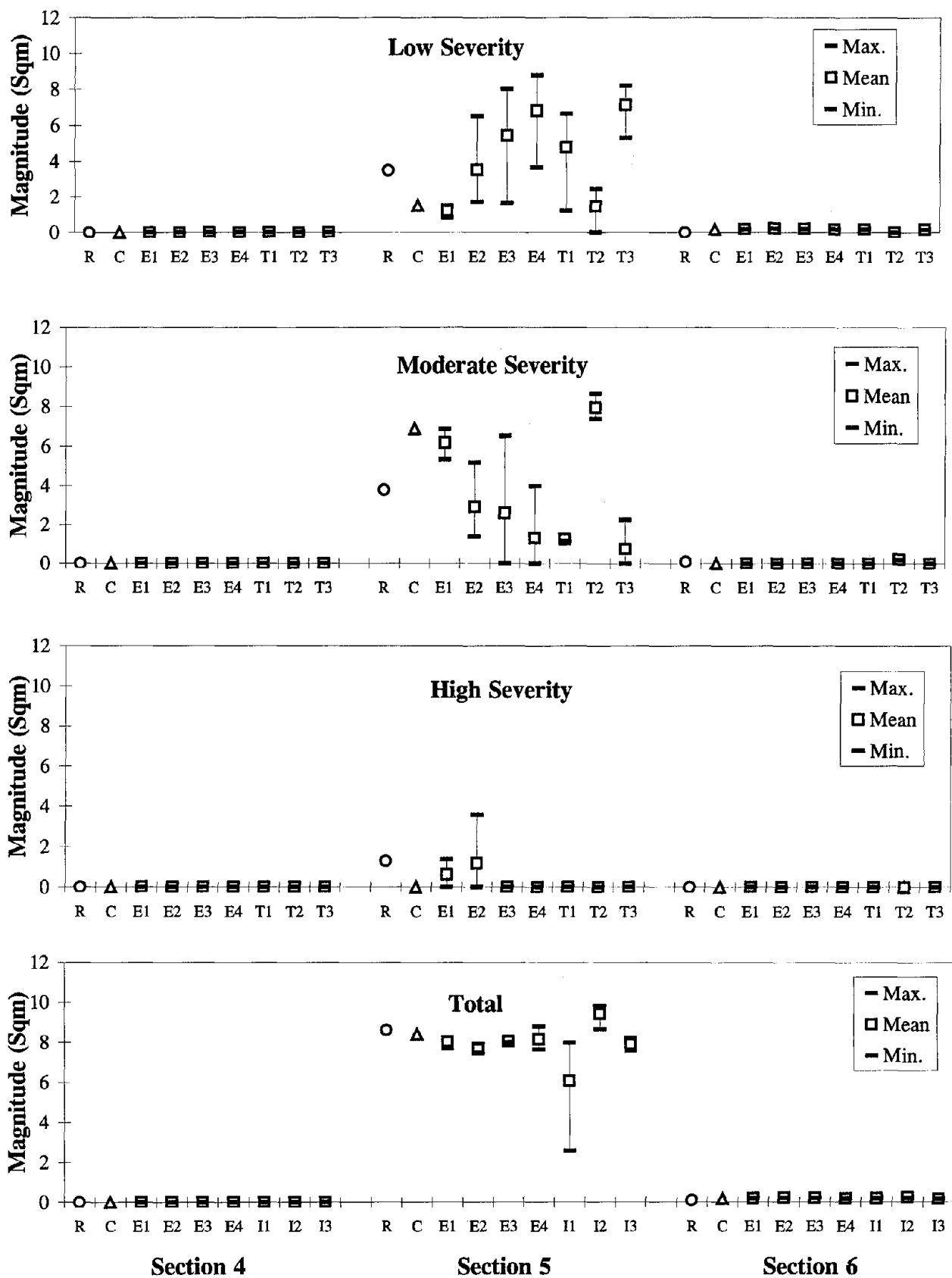


Figure 98. Patch/Patch Deterioration (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

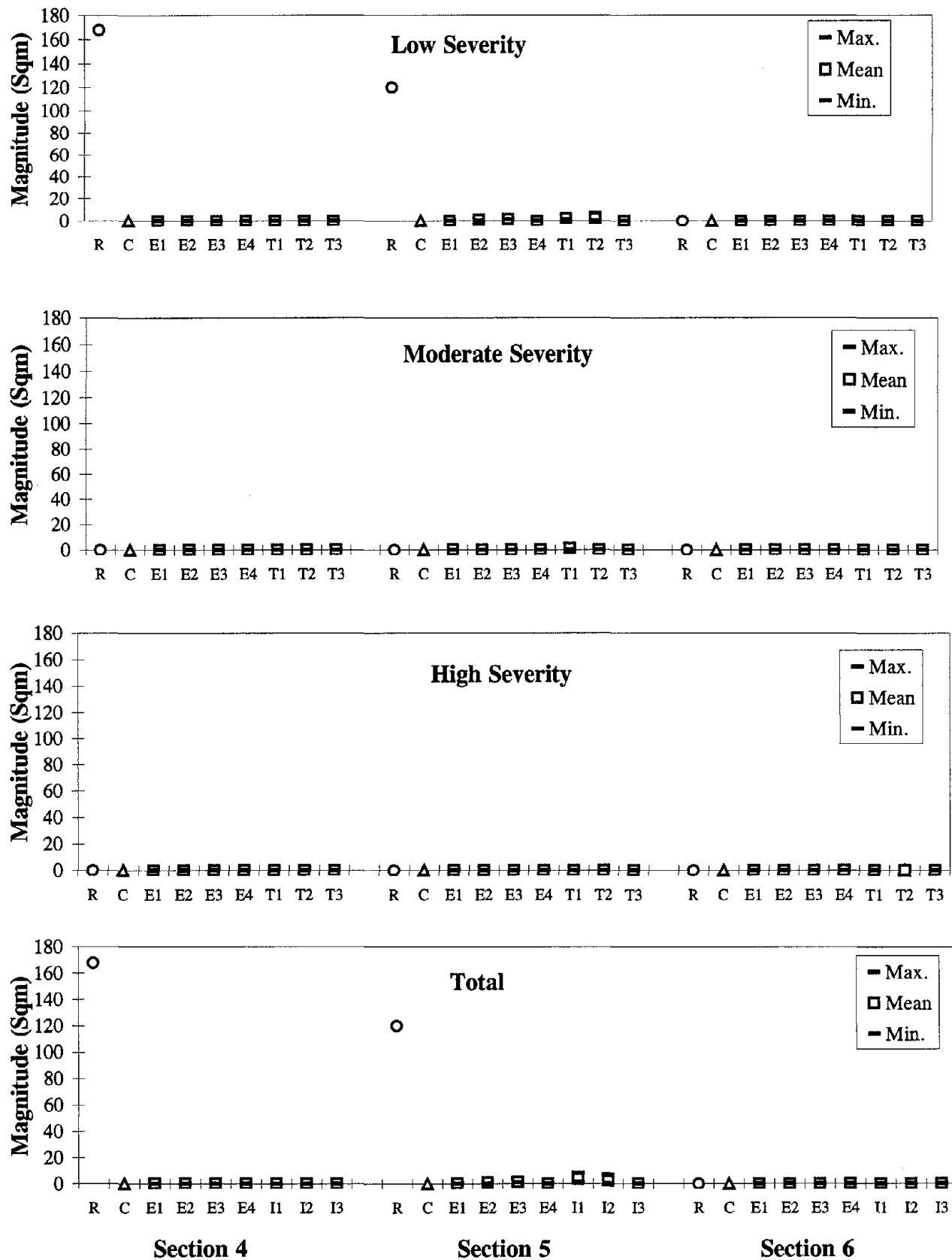


Figure 99. Bleeding (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

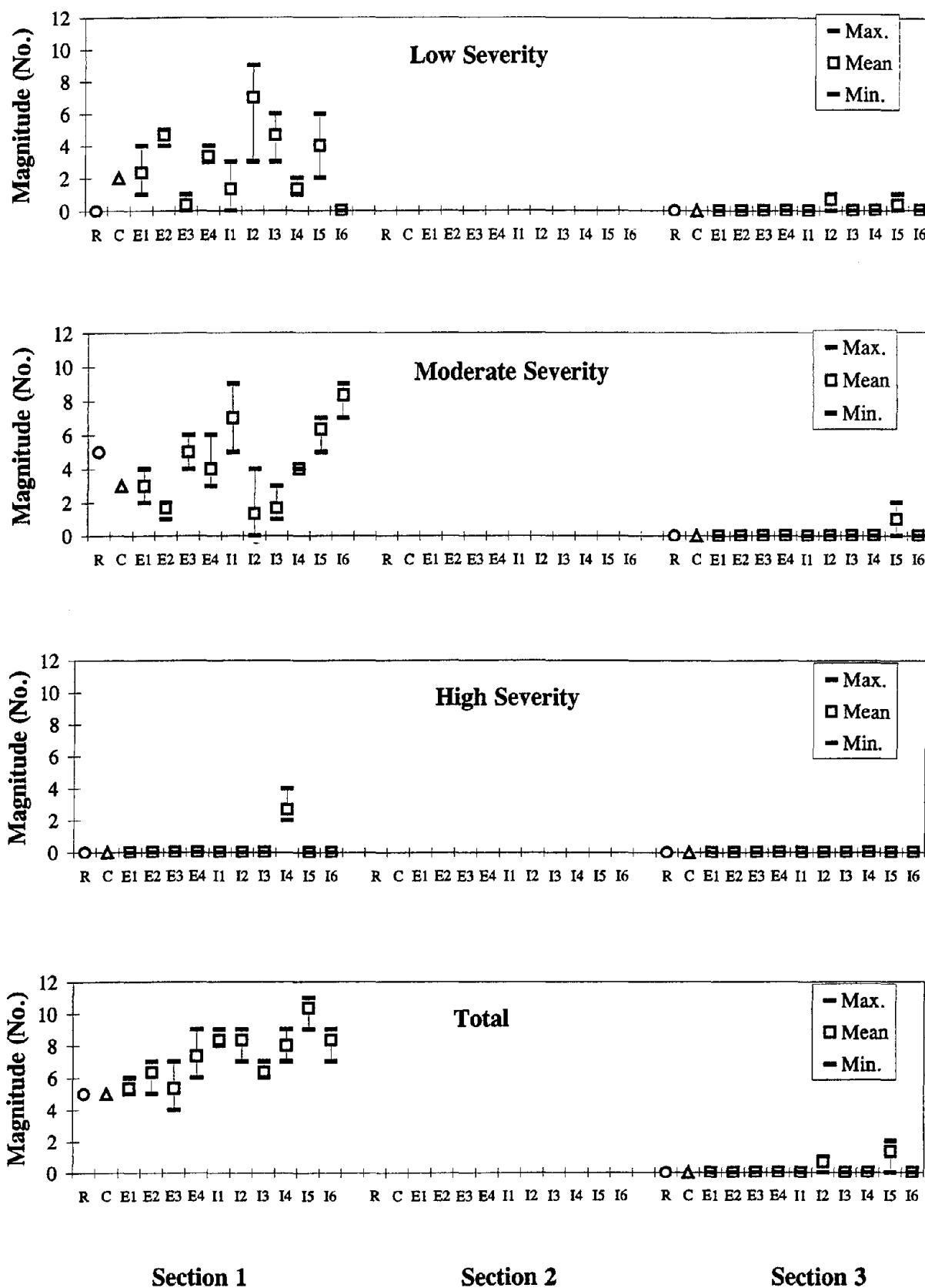


Figure 100. Corner Breaks (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

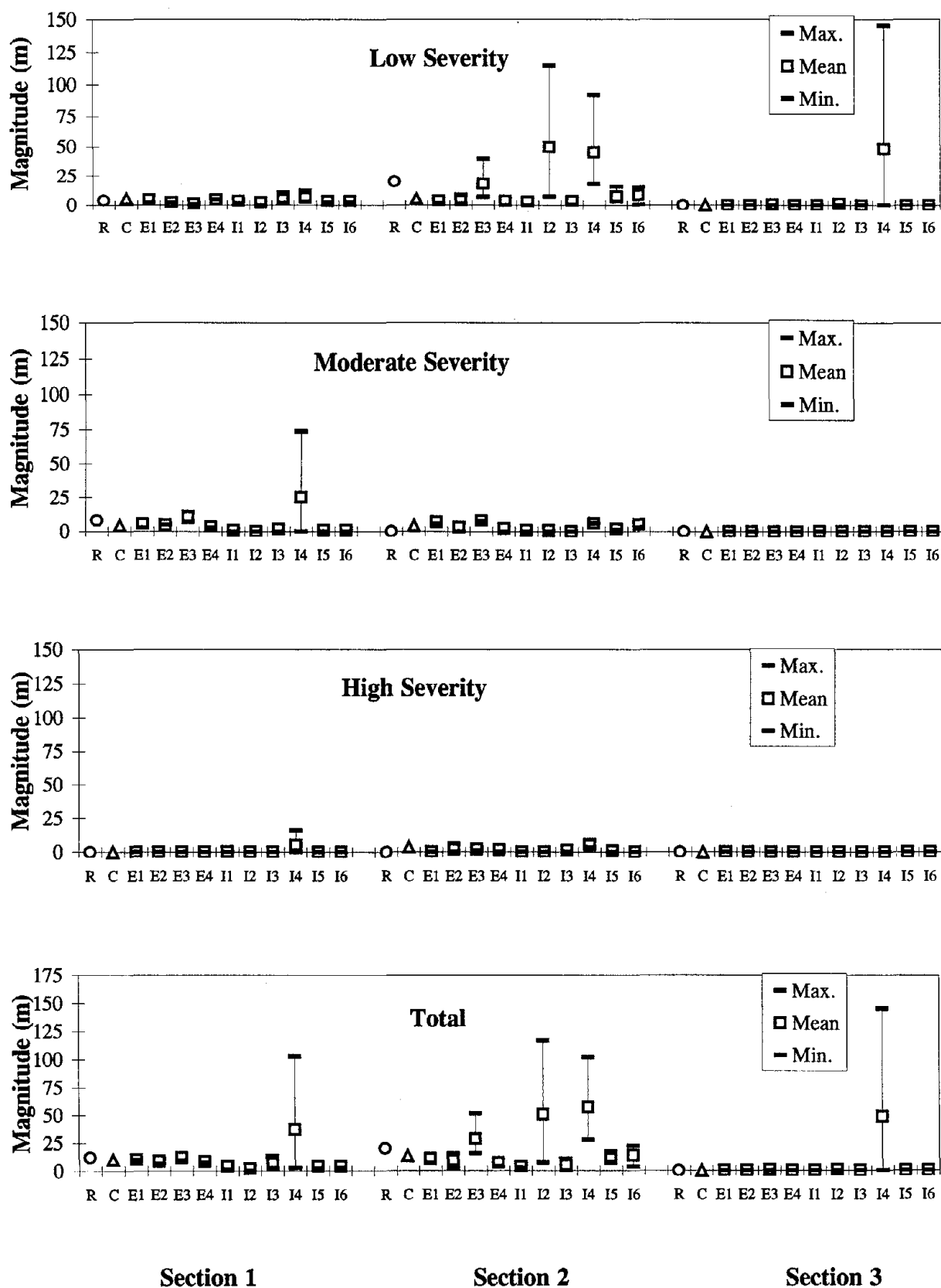


Figure 101. Longitudinal Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

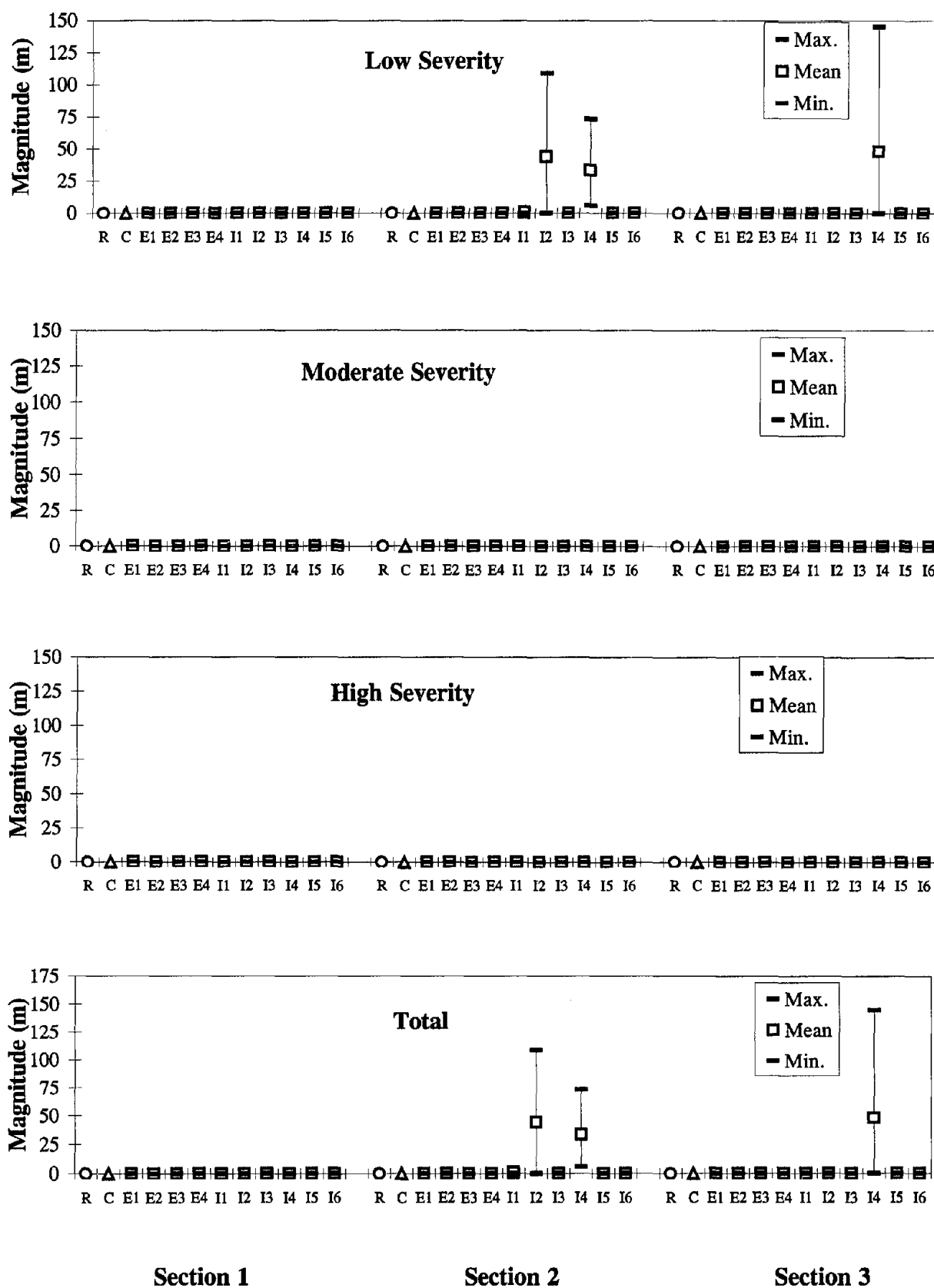


Figure 102. Longitudinal Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

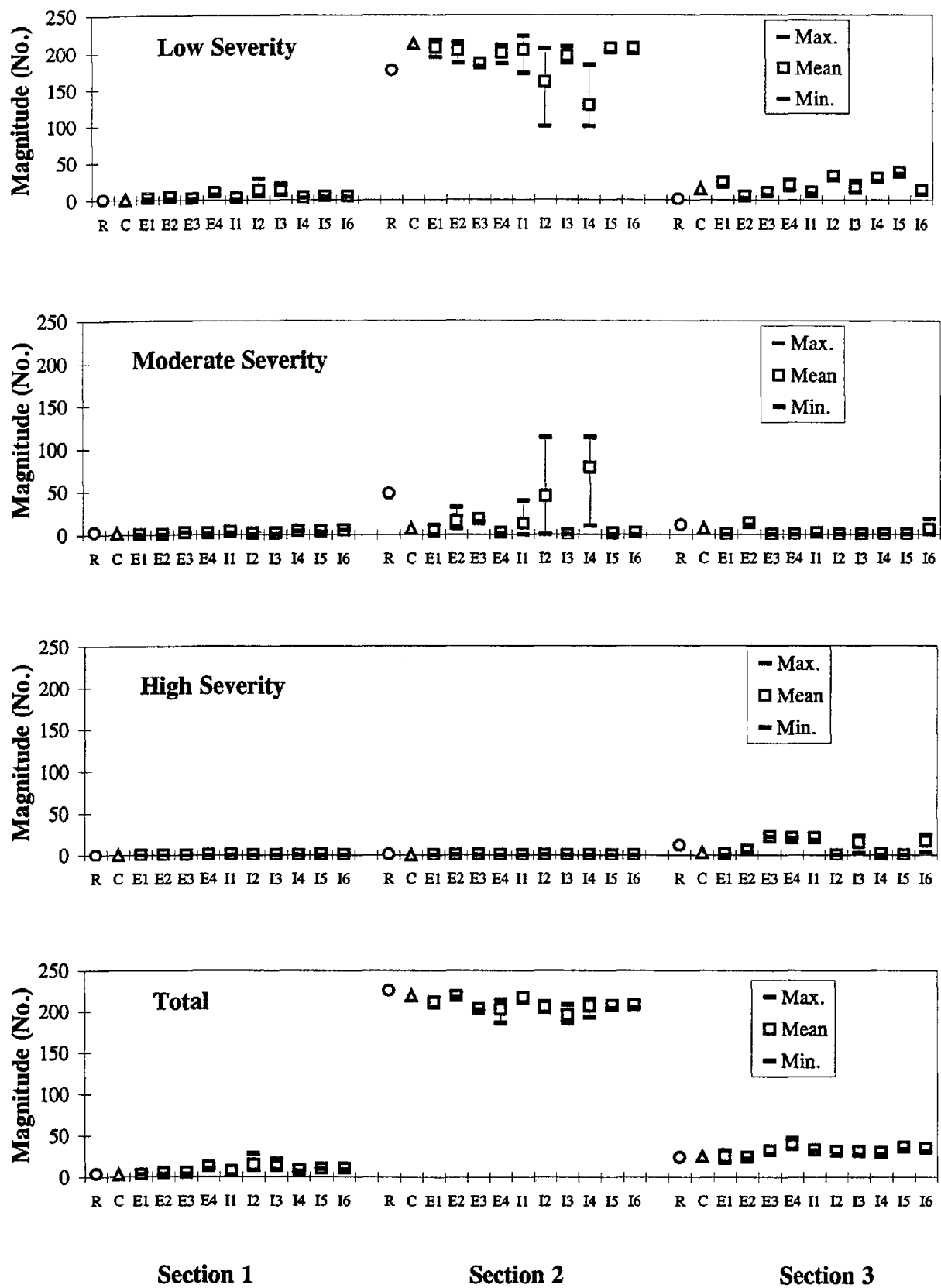


Figure 103. Transverse Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

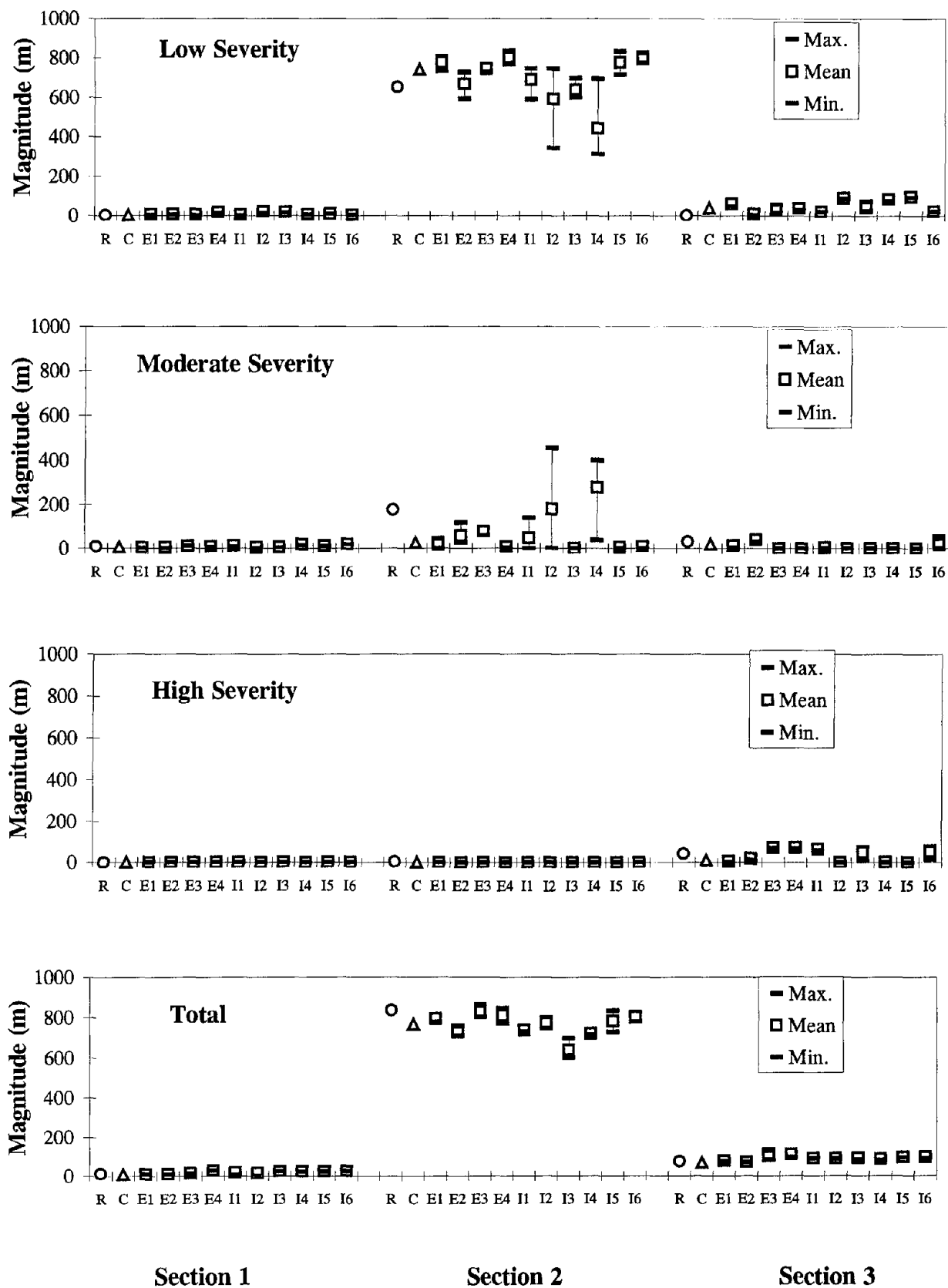


Figure 104. Transverse Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

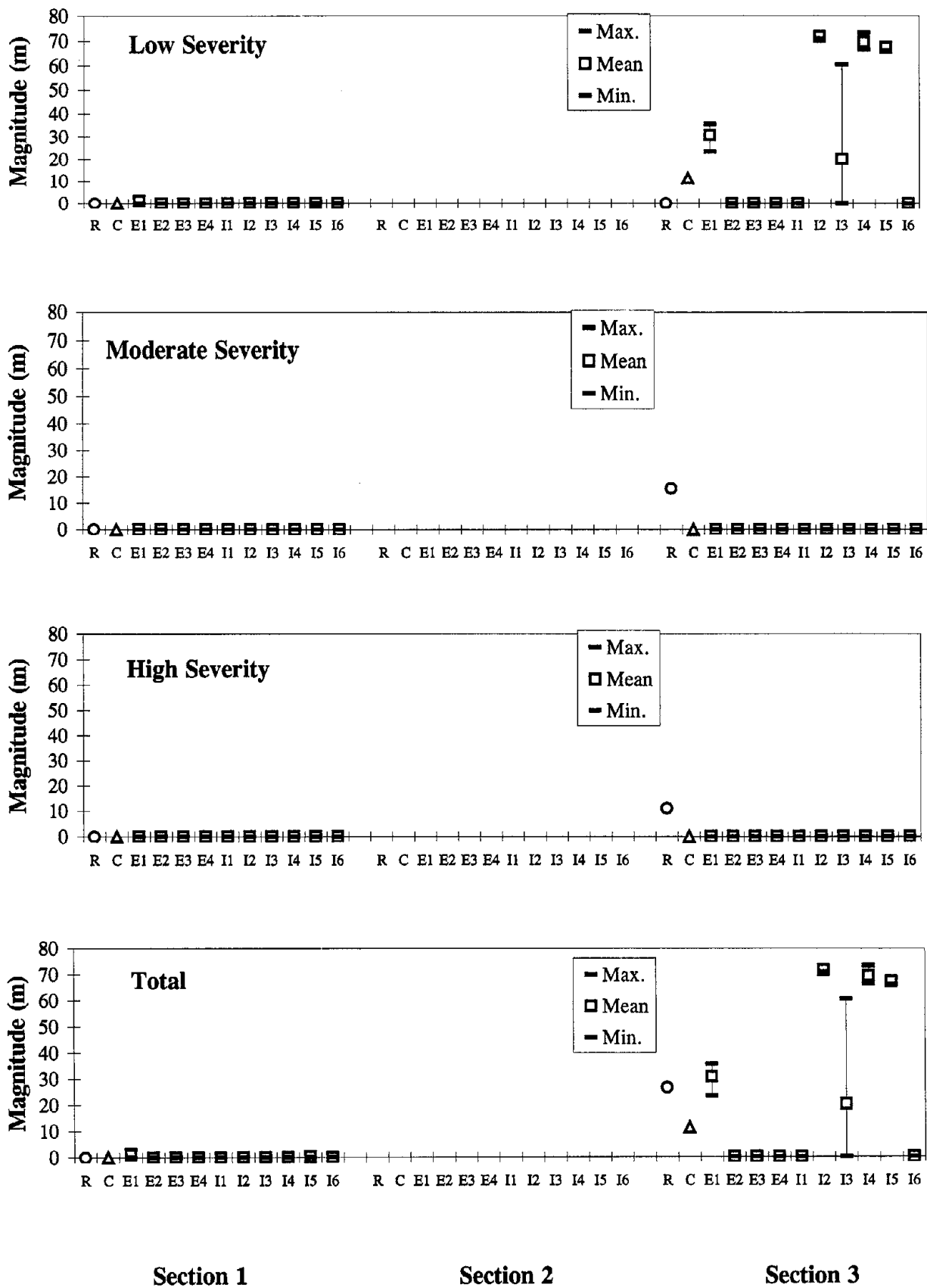


Figure 105. Transverse Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

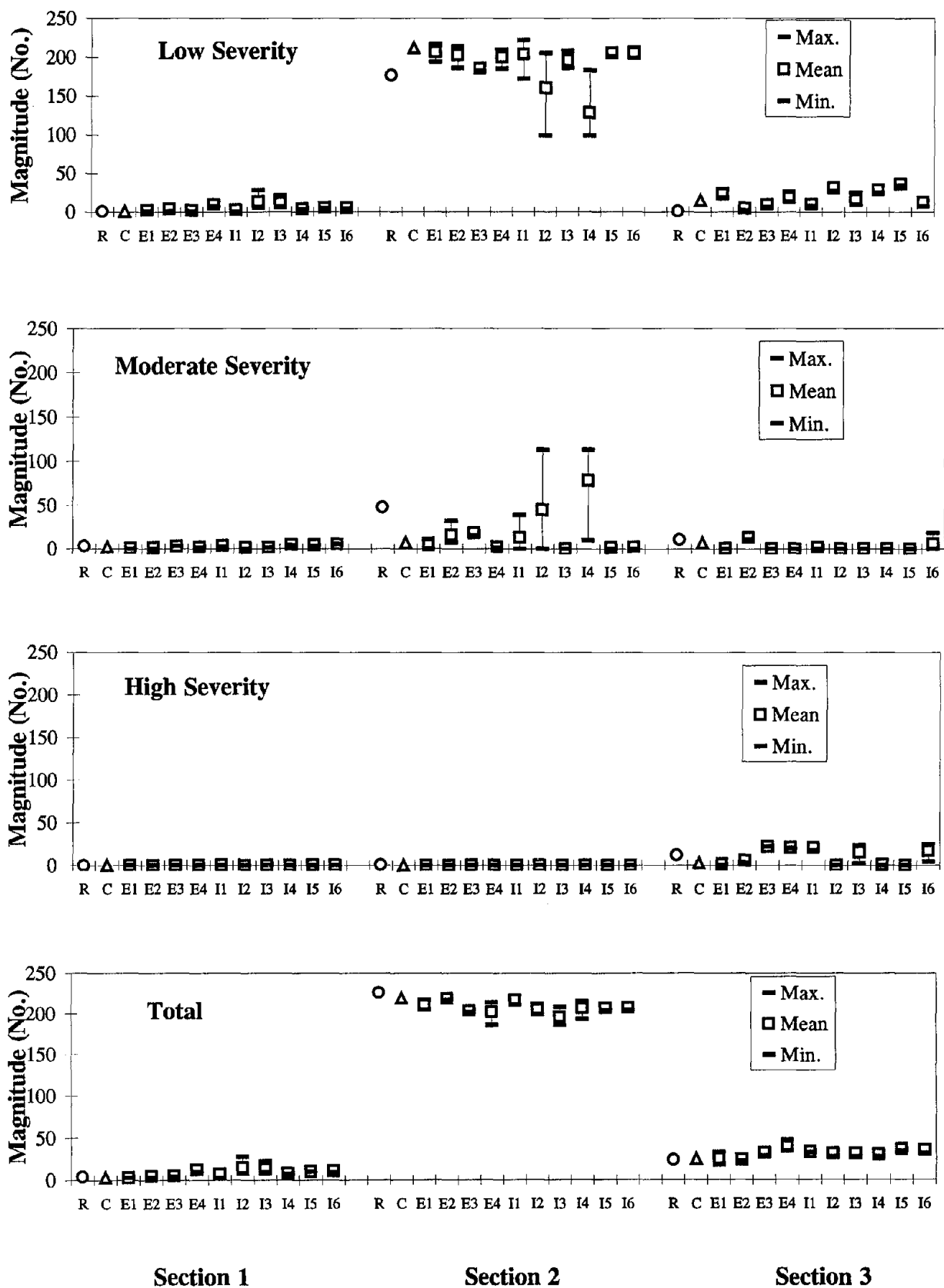


Figure 106. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

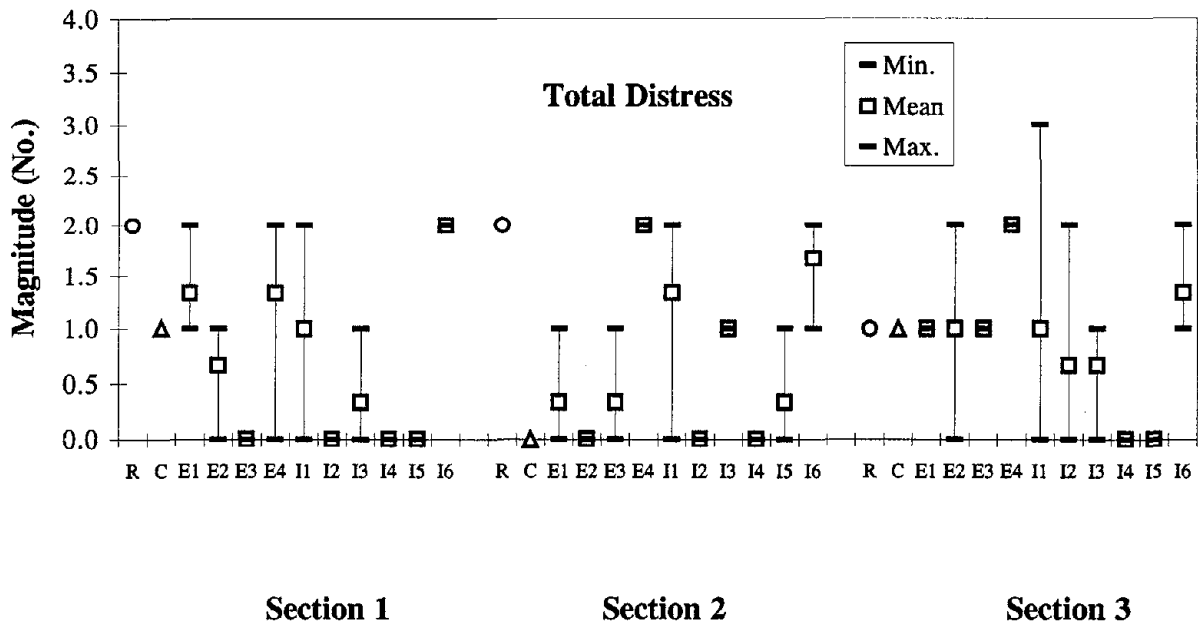


Figure 107. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

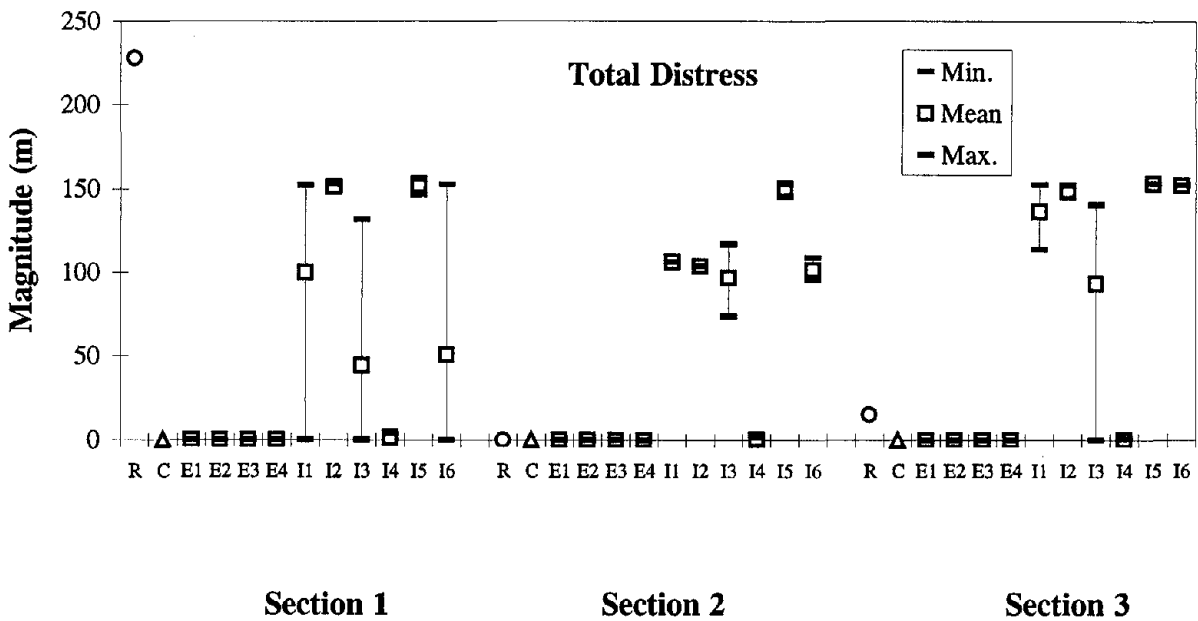


Figure 108. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

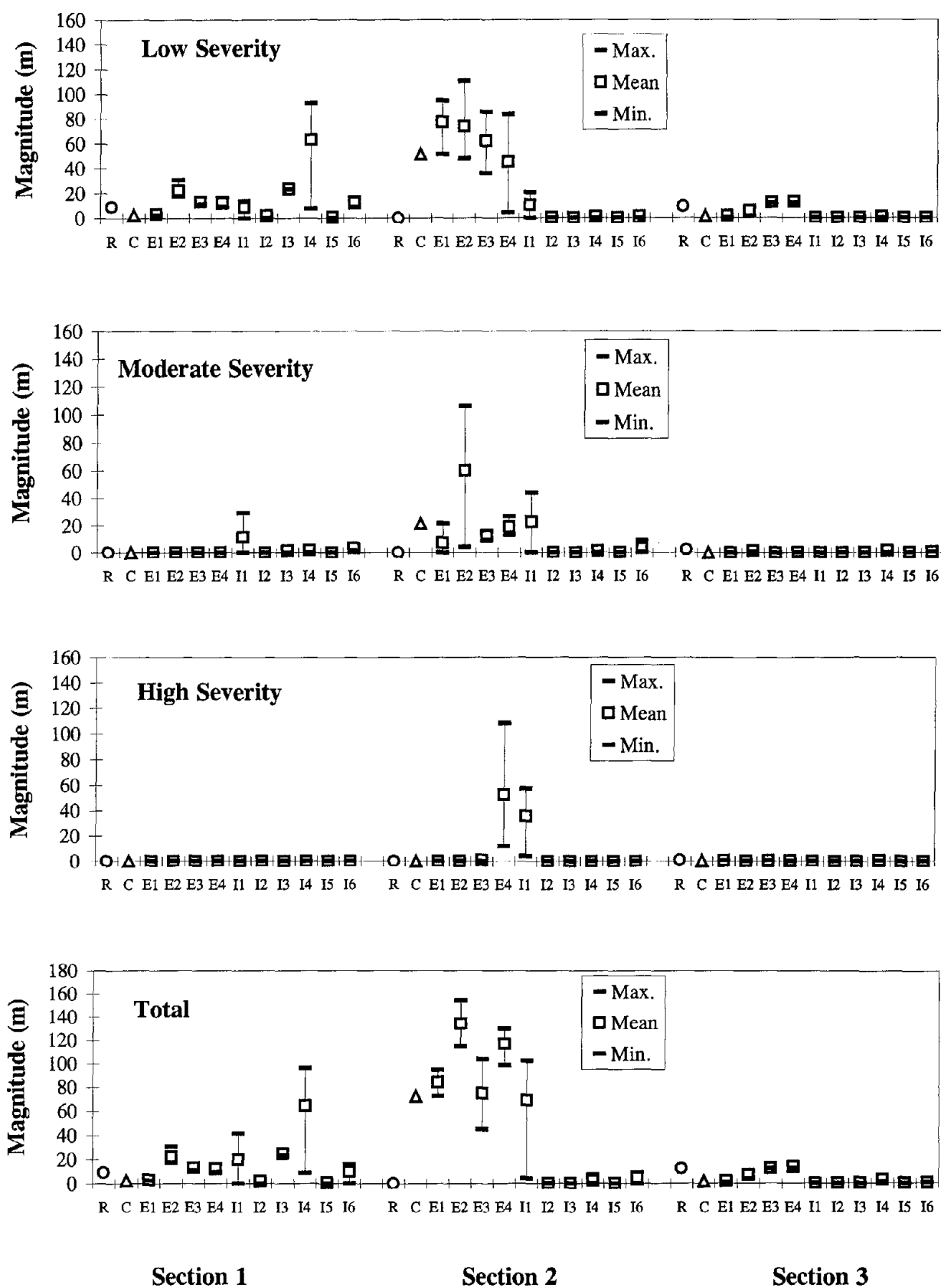


Figure 109. Spalling of Longitudinal Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

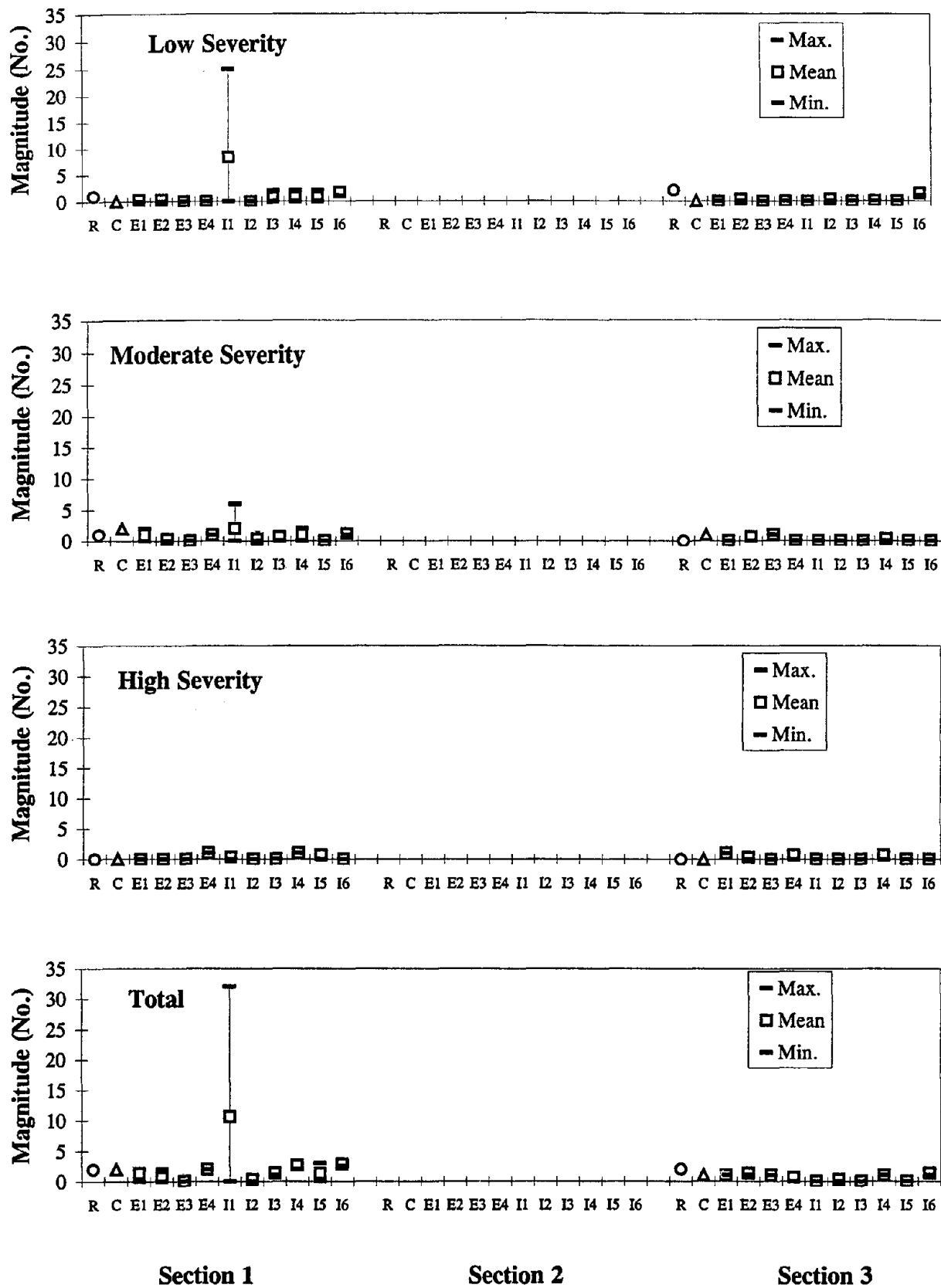


Figure 110. Spalling of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

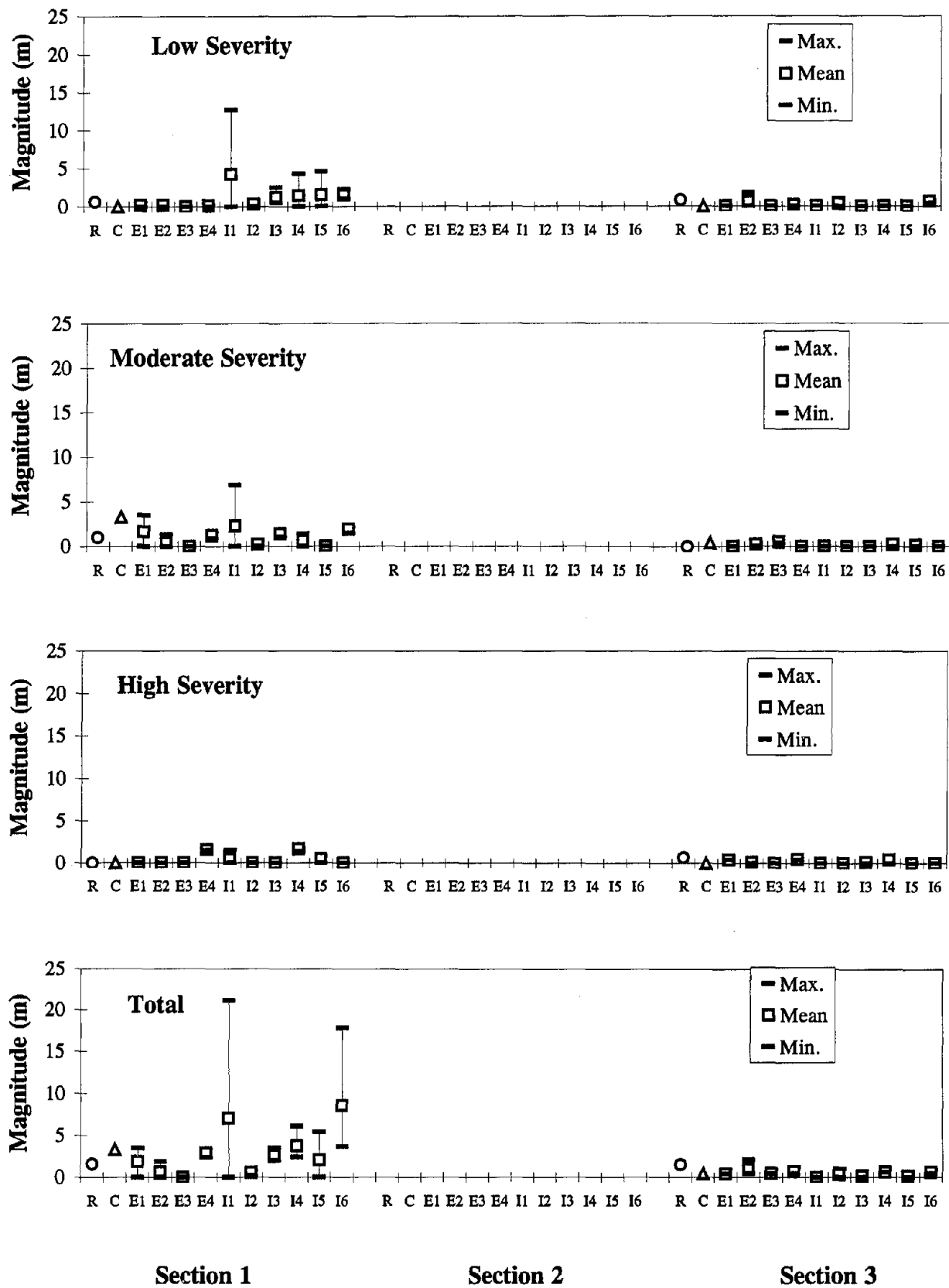


Figure 111. Spalling of Transverse Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

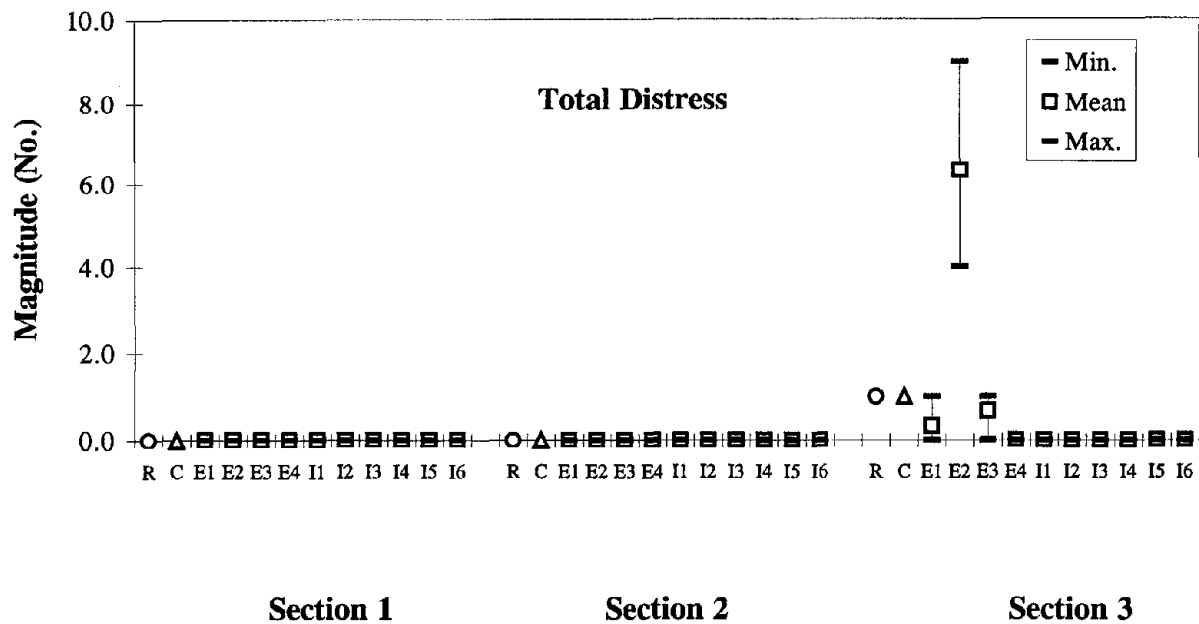


Figure 112. Map Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

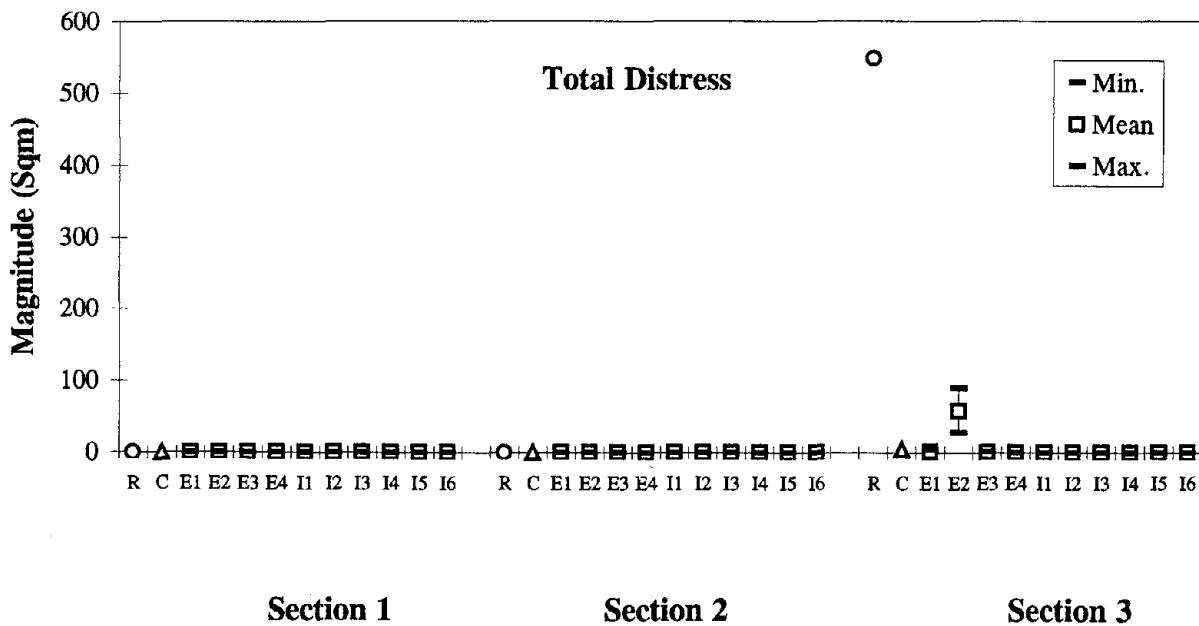
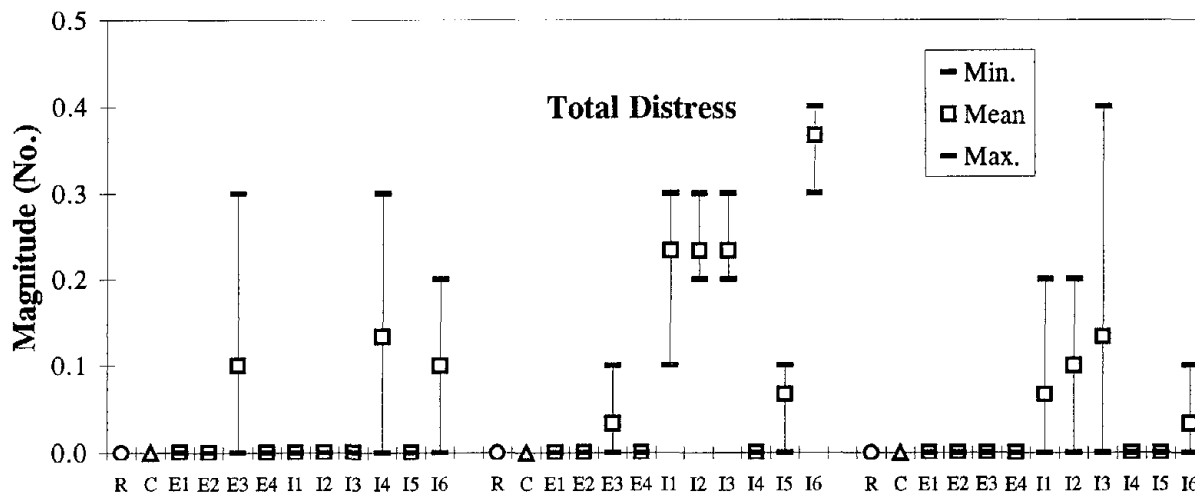
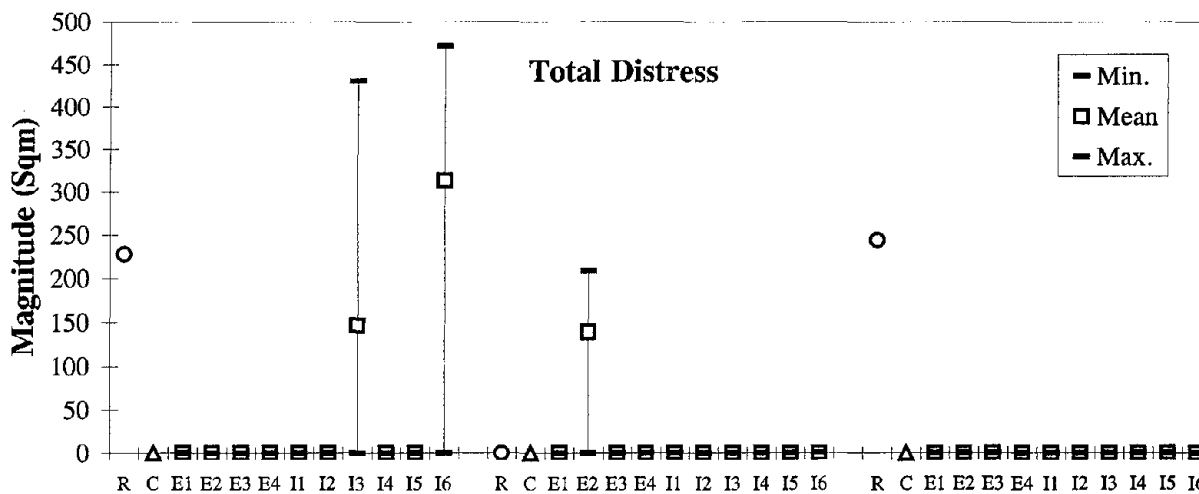


Figure 113. Map Cracking (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.



Section 1 Section 2 Section 3
Figure 114. Popouts (No.) - PCC Pavements, PASCO/PADIAS:
Reference, Consensus, and Minimum, Mean, and Maximum Values for
Experts and Individual Raters for Three Repetitions.



Section 1 Section 2 Section 3
Figure 115. Polished Aggregate (Sq. Meters) - PCC Pavements, PASCO/PADIAS:
Reference, Consensus, and Minimum, Mean, and Maximum Values for
Experts and Individual Raters for Three Repetitions.

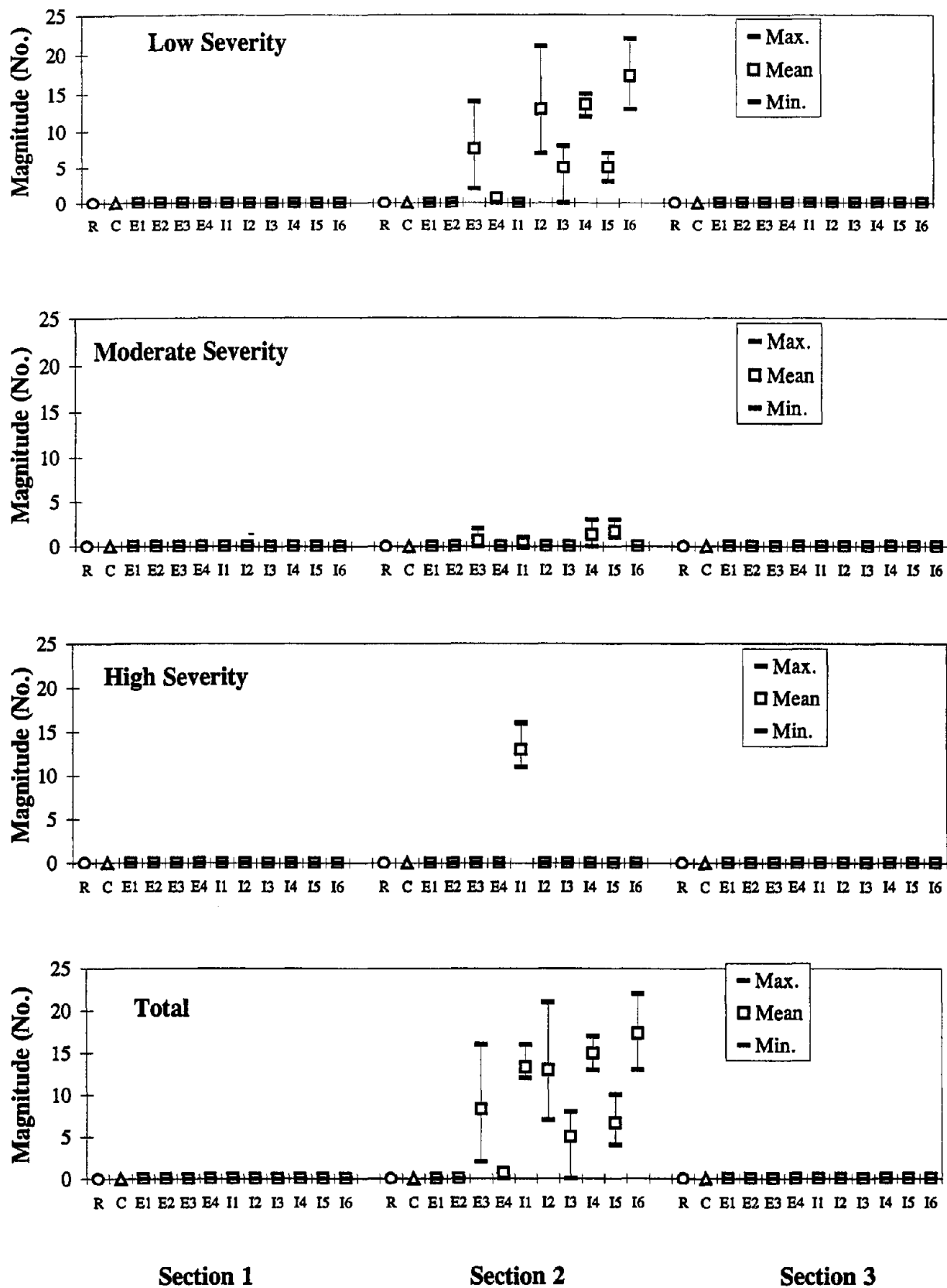
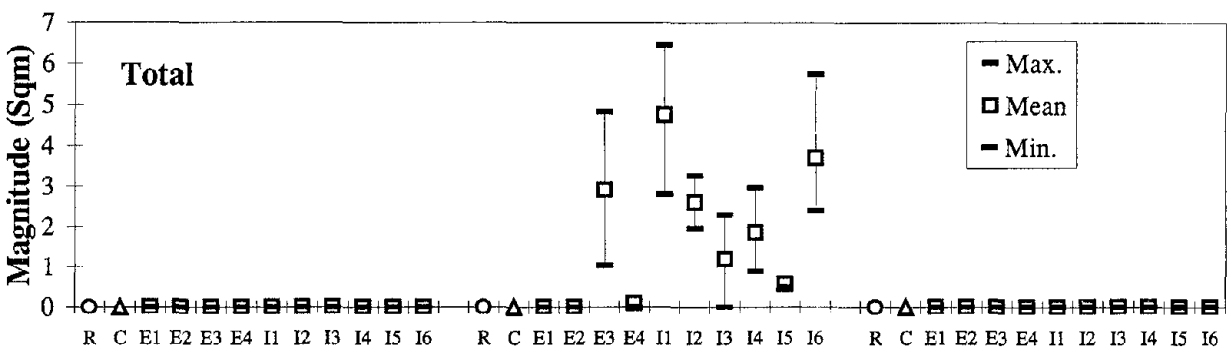
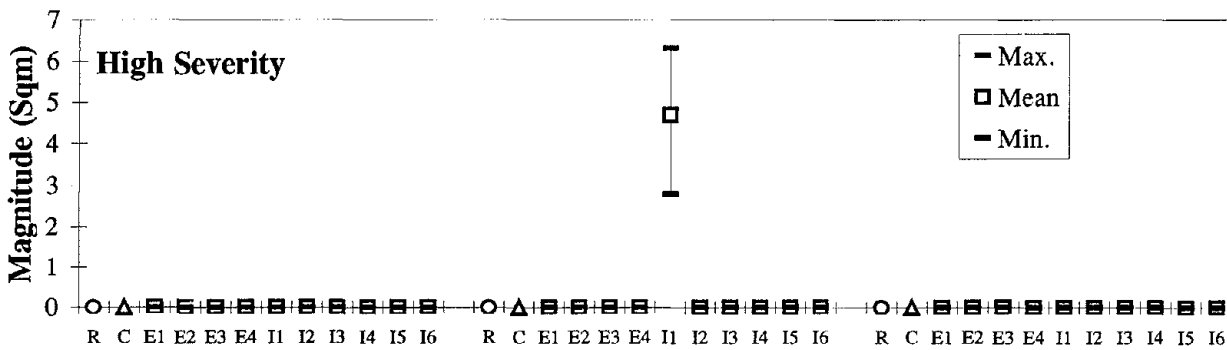
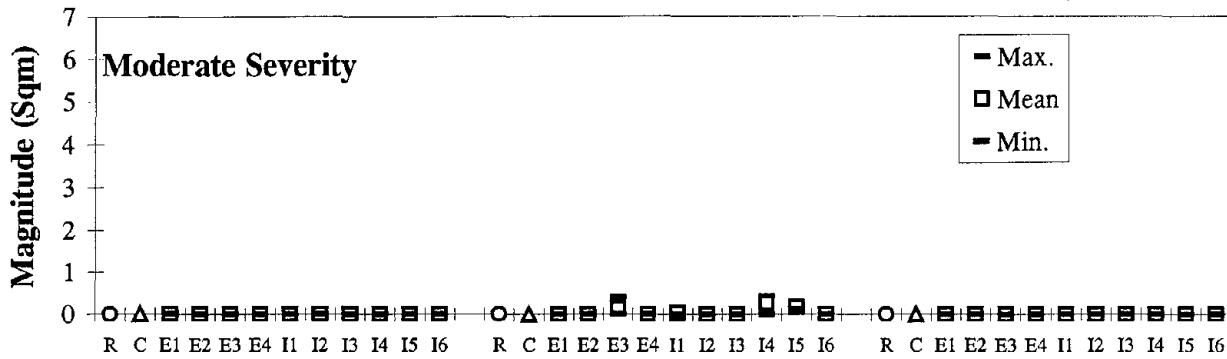
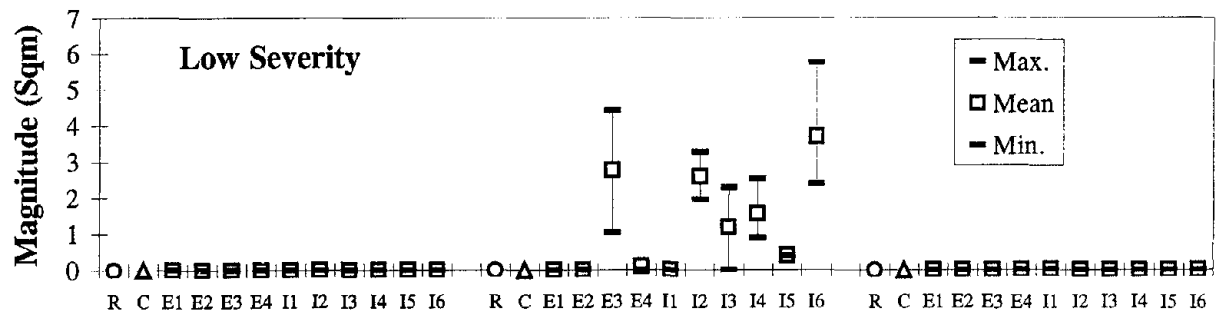


Figure 116. Patch/Patch Deterioration Flexible (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.



Section 1

Section 2

Section 3

Figure 117. Patch/Patch Deterioration Flexible (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

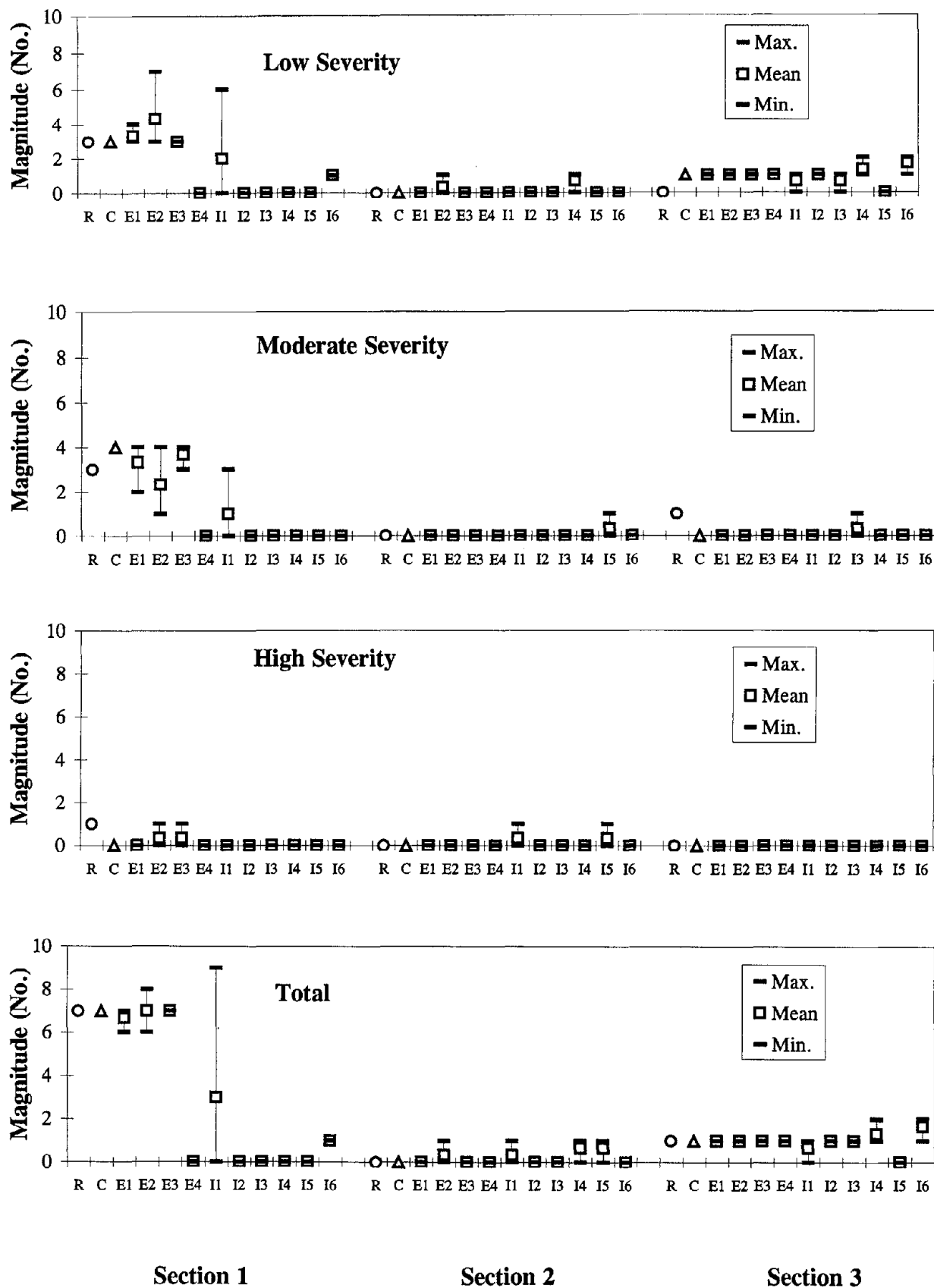
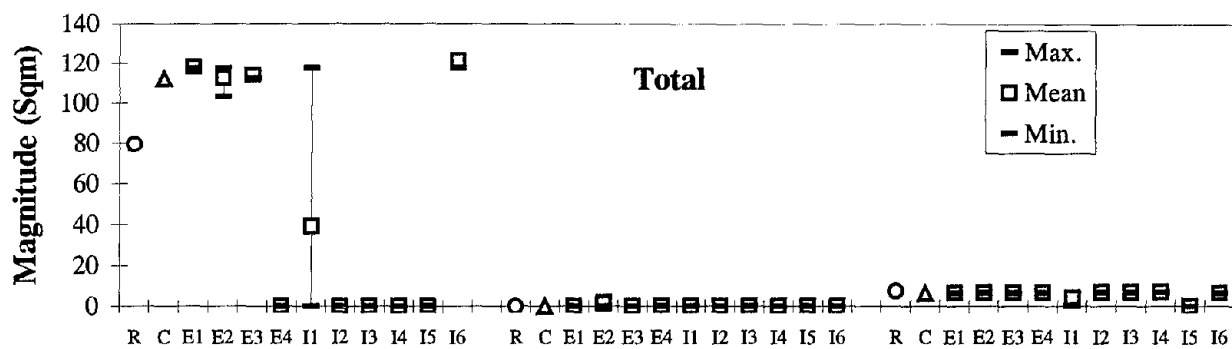
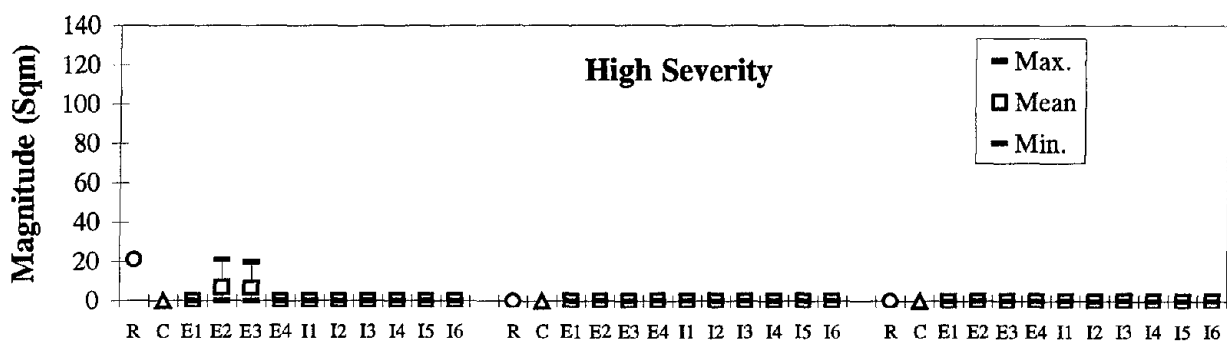
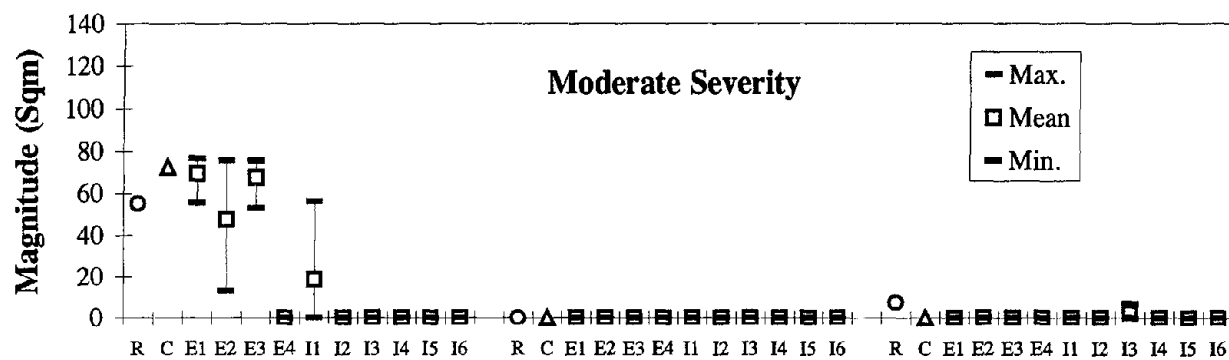
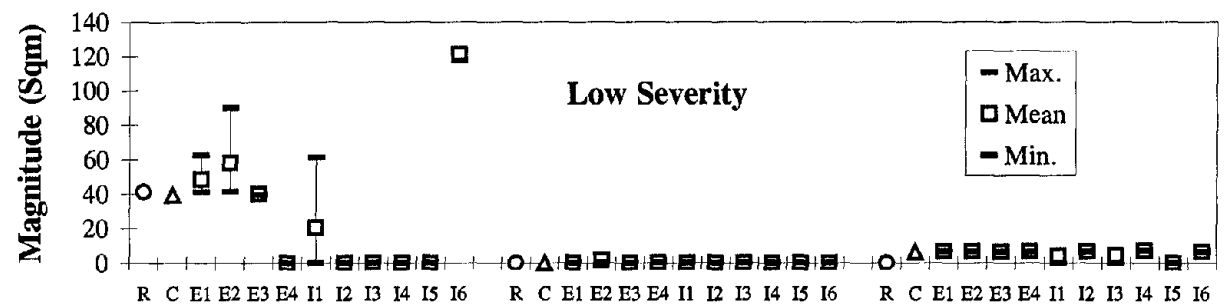


Figure 118. Patch/Patch Deterioration Rigid (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.

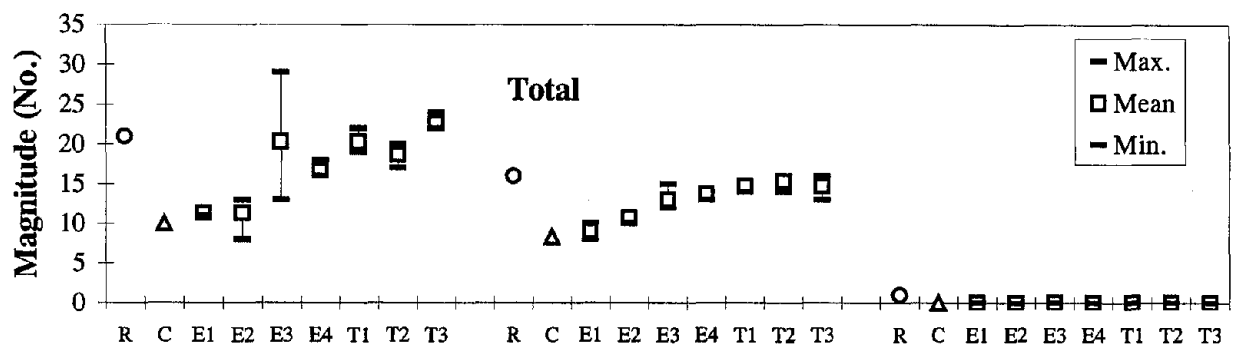
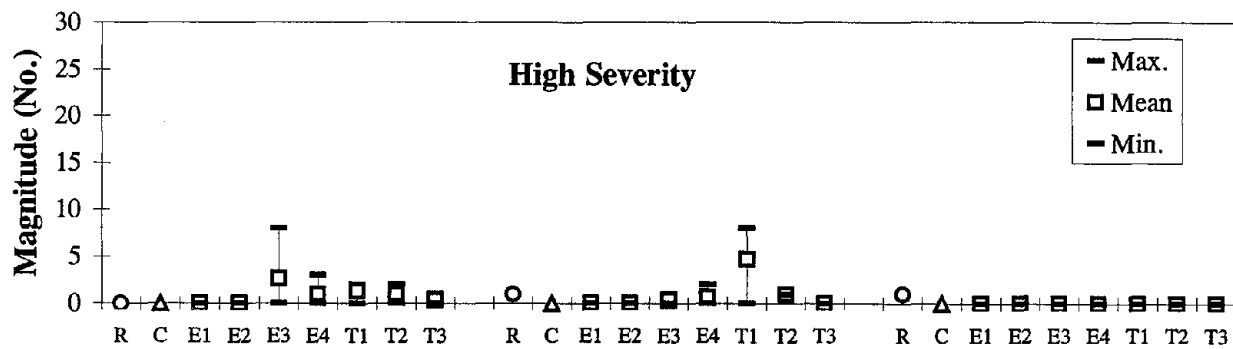
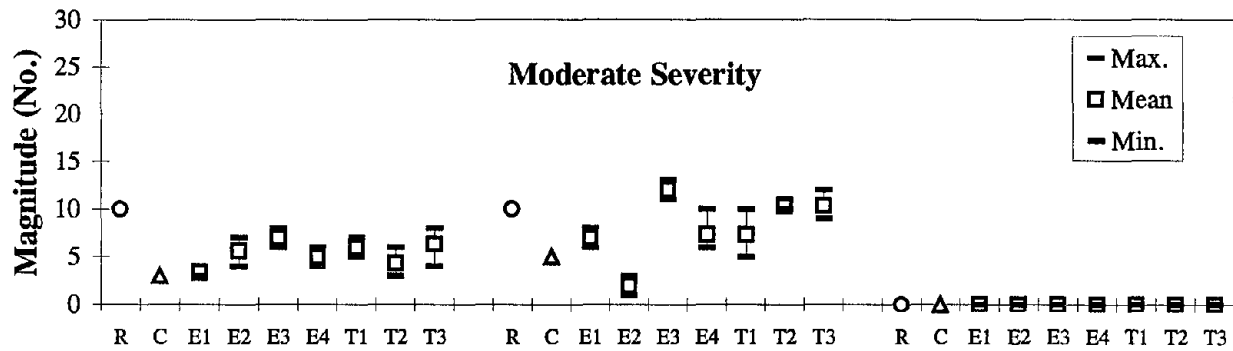
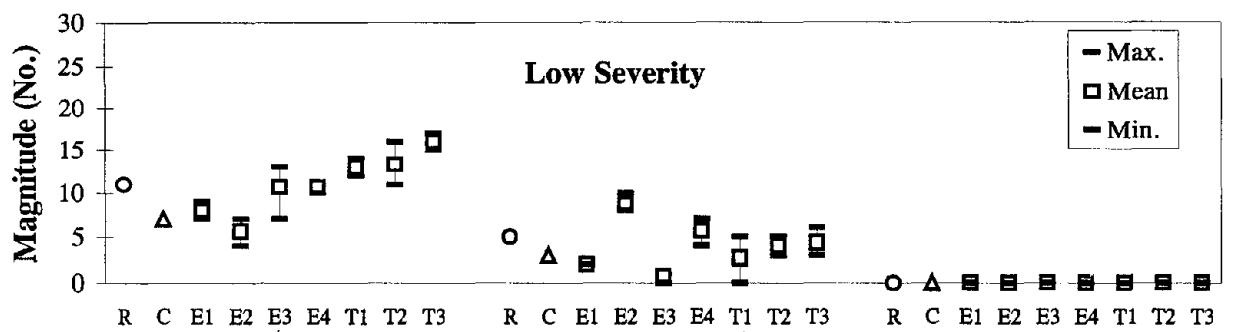


Section 1

Section 2

Section 3

Figure 119. Patch/Patch Deterioration Rigid (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Individual Raters for Three Repetitions.



Section 4

Section 5

Section 6

Figure 120. Corner Breaks (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

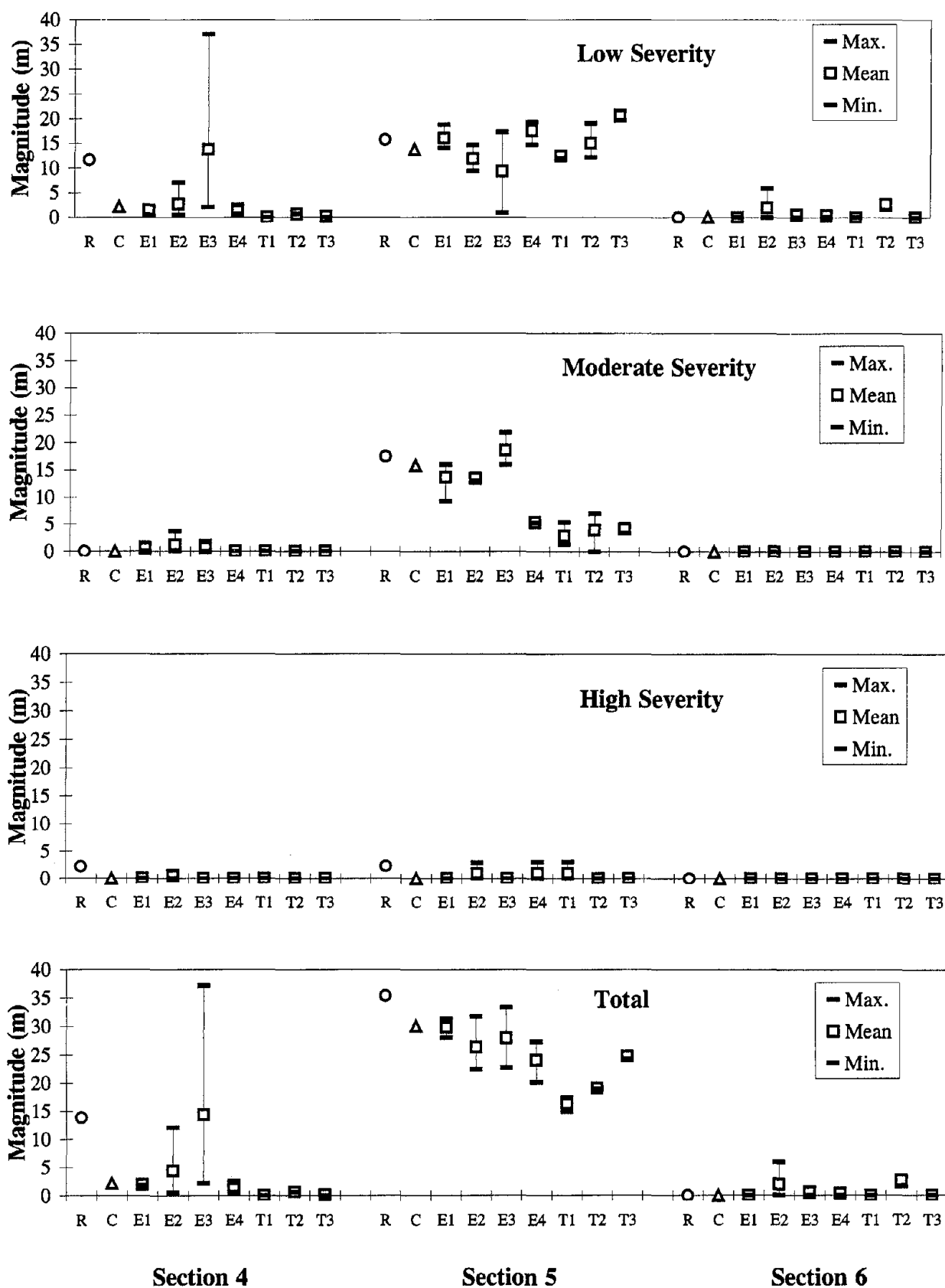


Figure 121. Longitudinal Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

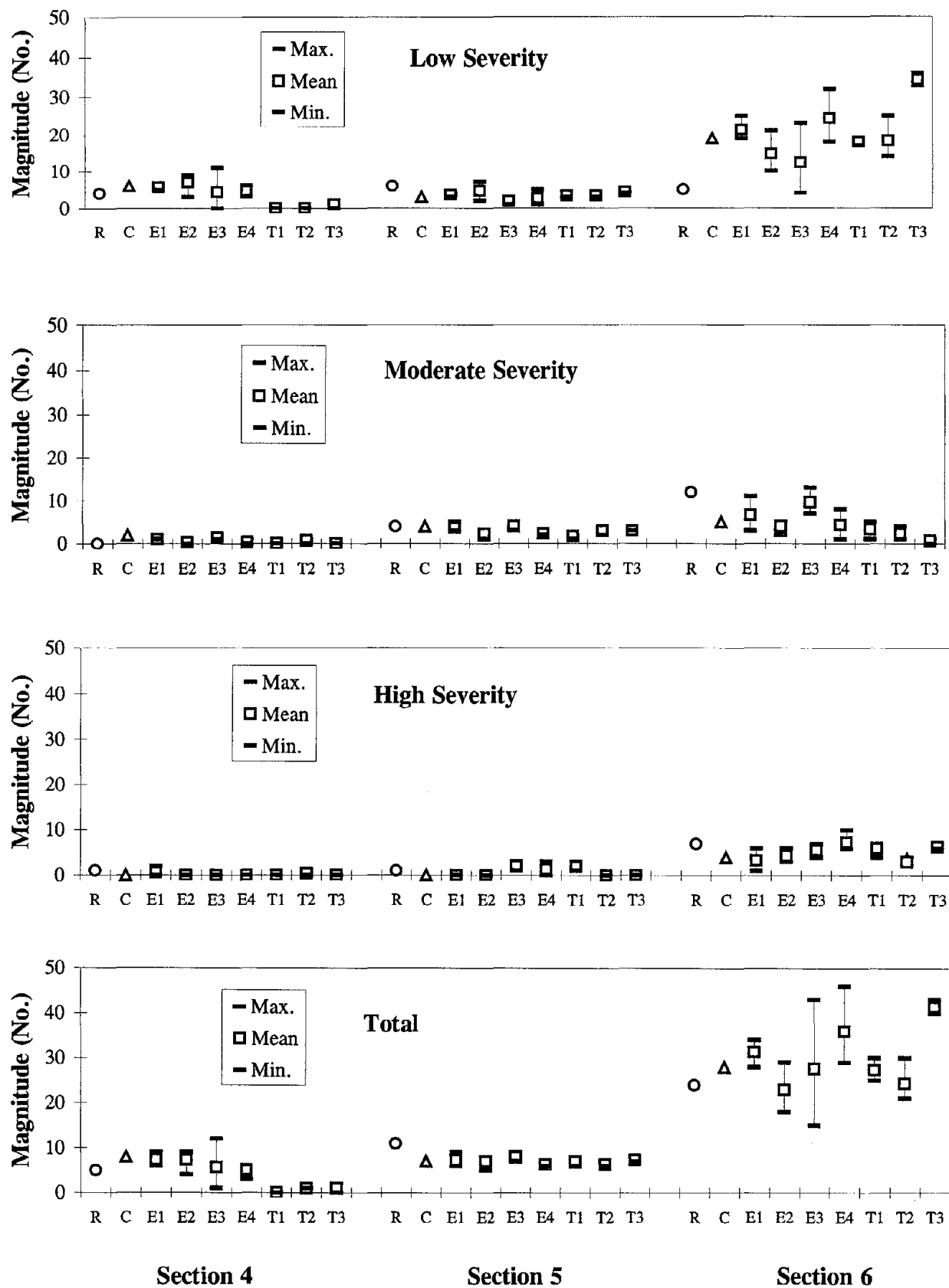


Figure 122. Transverse Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

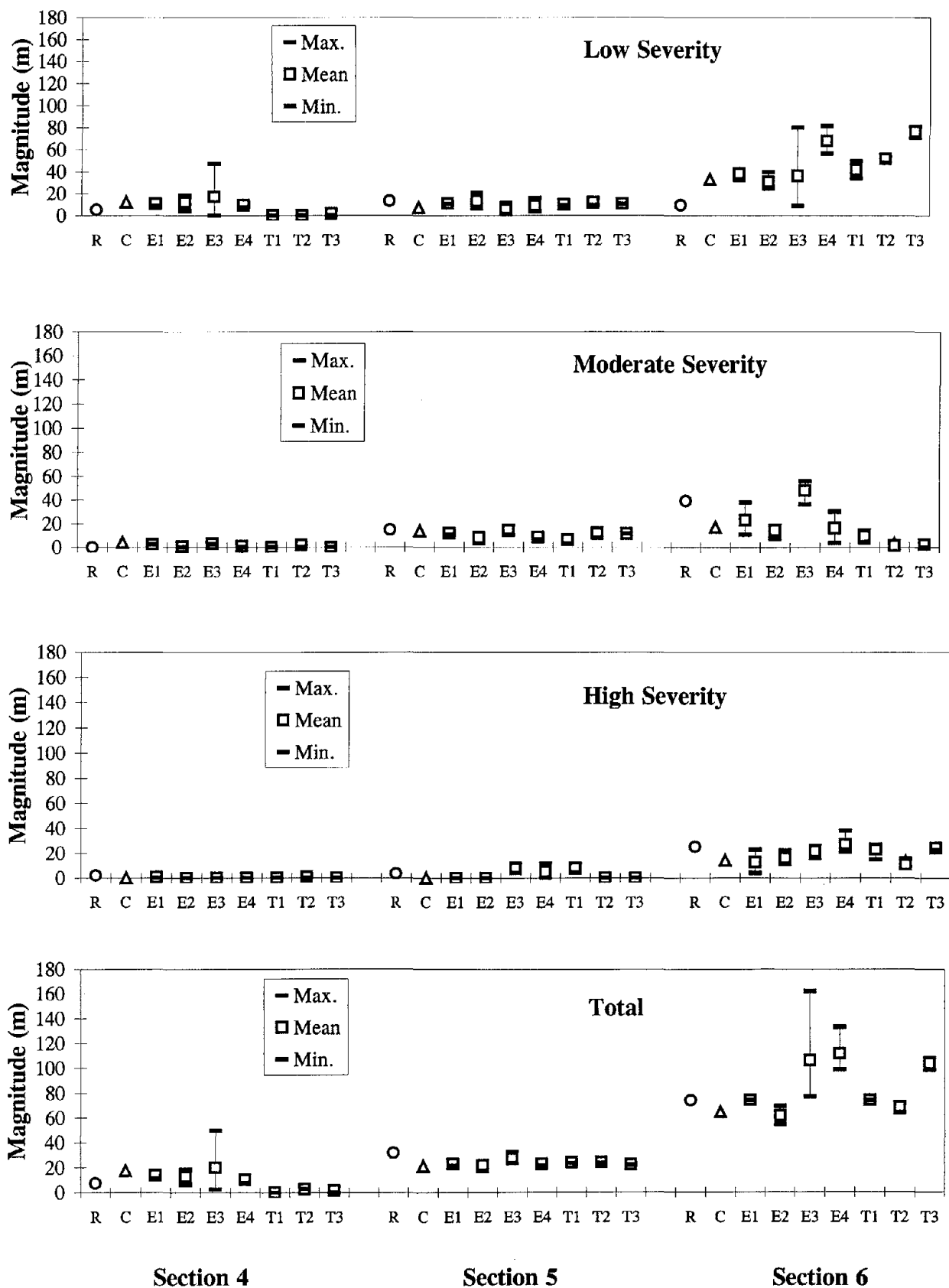


Figure 123. Transverse Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

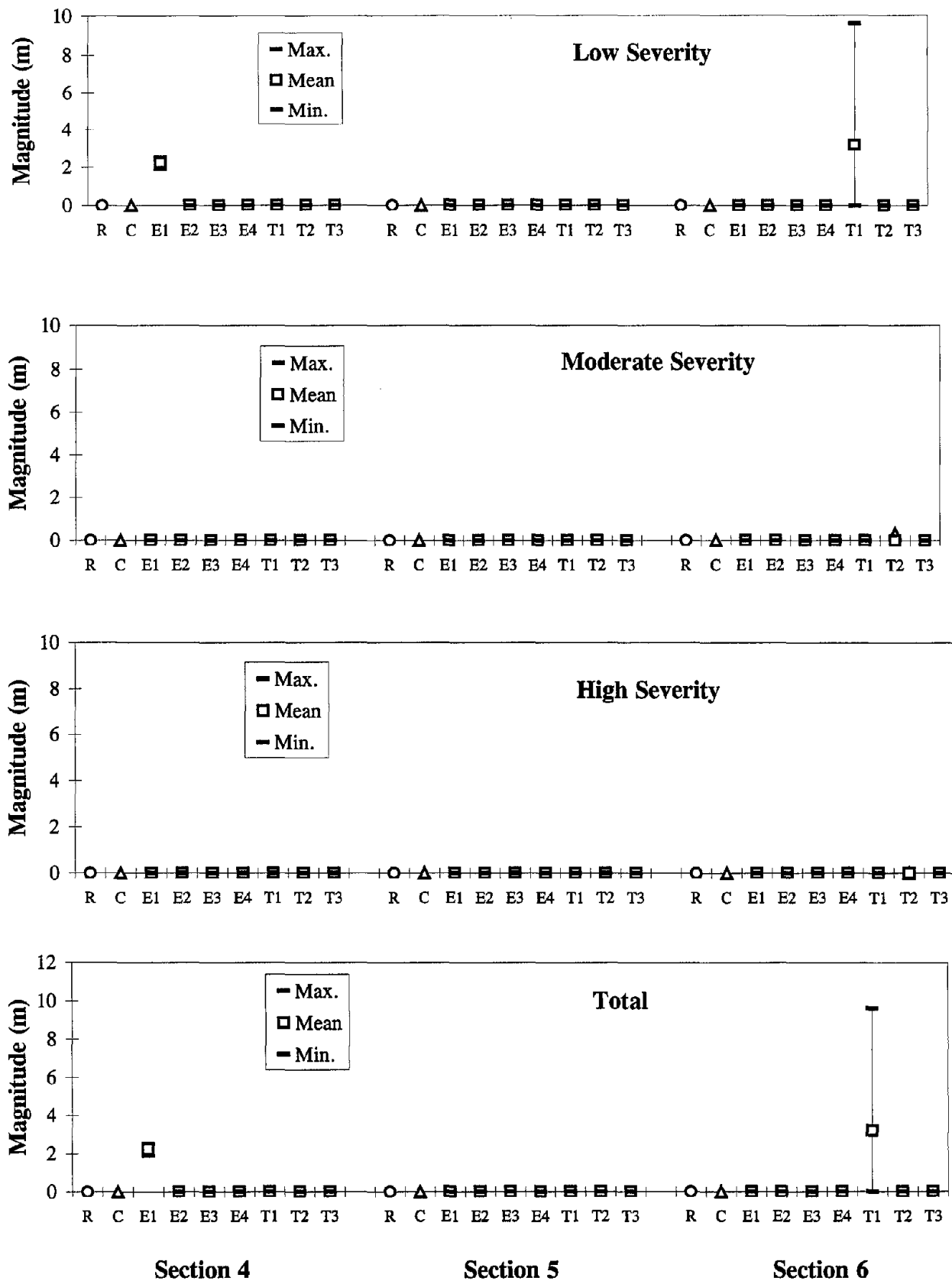


Figure 124. Transverse Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

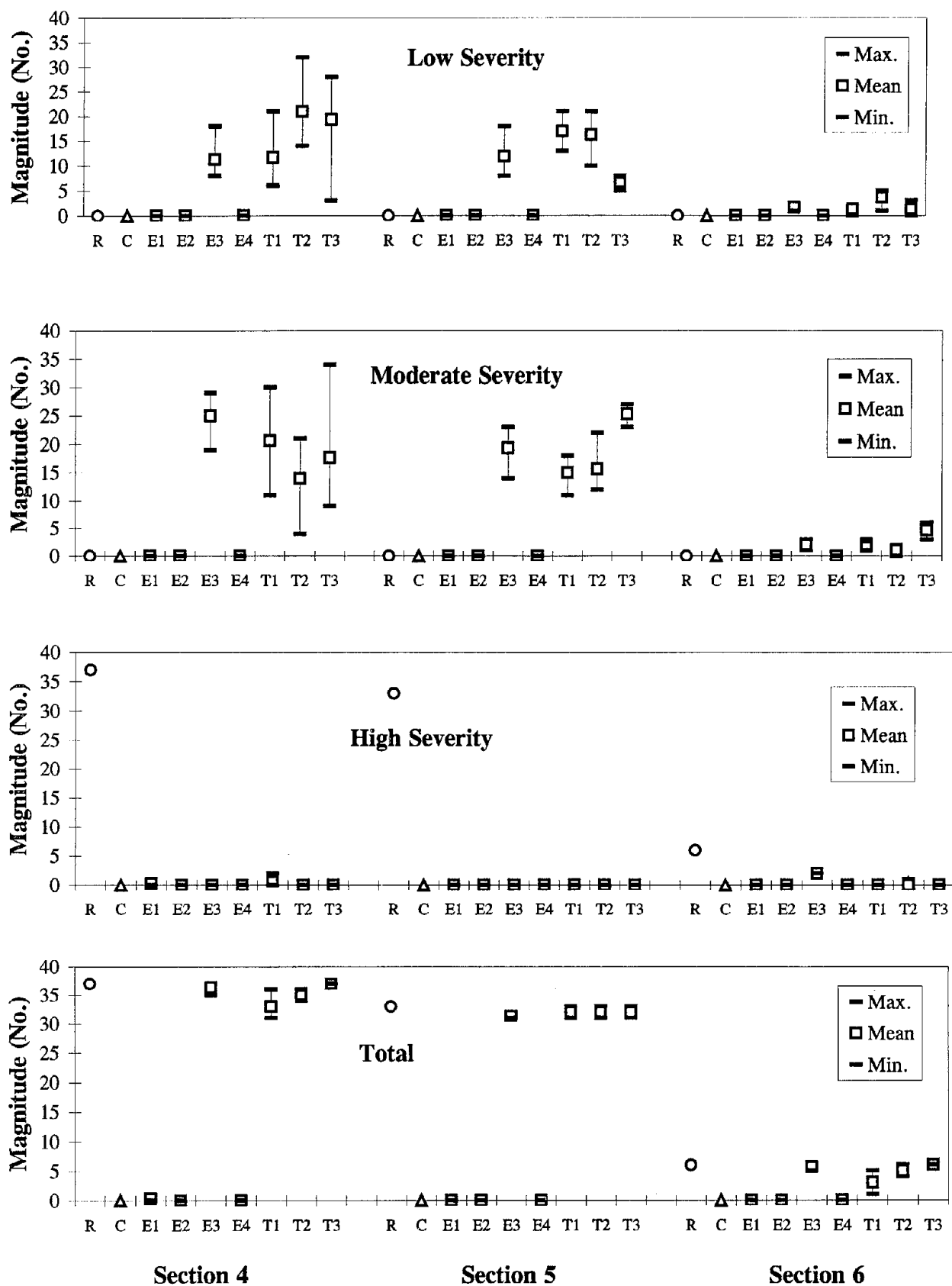


Figure 125. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

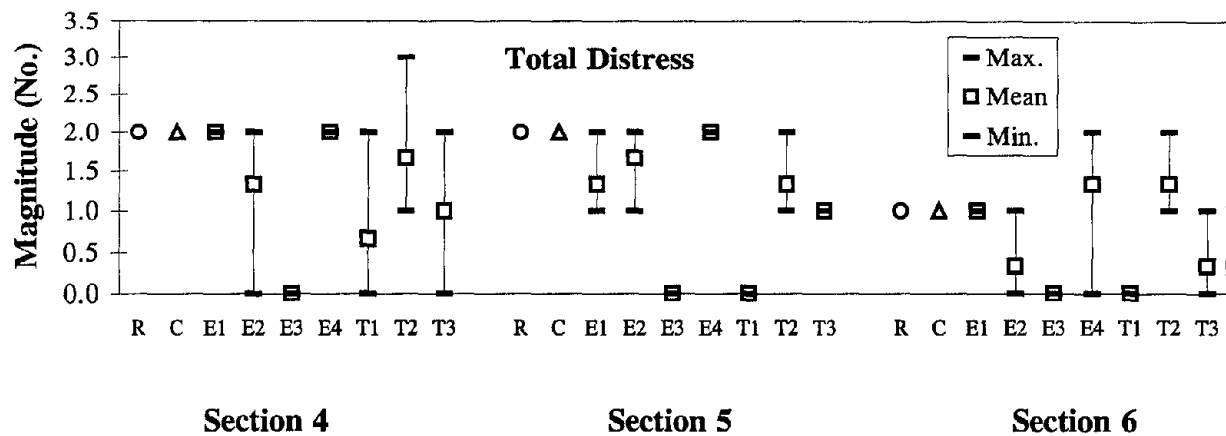


Figure 126. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

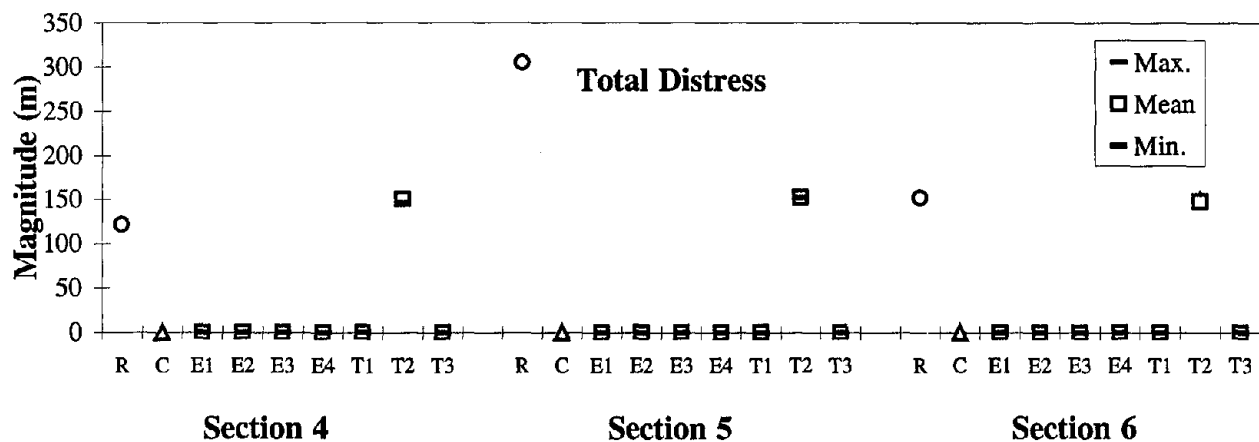


Figure 127. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

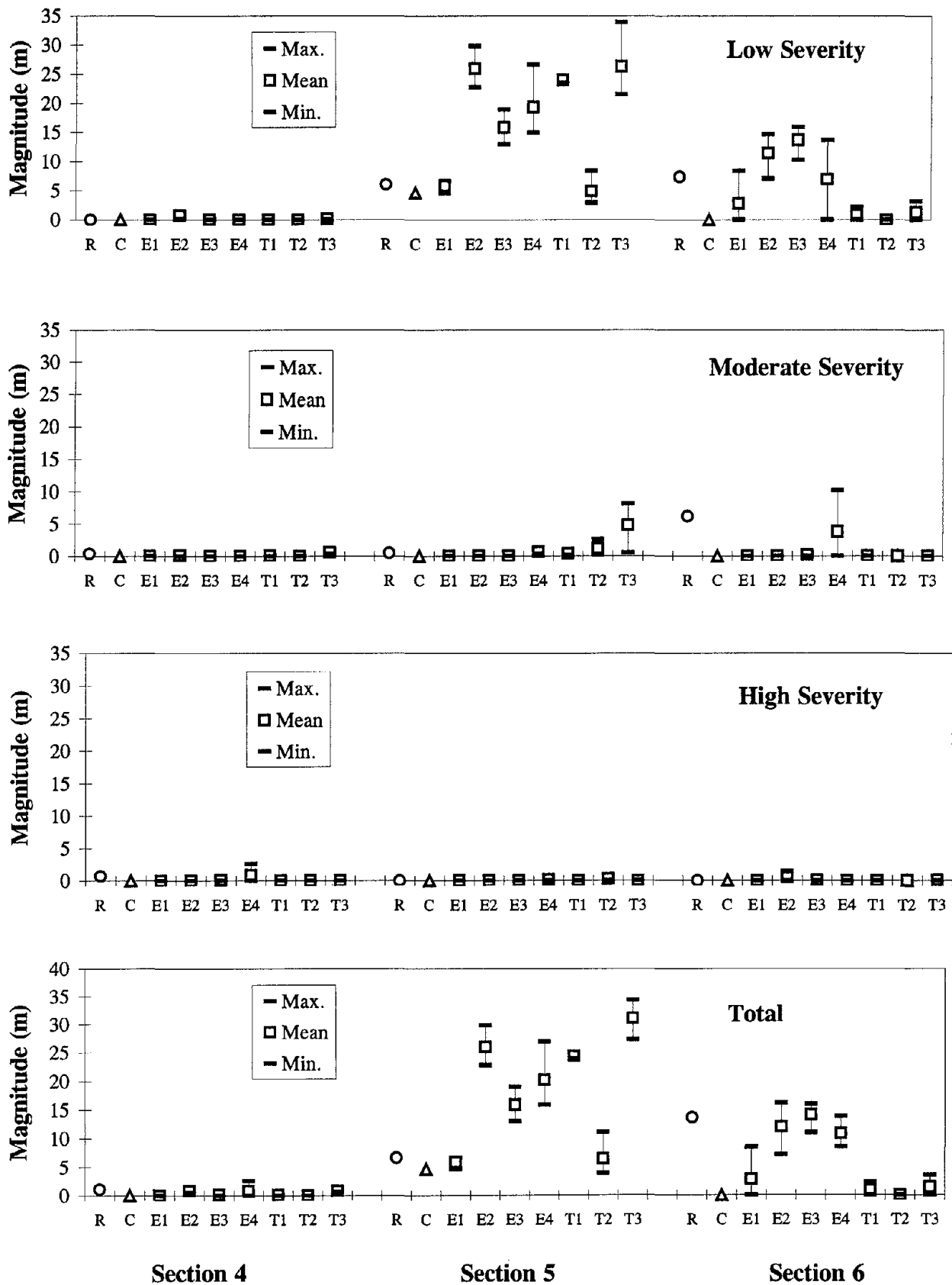


Figure 128. Spalling of Longitudinal Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

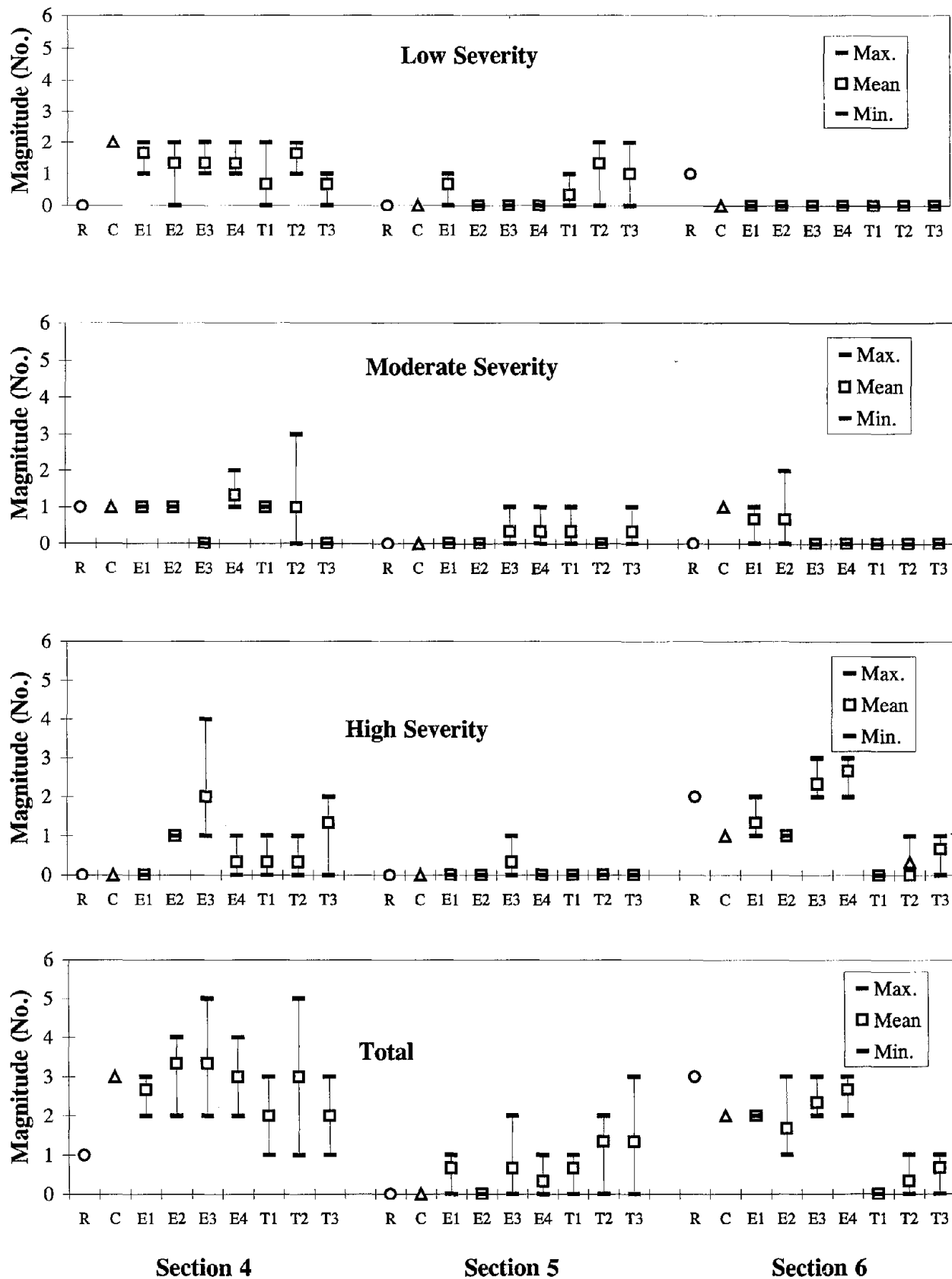


Figure 129. Spalling of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

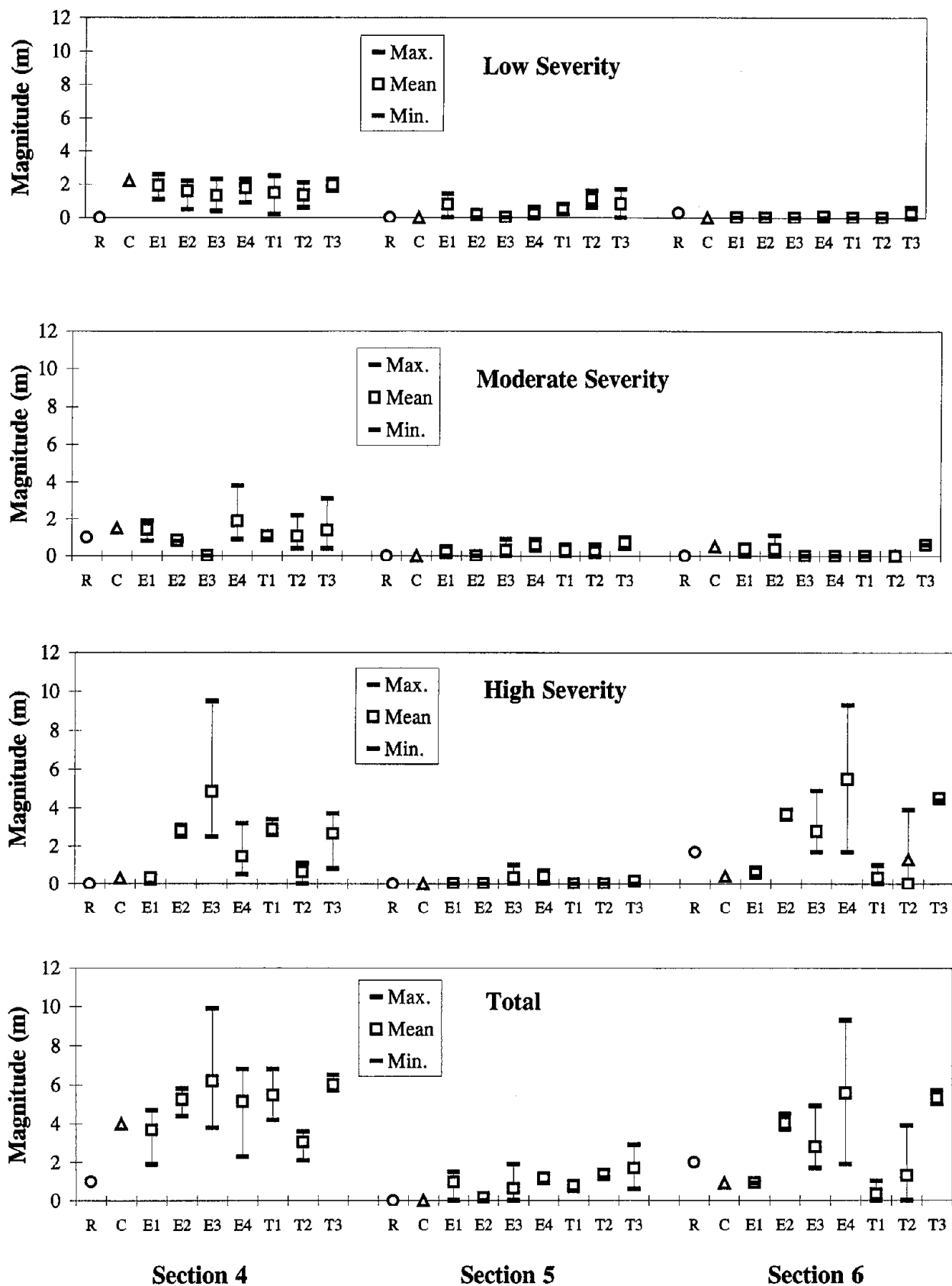


Figure 130. Spalling of Transverse Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

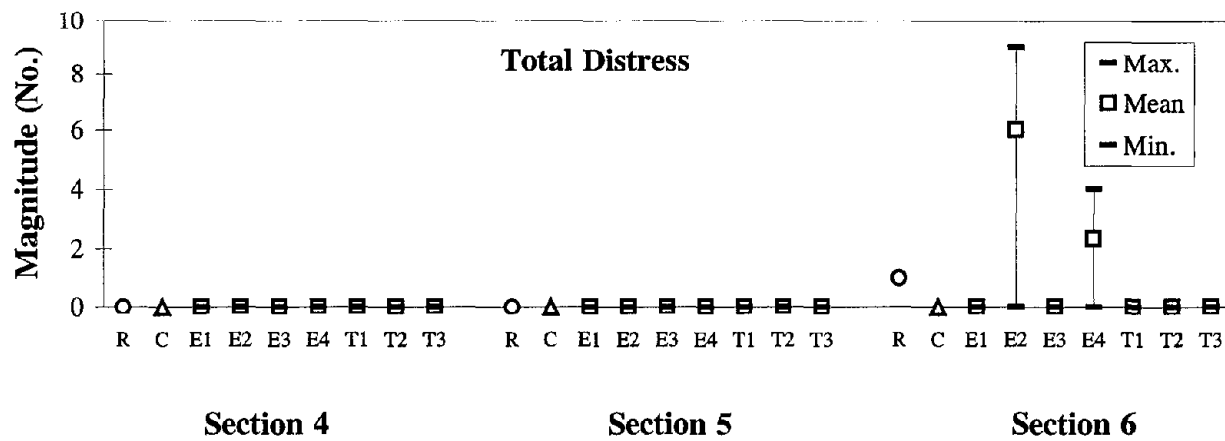


Figure 131. Map Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

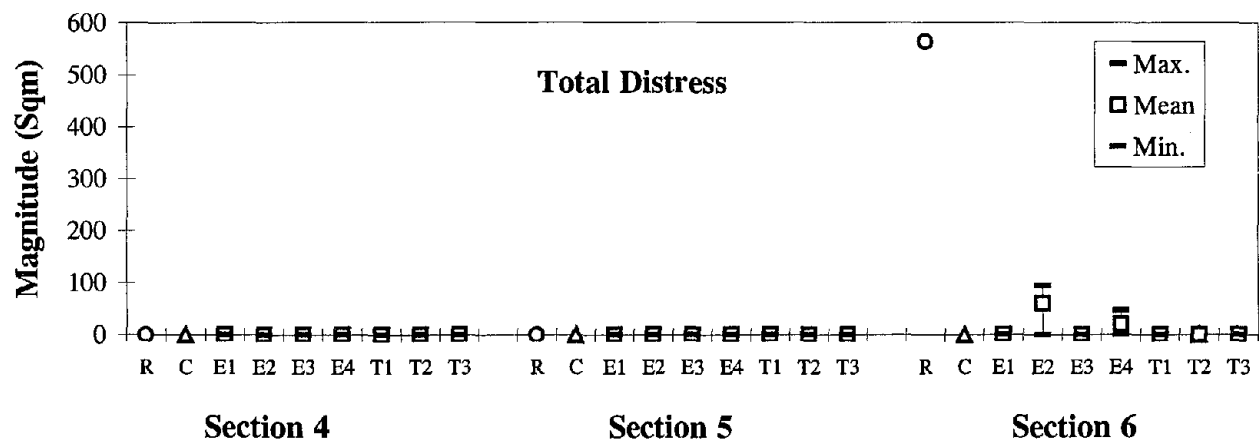


Figure 132. Map Cracking (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

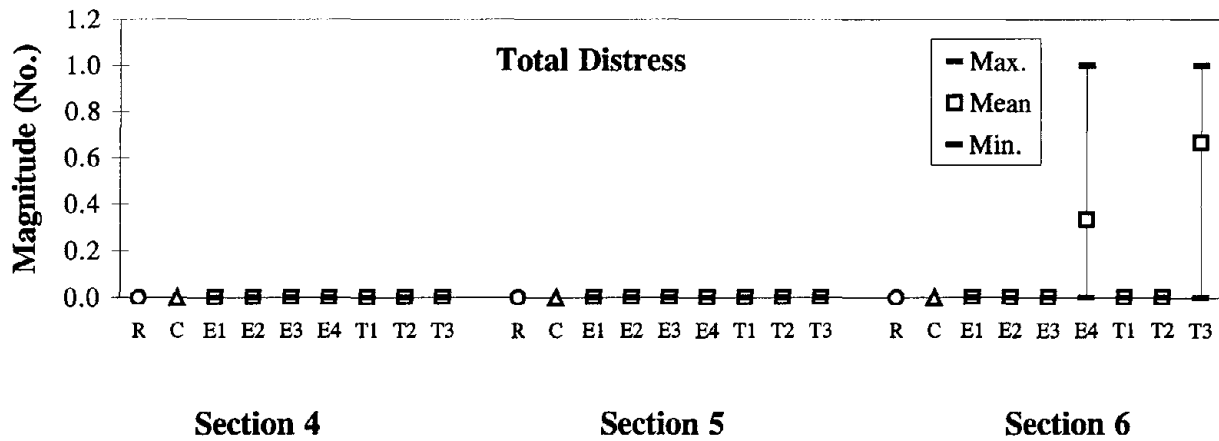


Figure 133. Scaling (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

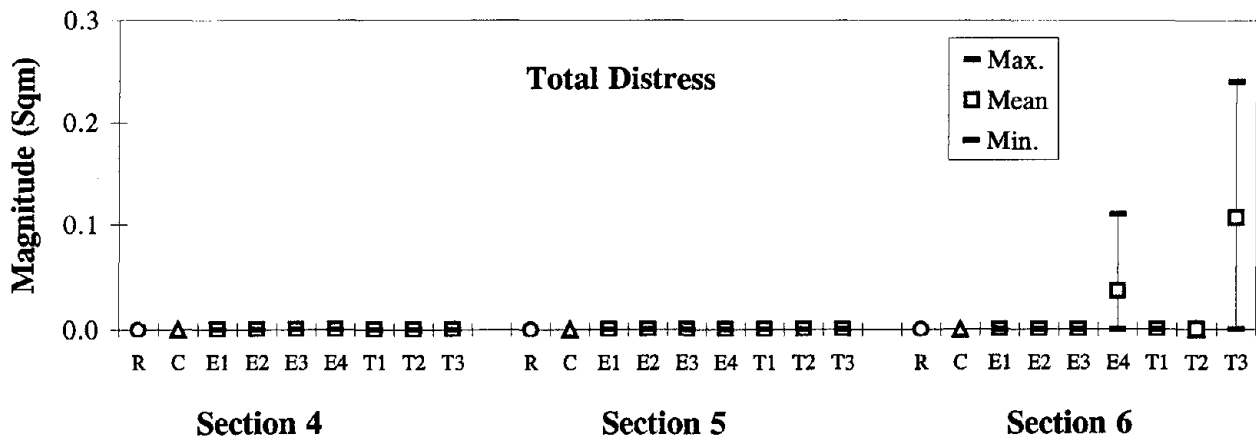


Figure 134. Scaling (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

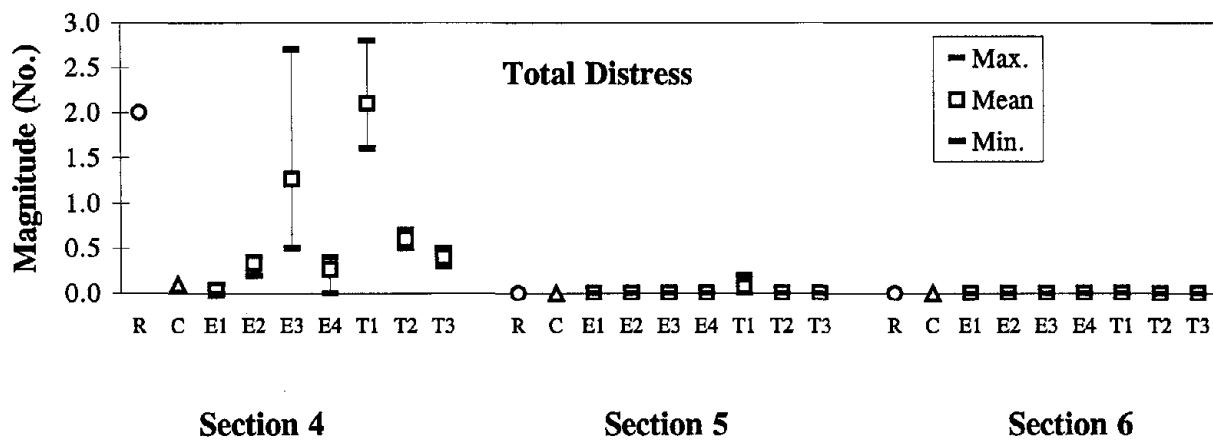


Figure 135. Popouts (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

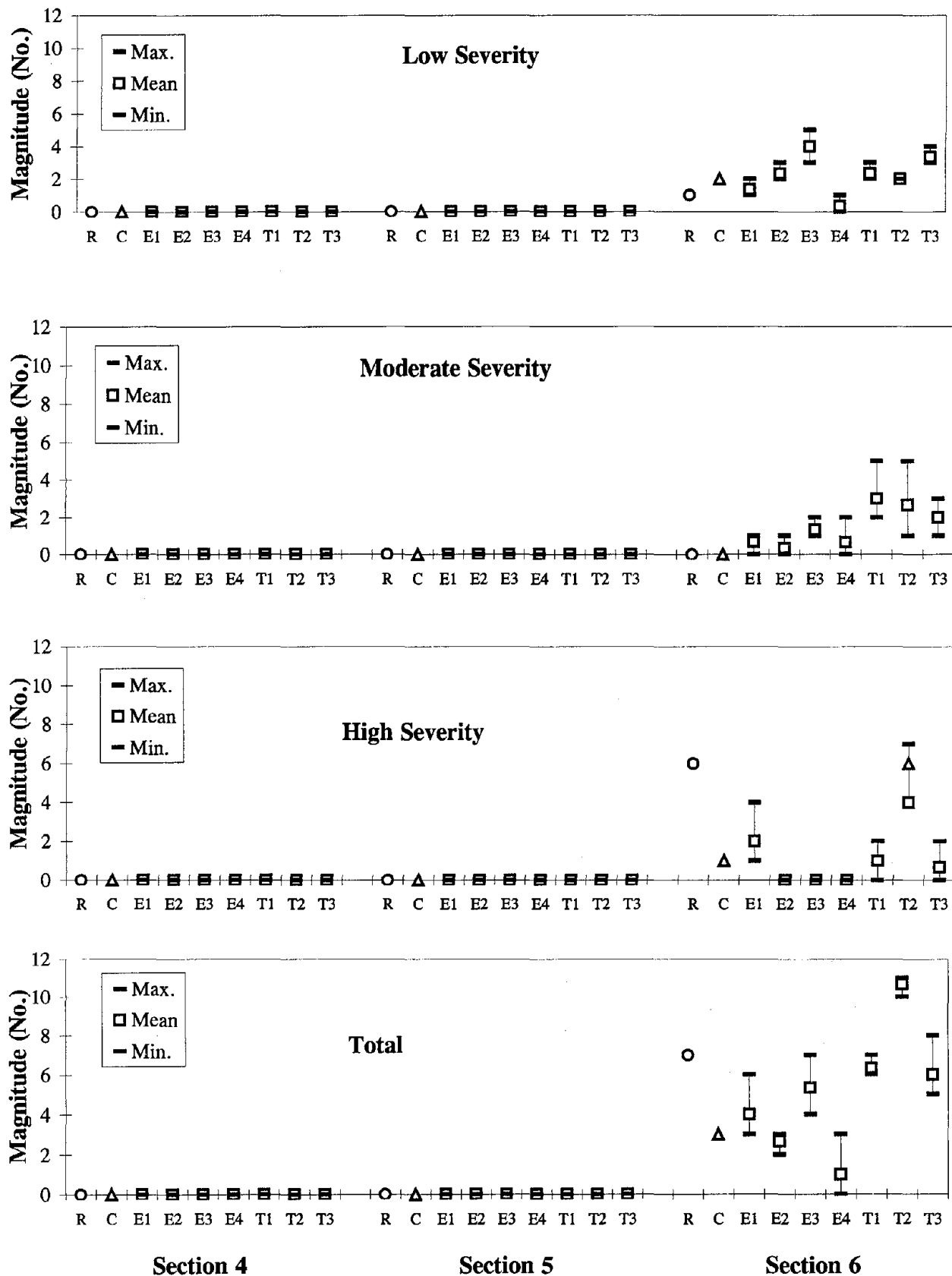


Figure 136. Patch/Patch Deterioration Flexible (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

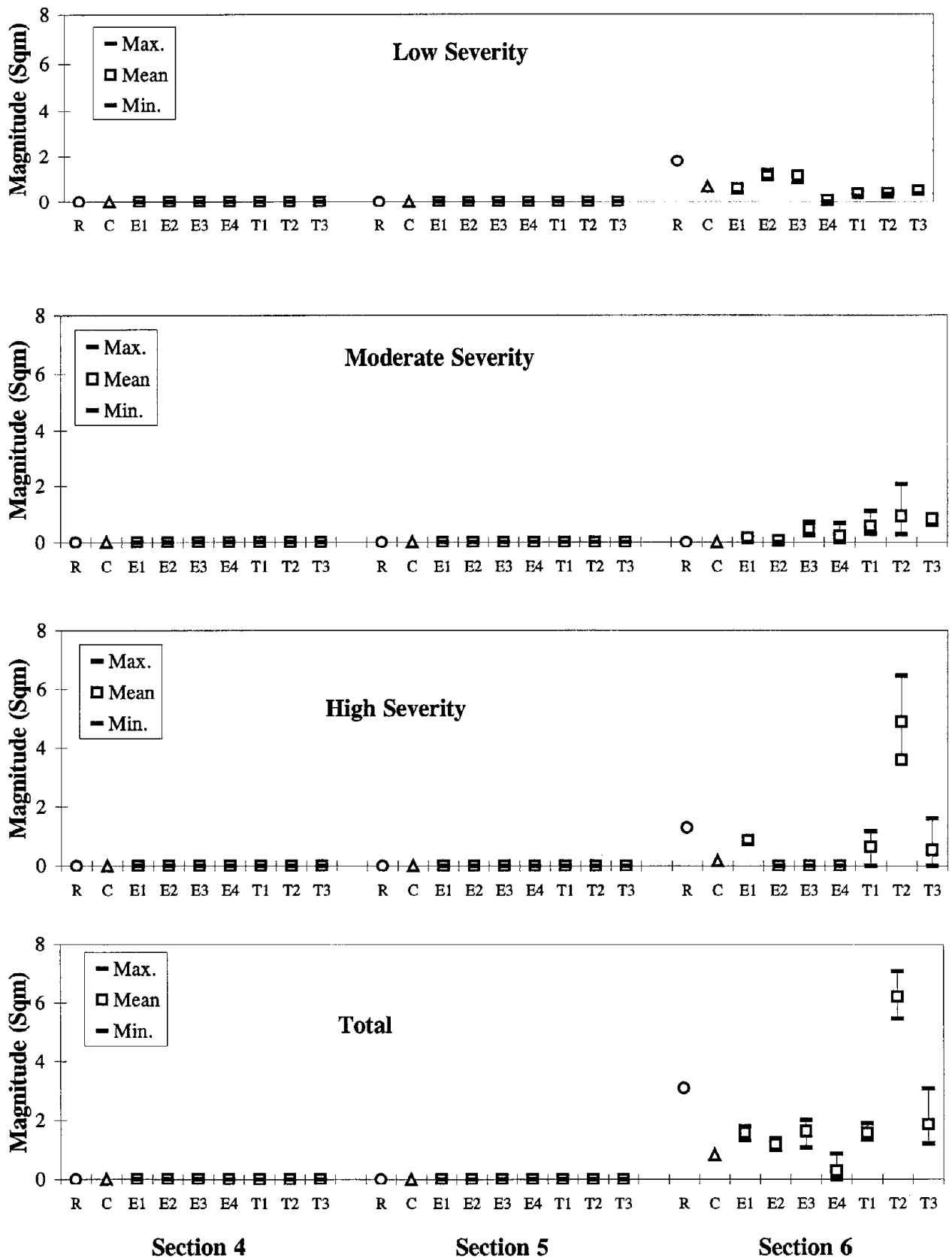


Figure 137. Patch/Patch Deterioration Flexible (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, and Minimum, Mean, and Maximum Values for Experts and Teams for Three Repetitions.

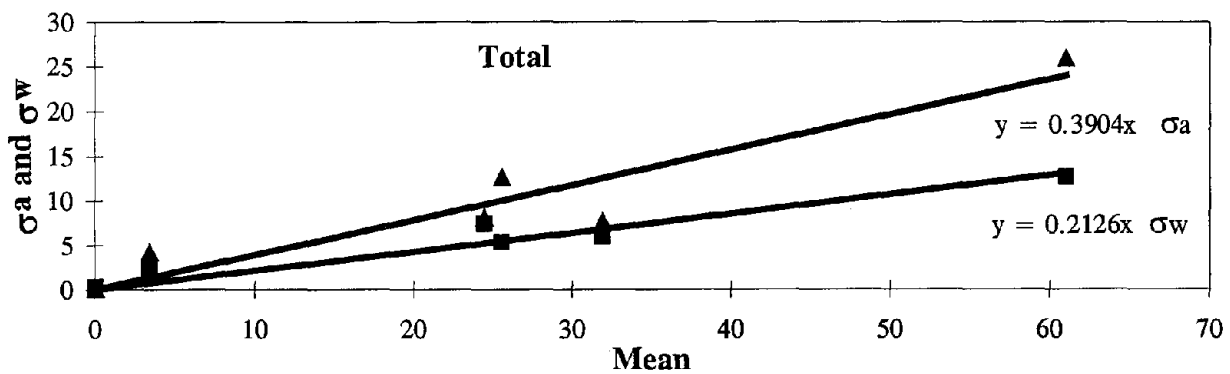
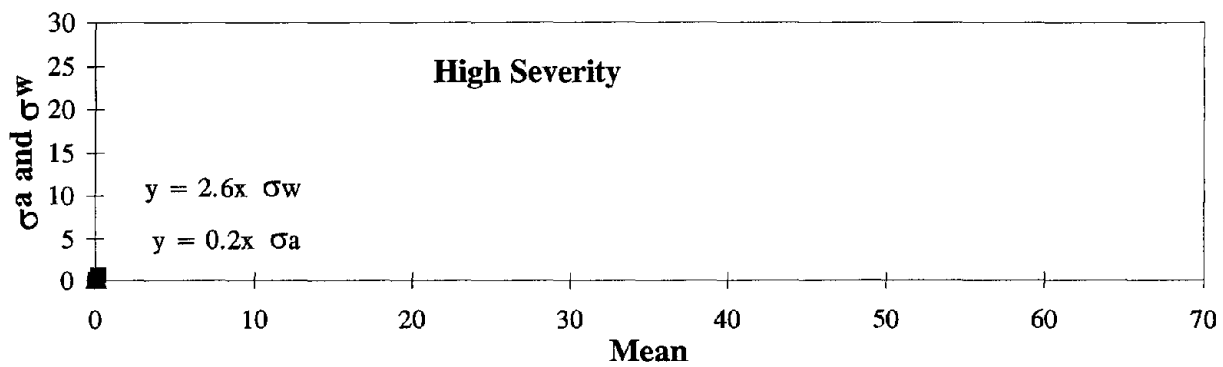
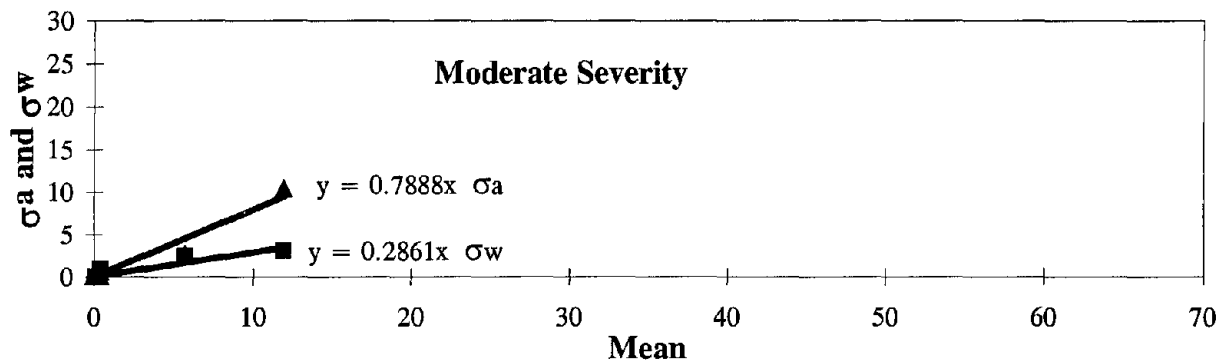
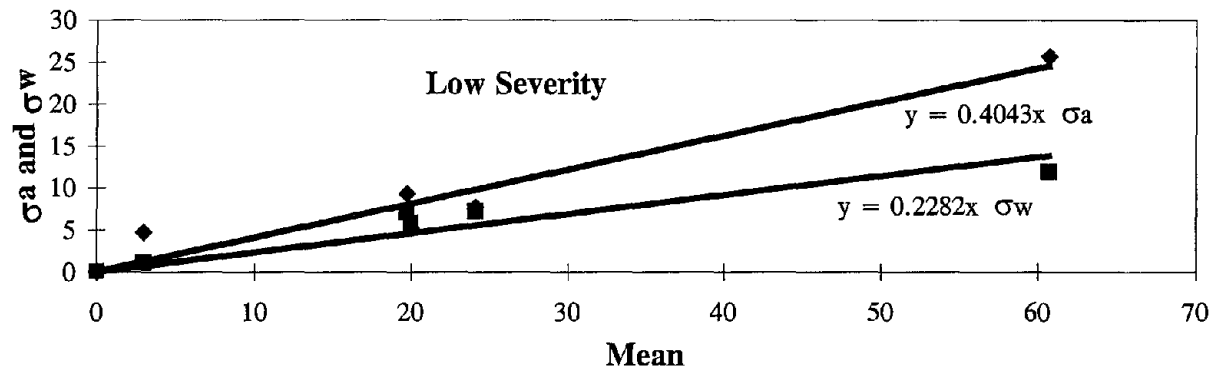


Figure 138. Fatigue Cracking (Sq. Meters) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

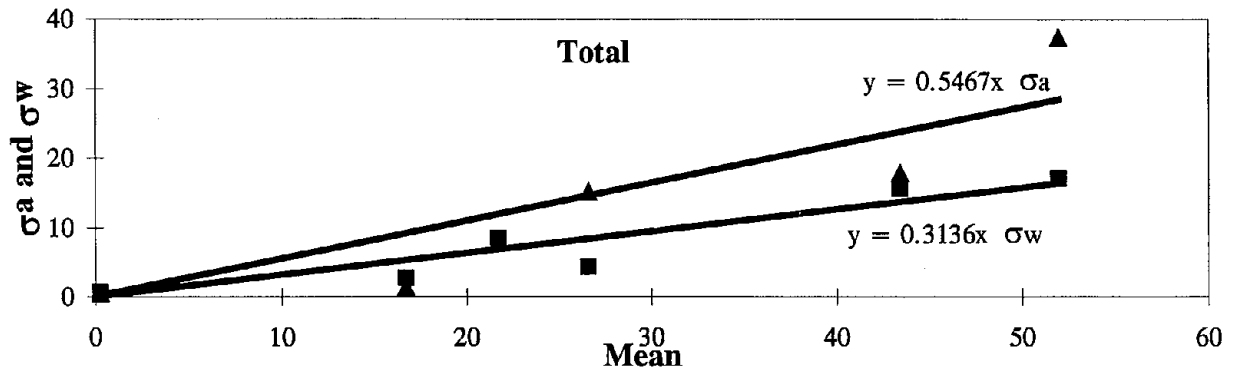
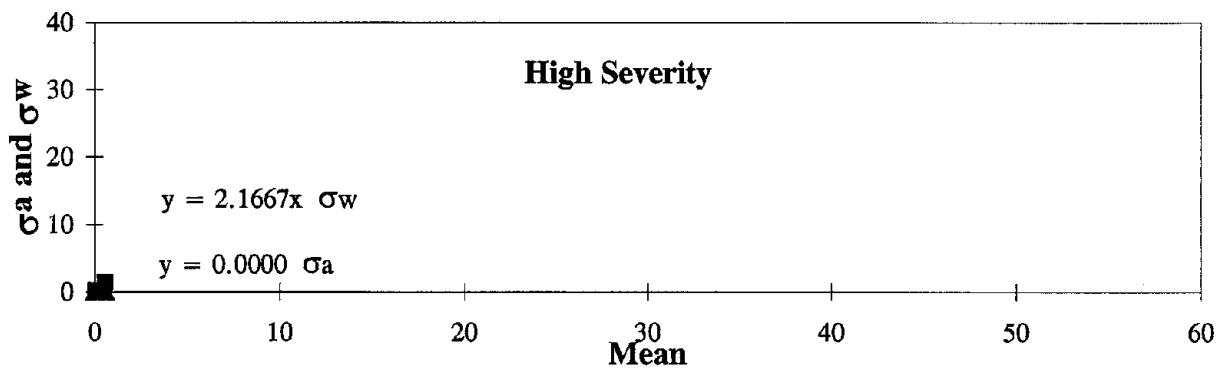
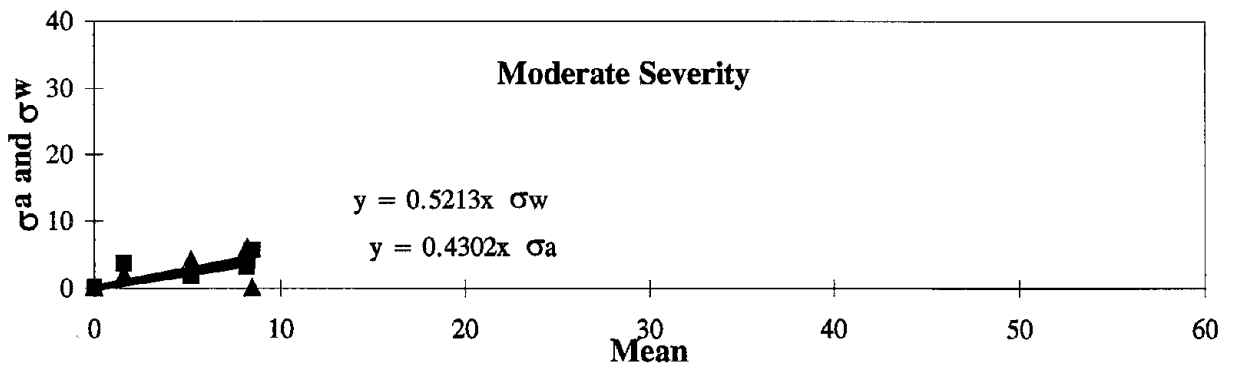
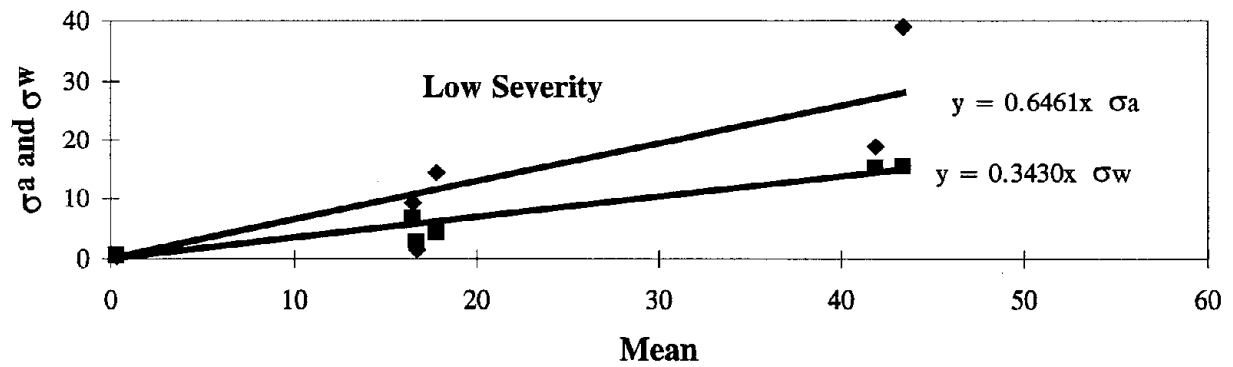


Figure 139. Longitudinal Cracking WP (Meters) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

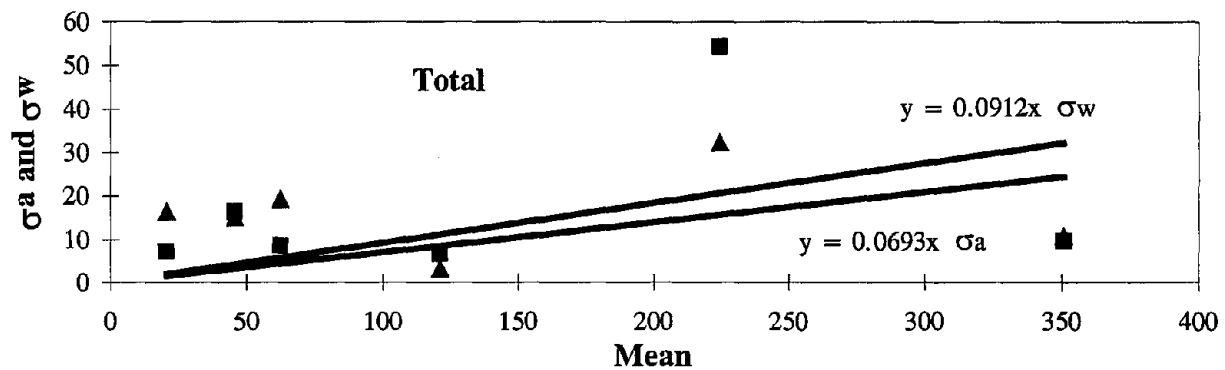
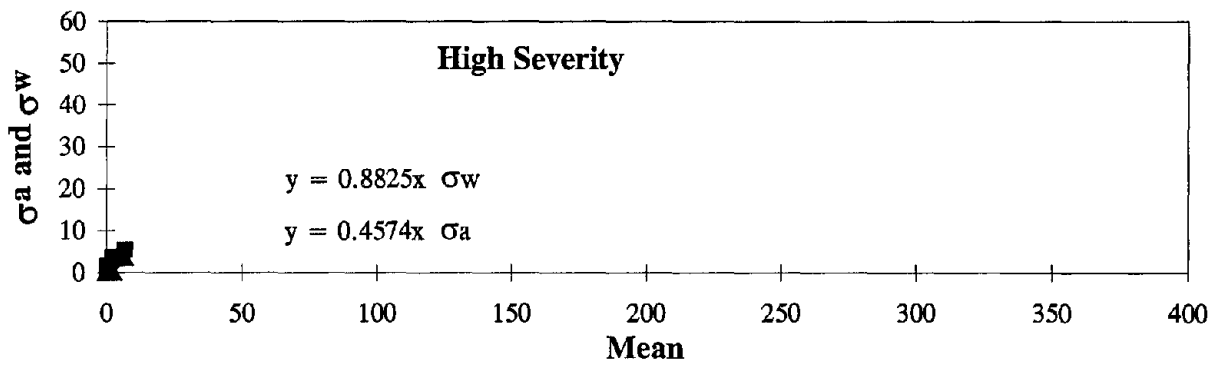
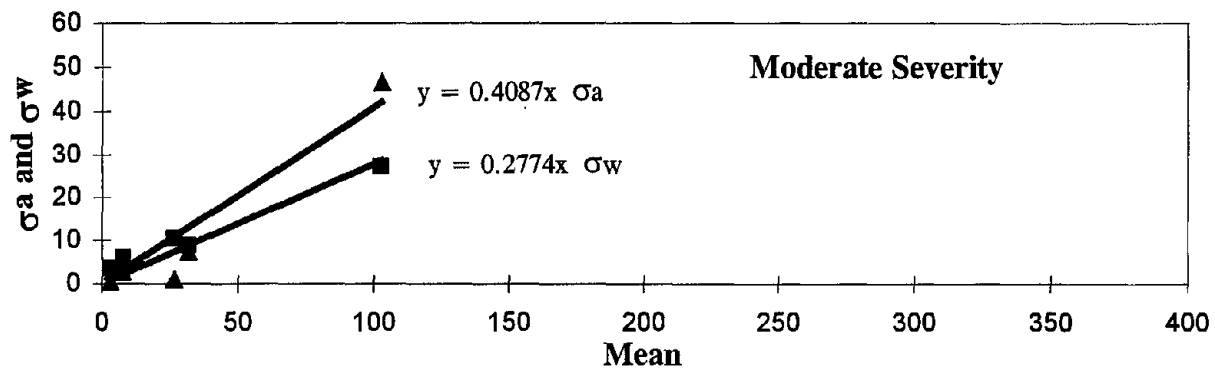
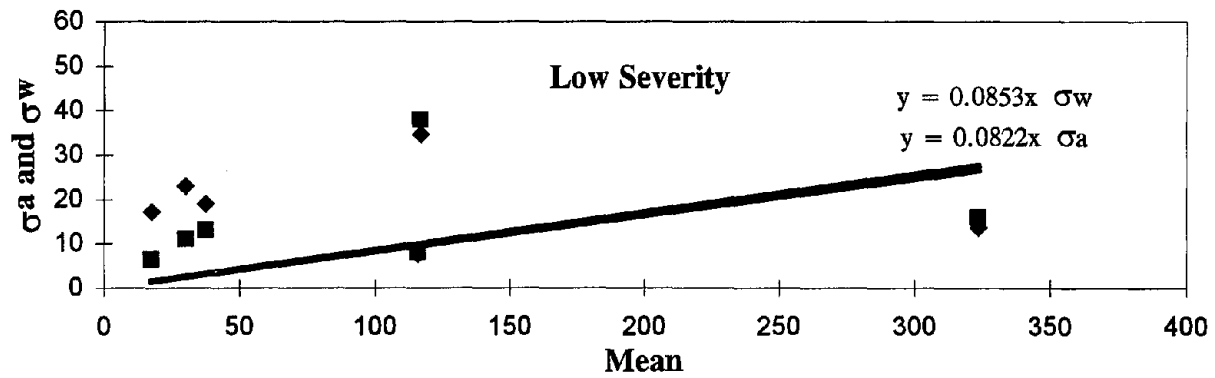


Figure 140. Longitudinal Cracking NWP (Meters) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

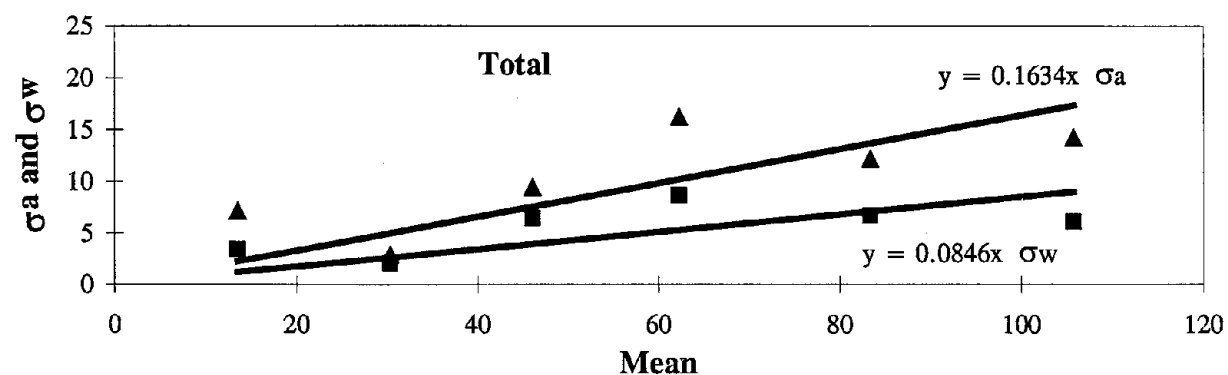
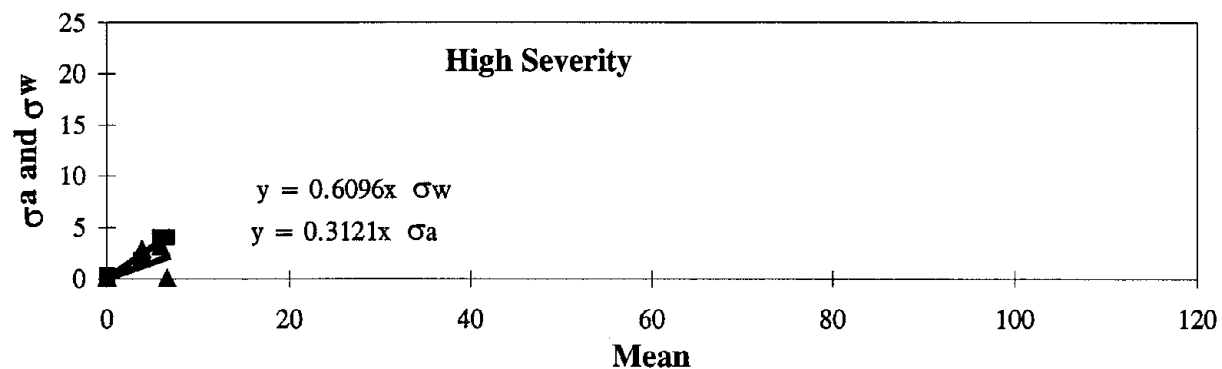
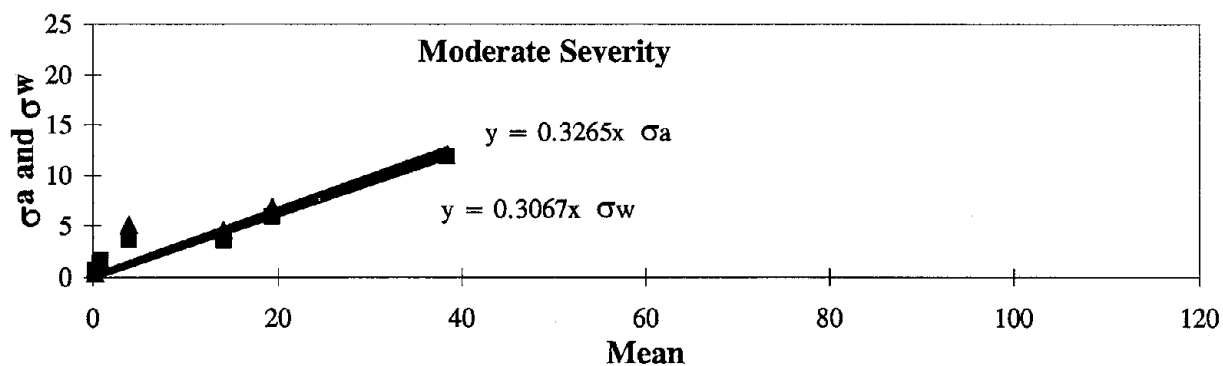
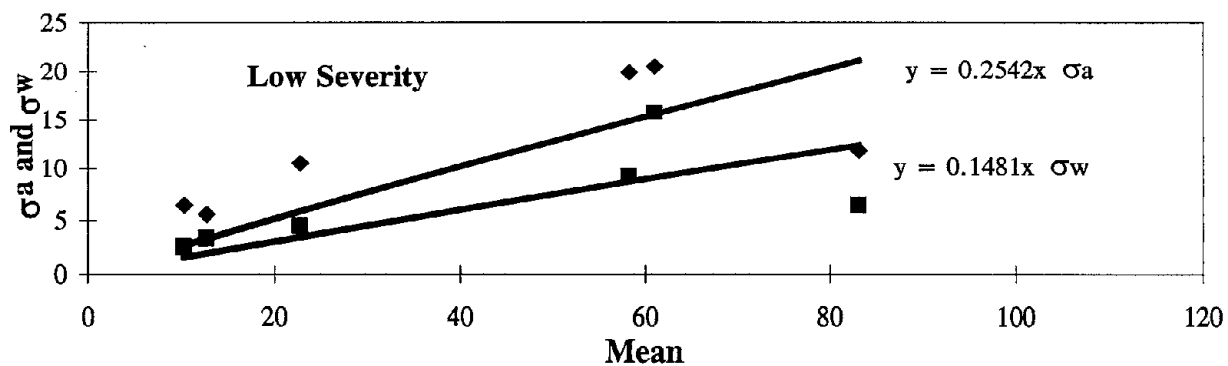


Figure 141. Transverse Cracking (No.) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

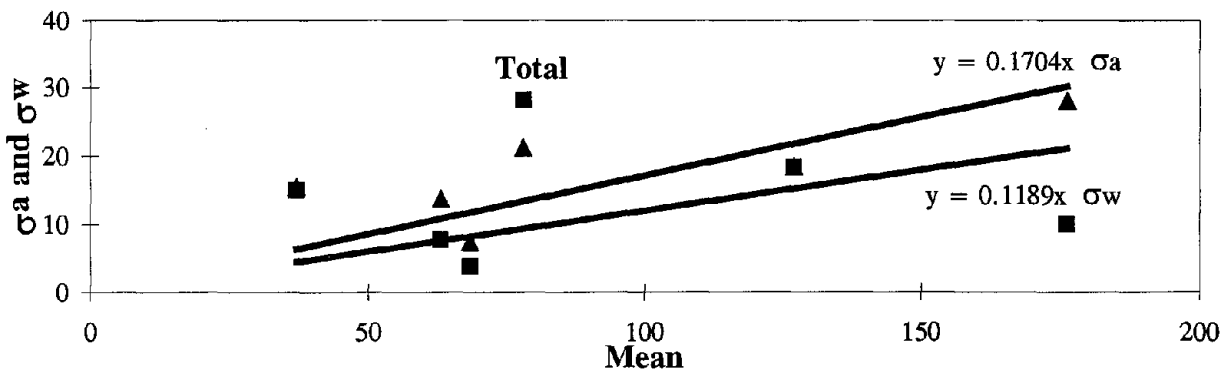
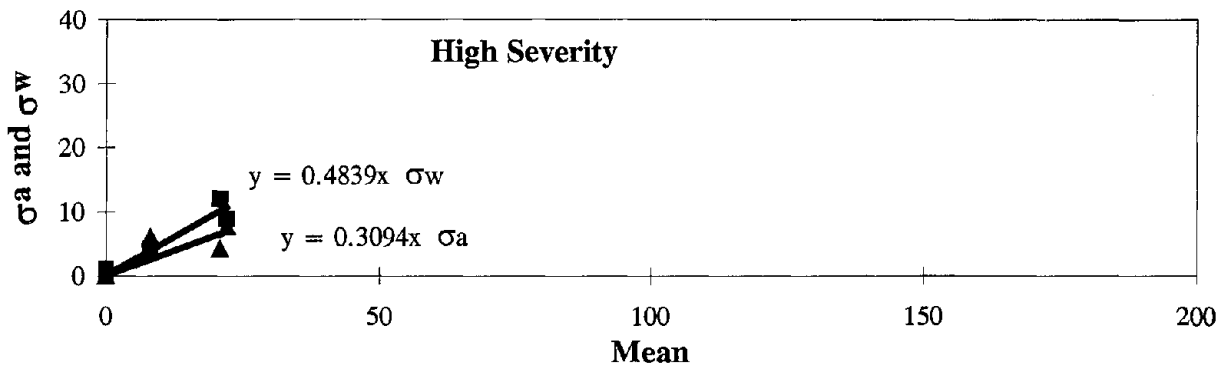
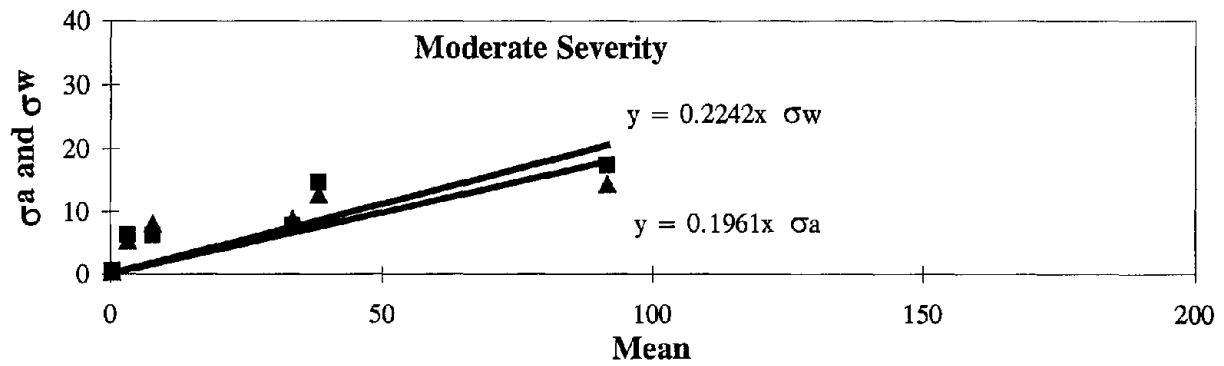
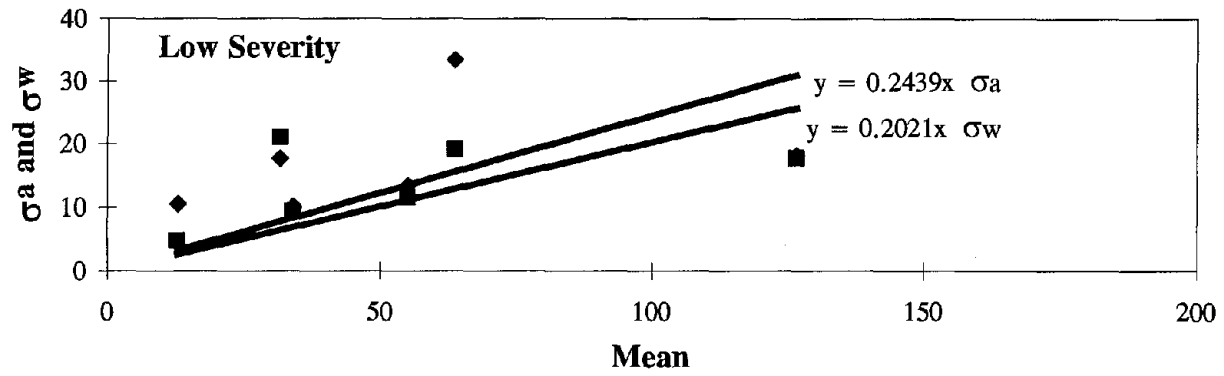


Figure 142. Transverse Cracking (Meters) - AC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

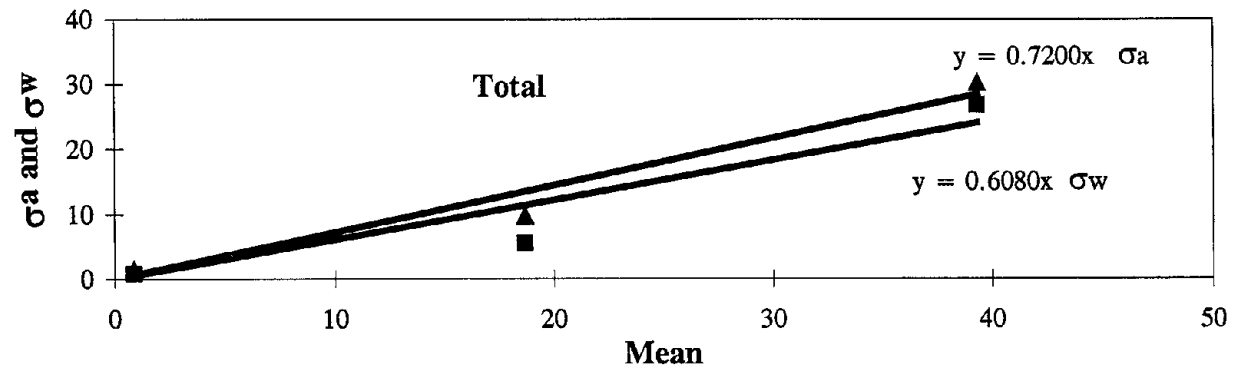
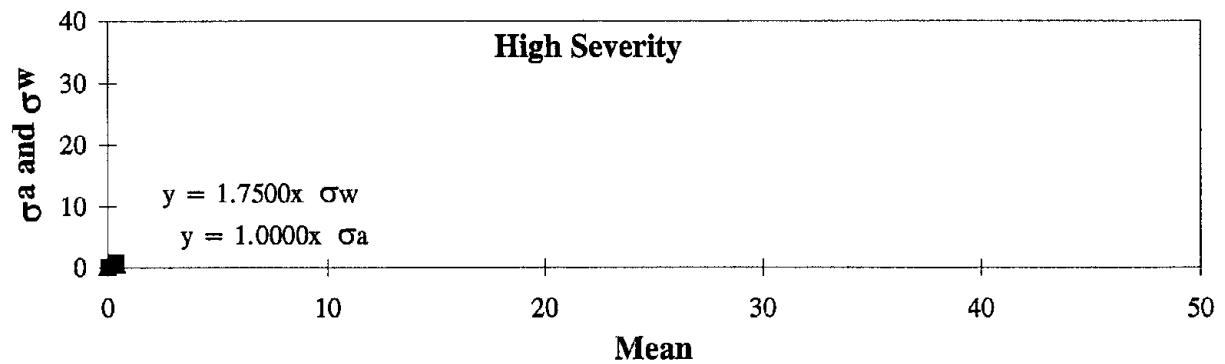
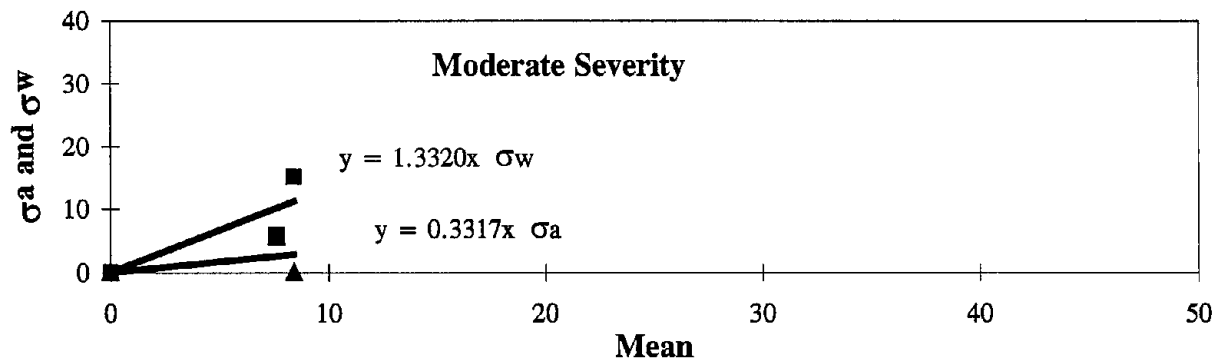
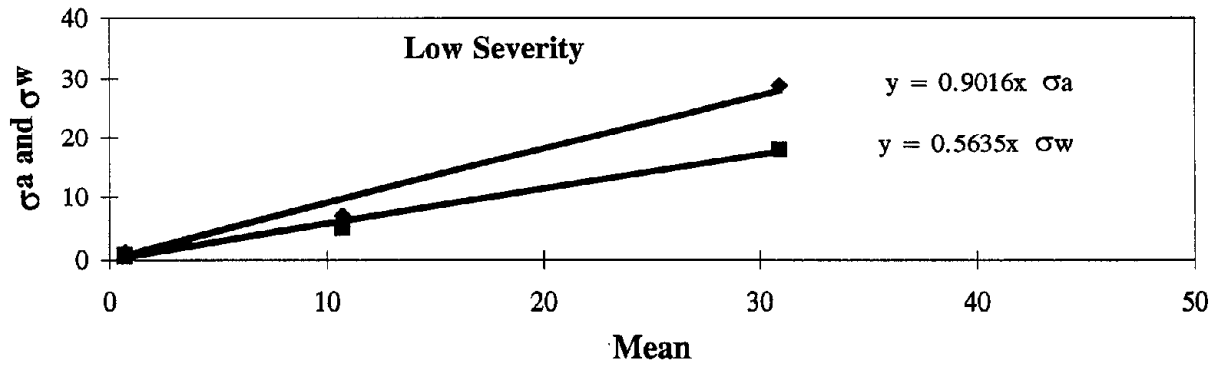


Figure 143. Fatigue Cracking (Sq. Meters) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

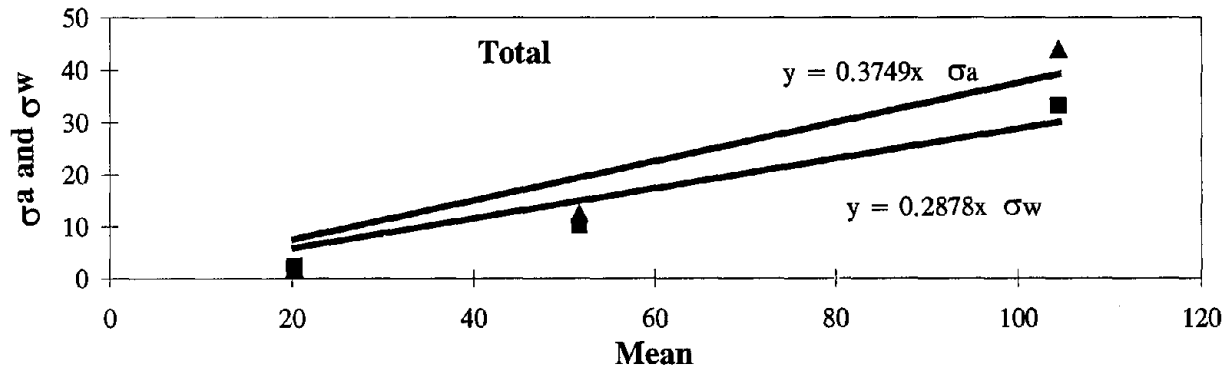
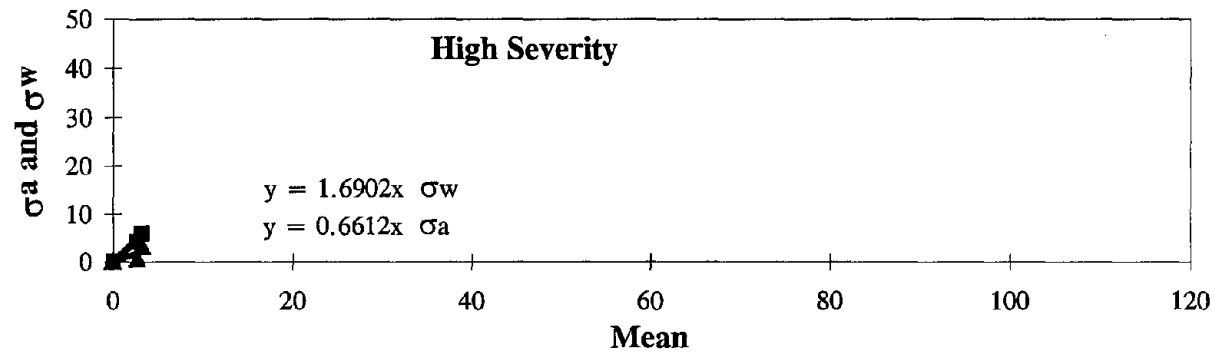
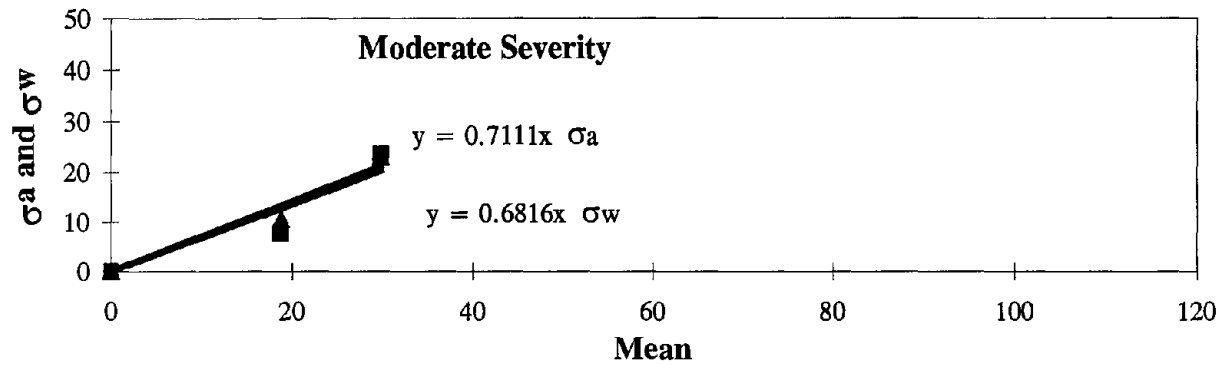
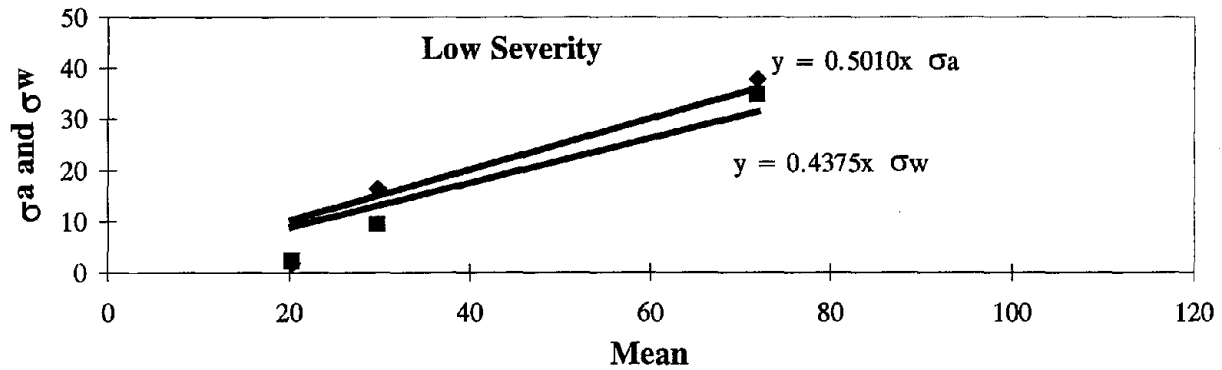


Figure 144. Longitudinal Cracking WP (Meters) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

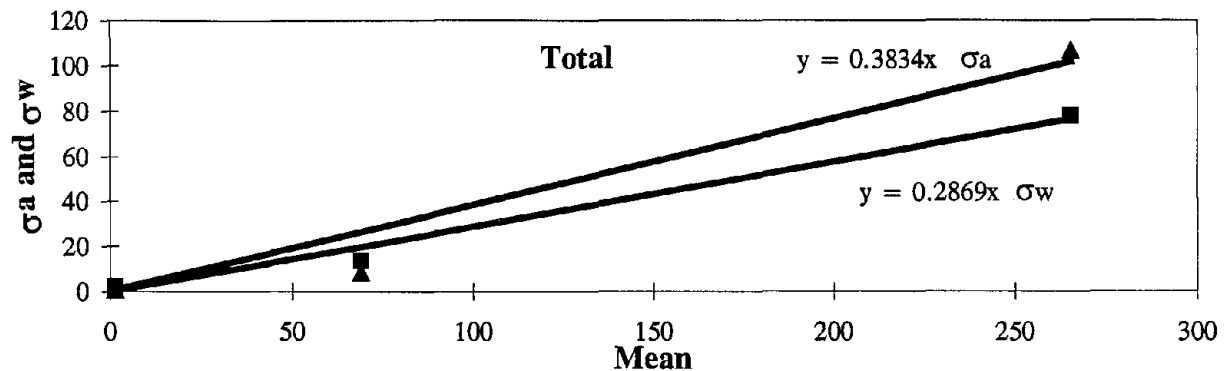
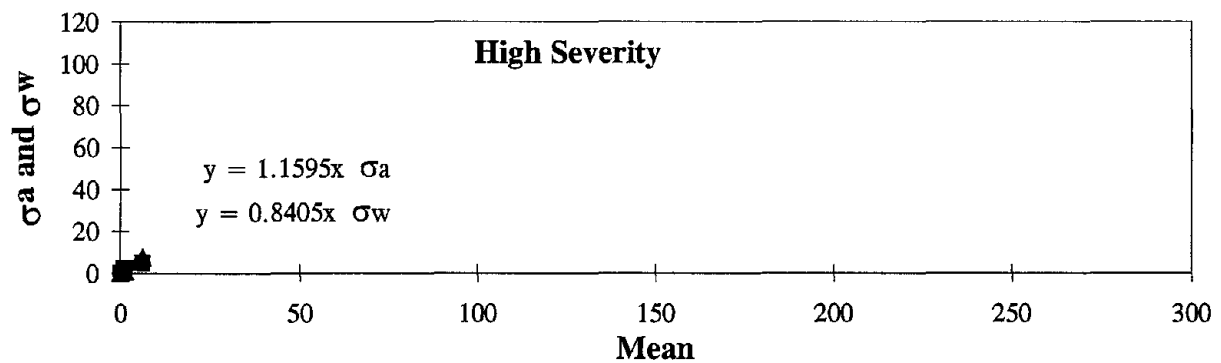
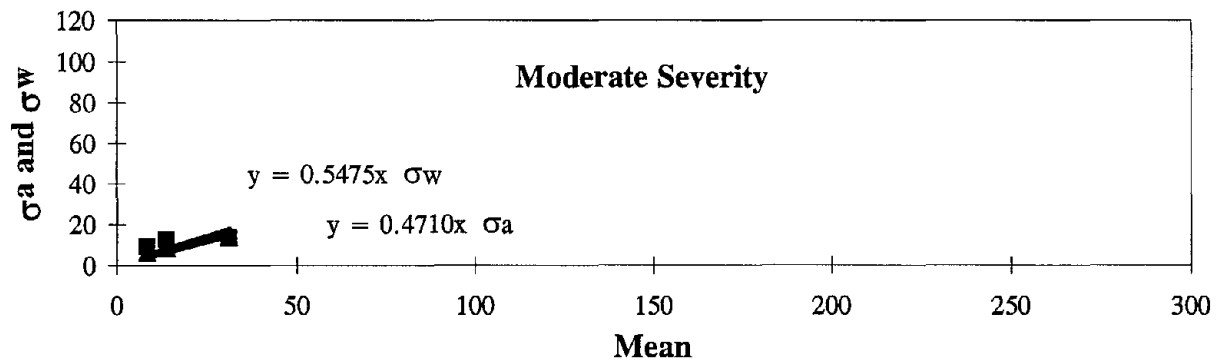
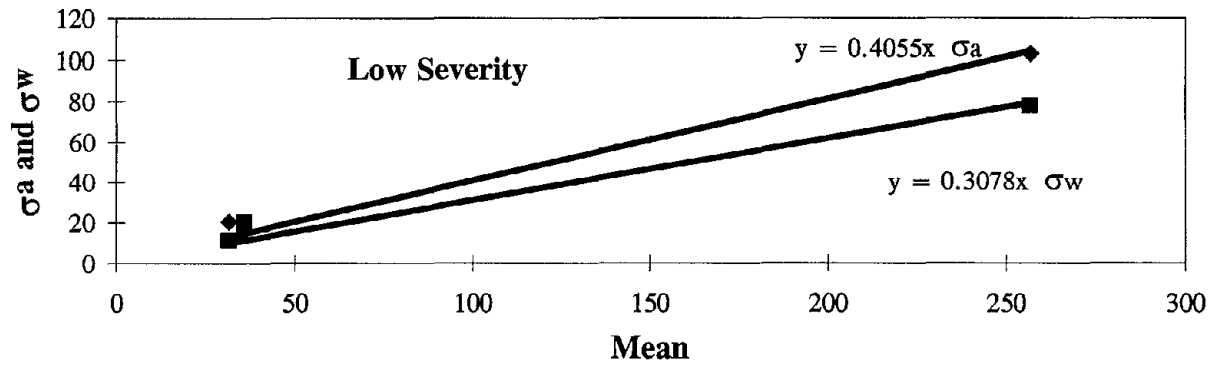


Figure 145. Longitudinal Cracking NWP (Meters) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

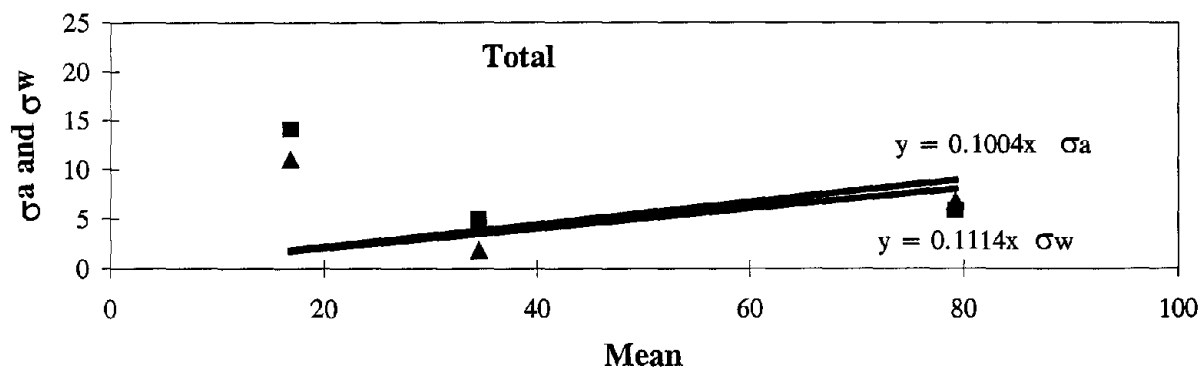
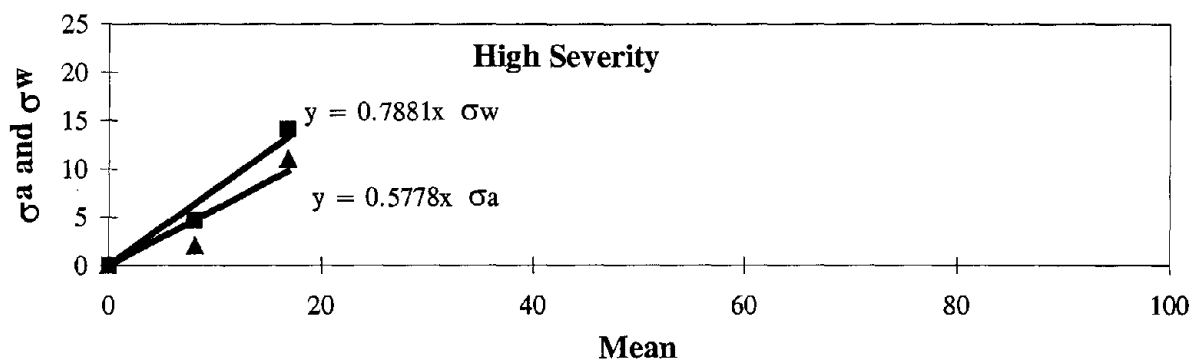
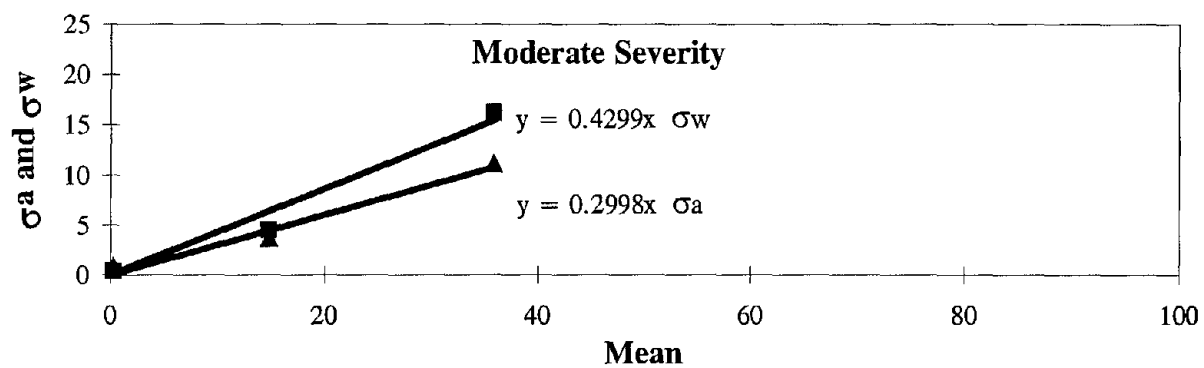
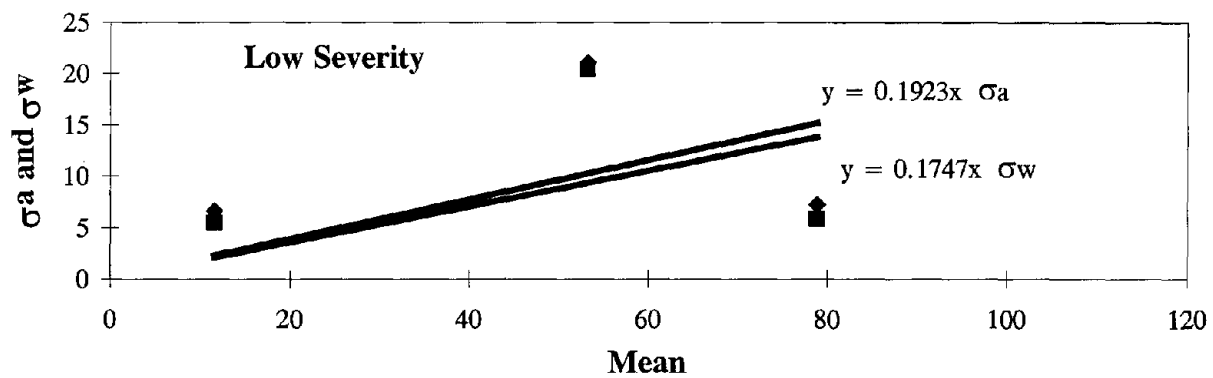


Figure 146. Transverse Cracking (No.) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

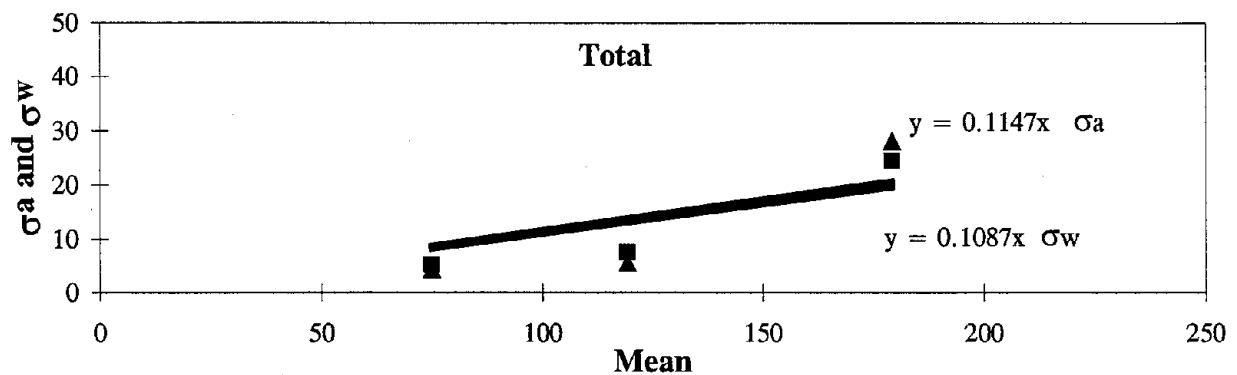
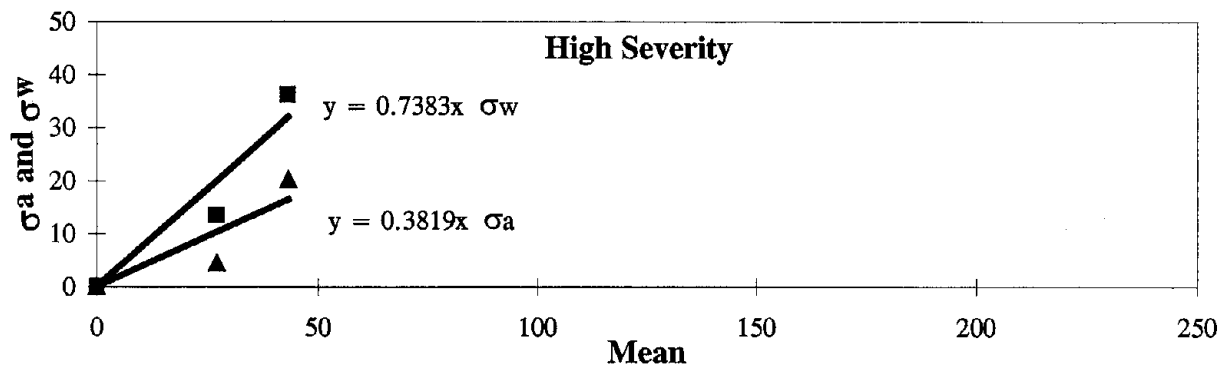
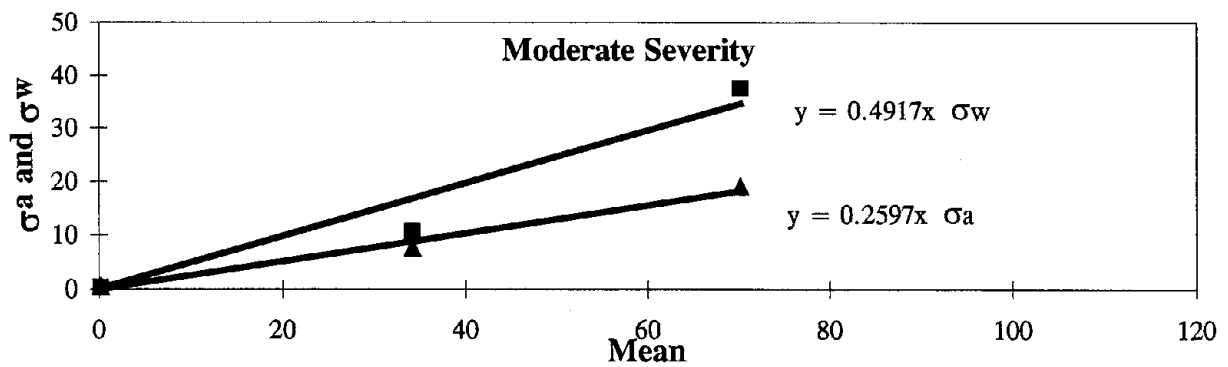
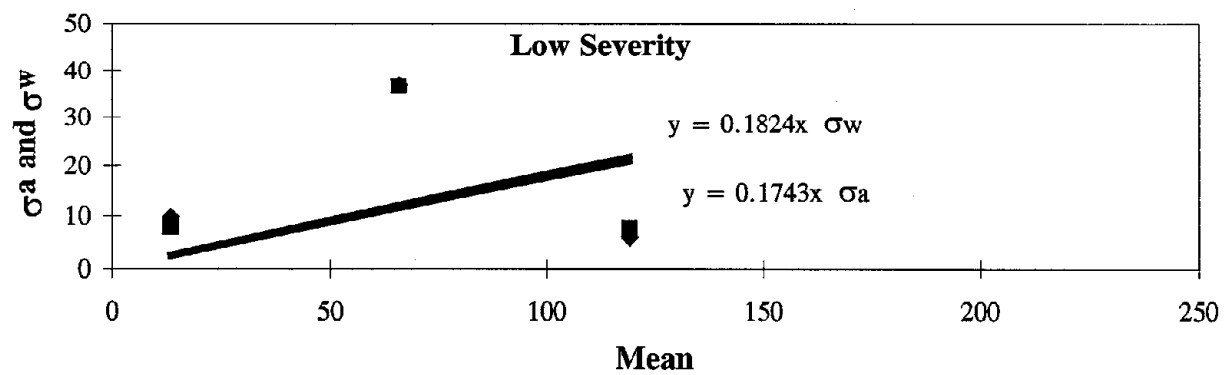


Figure 147. Transverse Cracking (Meters) - AC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

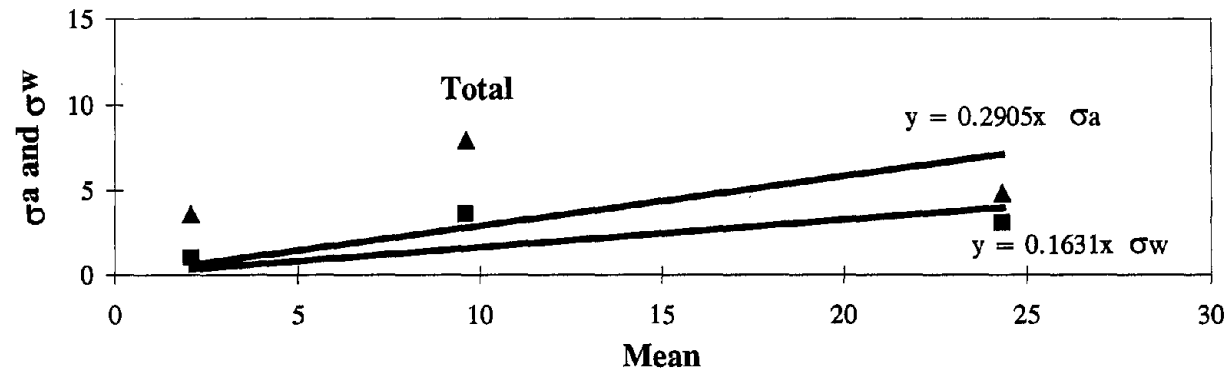
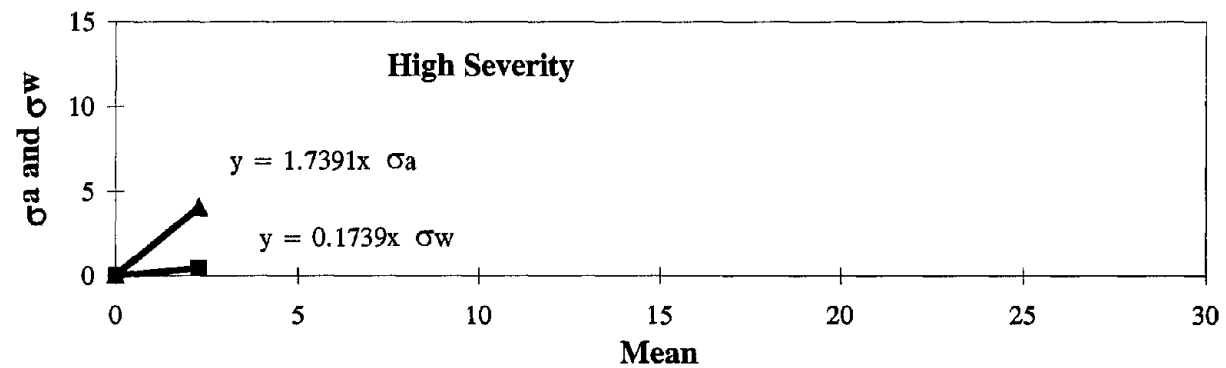
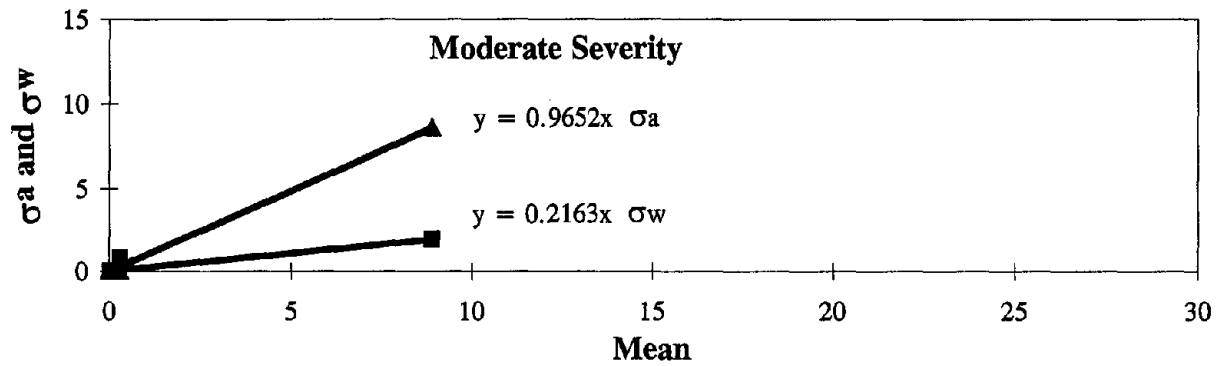
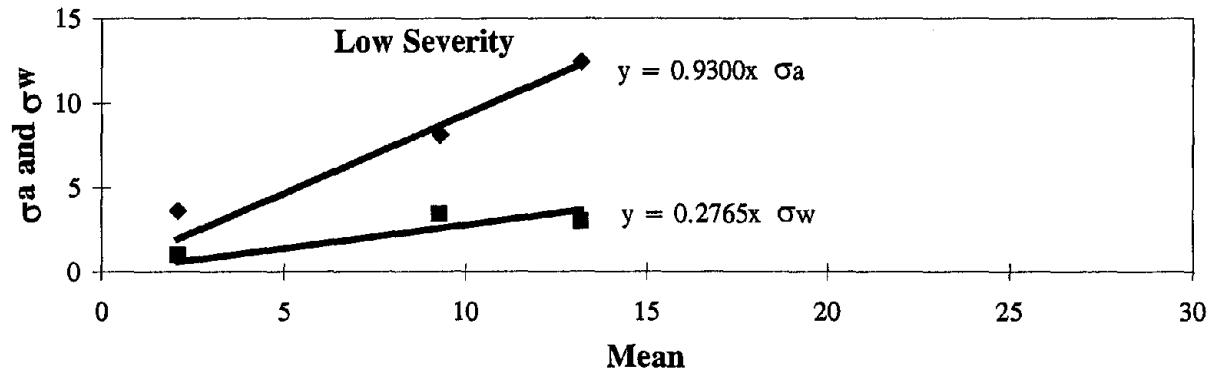


Figure 148. Fatigue Cracking (Sq. Meters) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

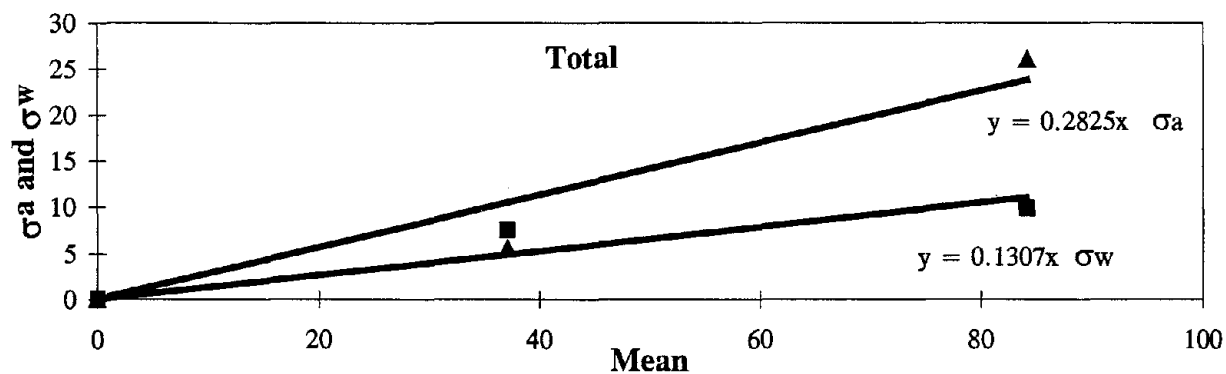
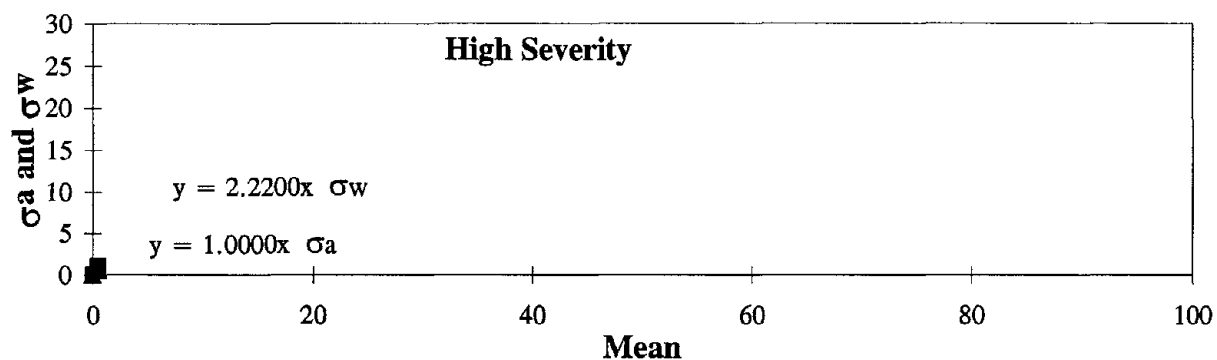
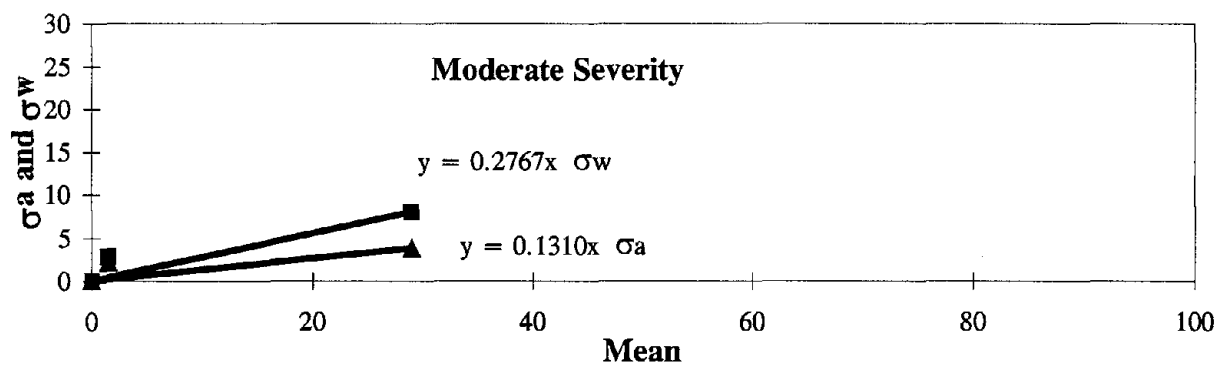
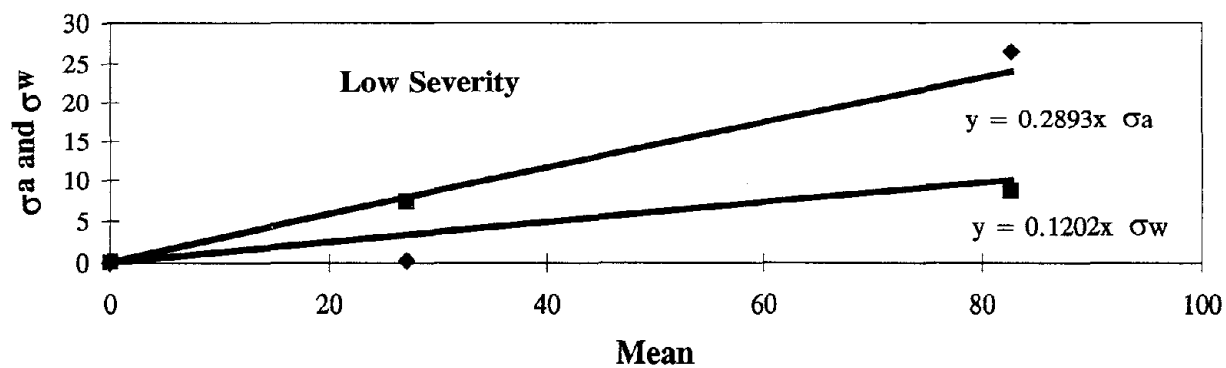


Figure 149. Longitudinal Cracking WP (Meters) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

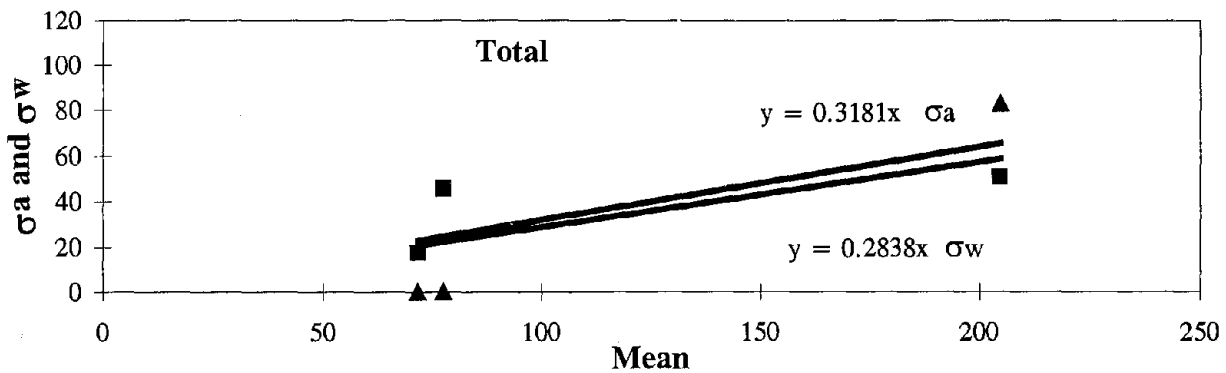
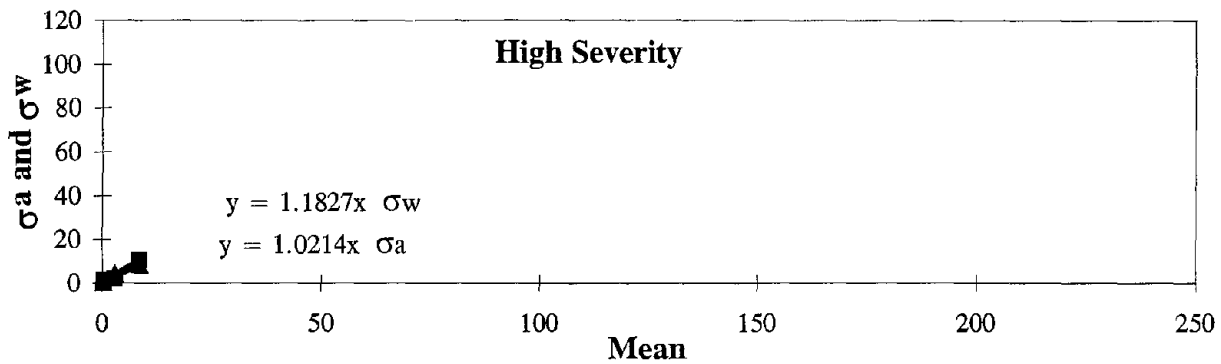
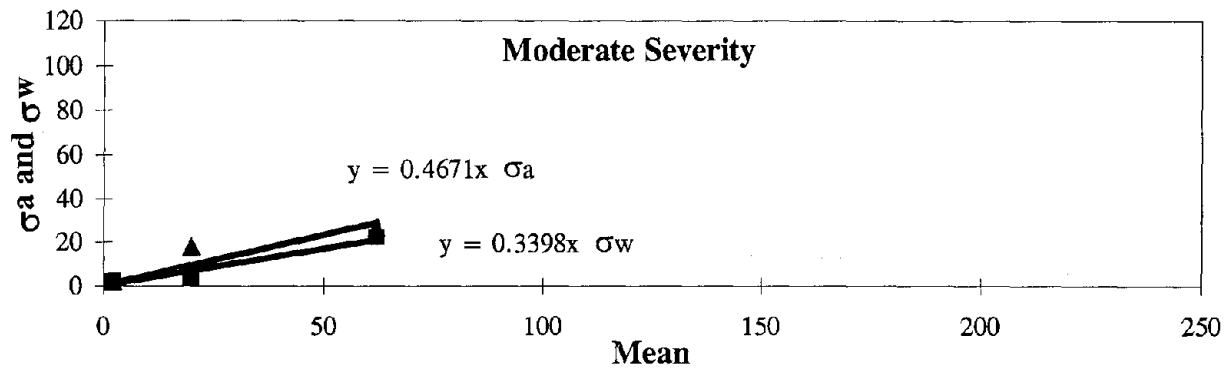
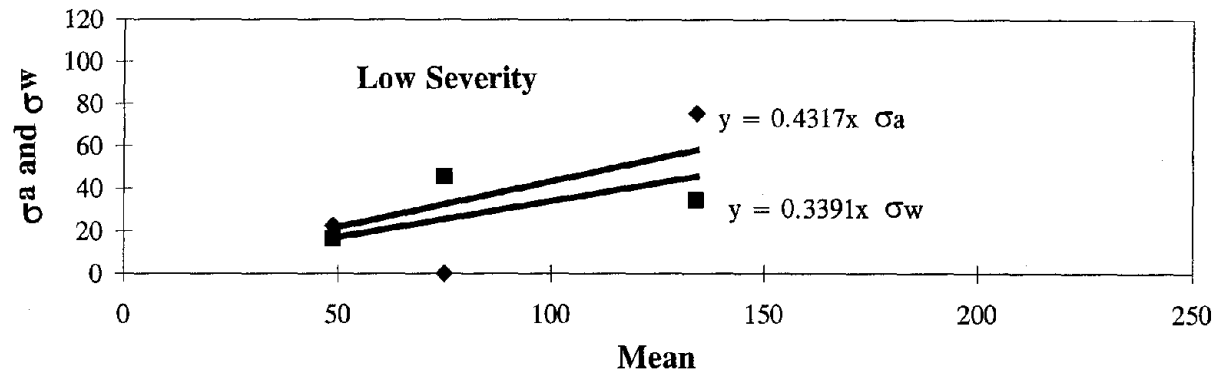


Figure 150. Longitudinal Cracking NWP (Meters) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

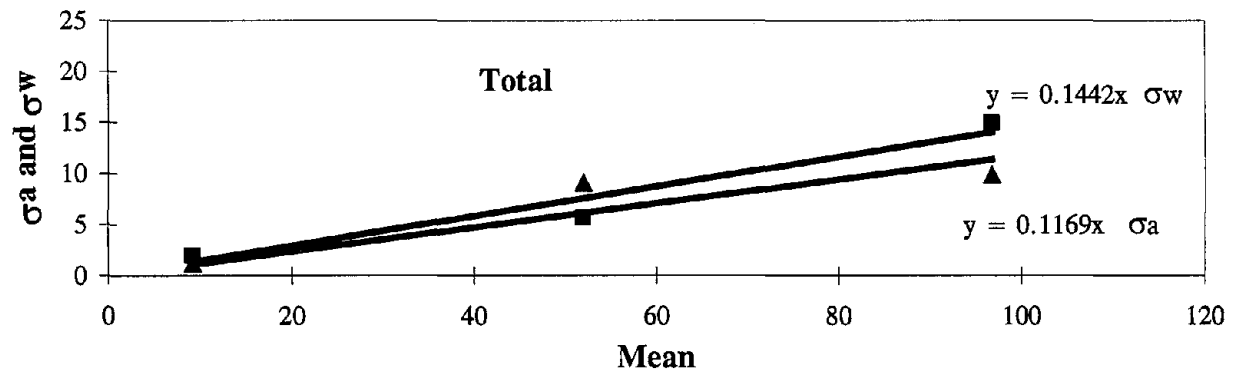
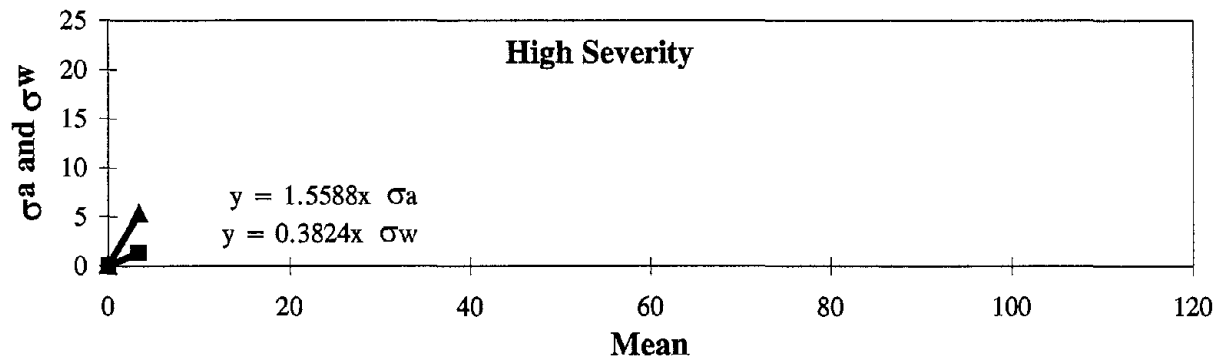
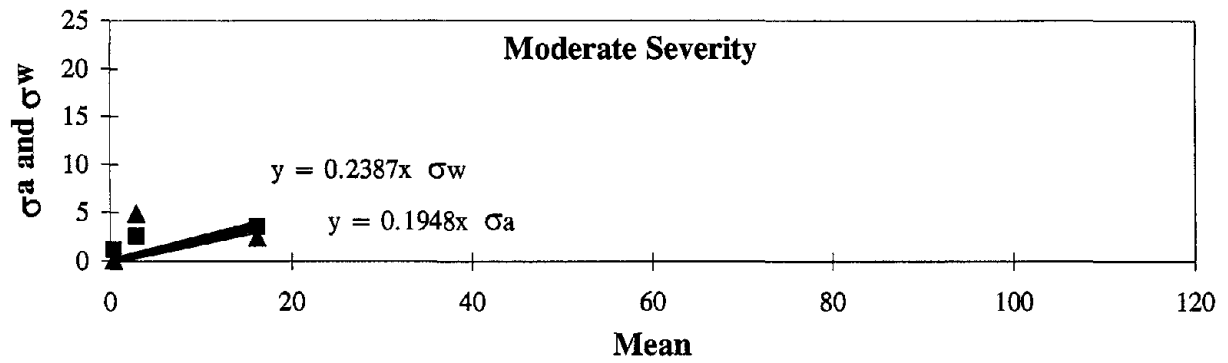
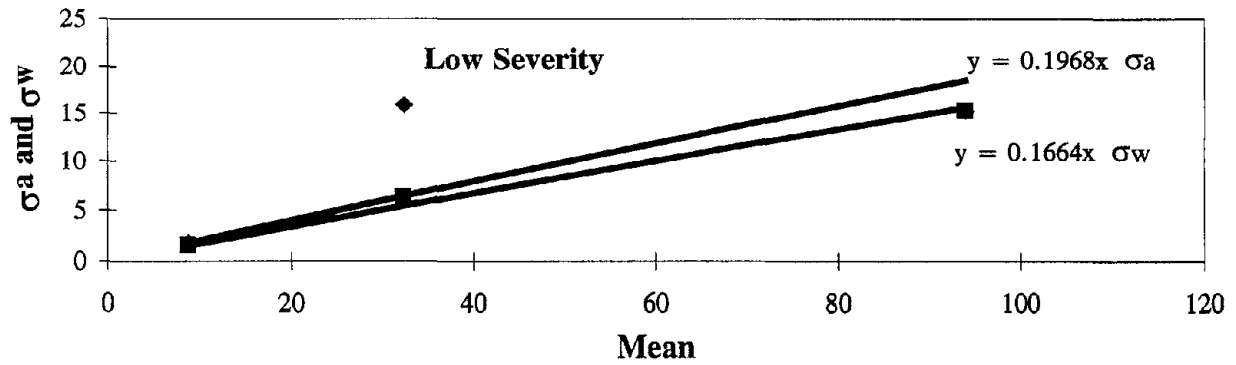


Figure 151. Transverse Cracking (No.) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

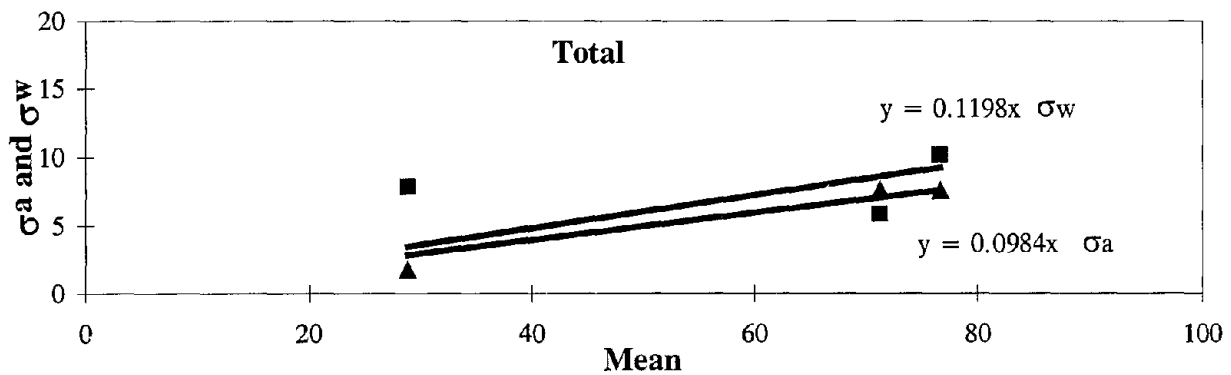
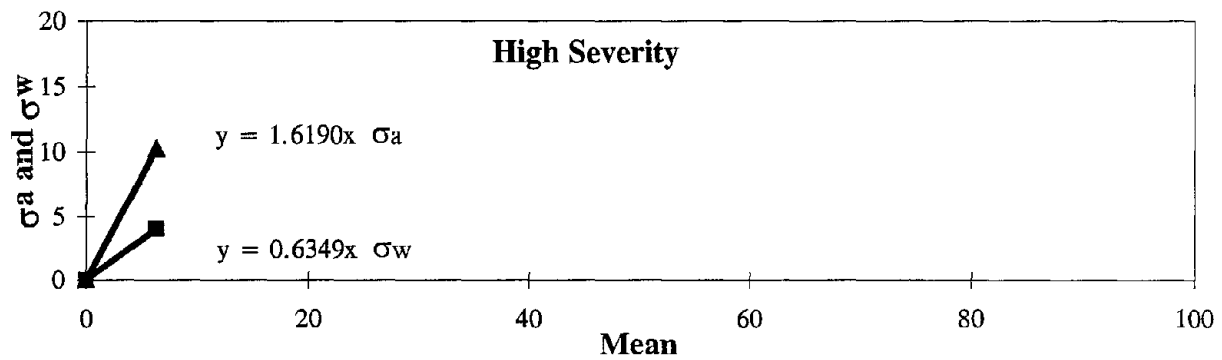
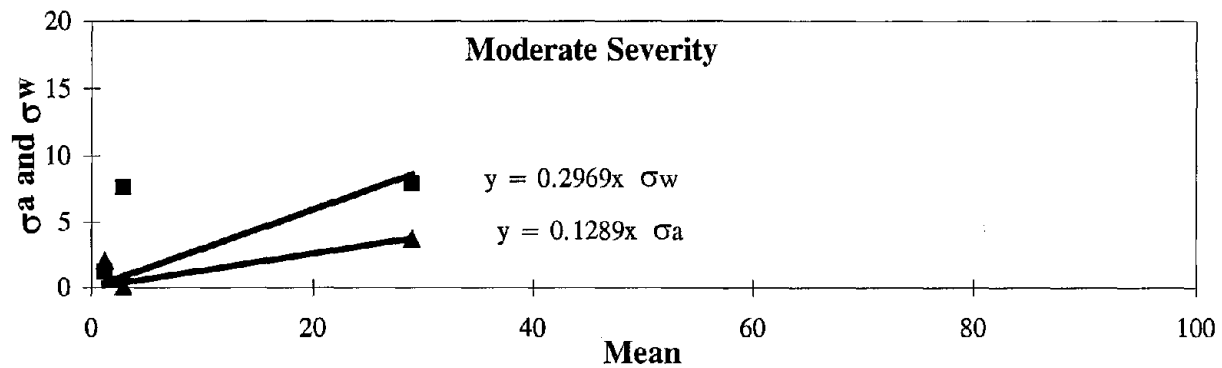
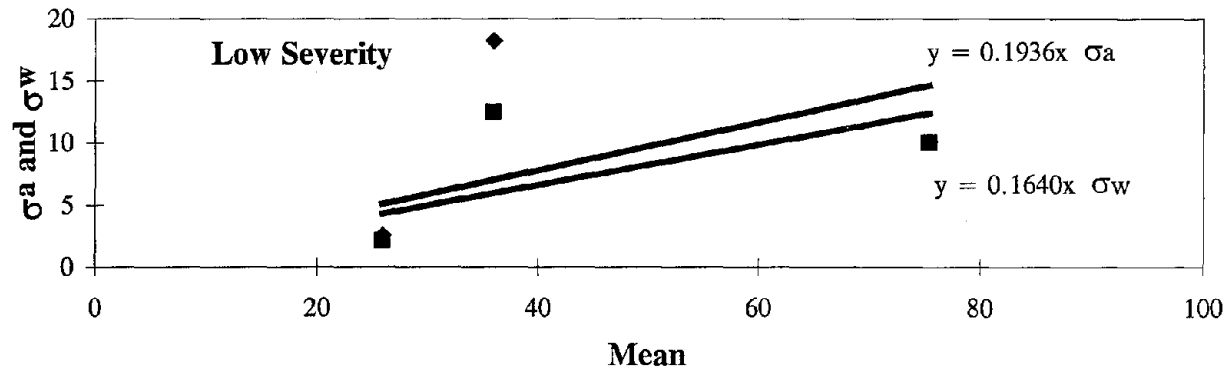


Figure 152. Transverse Cracking (Meters) - AC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

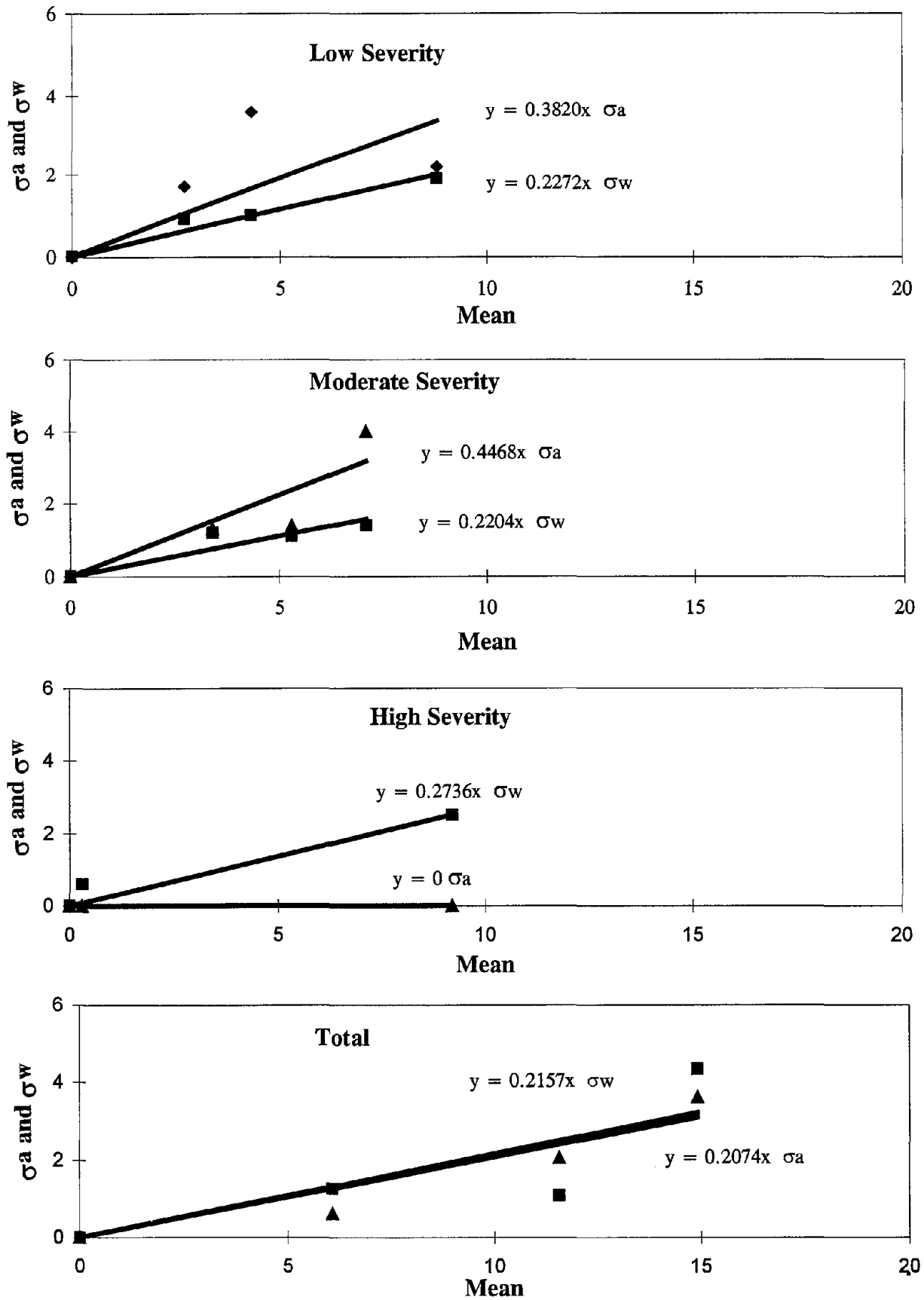


Figure 153. Corner Breaks (No.) - PCC Pavements, Experts,
PASCO Method: σ_a and σ_w Vs. Mean.

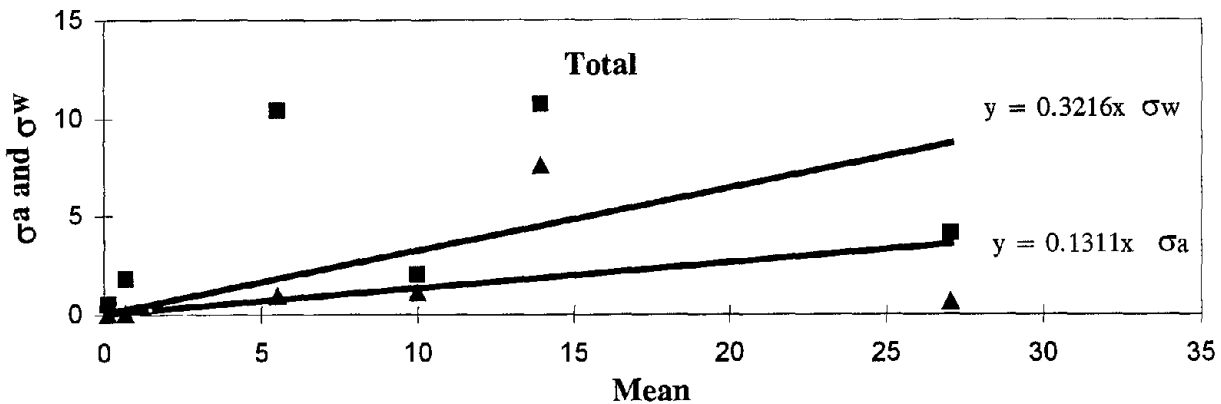
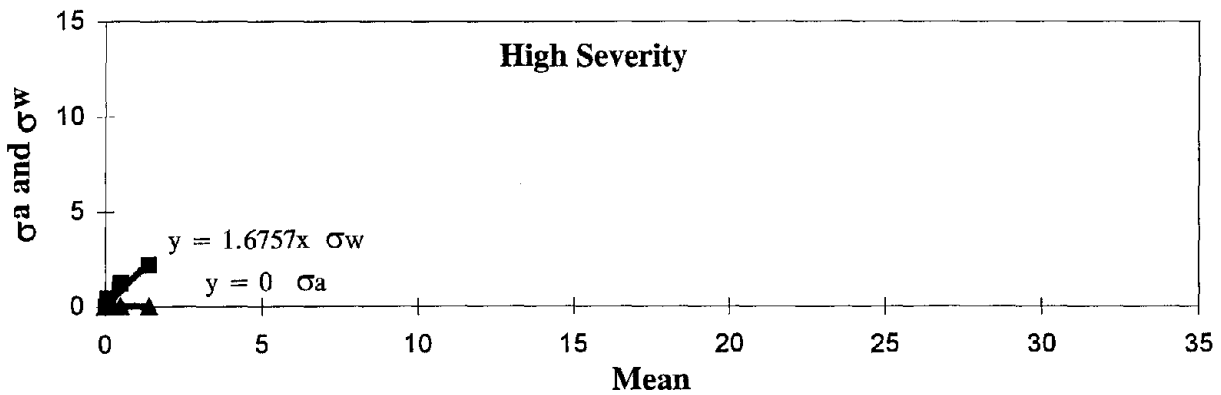
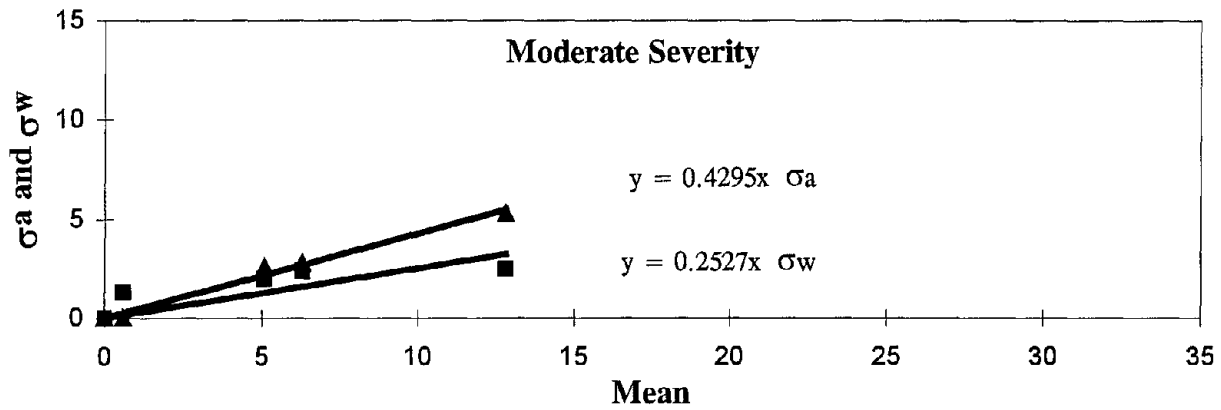
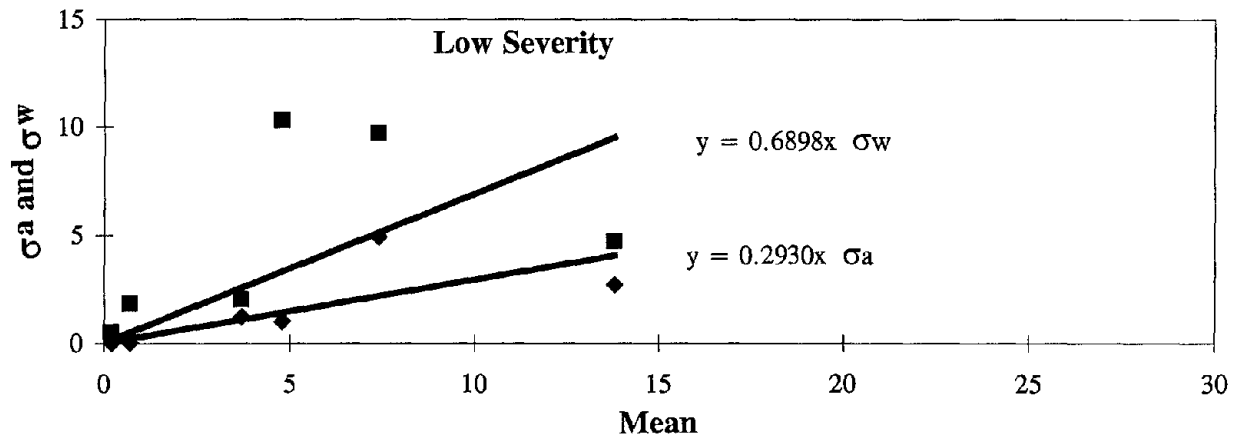


Figure 154. Longitudinal Cracking (Meters) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

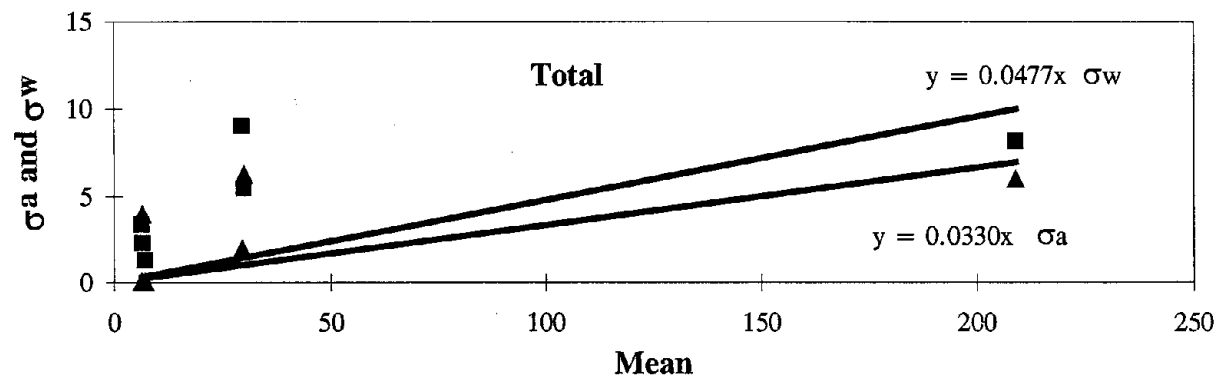
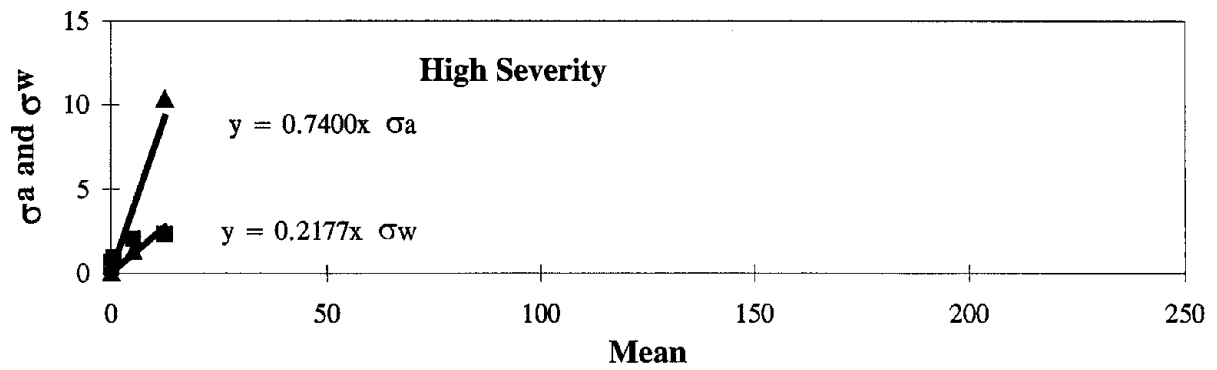
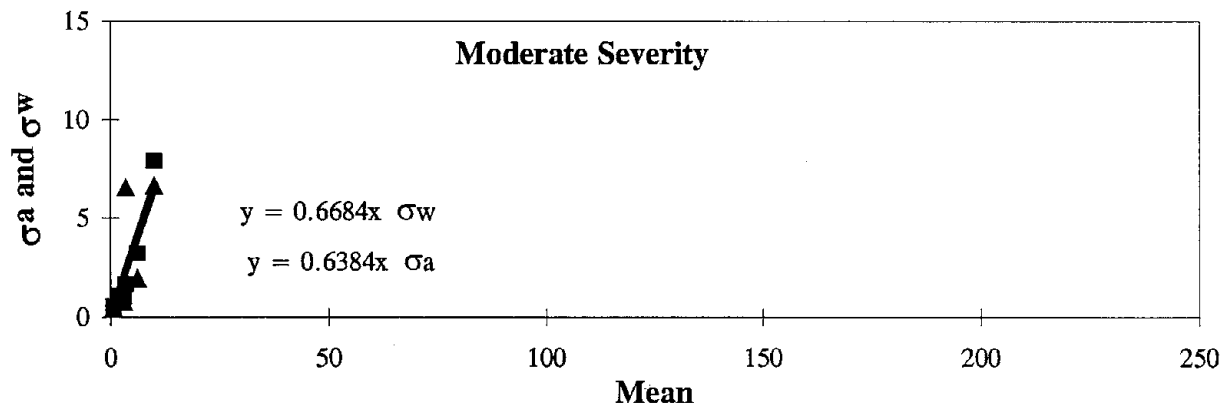
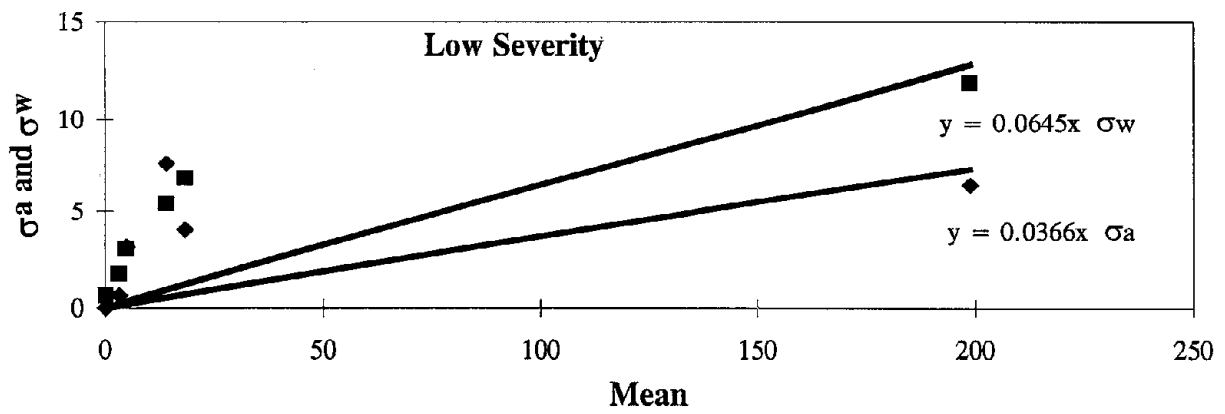


Figure 155. Transverse Cracking (No.) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

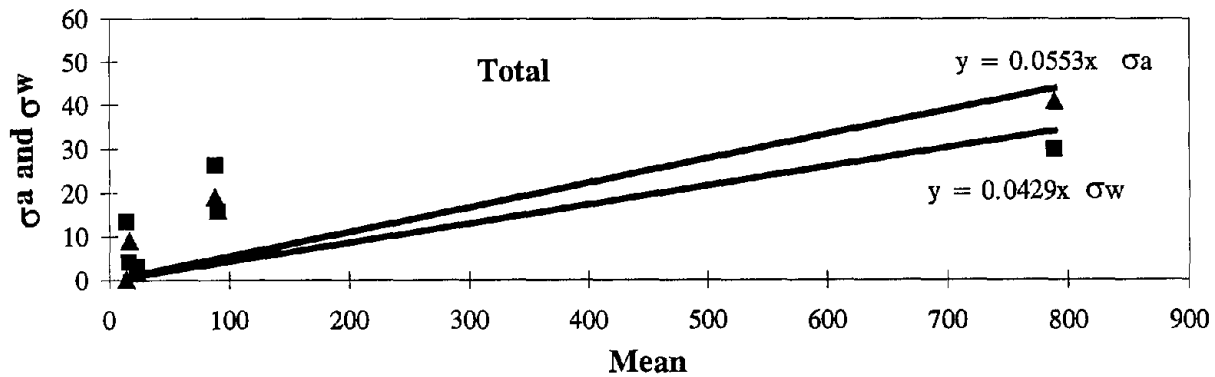
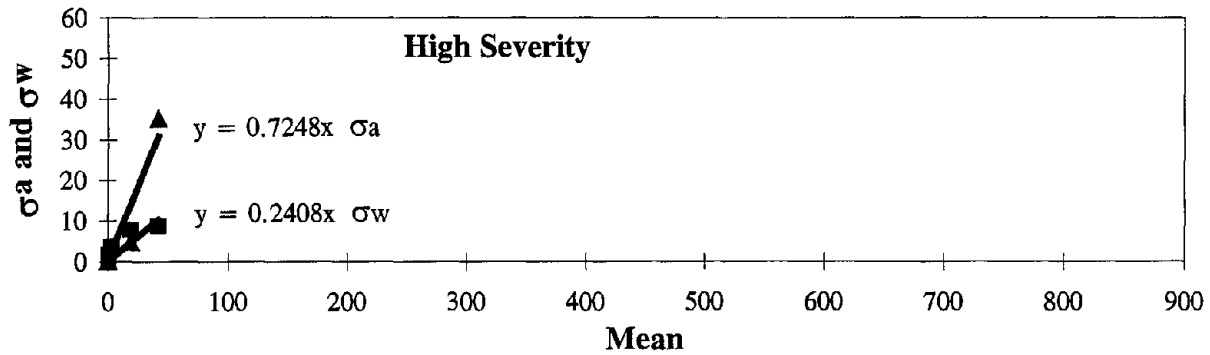
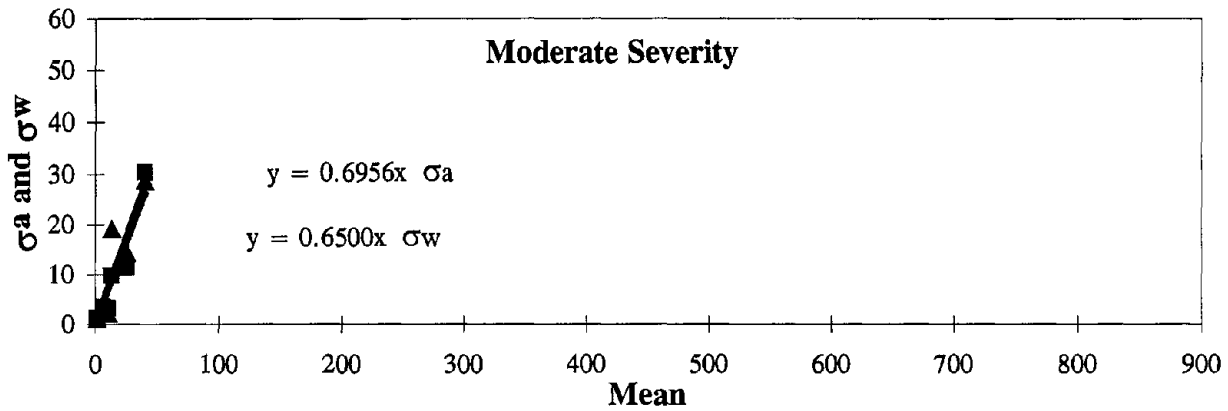
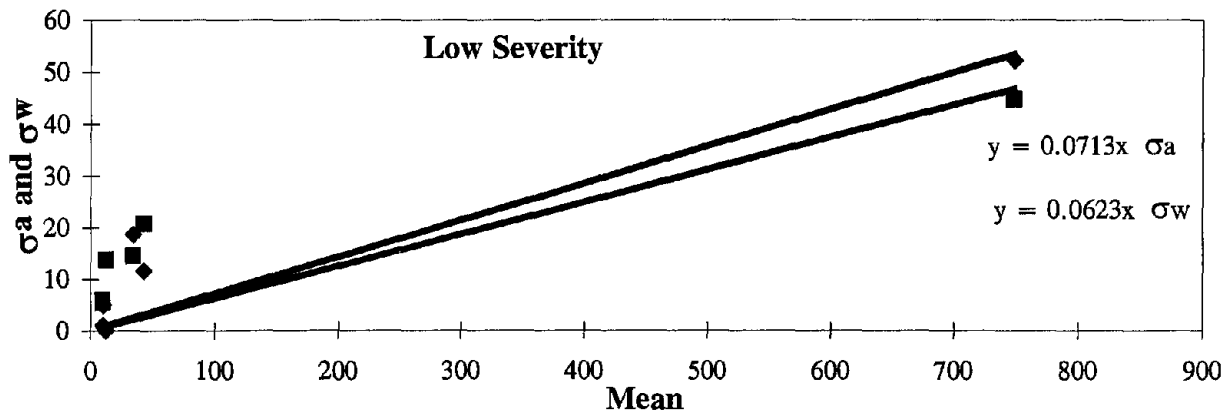


Figure 156. Transverse Cracking (Meters) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

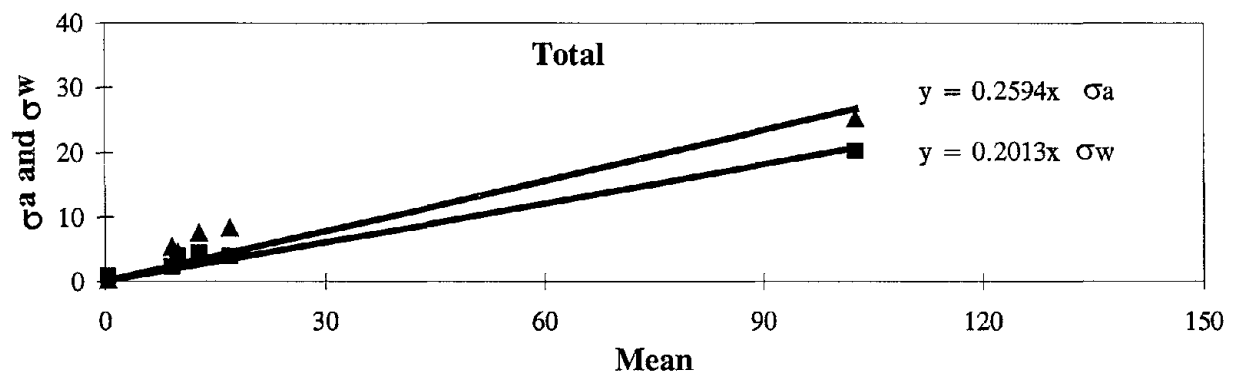
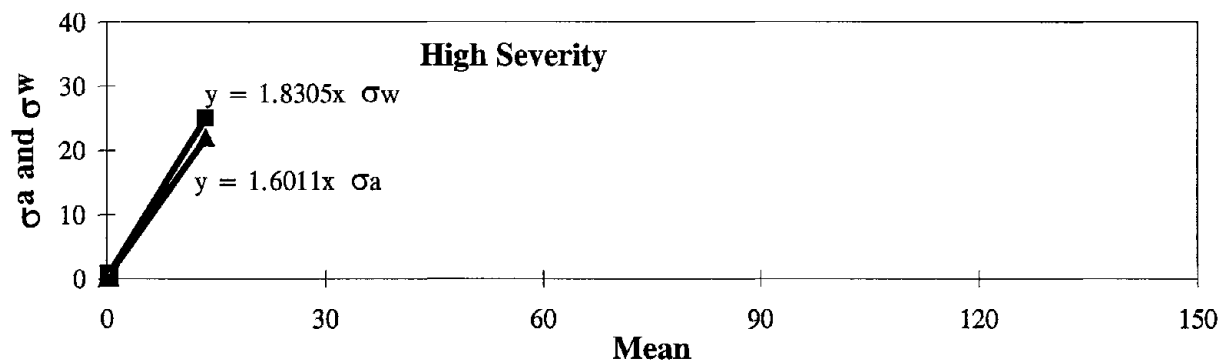
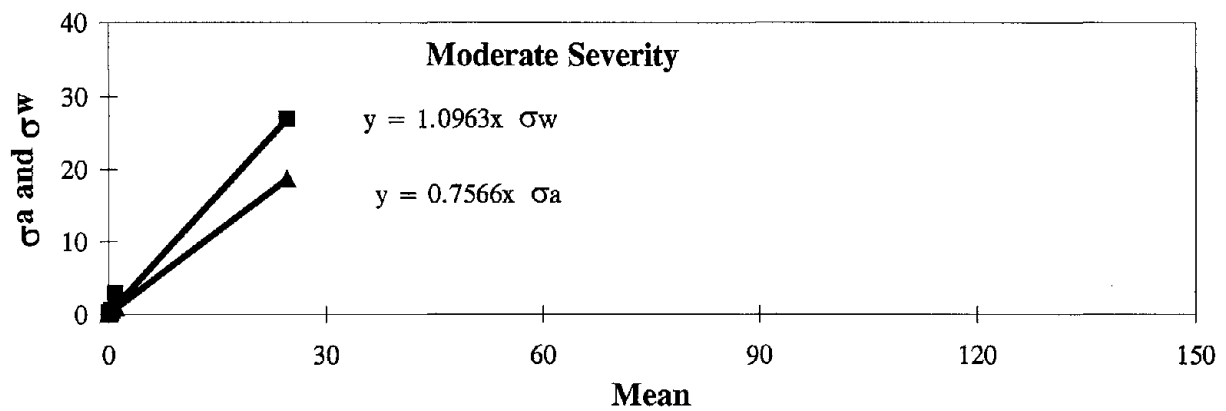
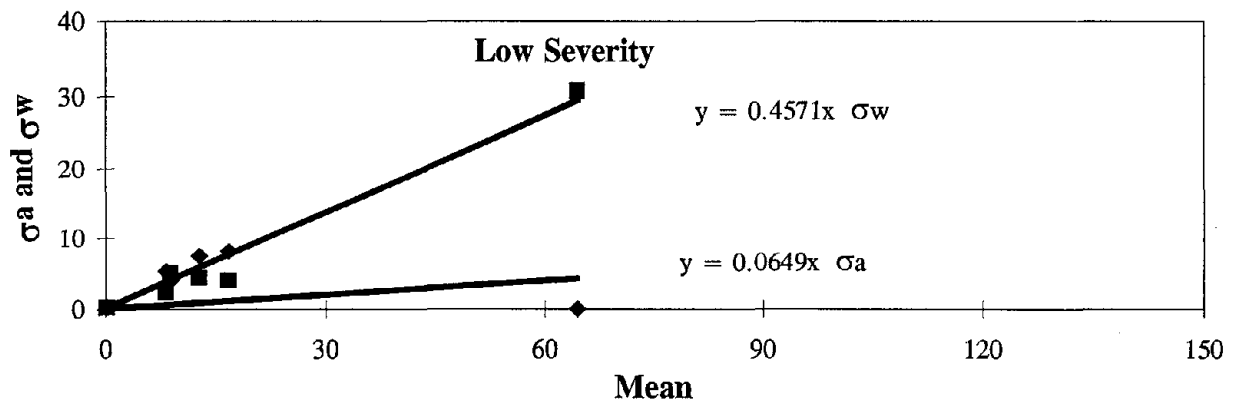


Figure 157. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

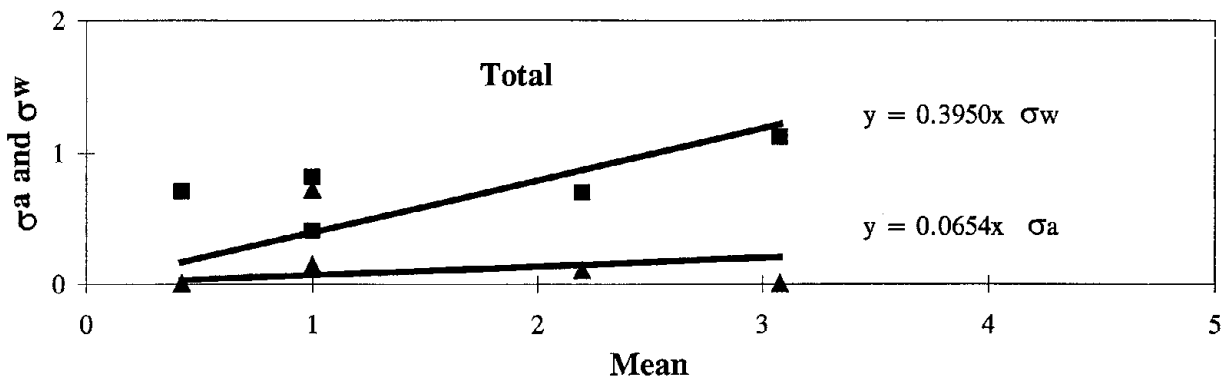
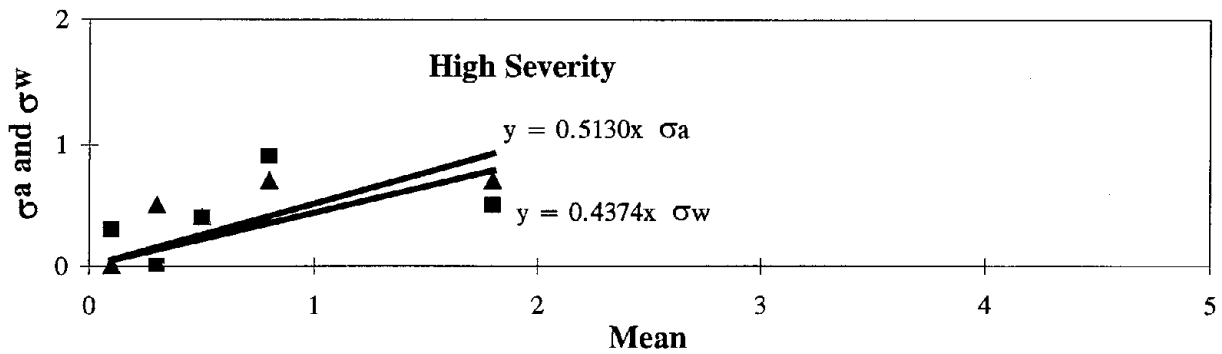
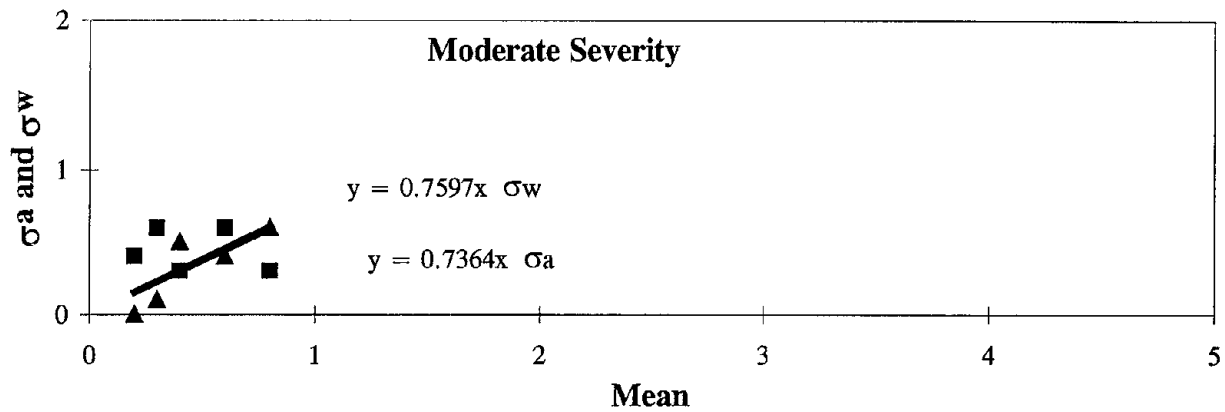
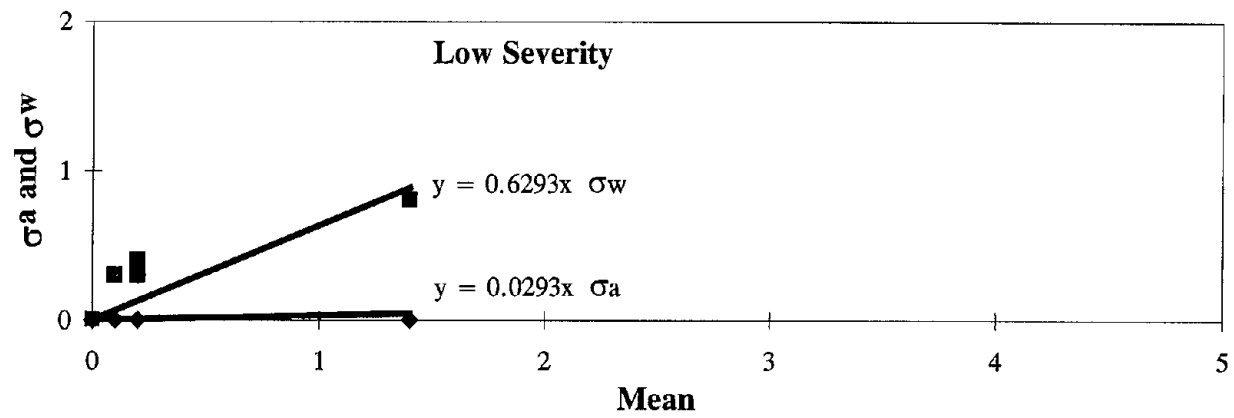


Figure 158. Spalling of Transverse Joints (No.) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

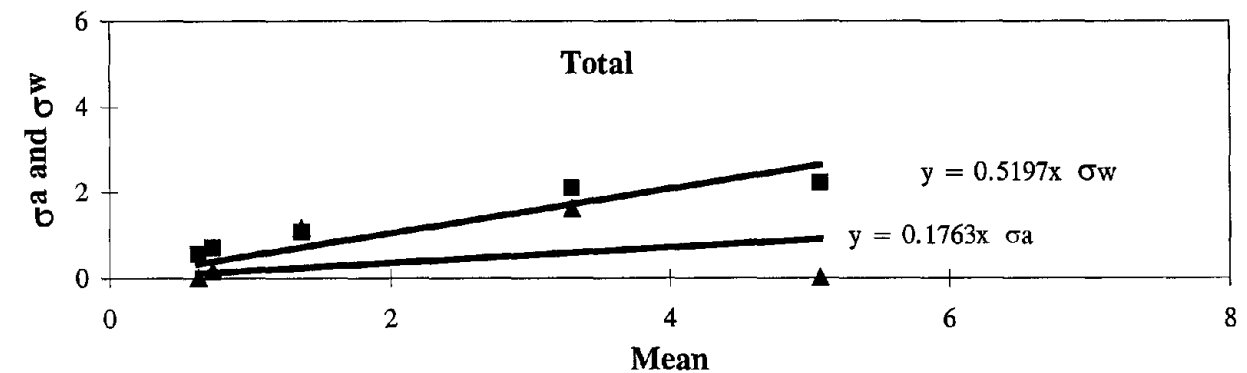
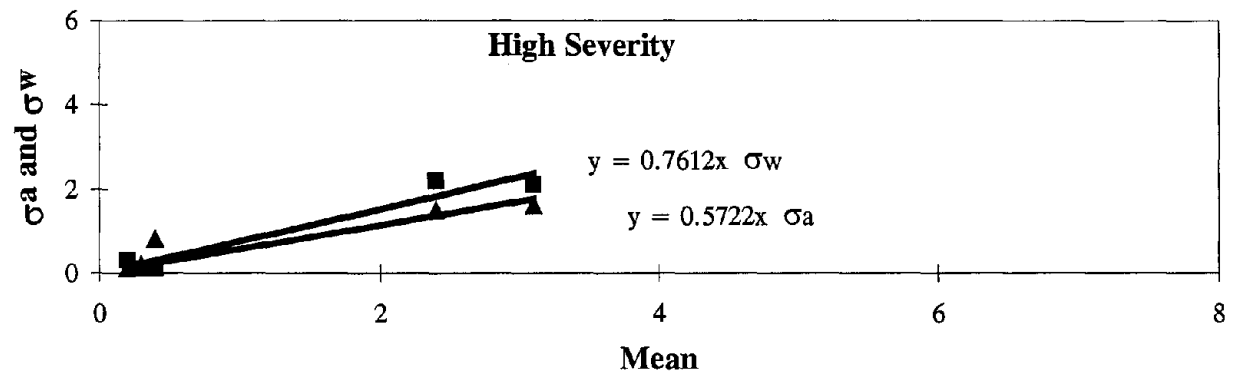
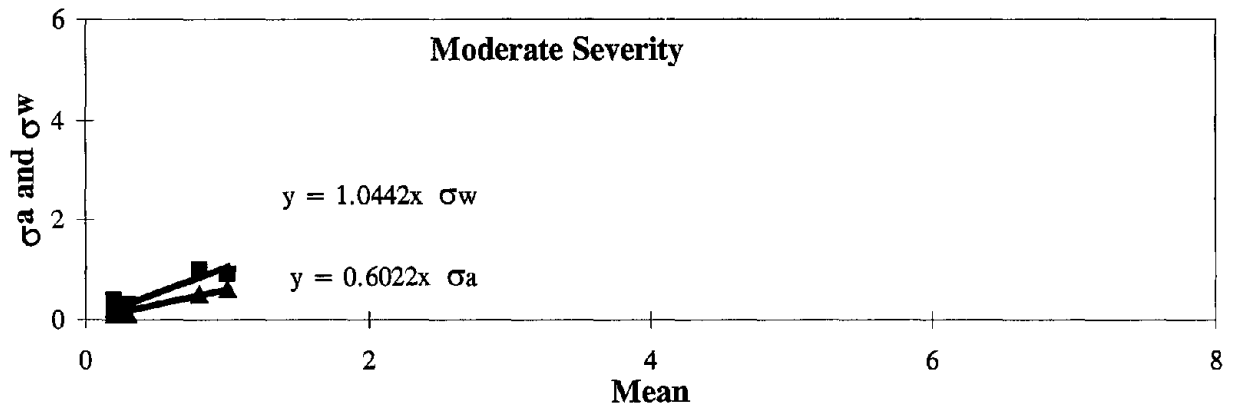
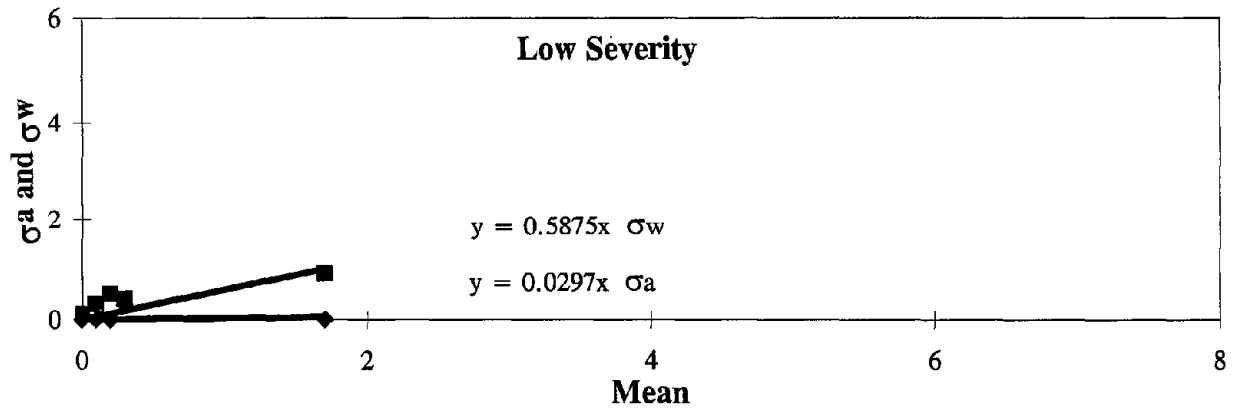


Figure 159. Spalling of Transverse Joints (Meters) - PCC Pavements, Experts, PASCO Method: σ_a and σ_w Vs. Mean.

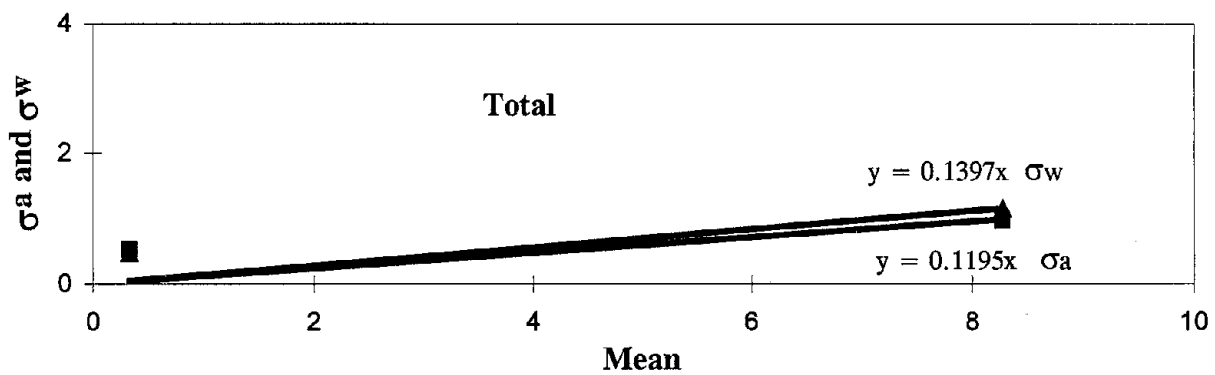
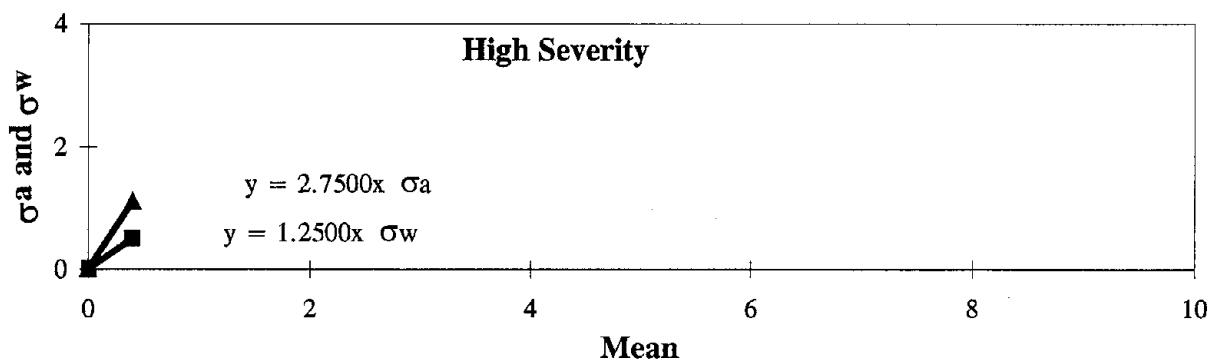
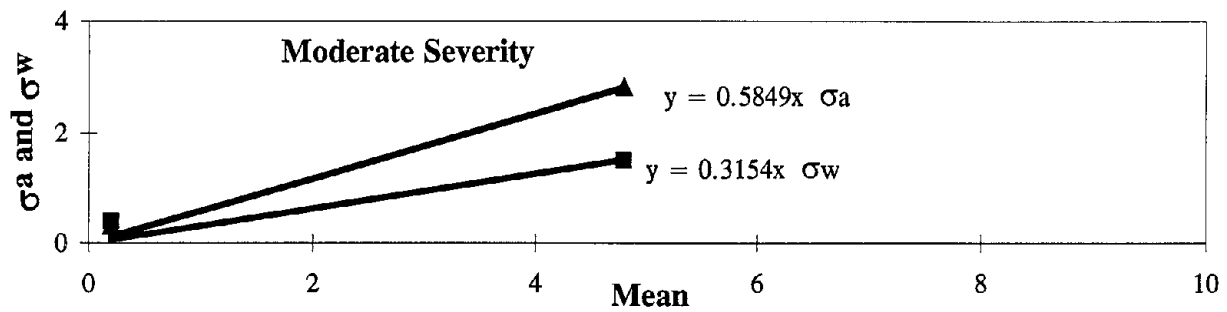
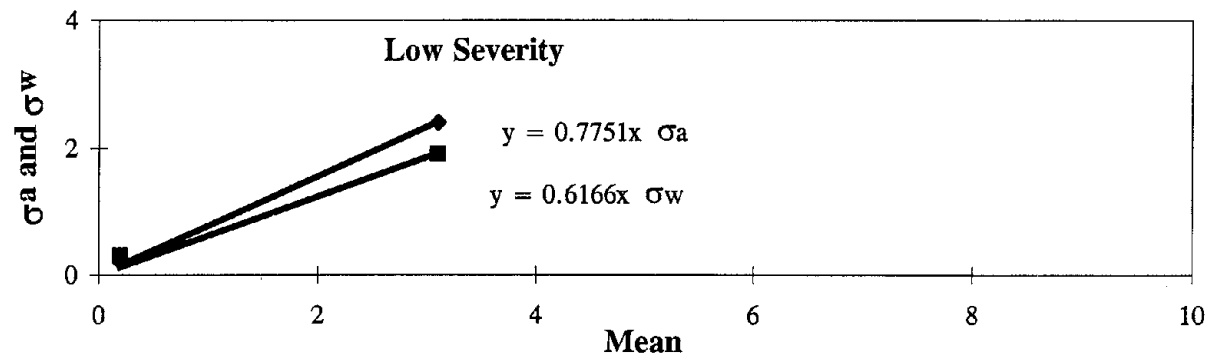


Figure 160. Corner Breaks (No.) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

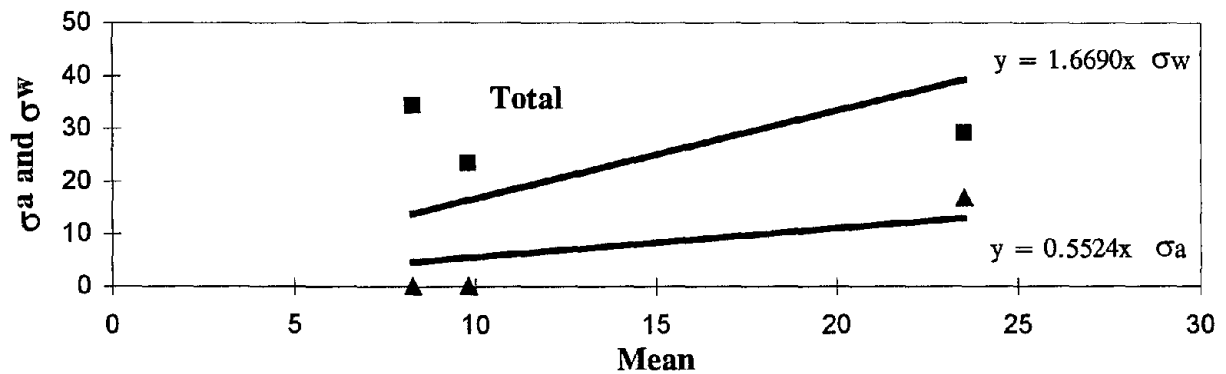
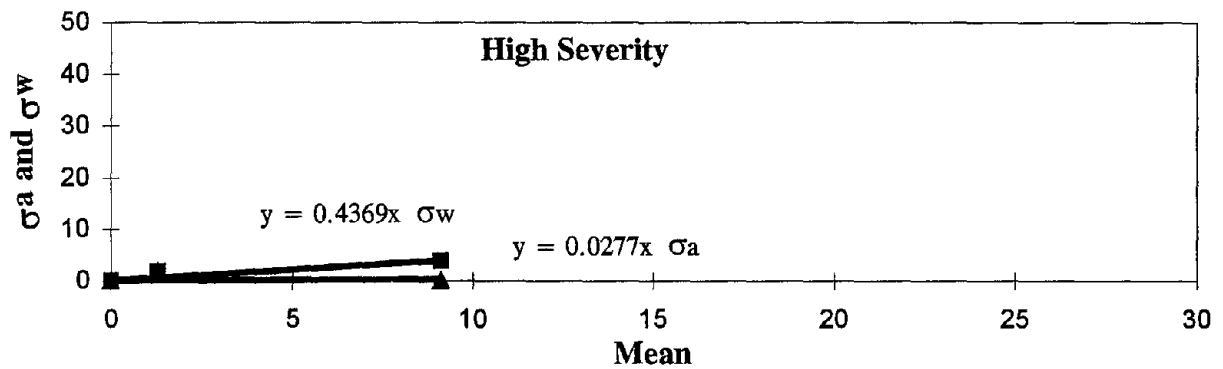
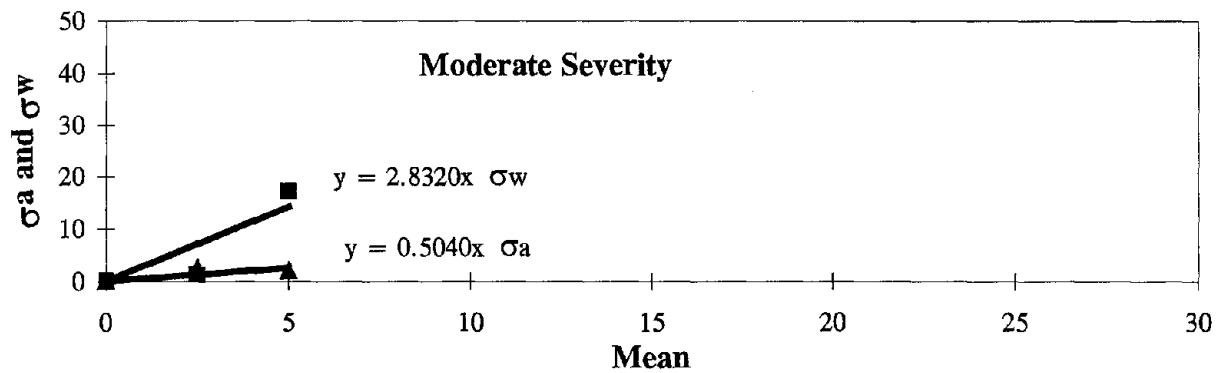
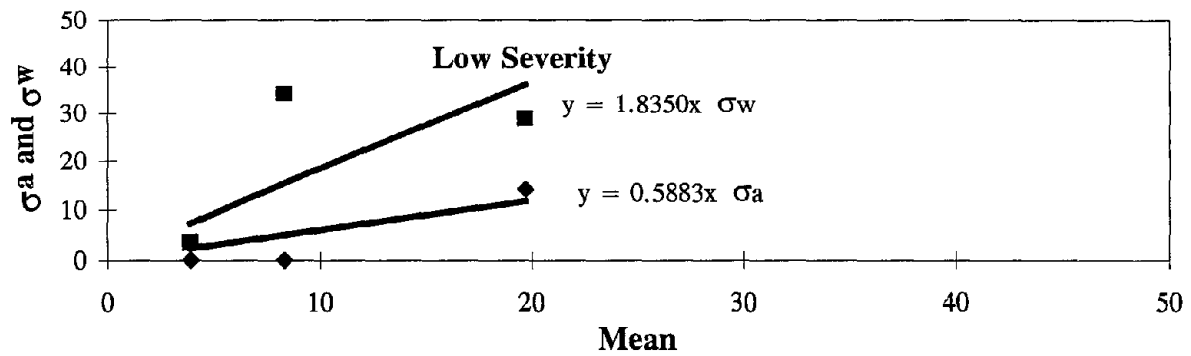


Figure 161. Longitudinal Cracking (Meters) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

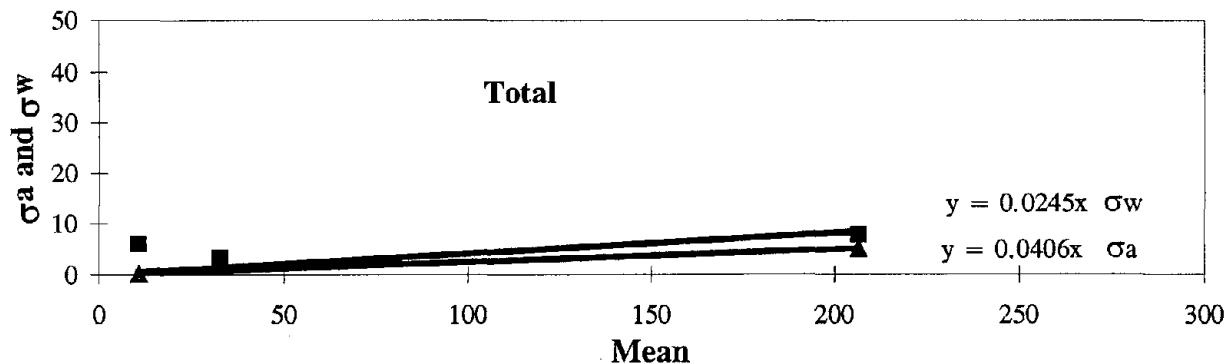
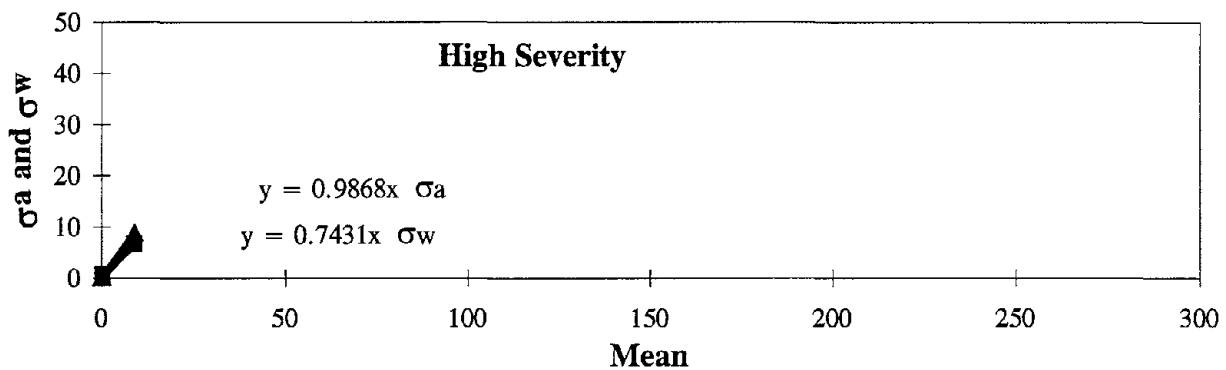
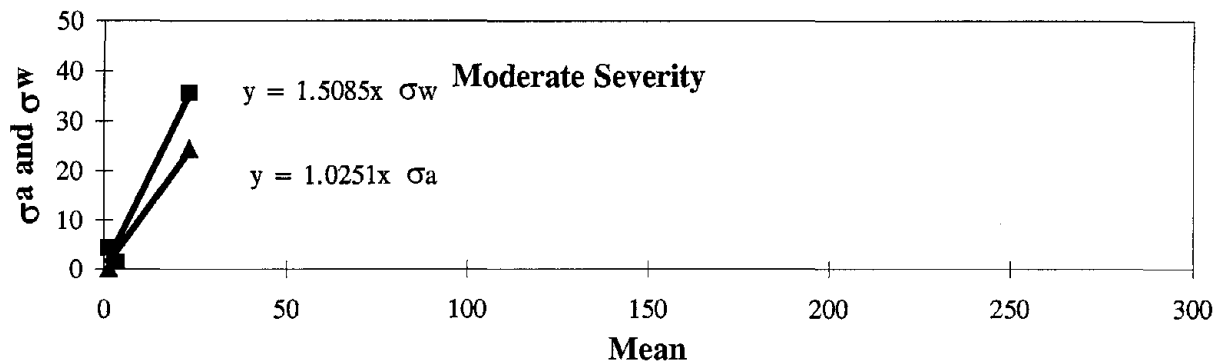
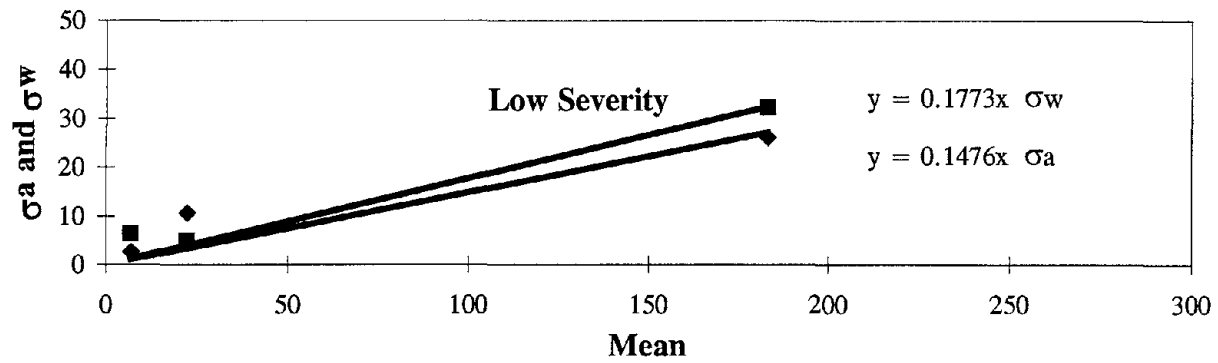


Figure 162. Transverse Cracking (No.) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

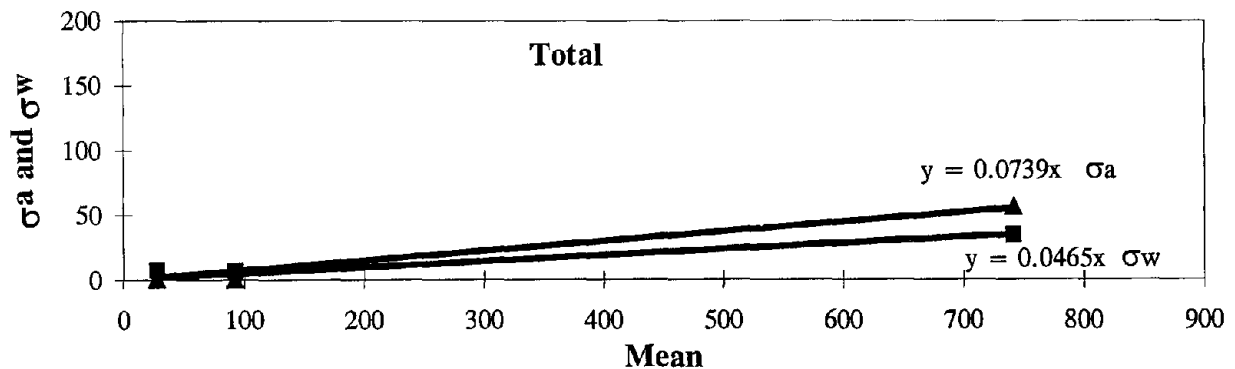
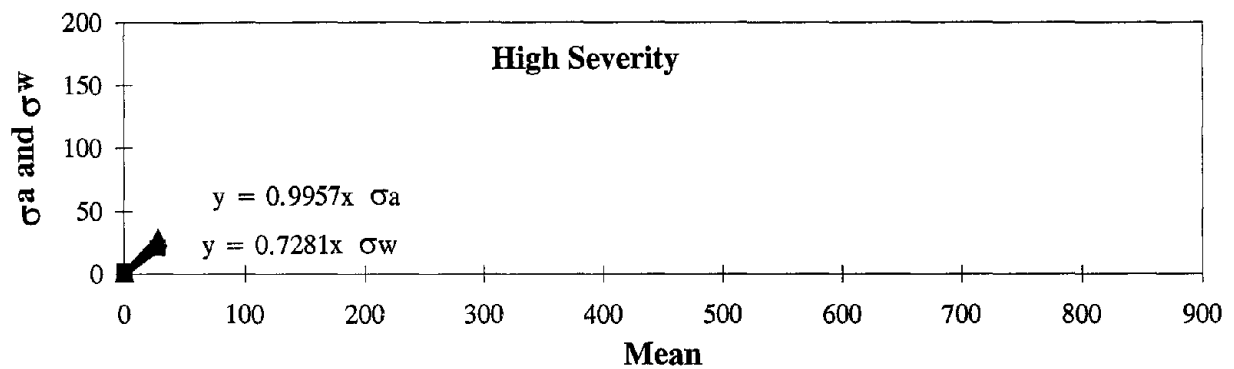
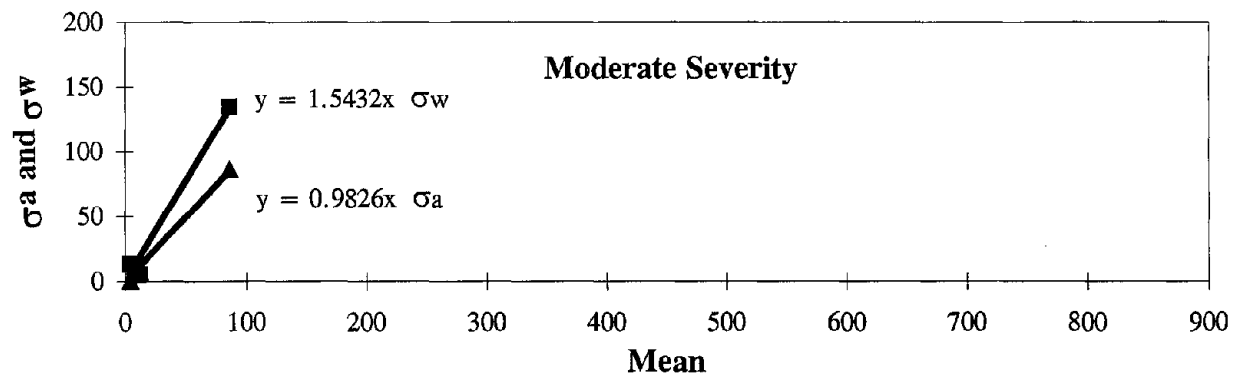
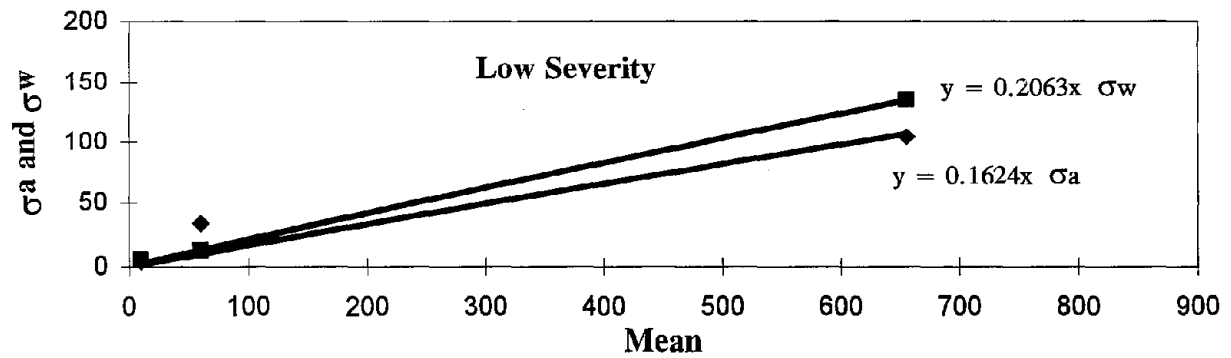


Figure 163. Transverse Cracking (Meters) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

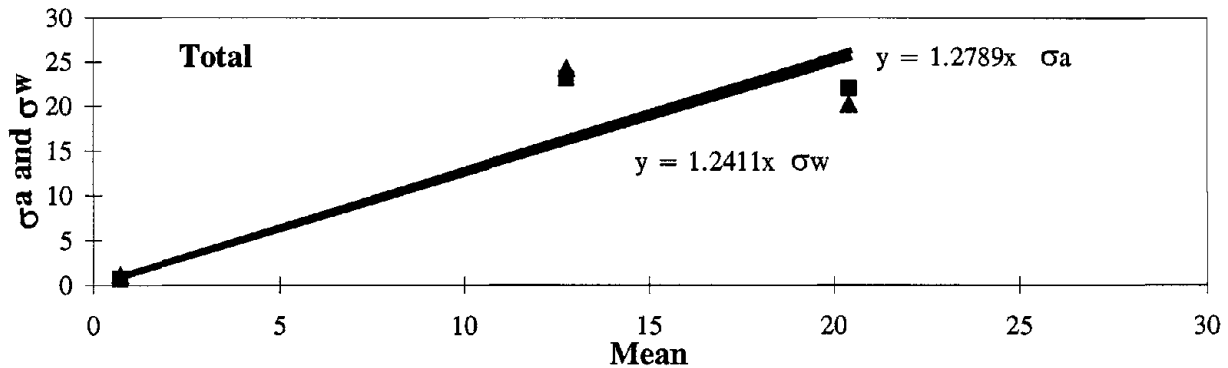
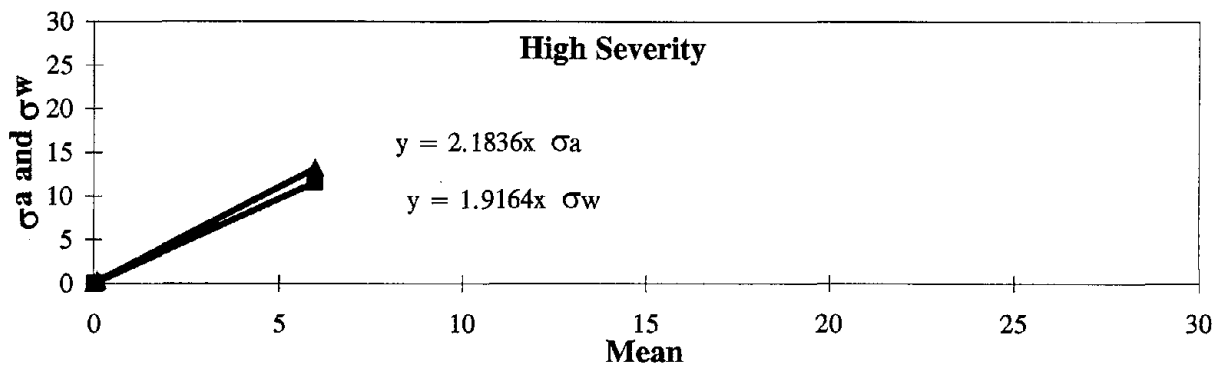
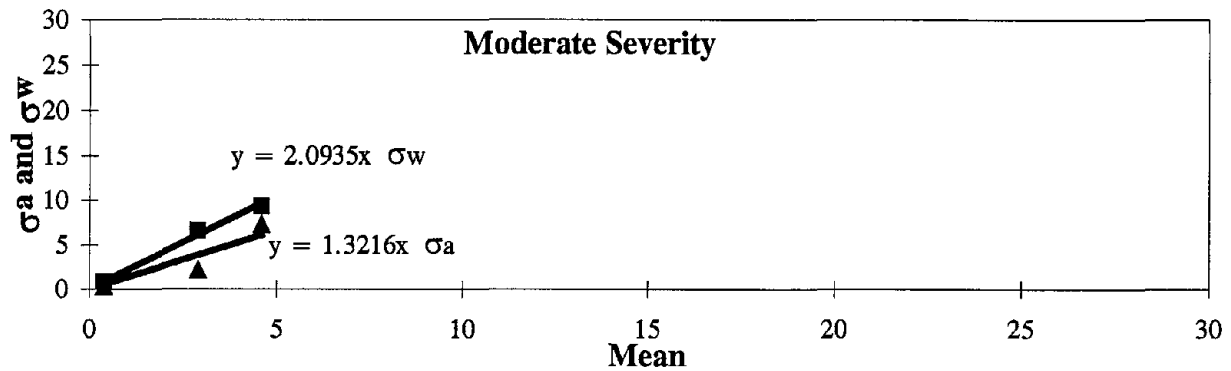
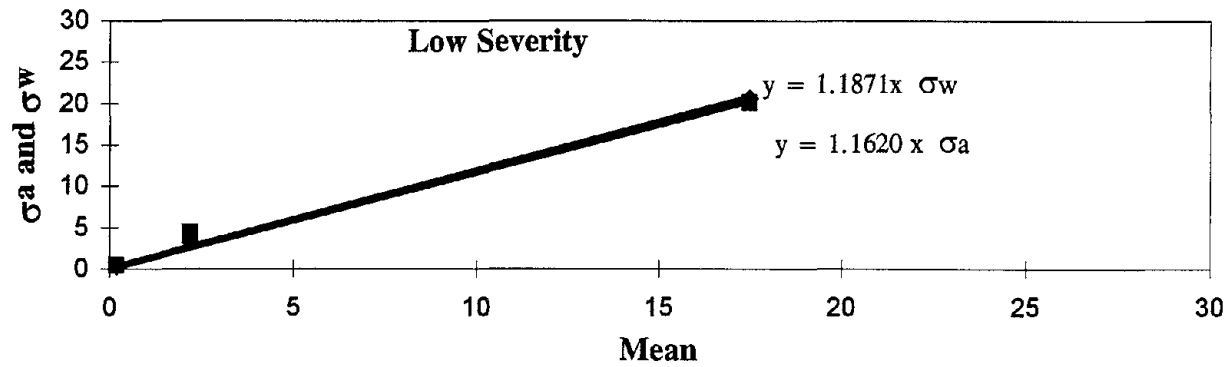


Figure 164. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

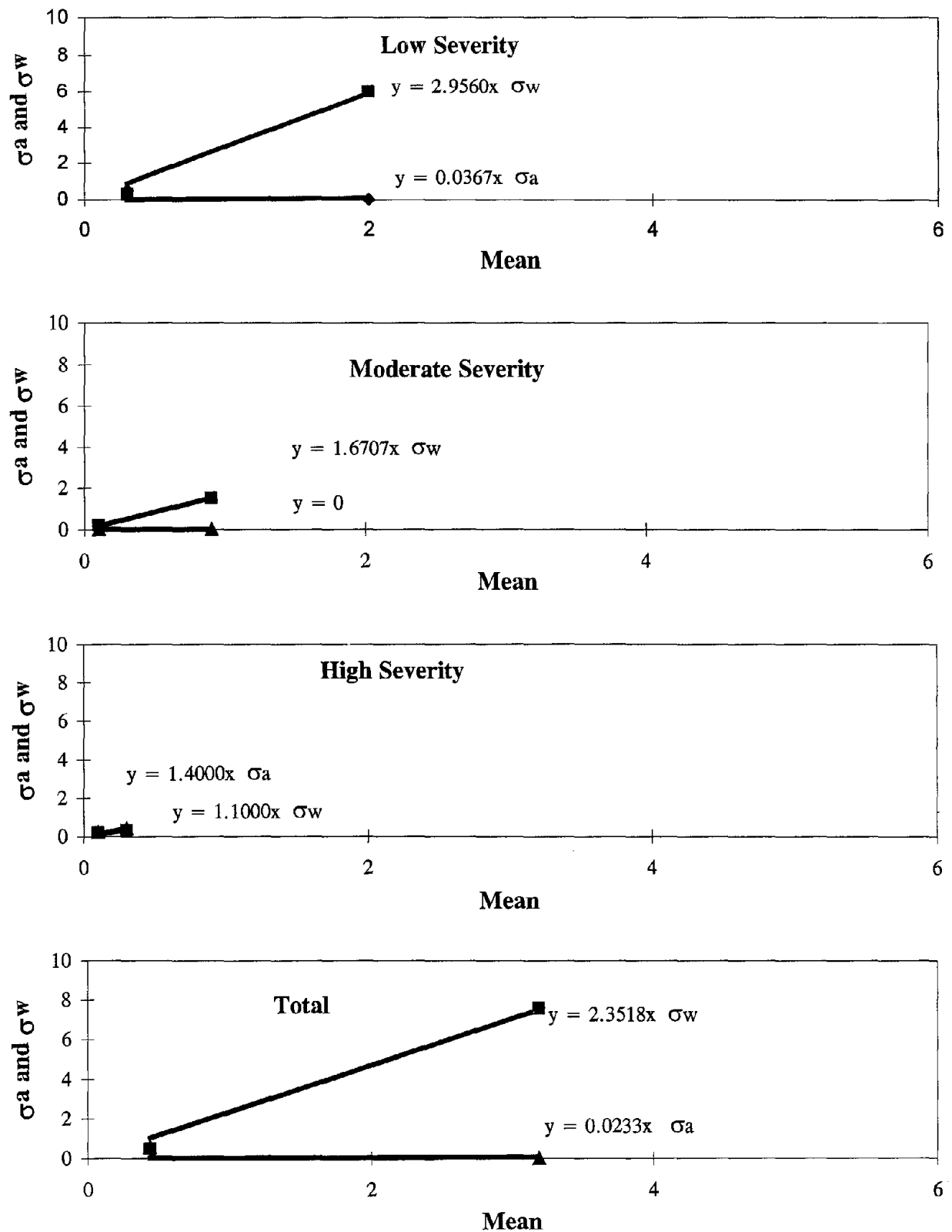


Figure 165. Spalling of Transverse Joints (No.) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

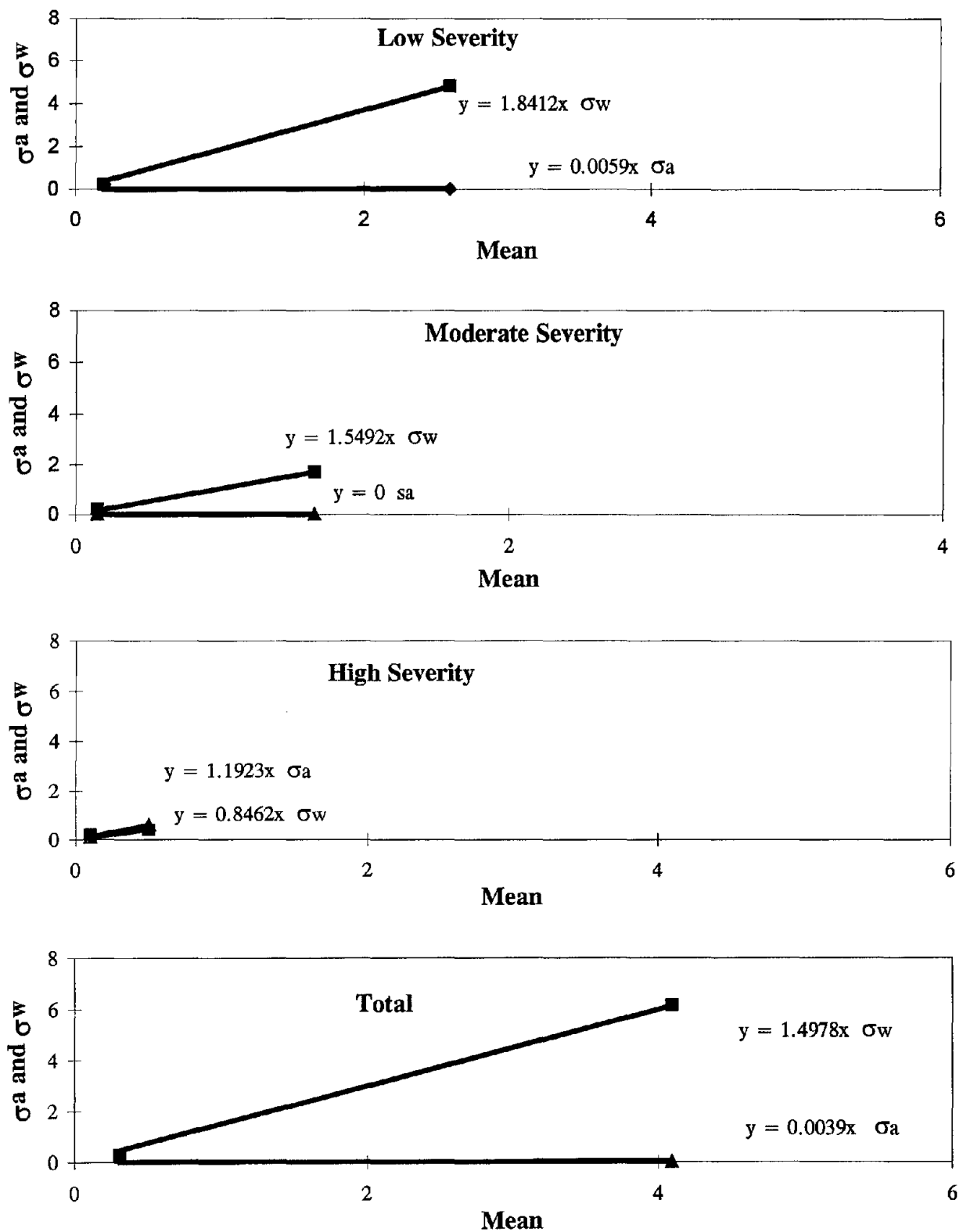


Figure 166. Spalling of Transverse Joints (Meters) - PCC Pavements, Individuals, PASCO Method: σ_a and σ_w Vs. Mean.

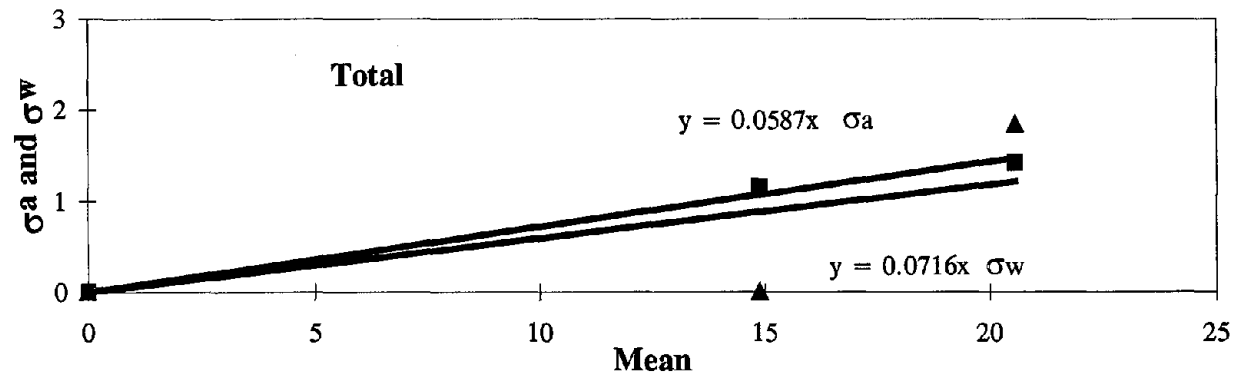
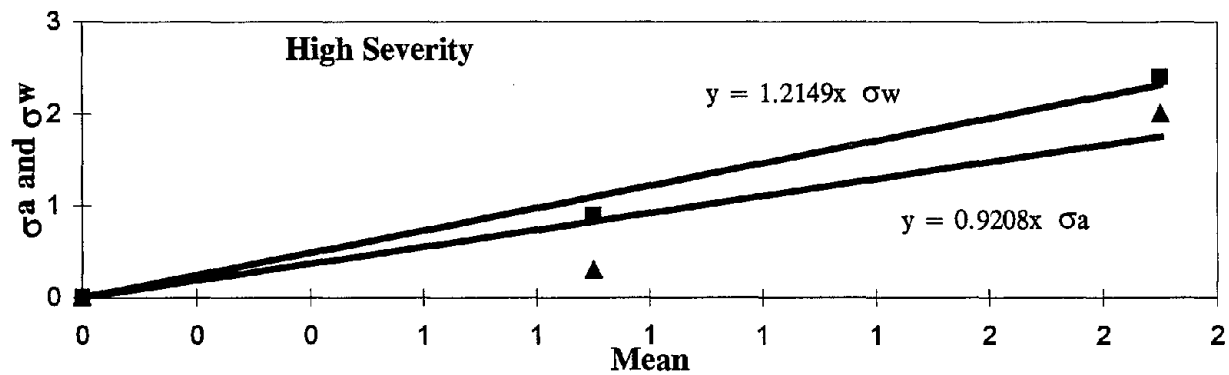
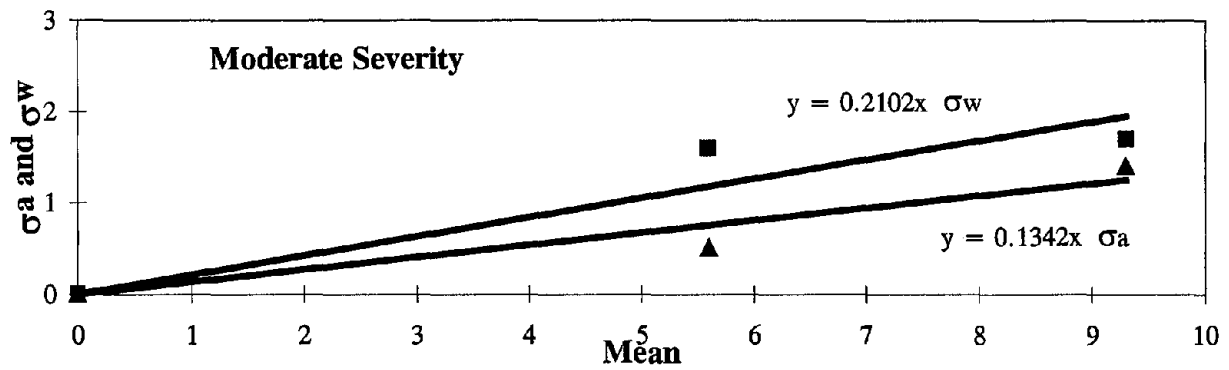
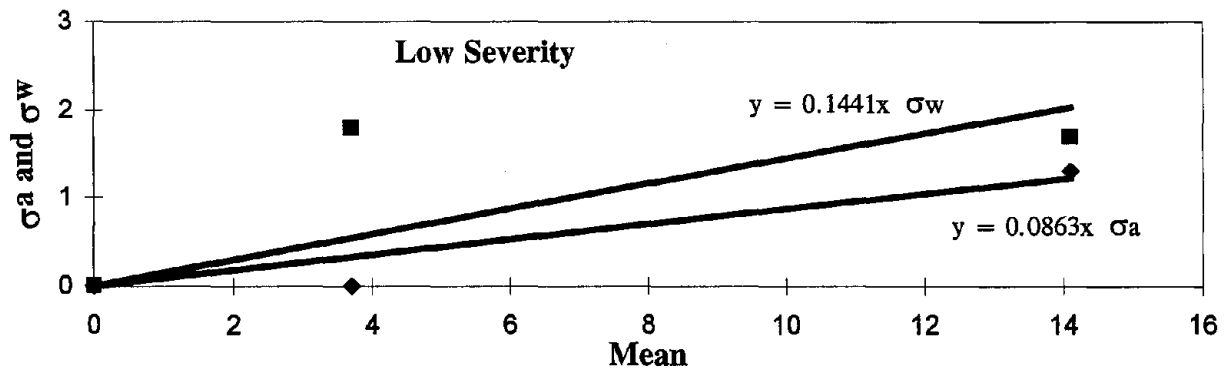


Figure 167. Corner Breaks (No.) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

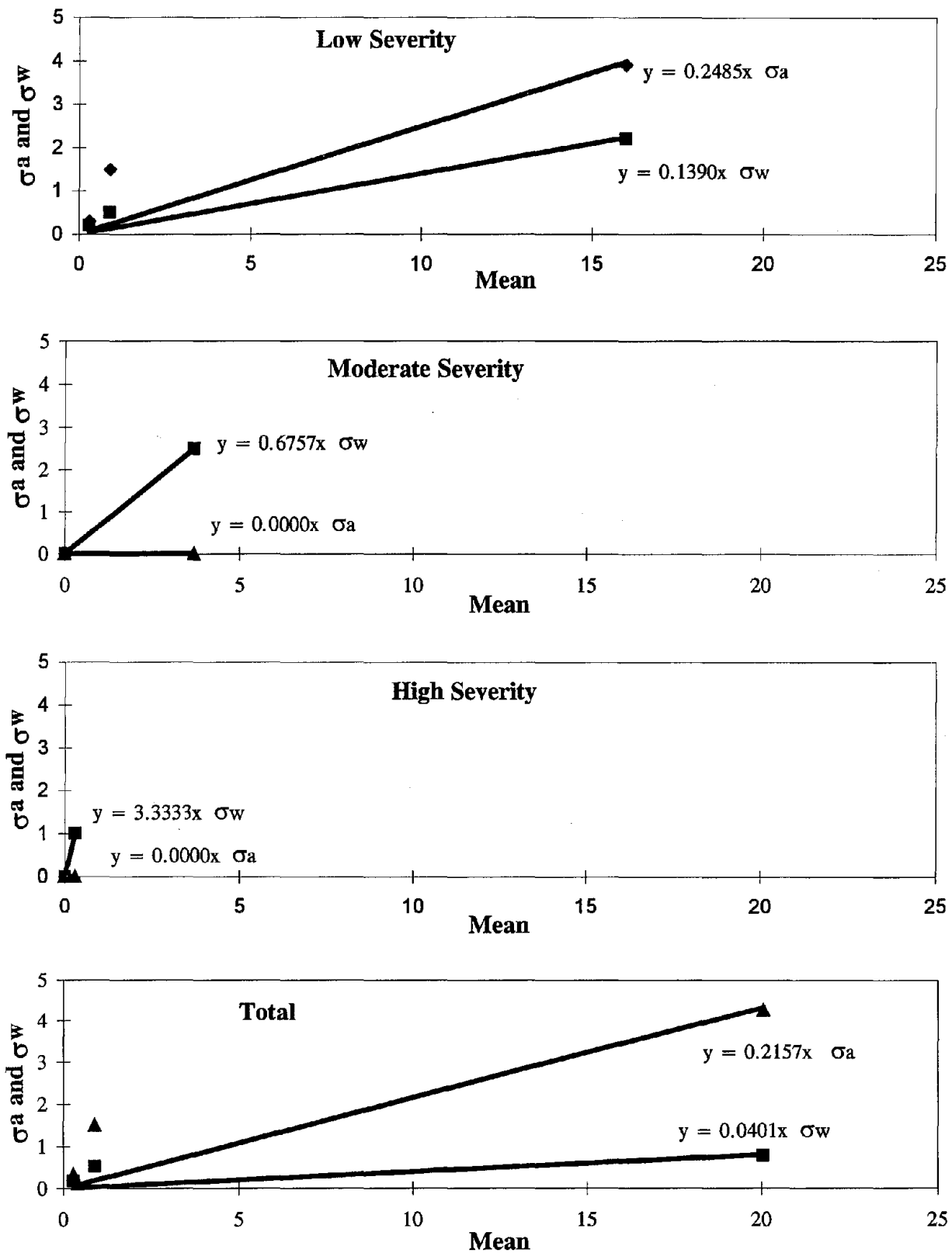


Figure 168. Longitudinal Cracking (Meters) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

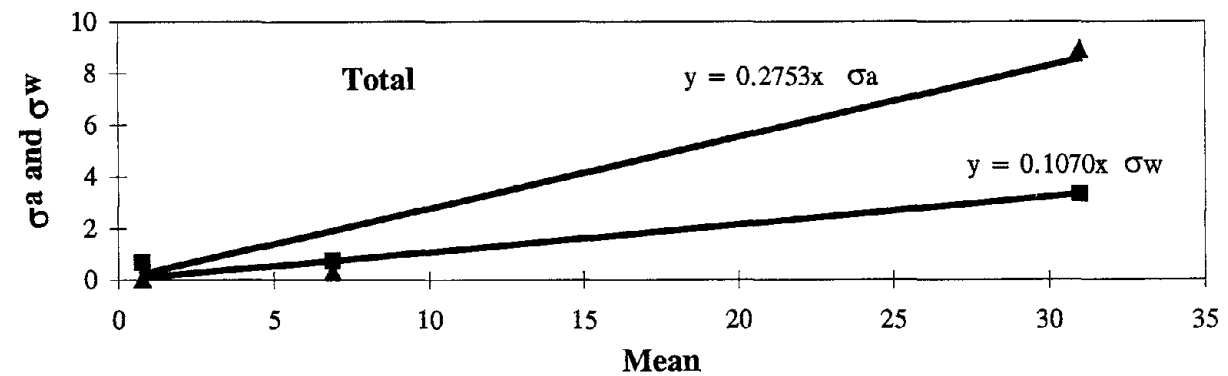
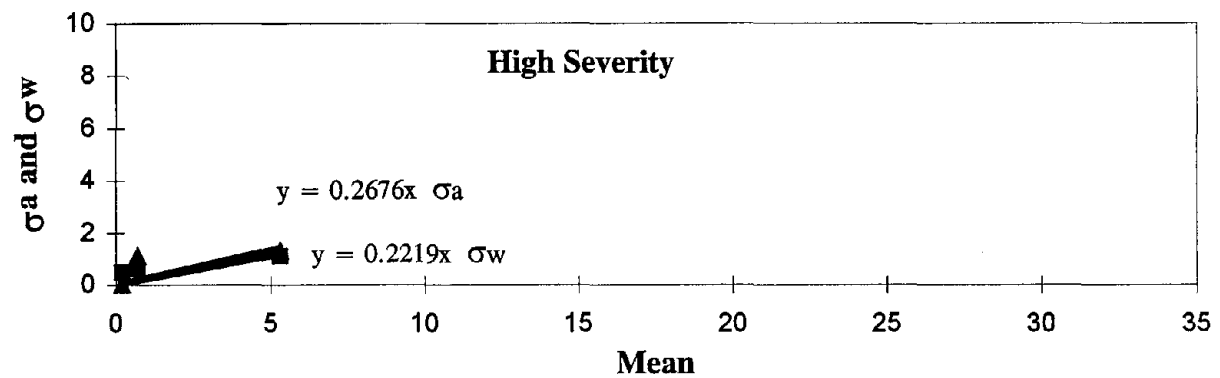
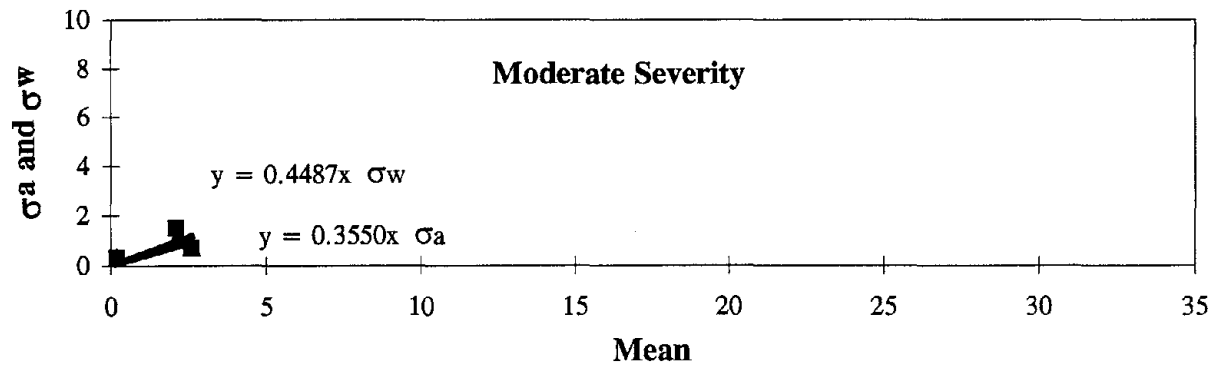
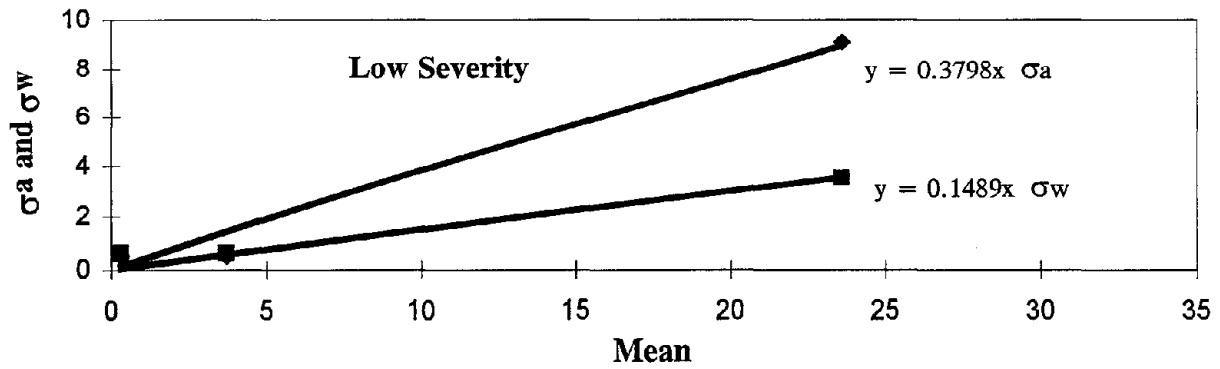


Figure 169. Transverse Cracking (No.) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

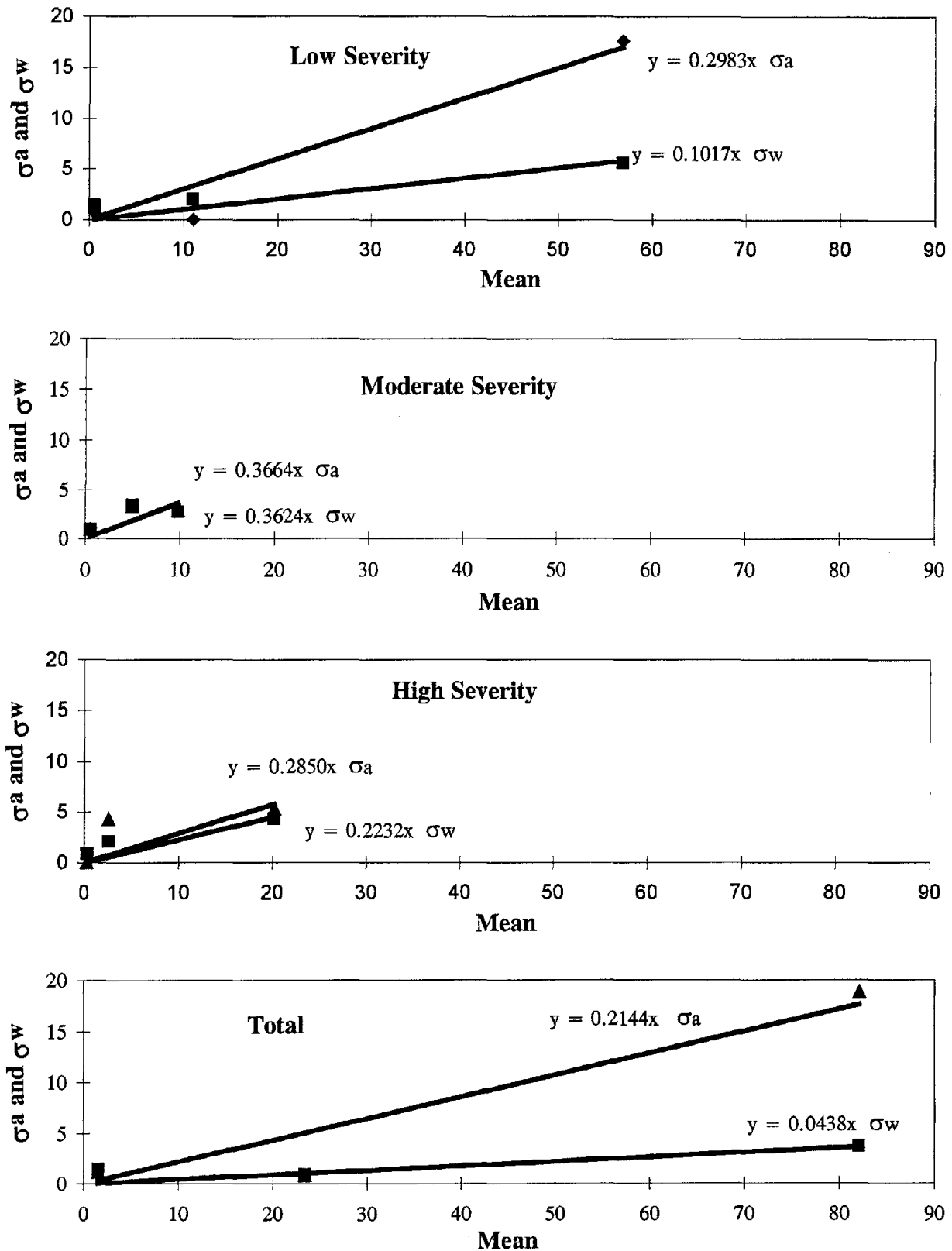


Figure 170. Transverse Cracking (Meters) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

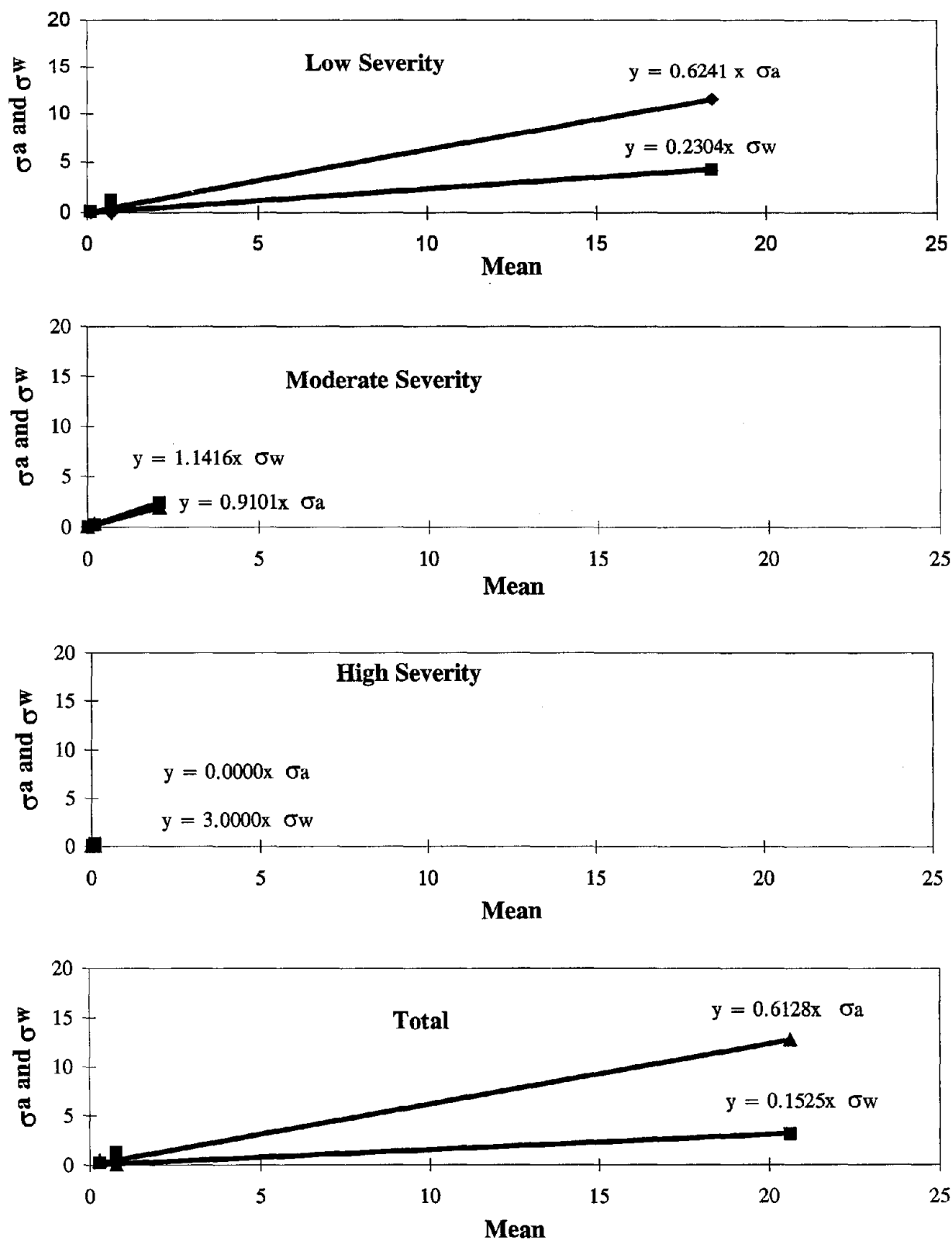


Figure 171. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

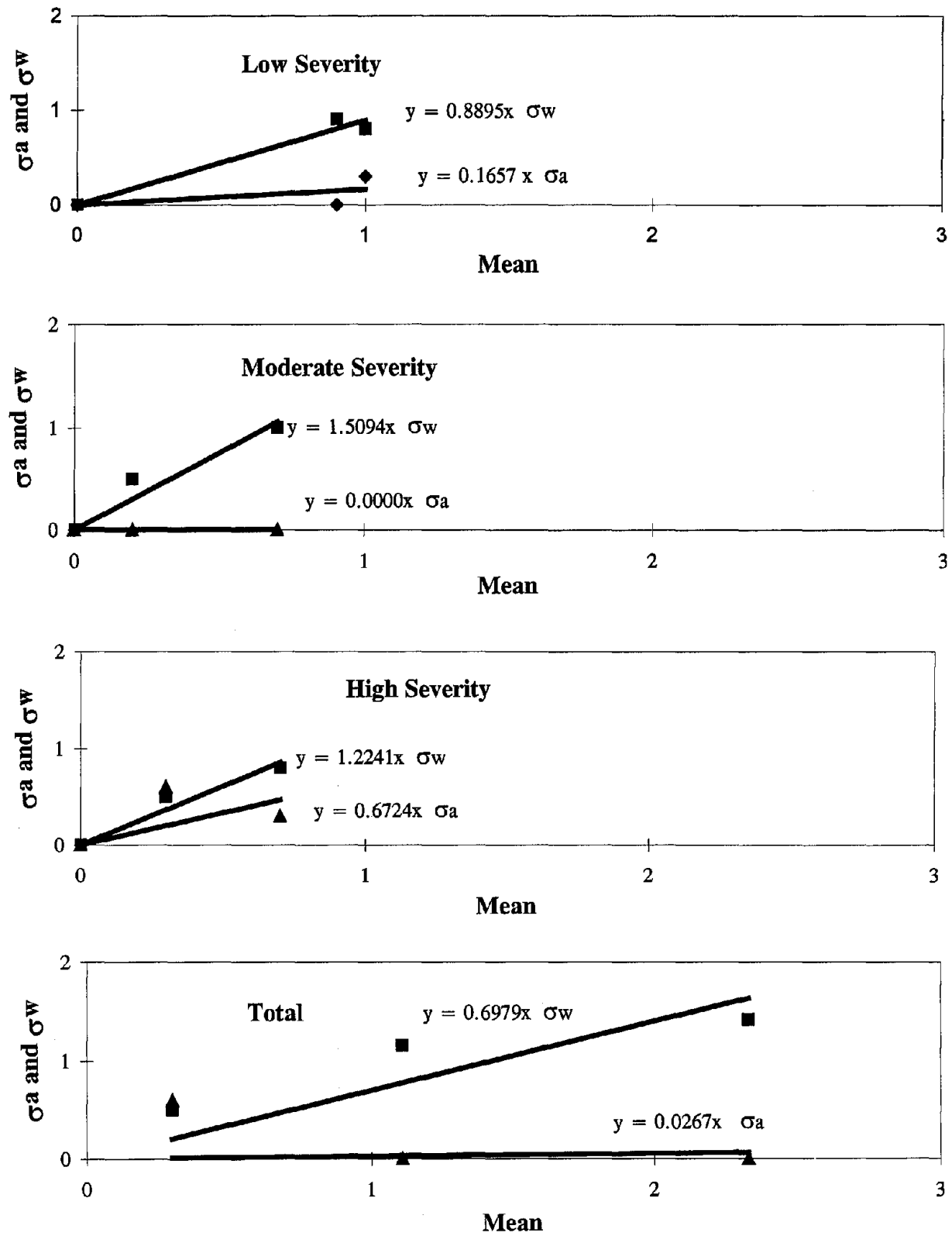


Figure 172. Spalling of Transverse Joints (No.) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

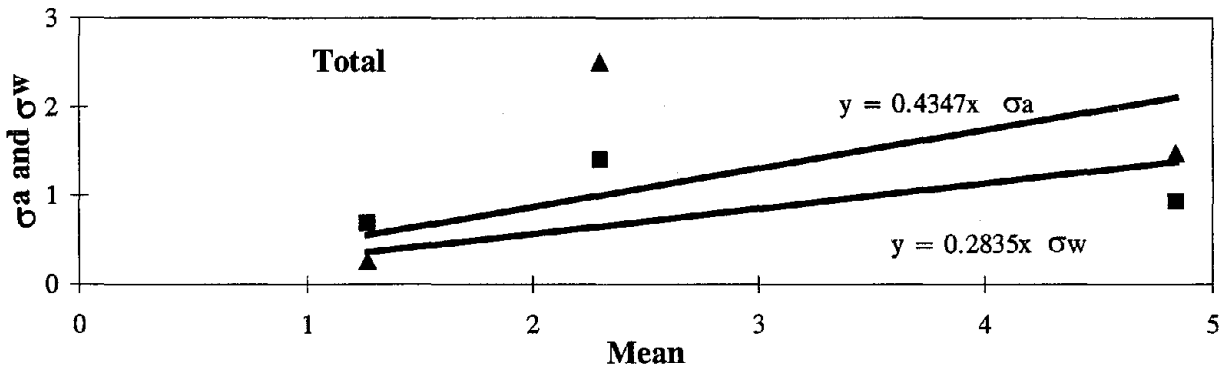
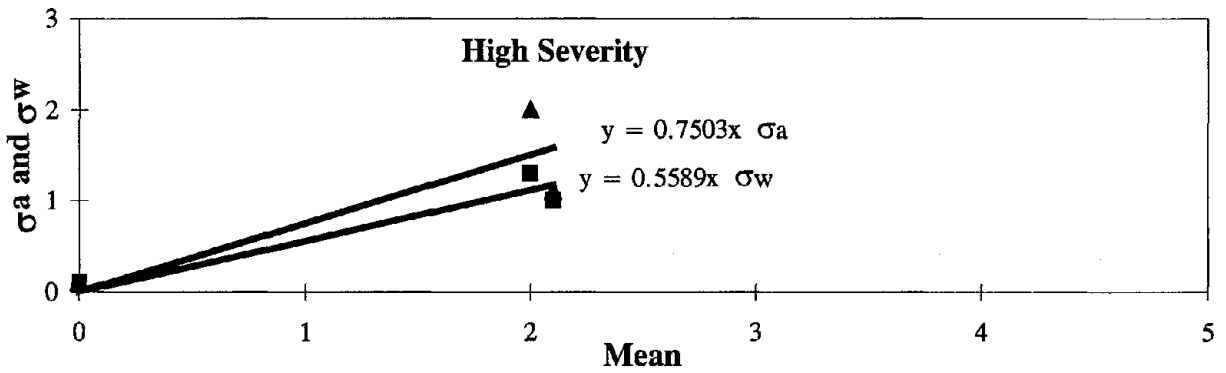
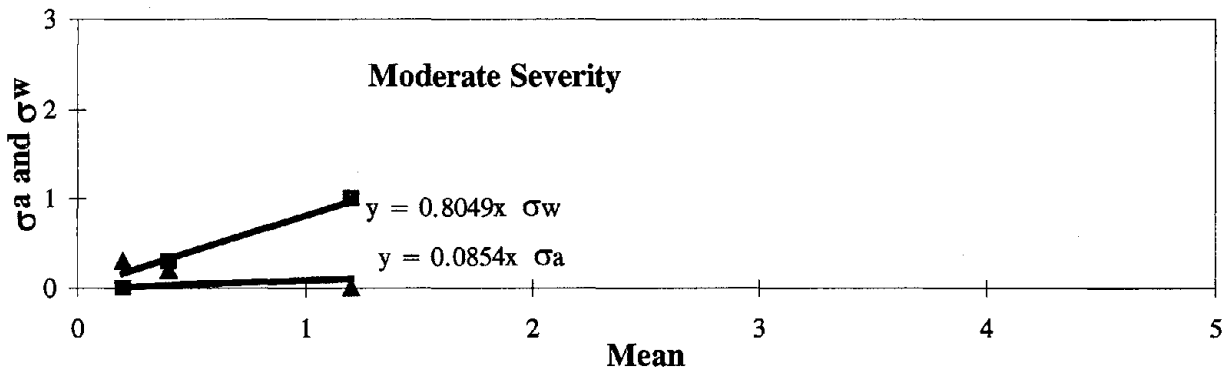
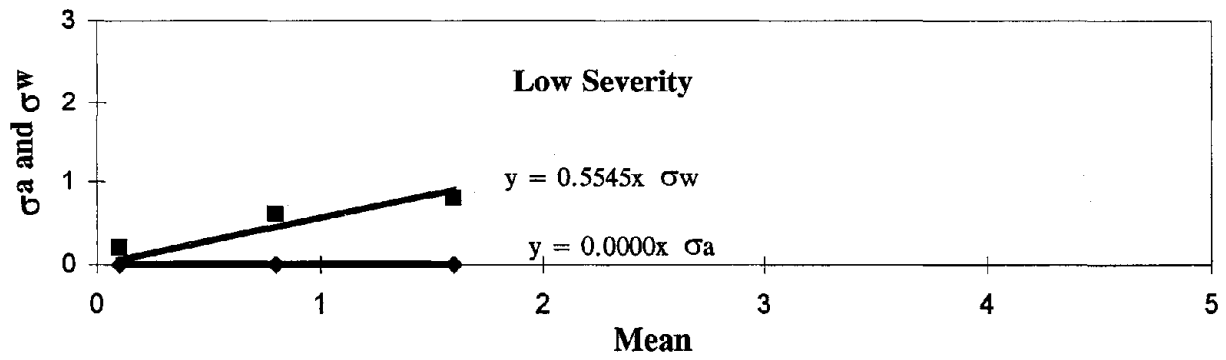


Figure 173. Spalling of Transverse Joints (Meters) - PCC Pavements, Teams, PASCO Method: σ_a and σ_w Vs. Mean.

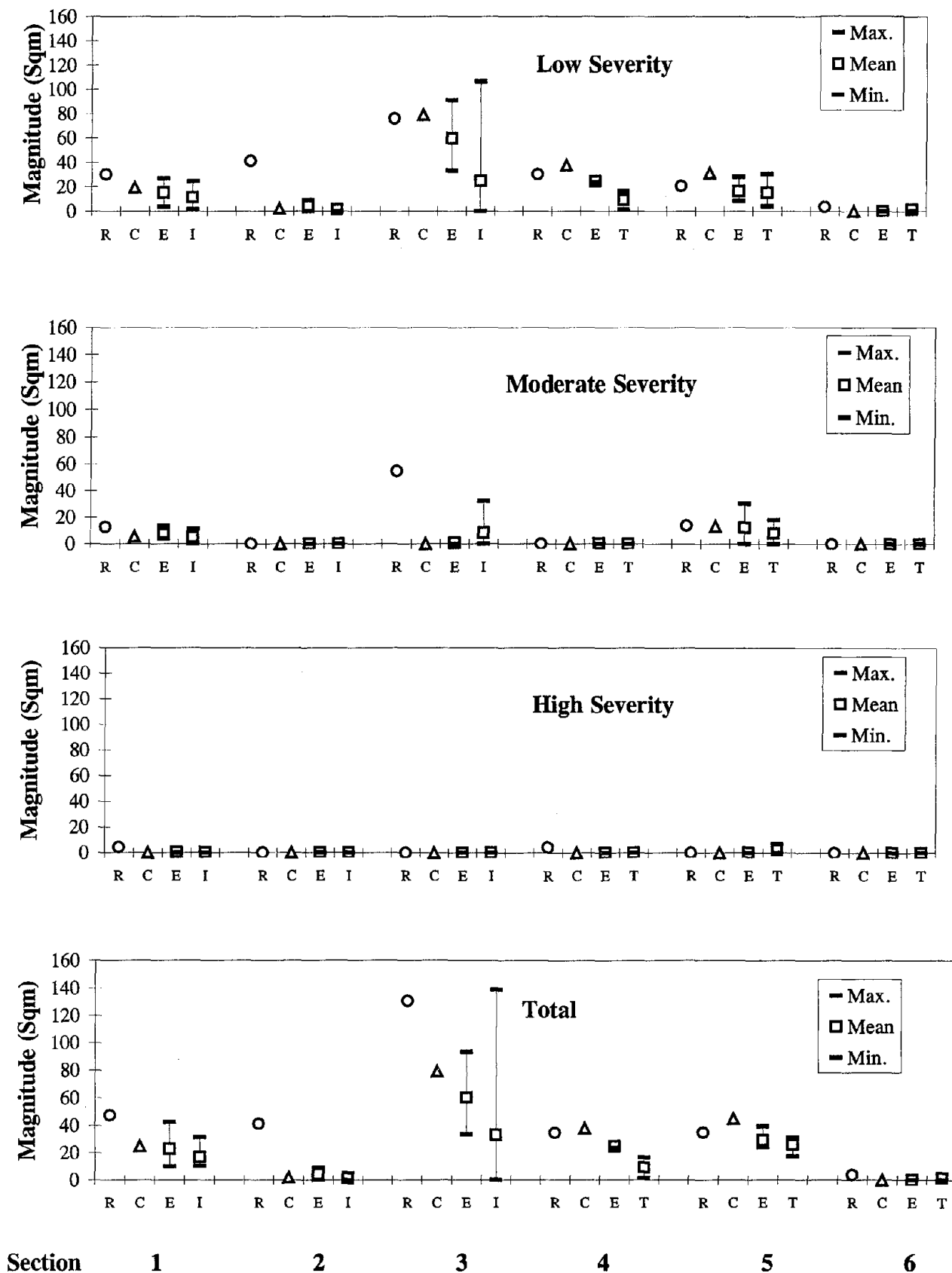
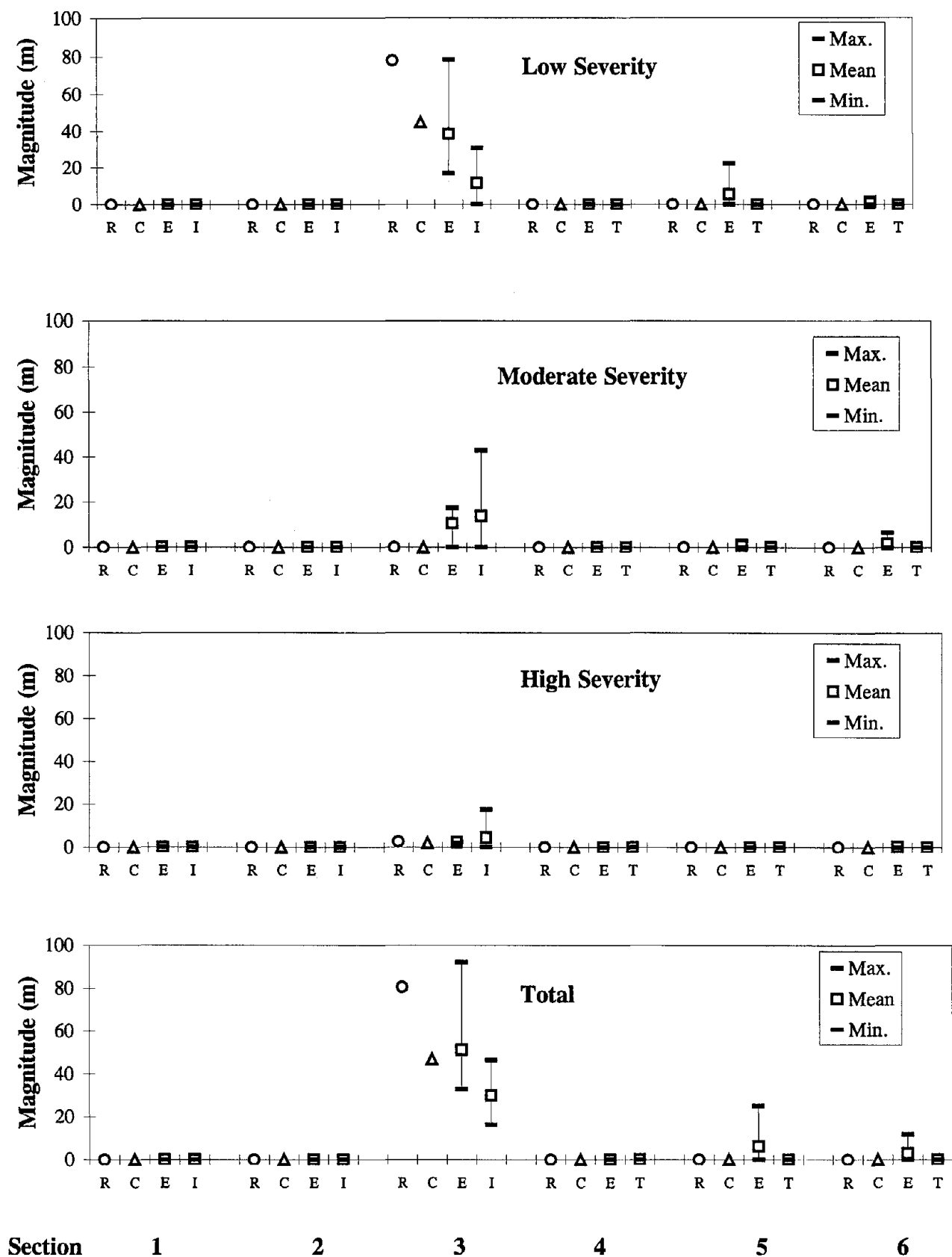
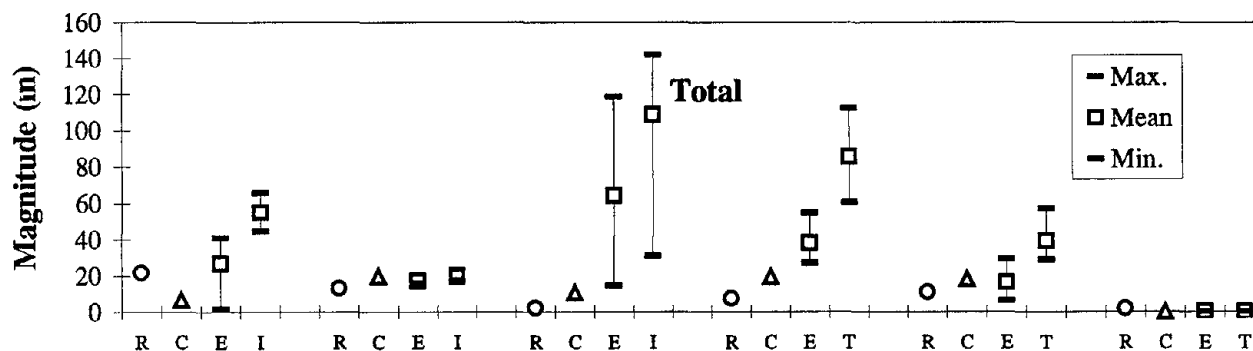
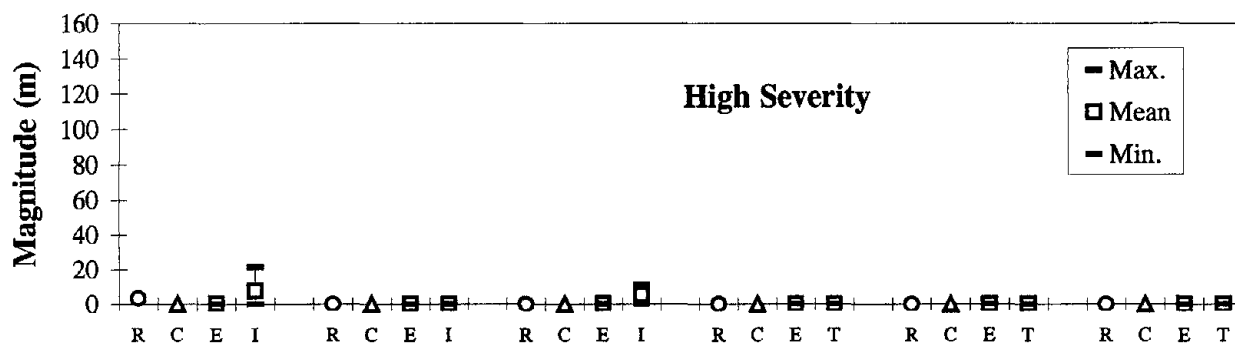
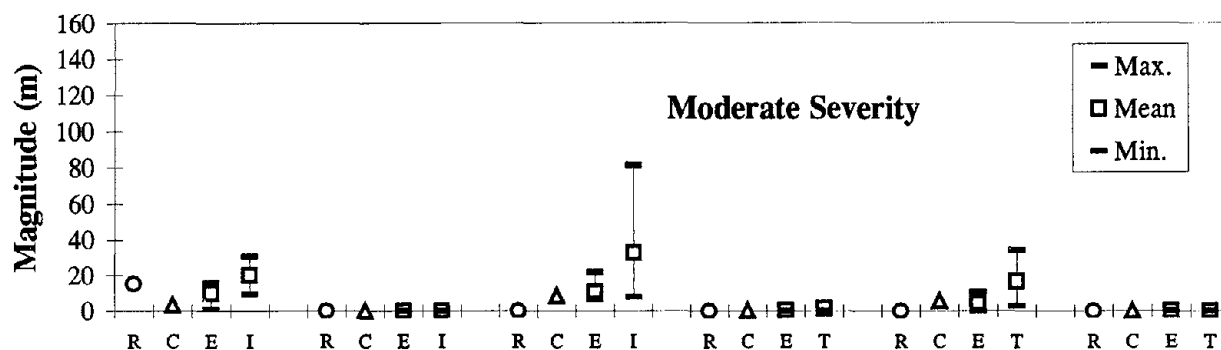
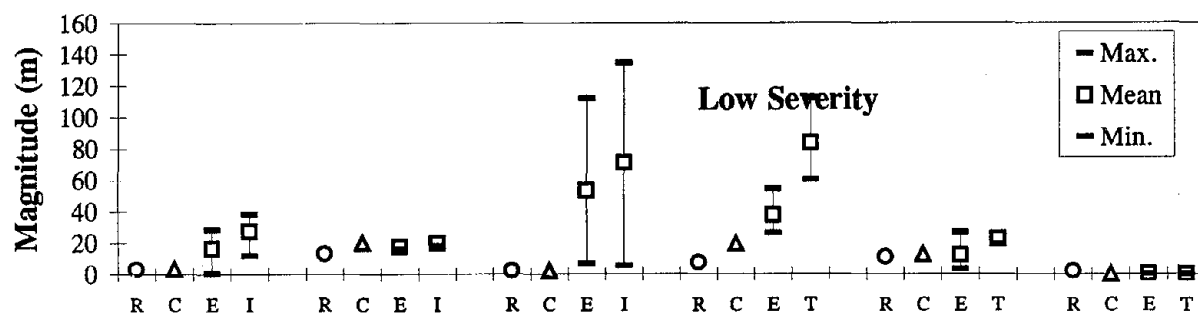


Figure 174. Fatigue Cracking (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.



**Figure 175. Edge Cracking (Meters) - AC Pavements, PASCO/PADIAS:
Reference, Consensus, Experts, Individuals, & Teams.**



Section 1 2 3 4 5 6

Figure 176. Longitudinal Cracking WP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

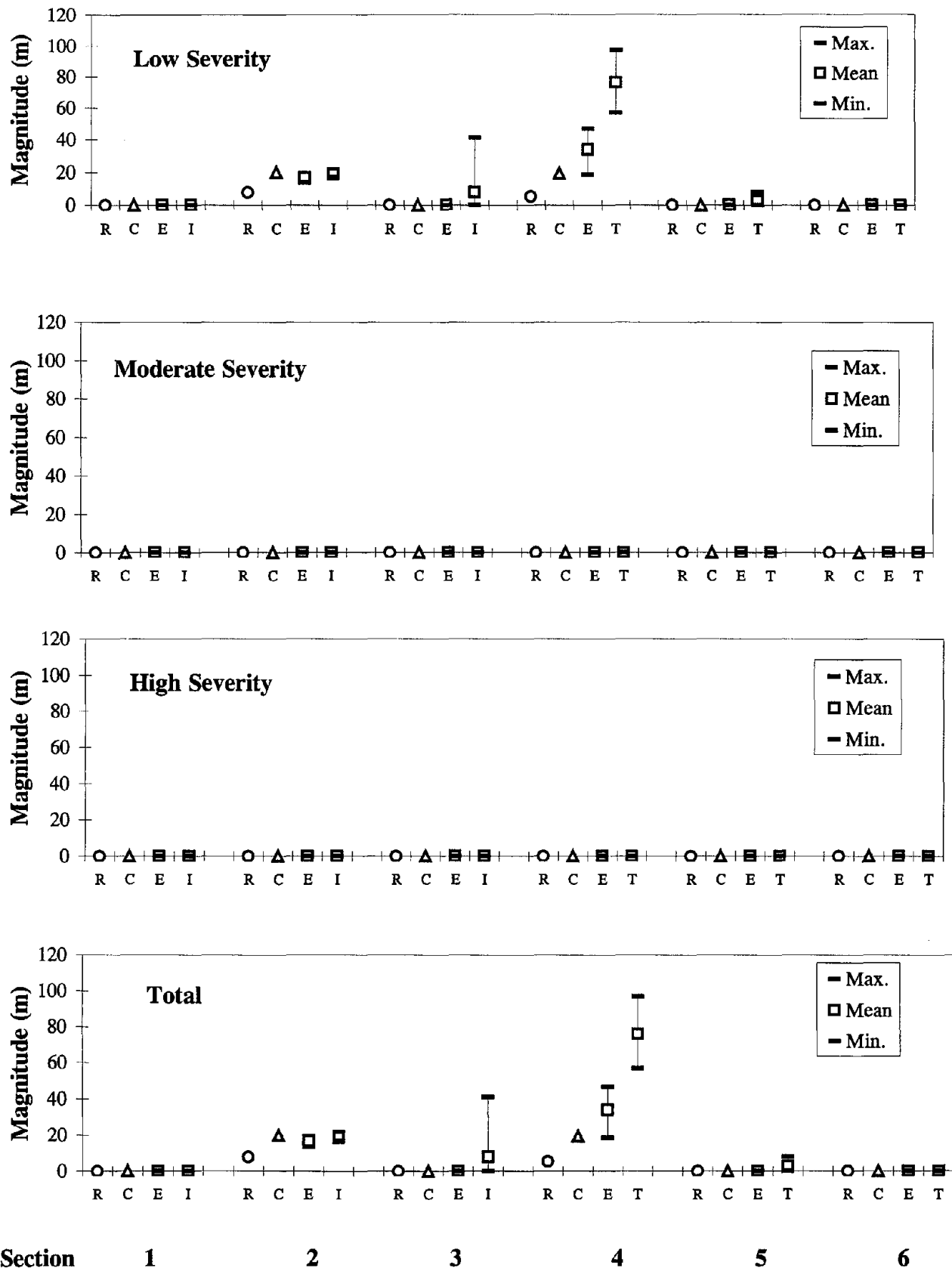
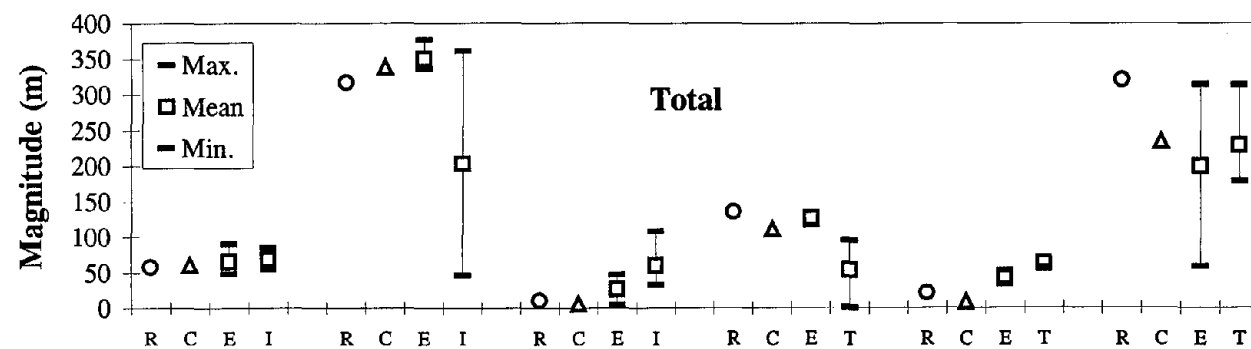
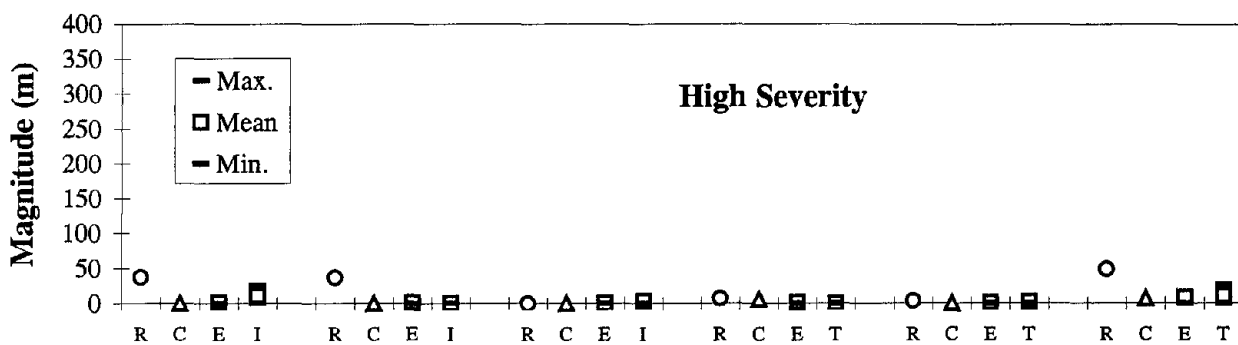
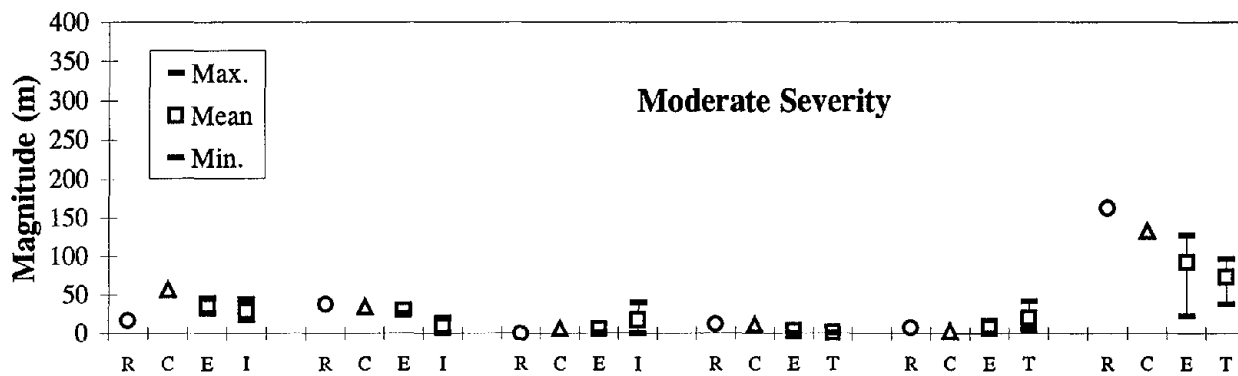
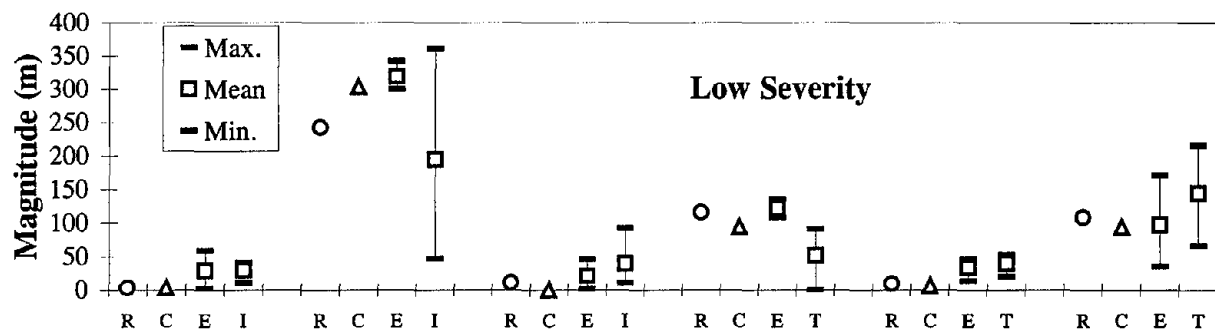


Figure 177. Longitudinal Cracking Sealed WP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.



Section

1

2

3

4

5

6

Figure 178. Longitudinal Cracking NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

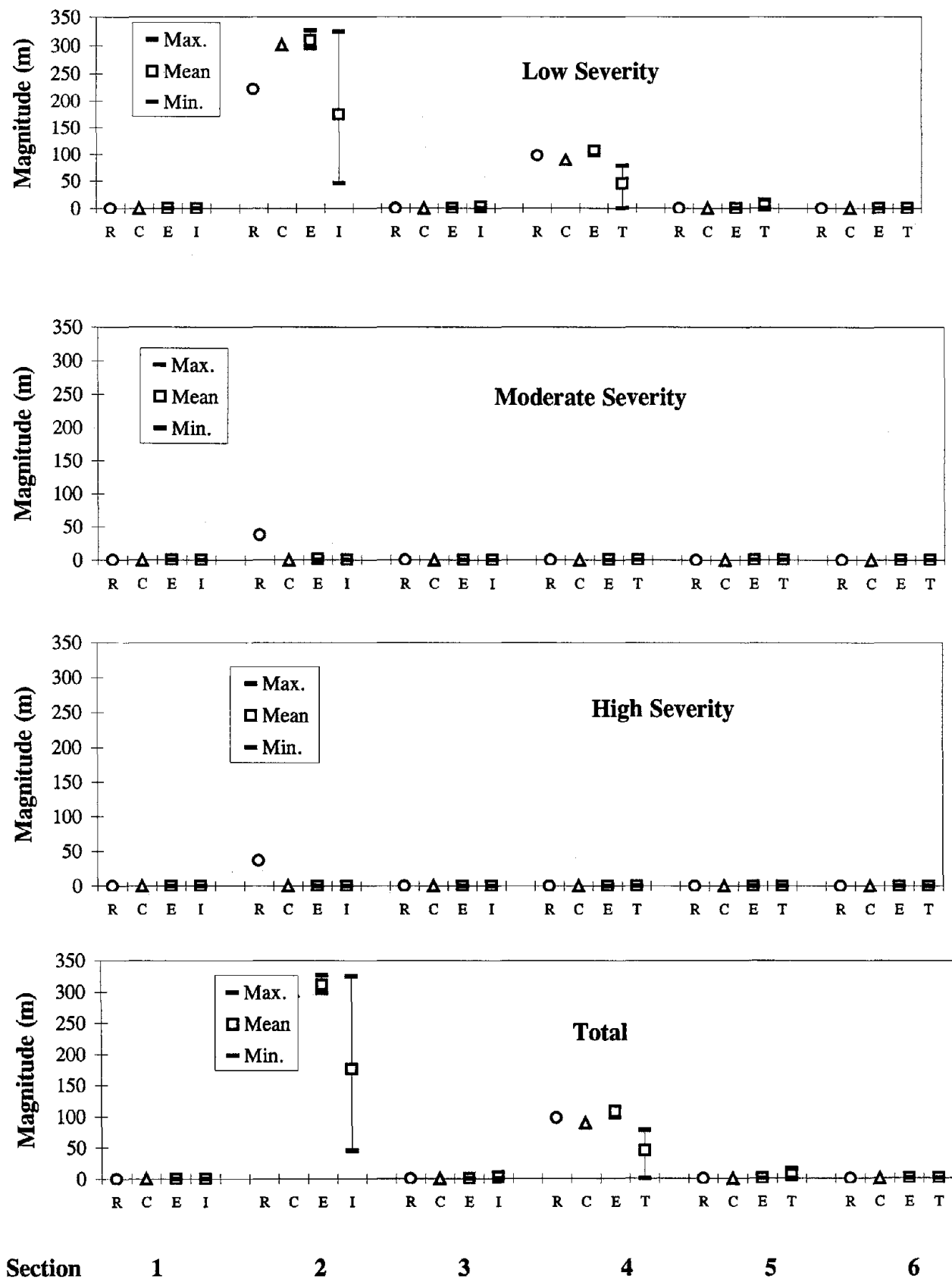


Figure 179. Longitudinal Cracking Sealed NWP (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

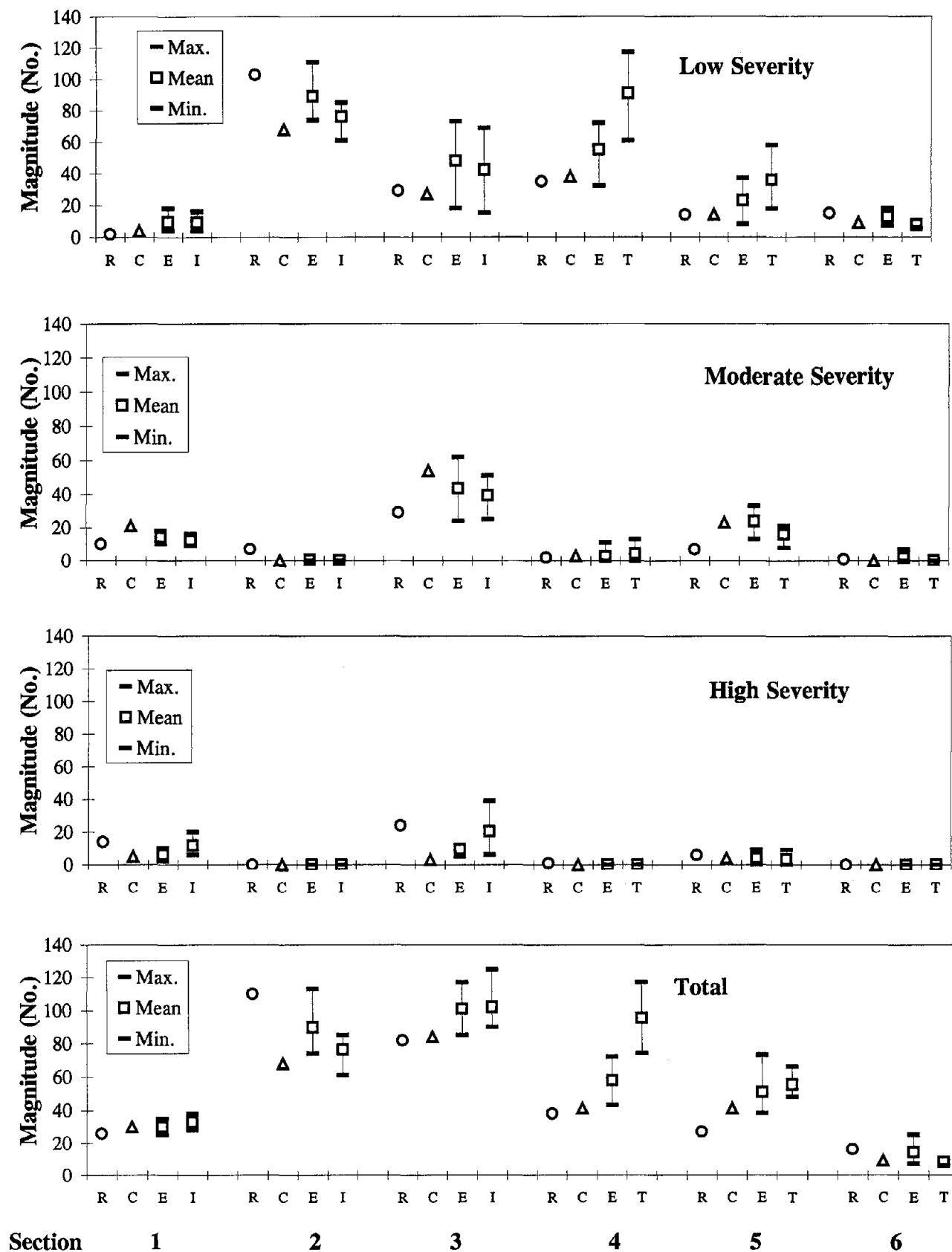


Figure 180. Transverse Cracking (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

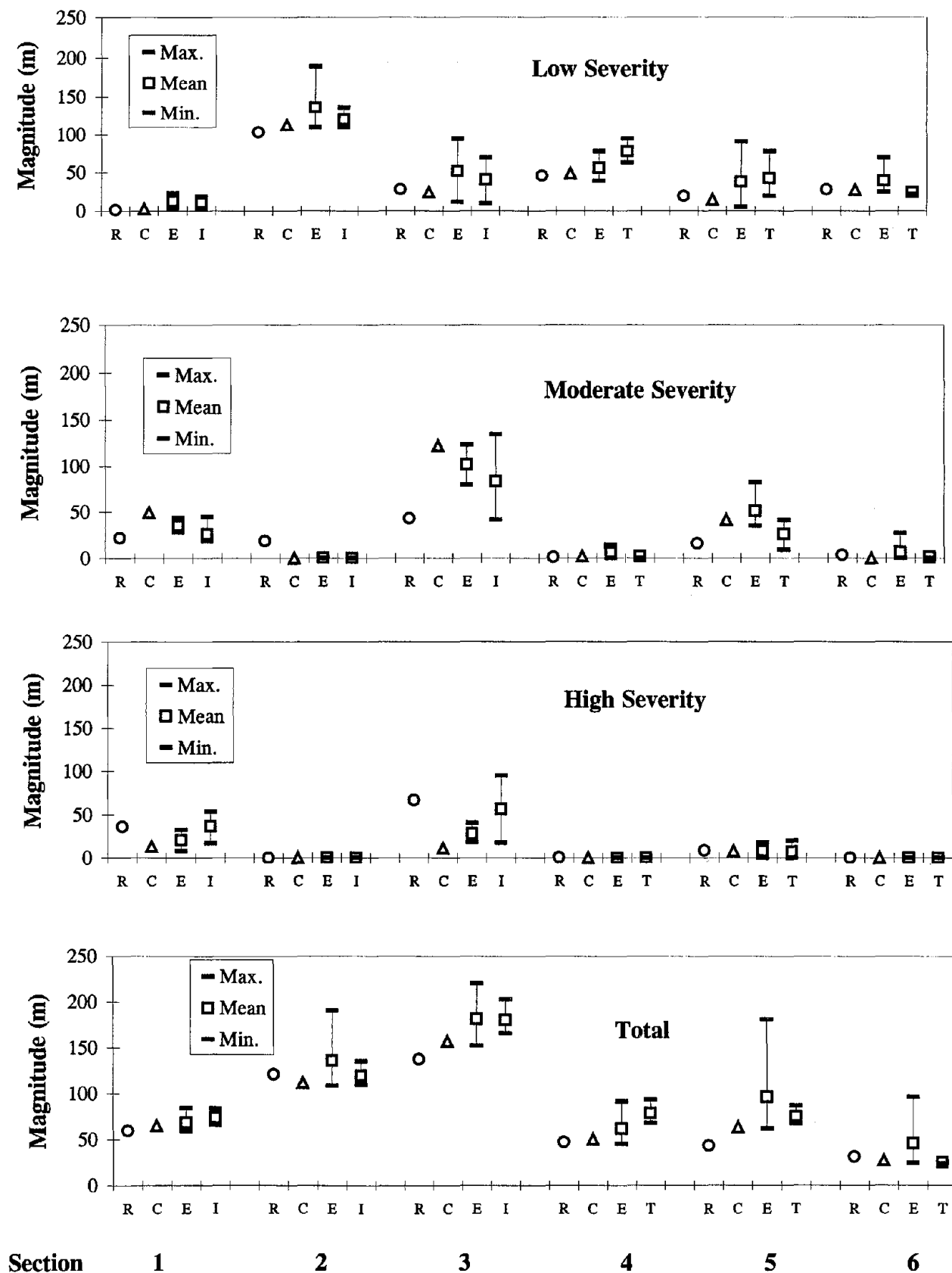


Figure 181. Transverse Cracking (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

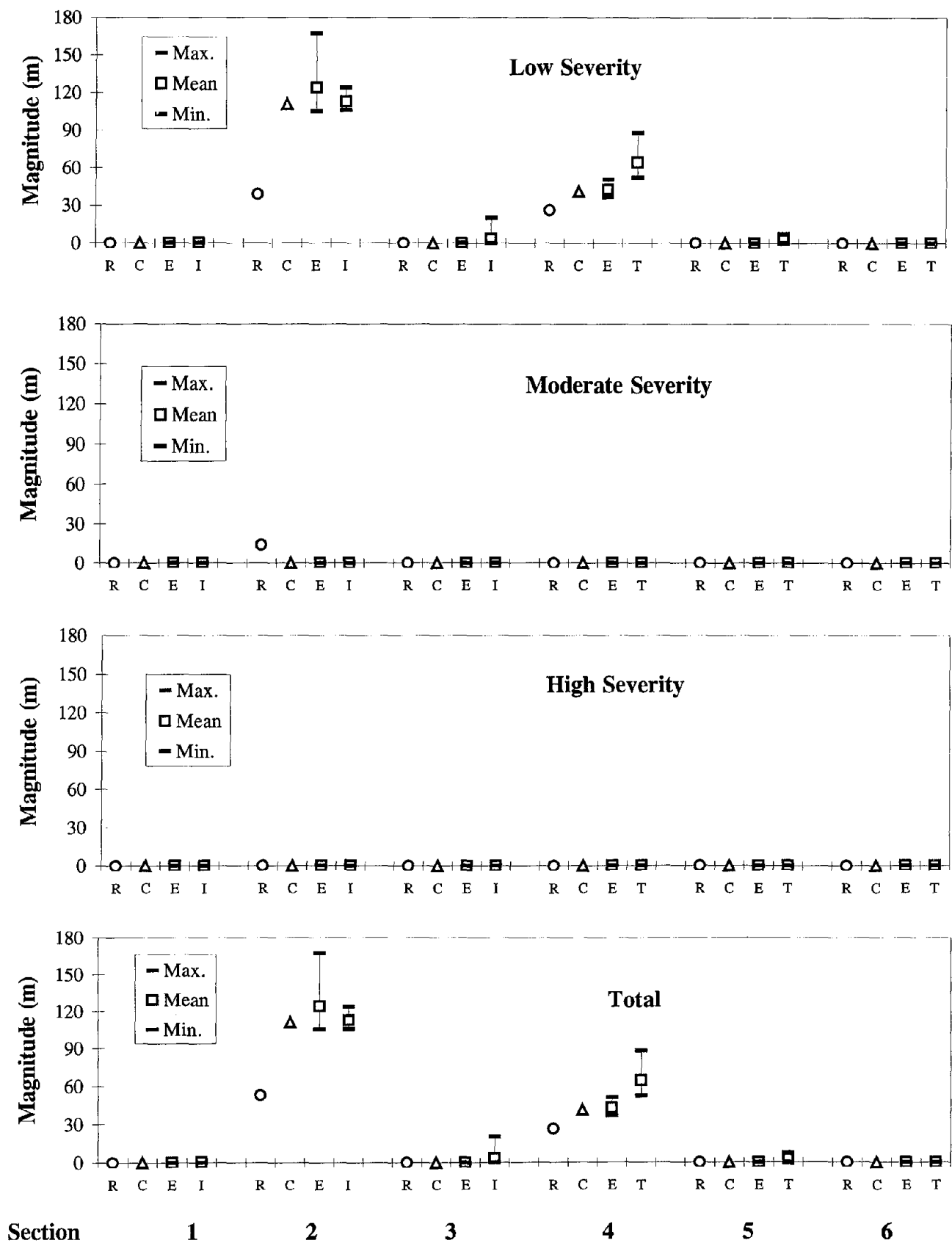


Figure 182. Transverse Cracking Sealed (Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

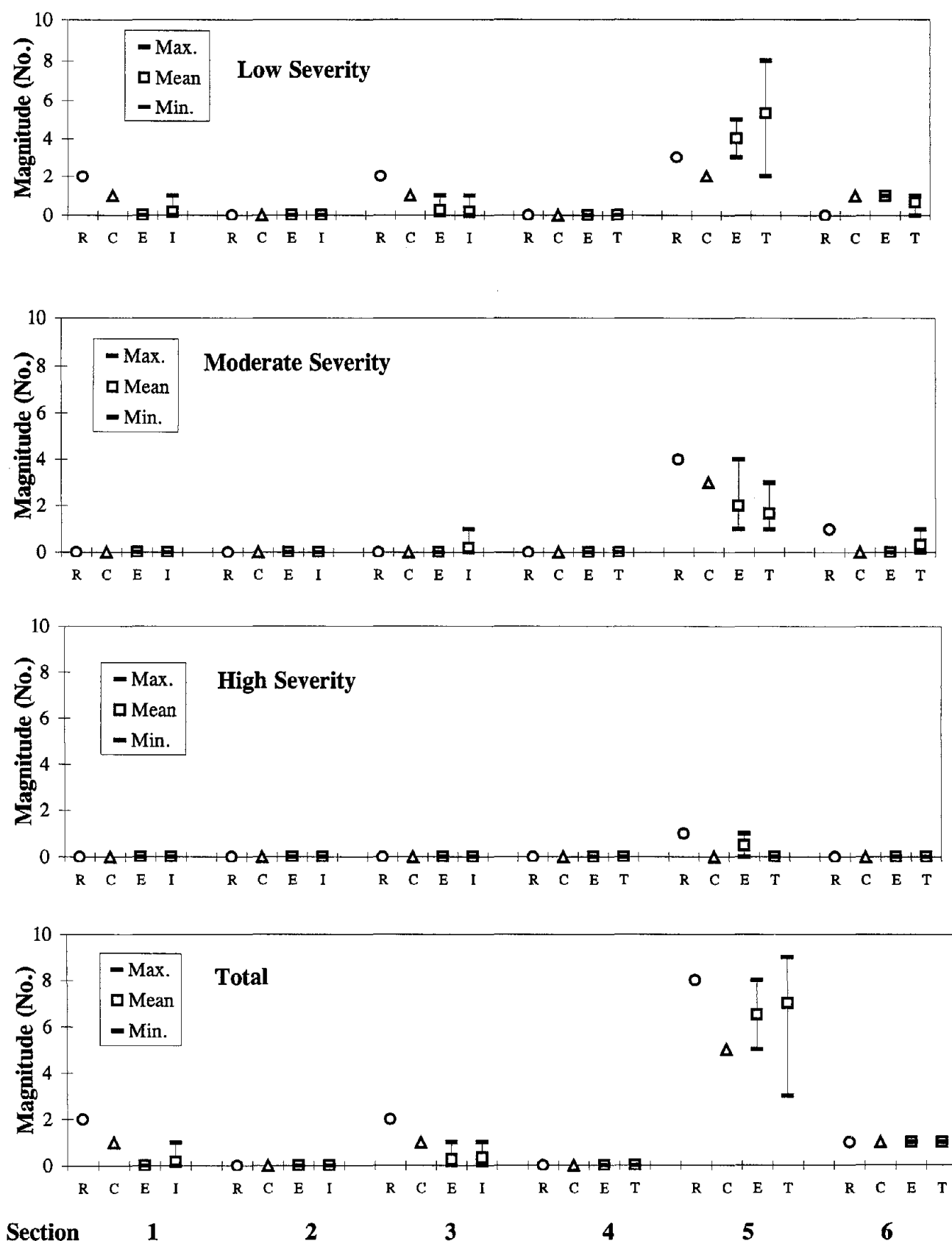


Figure 183. Patch/Patch Deterioration (No.) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

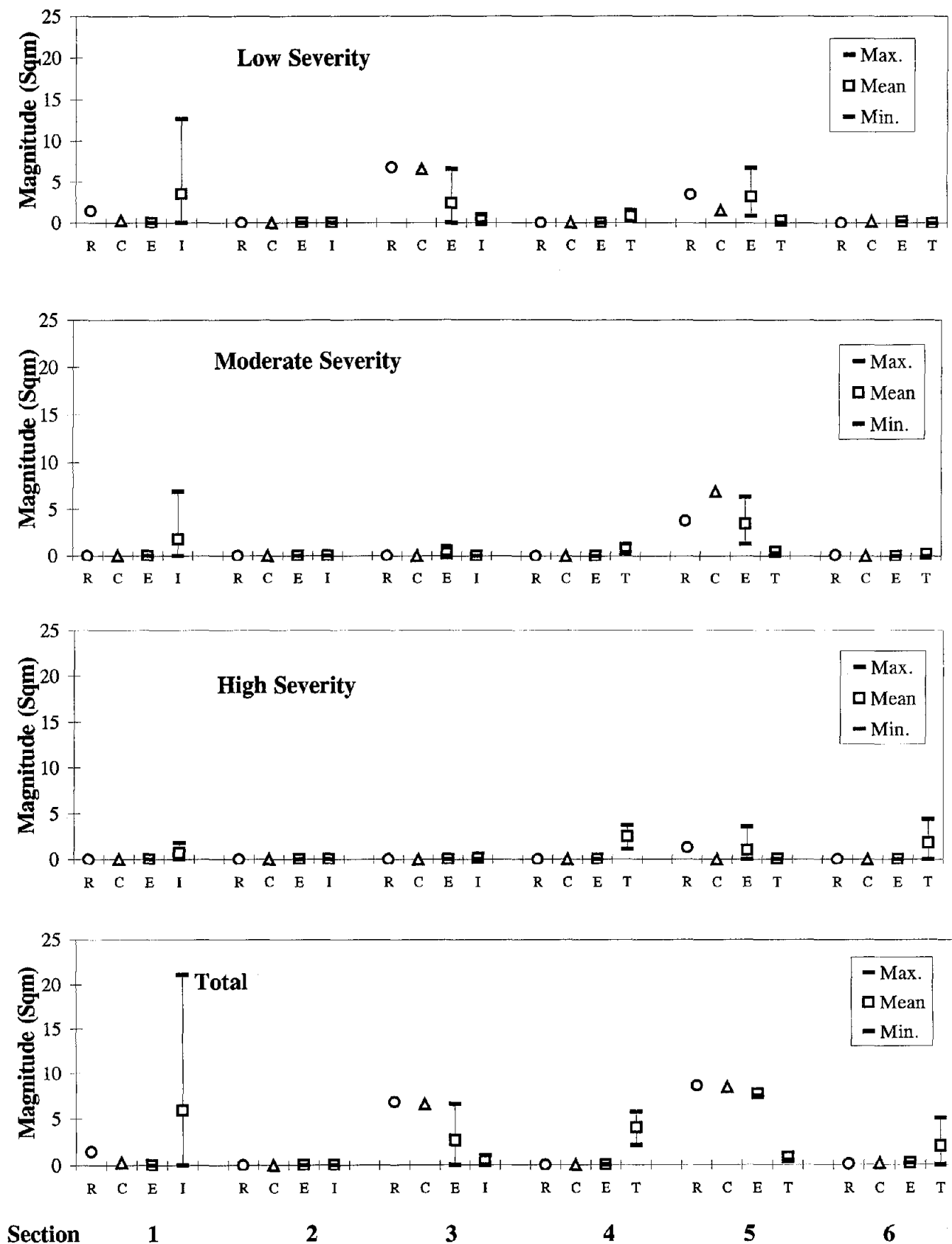
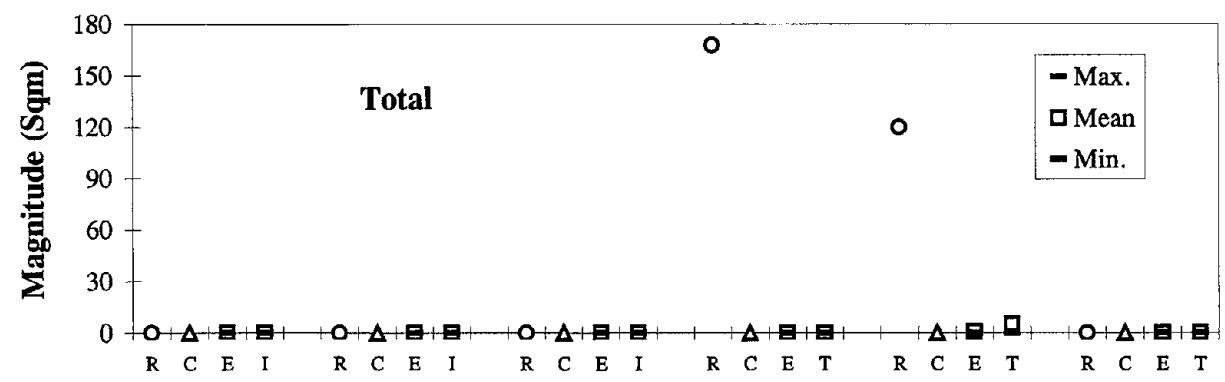
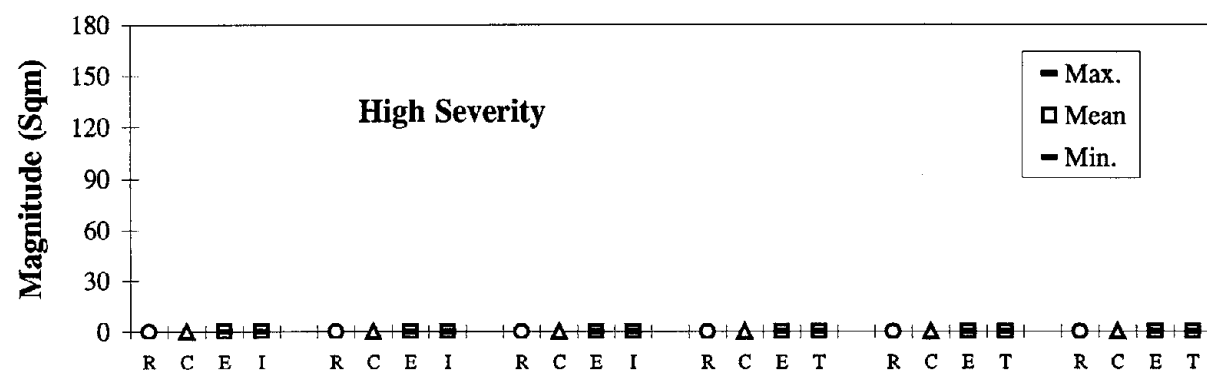
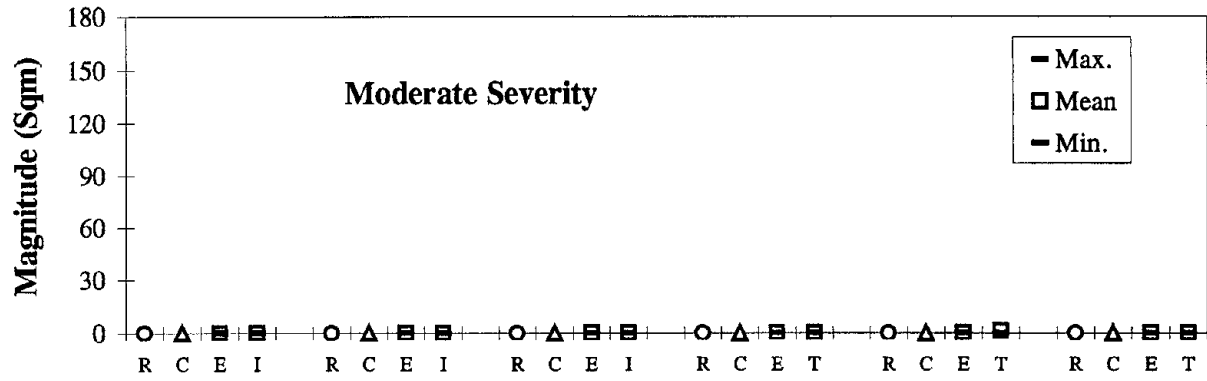
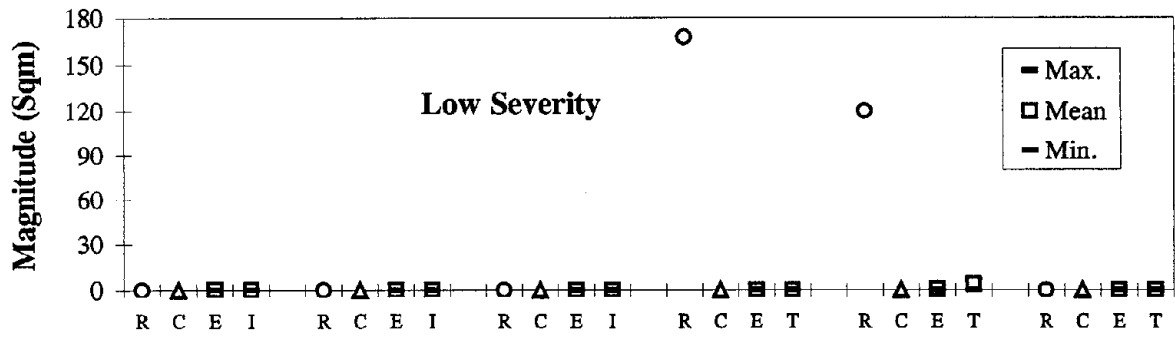


Figure 184. Patch/Patch Deterioration (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.



Section 1 2 3 4 5 6

Figure 185. Bleeding (Sq. Meters) - AC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

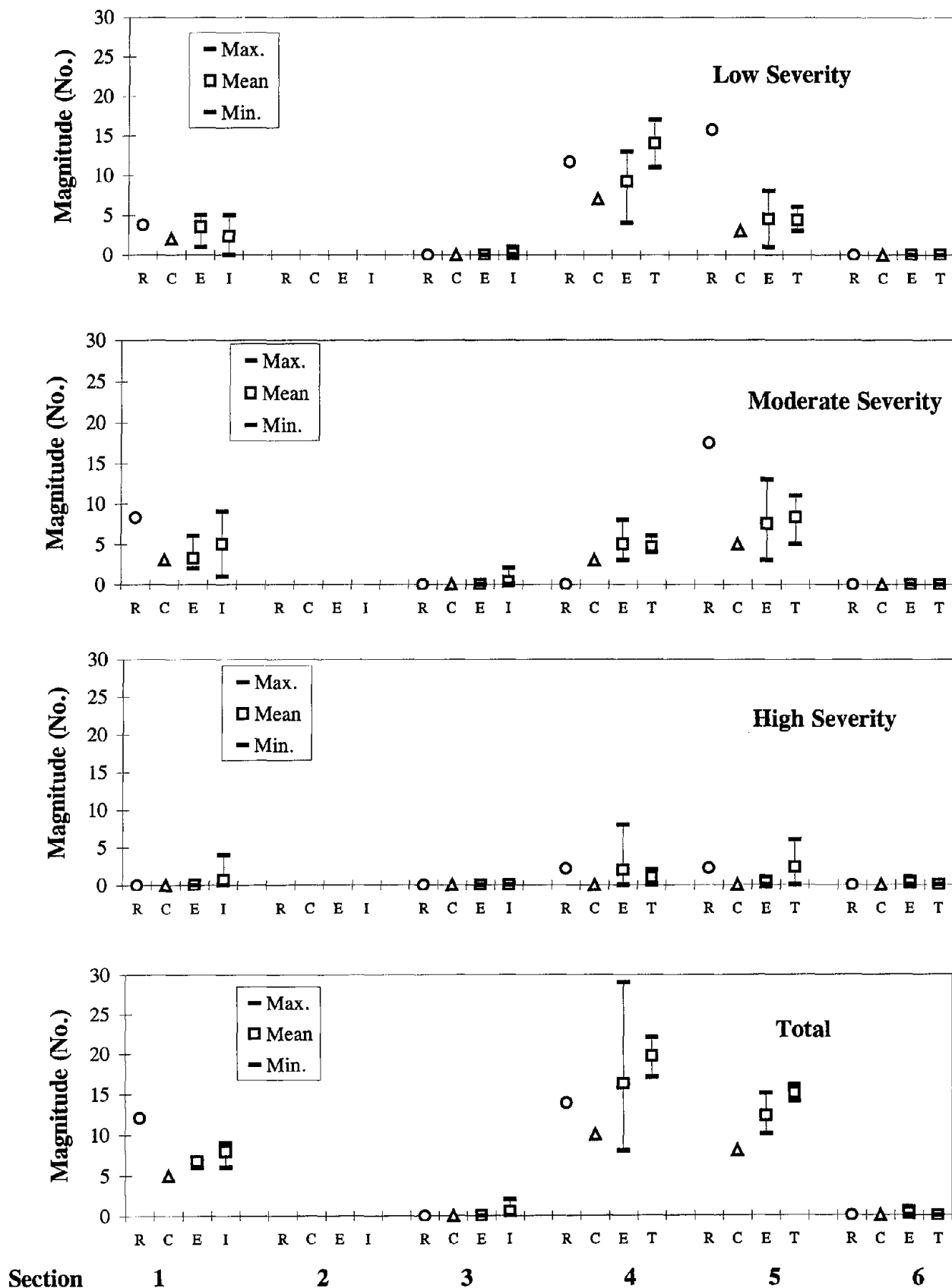


Figure 186. Corner Breaks (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

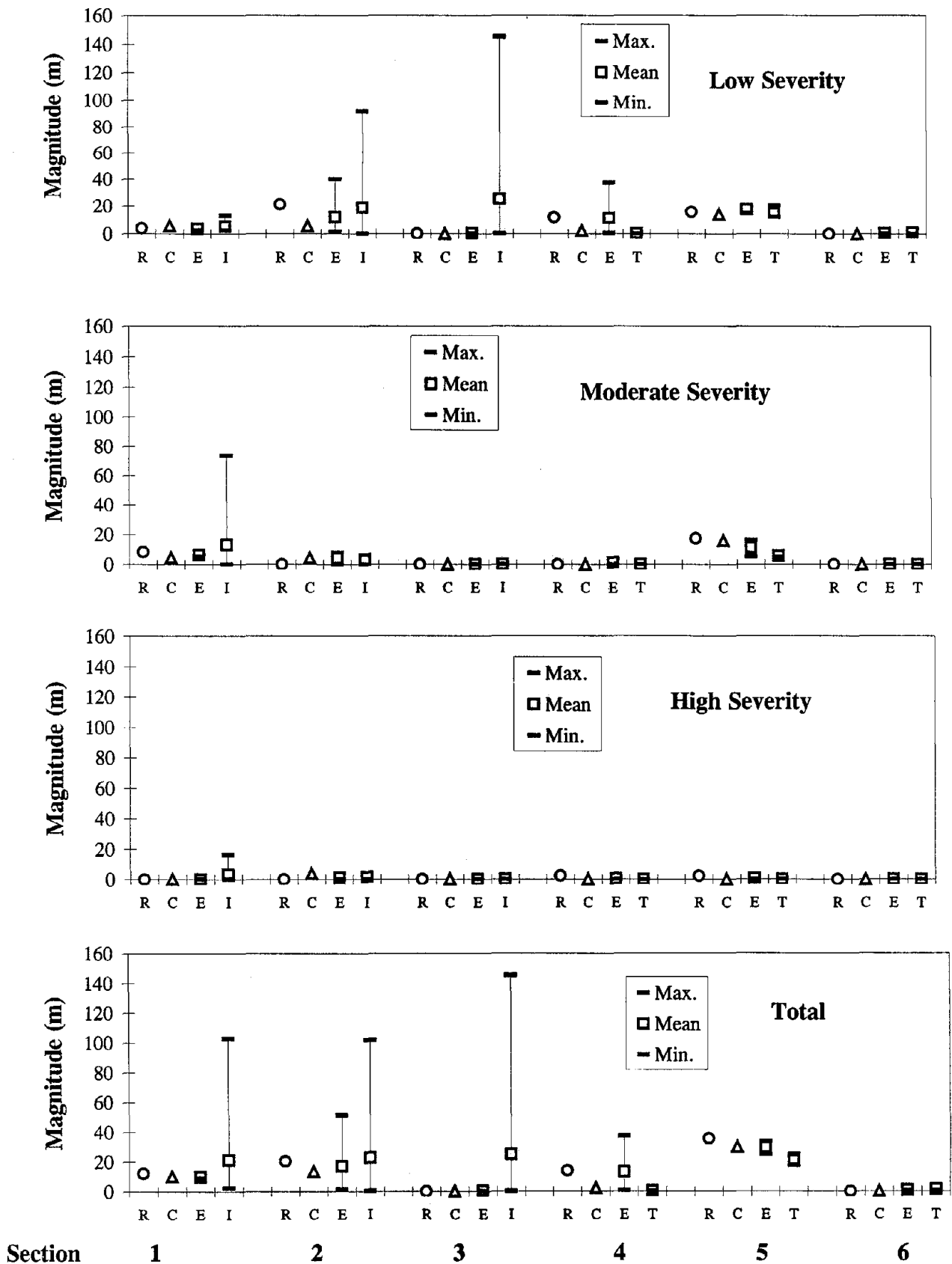


Figure 187. Longitudinal Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

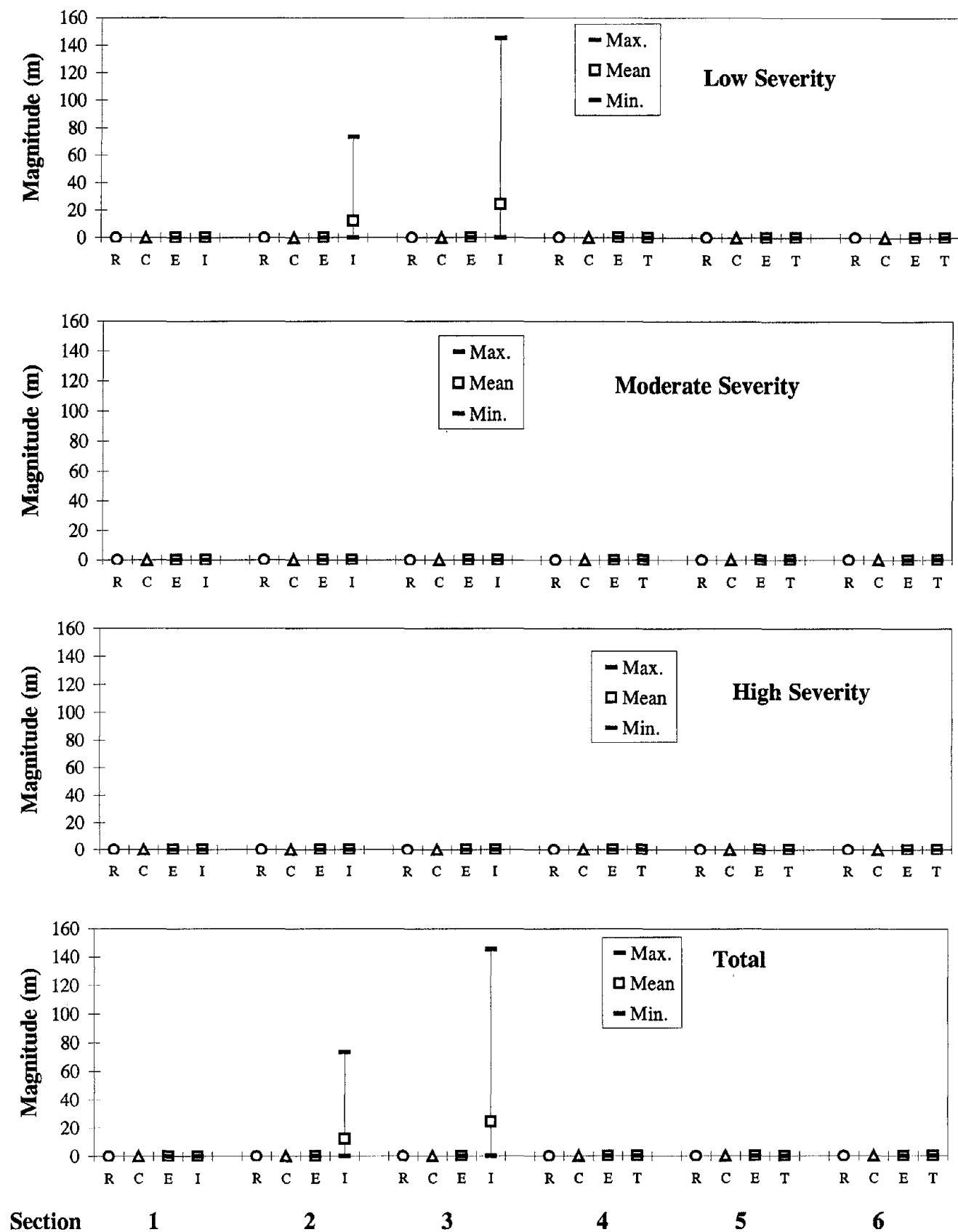


Figure 188. Longitudinal Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

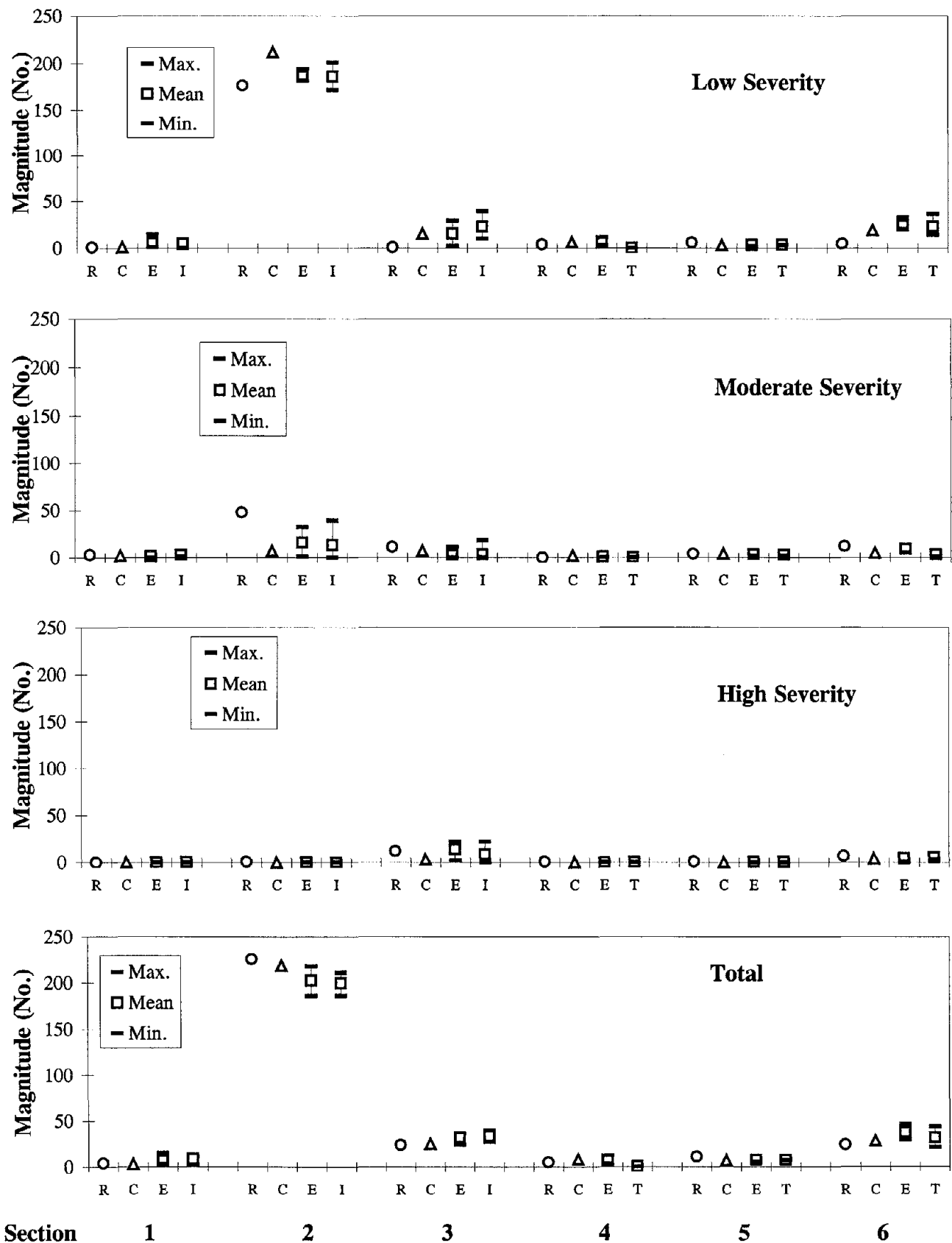


Figure 189. Transverse Cracking (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

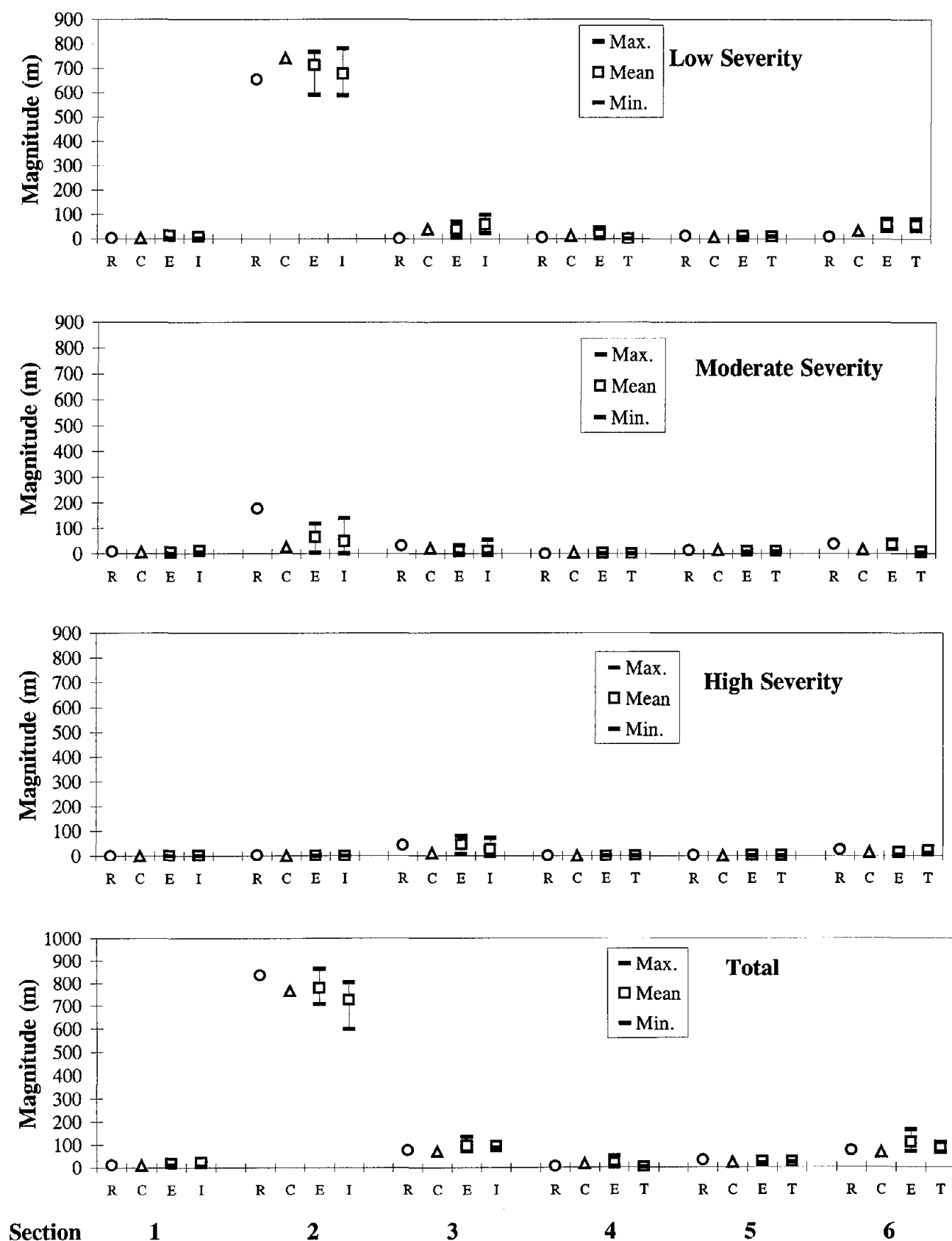


Figure 190. Transverse Cracking (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

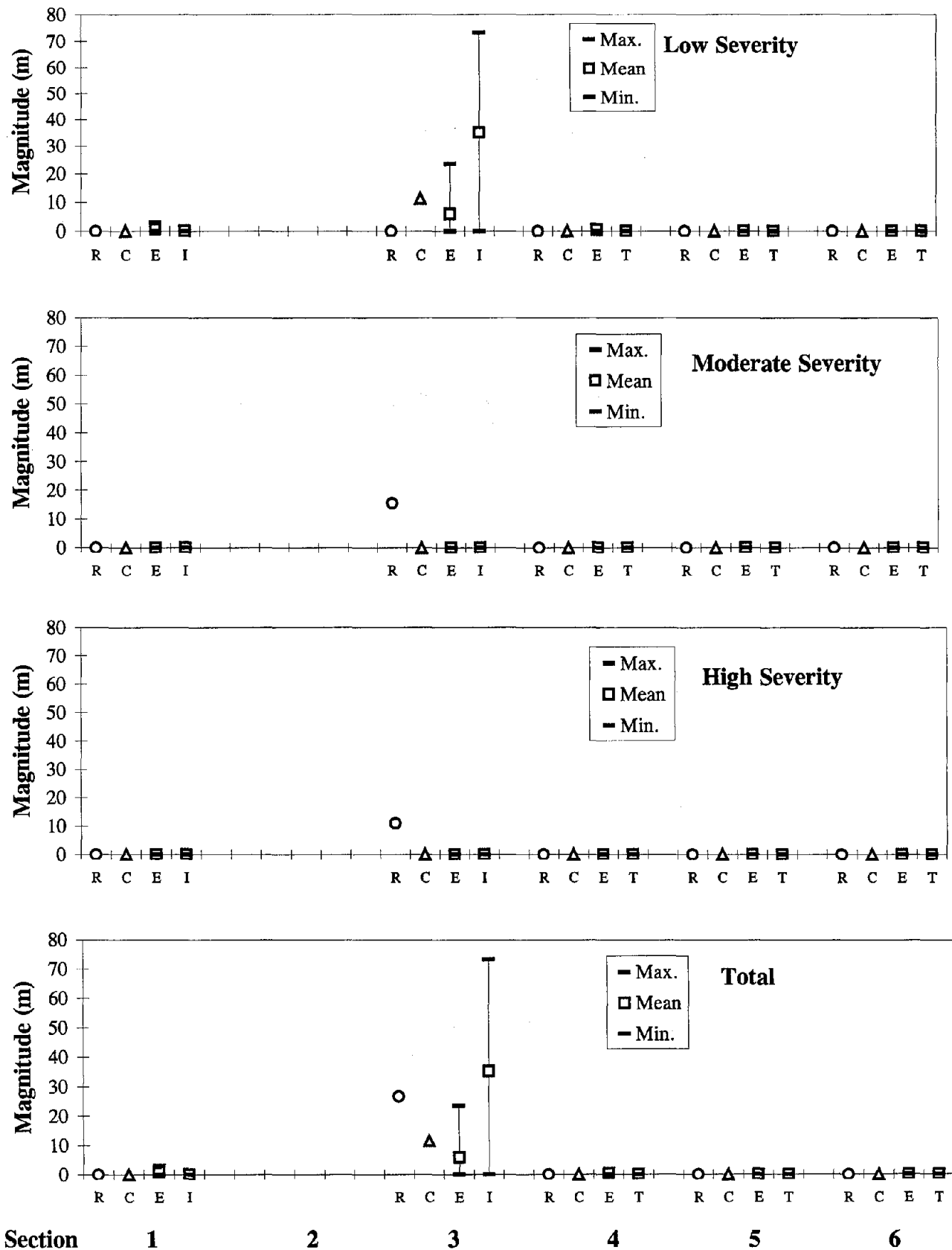


Figure 191. Transverse Cracking Sealed (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

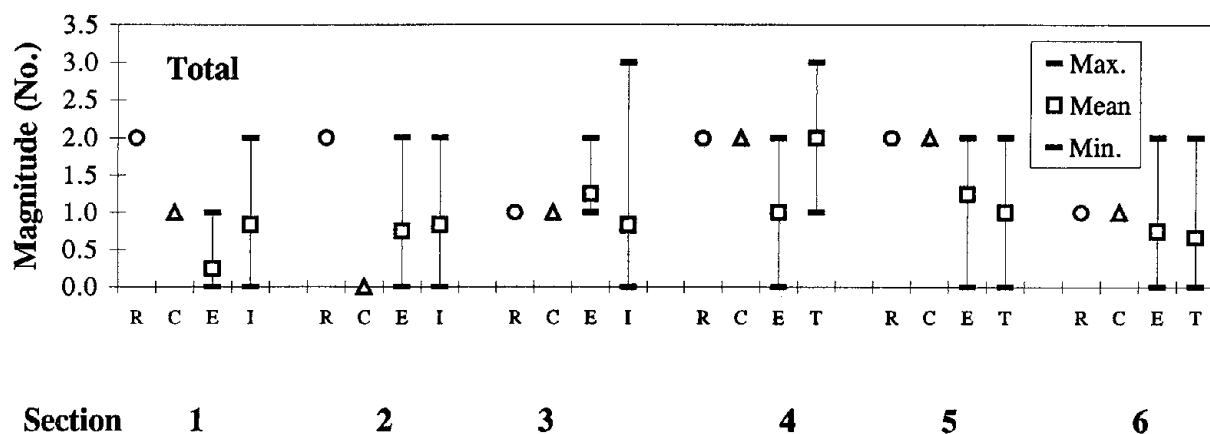


Figure 192. Joint Seal Damage of Longitudinal Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

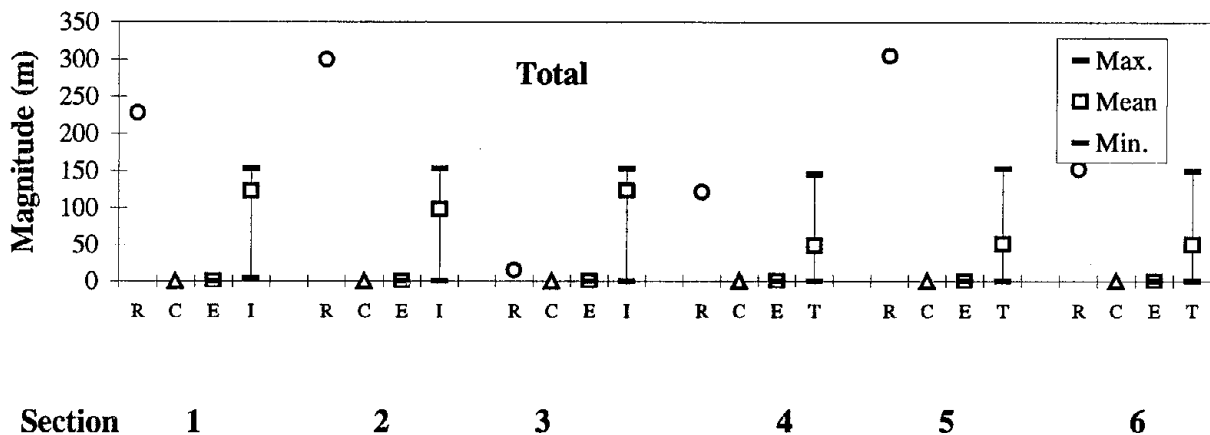


Figure 193. Joint Seal Damage of Longitudinal Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

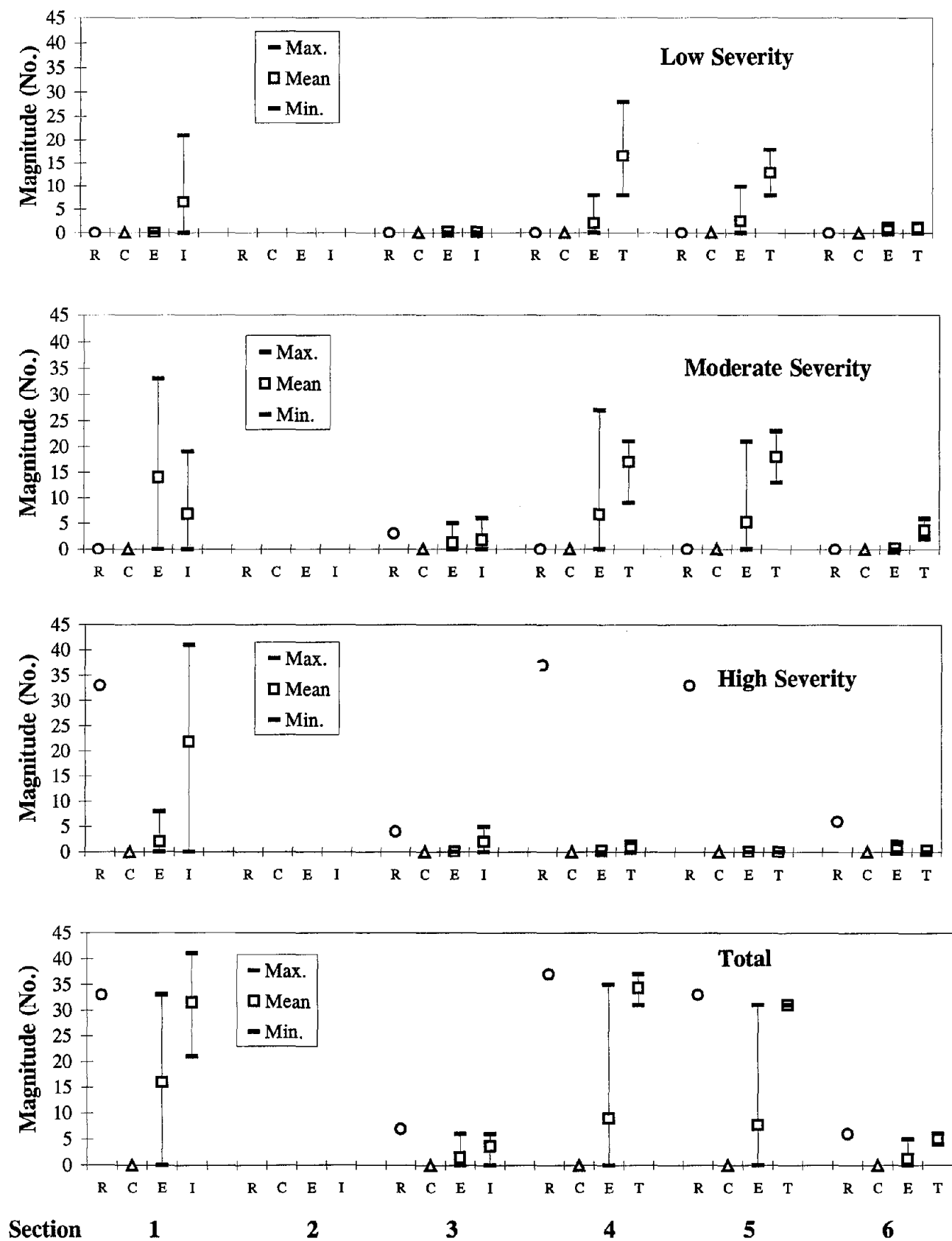


Figure 194. Joint Seal Damage of Transverse Joints (No.) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

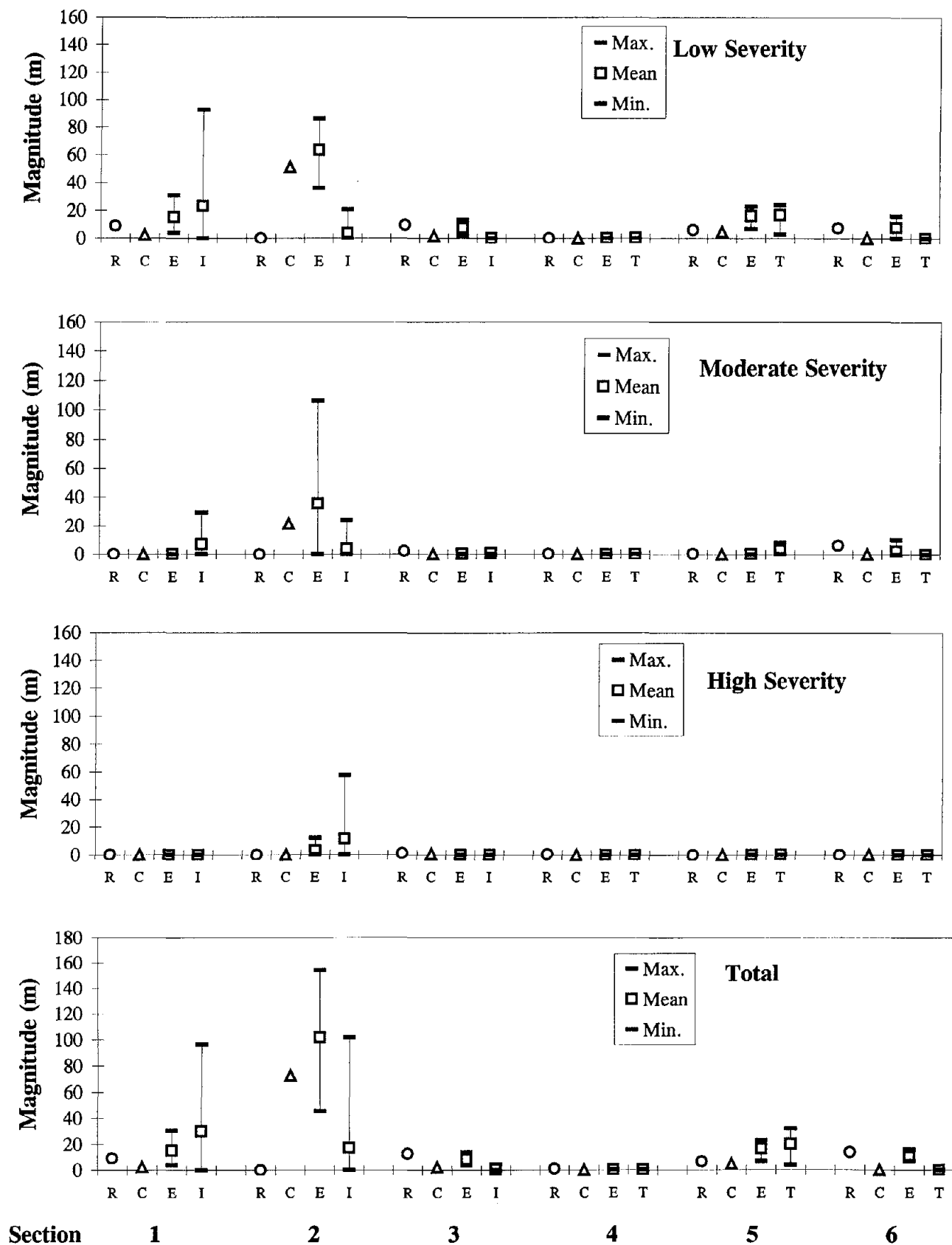


Figure 195. Spalling of Longitudinal Joints (meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

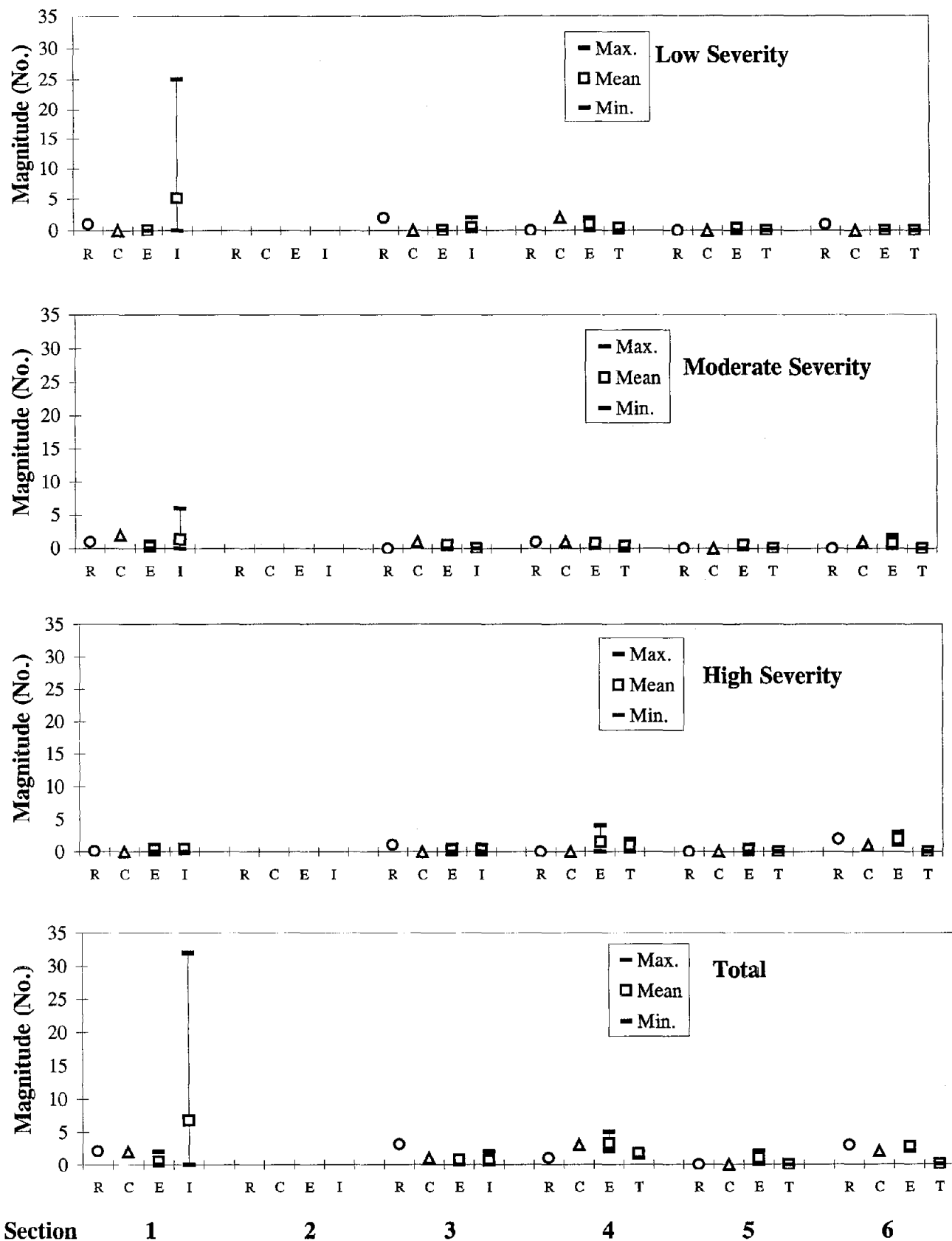


Figure 196. Spalling of Transverse Joints (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

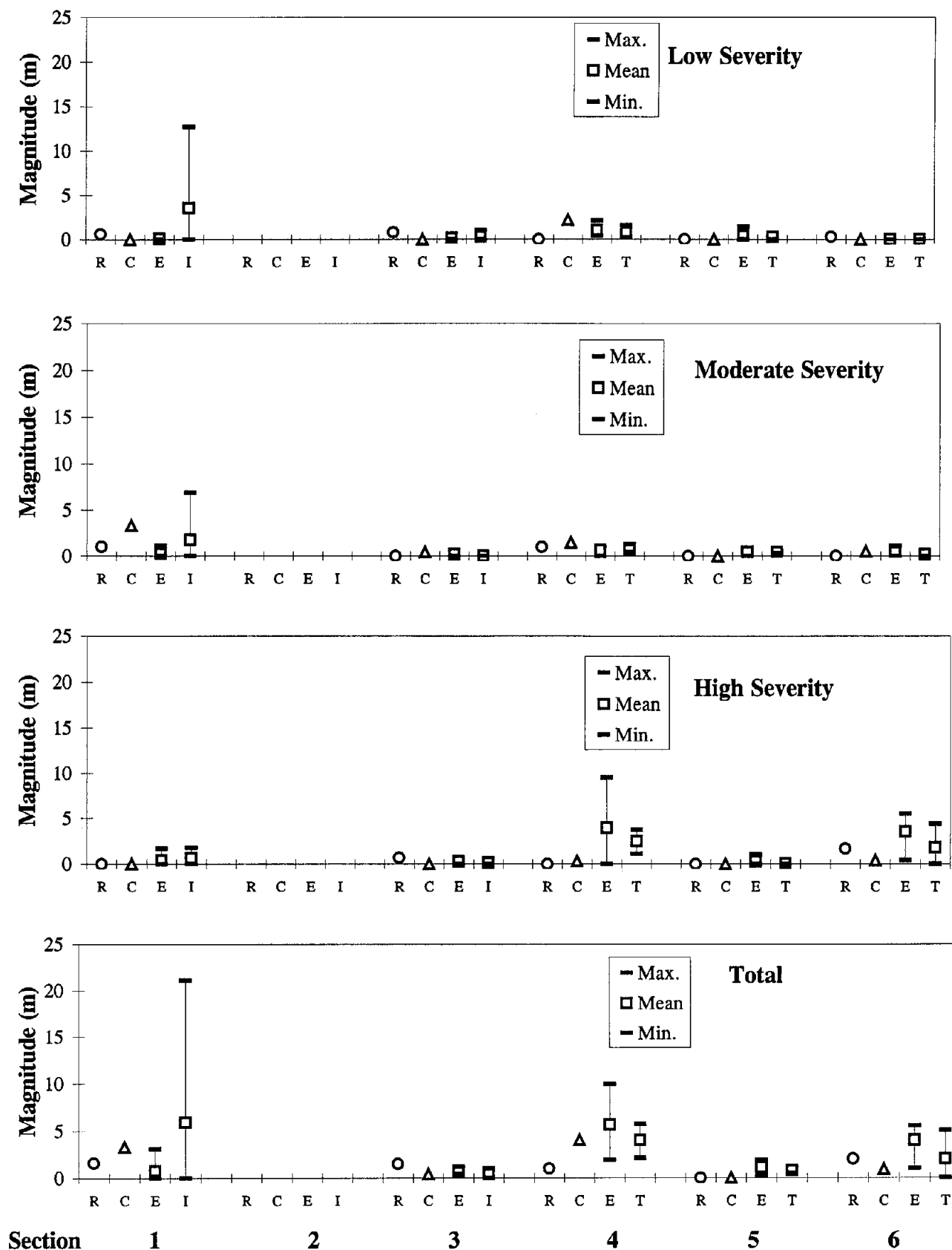


Figure 197. Spalling of Transverse Joints (Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

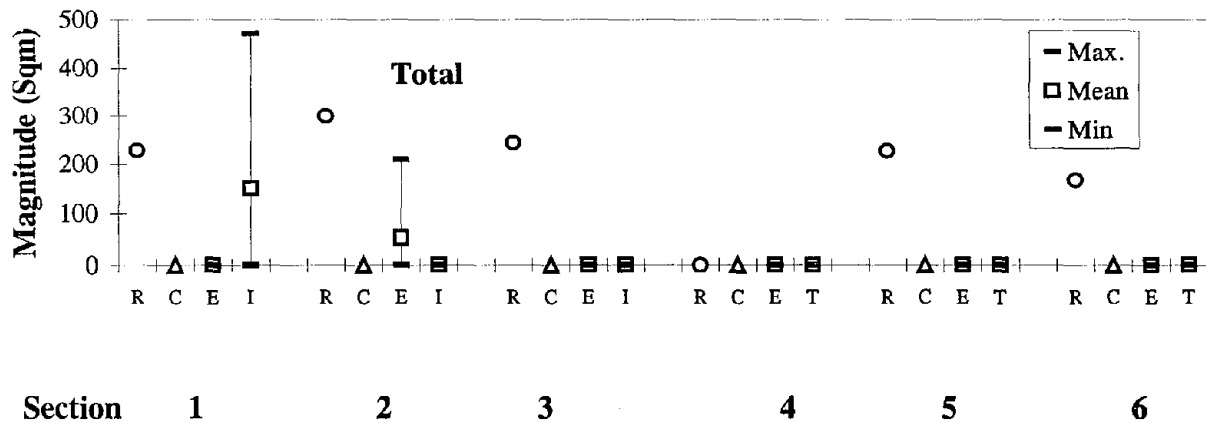


Figure 198. Polished Aggregate (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

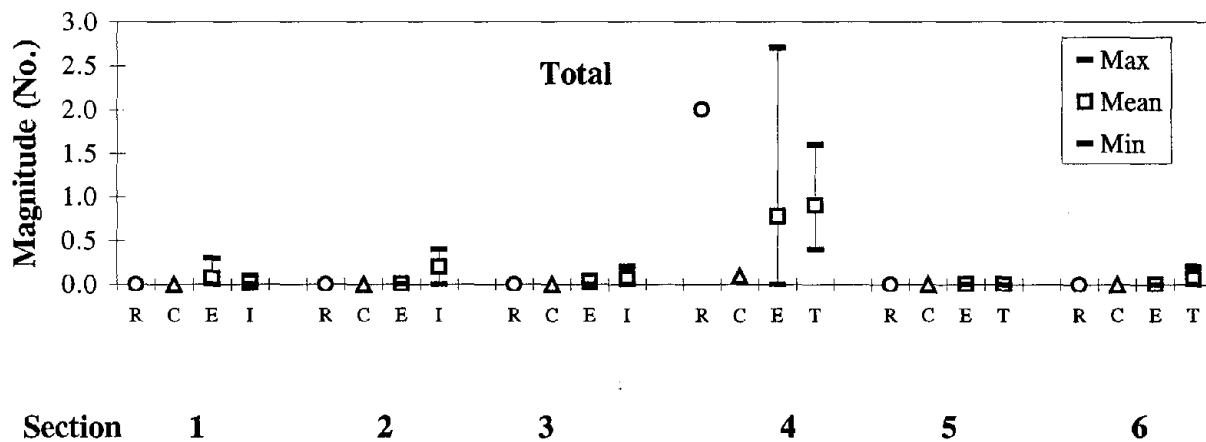


Figure 199. Popouts (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

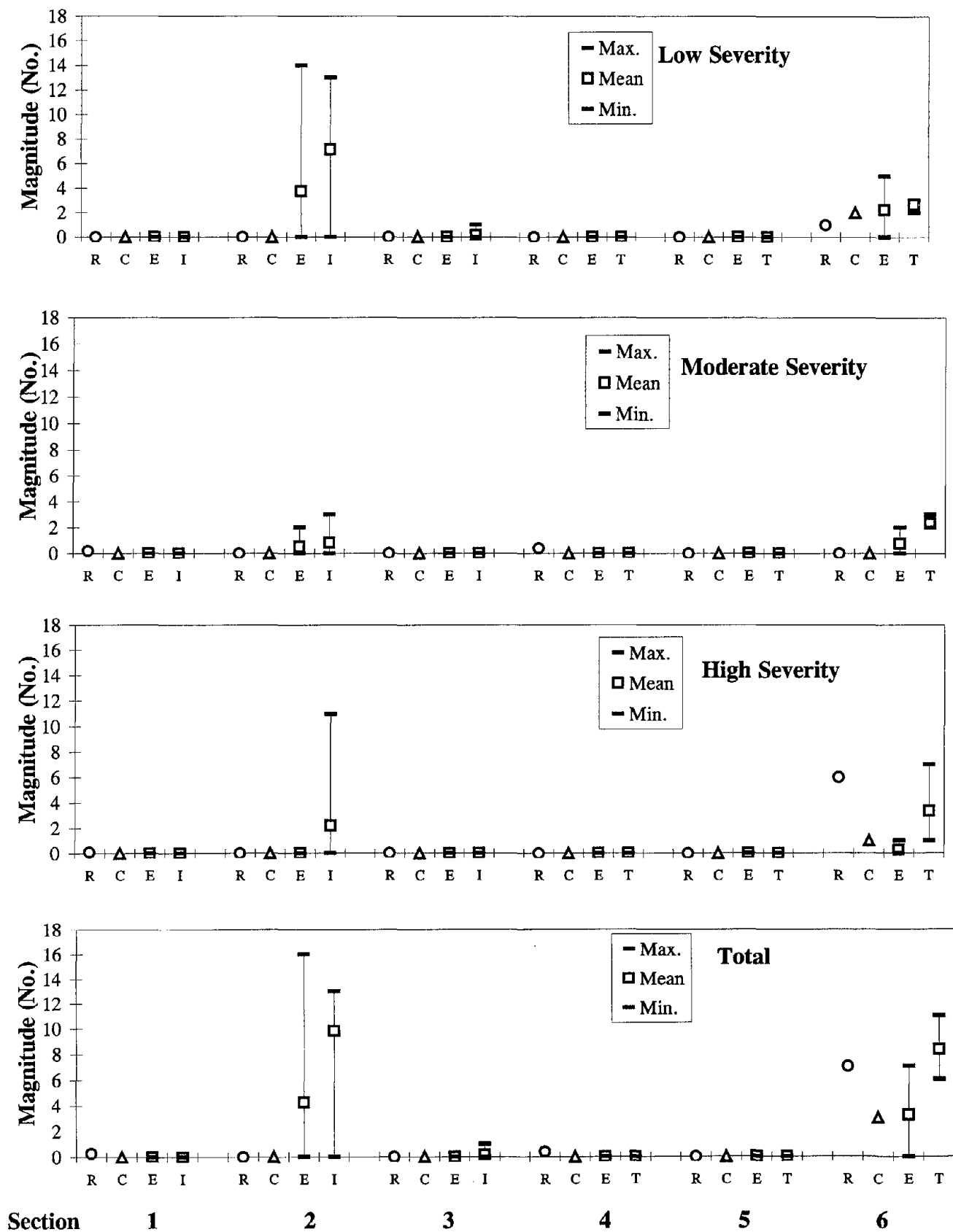


Figure 200. Patch/Patch Deterioration Flexible (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

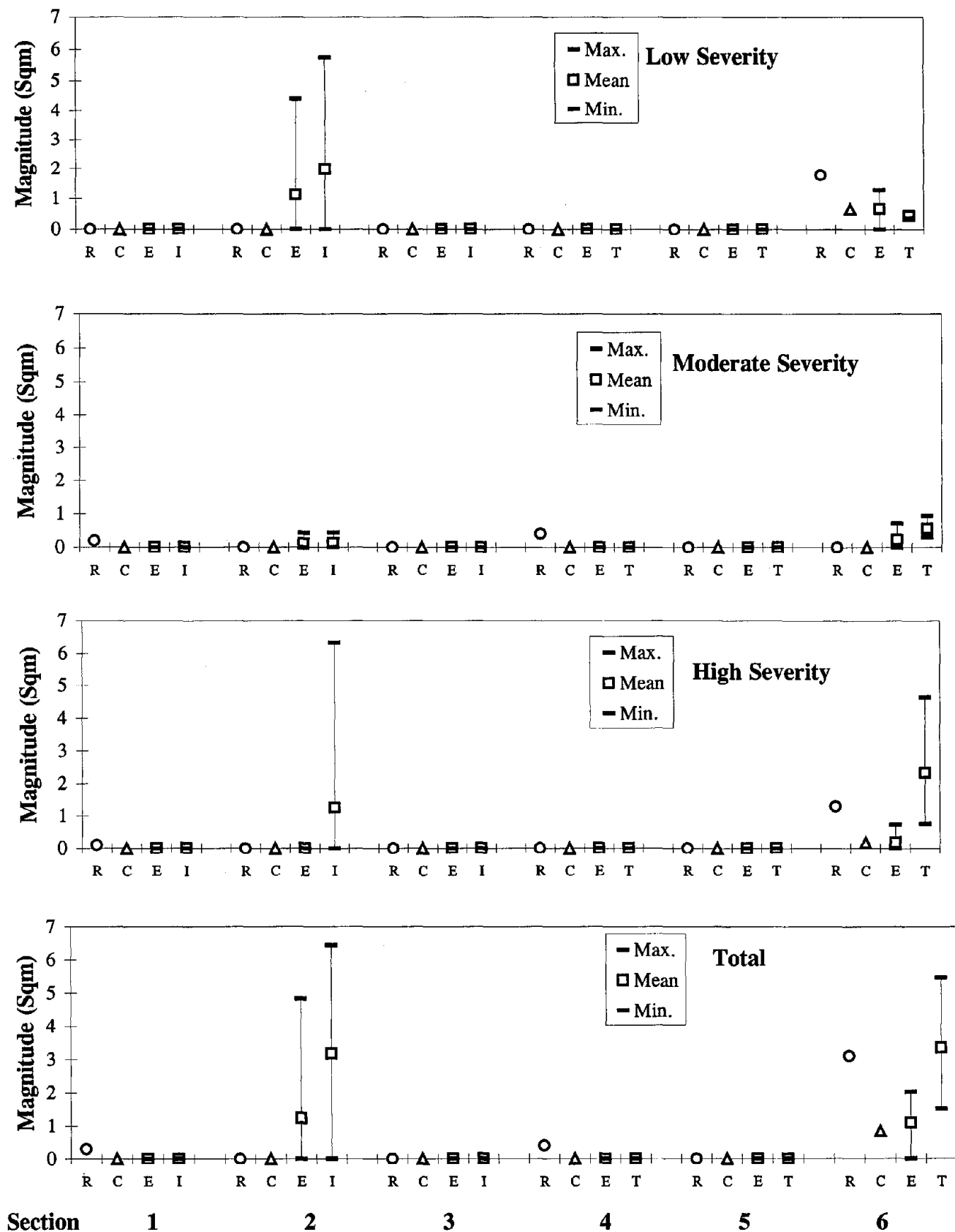


Figure 201. Patch/Patch Deterioration Flexible (Sq. Meters) - PCC Pavements, PASCO/ PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

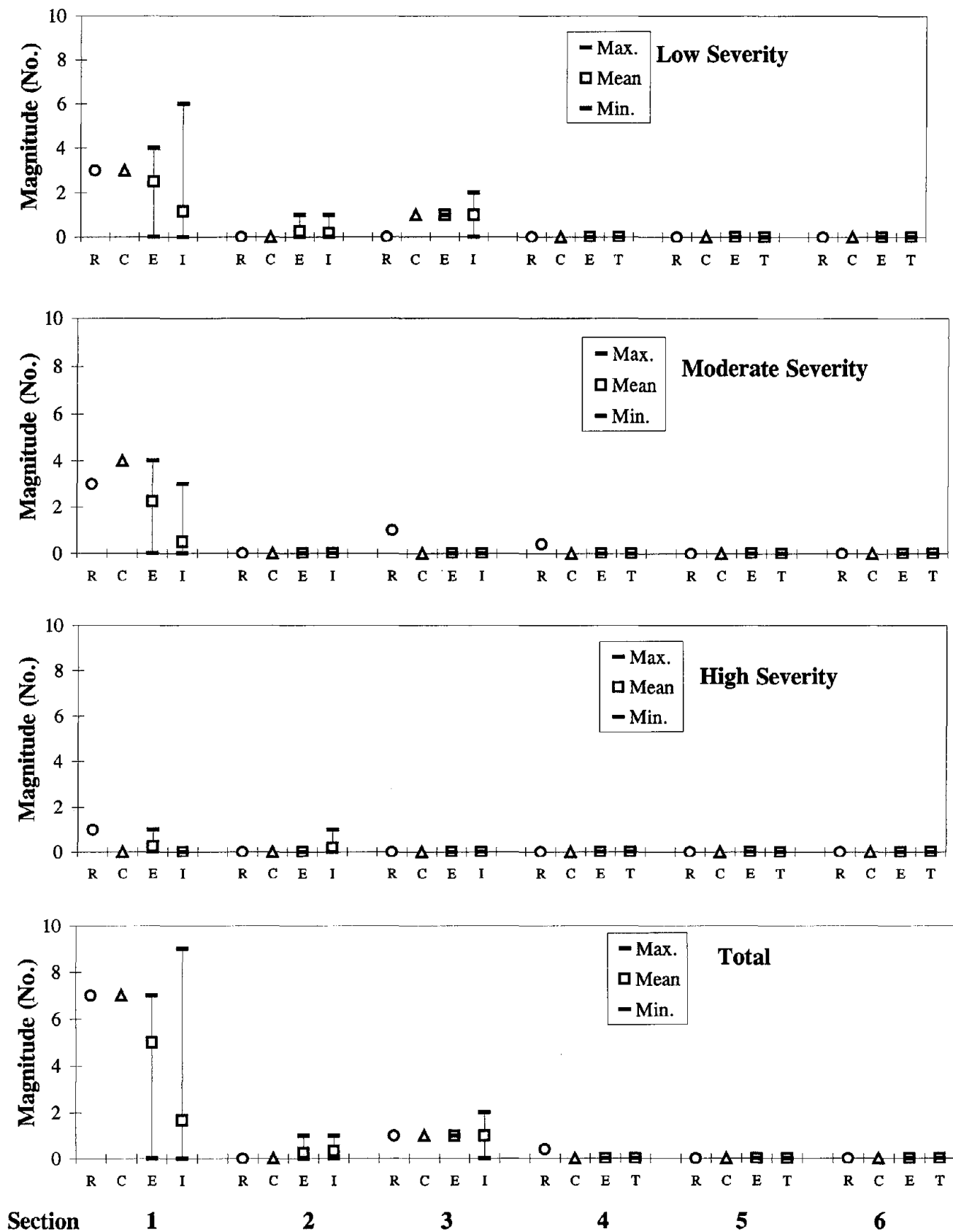


Figure 202. Patch/Patch Deterioration Rigid (No.) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

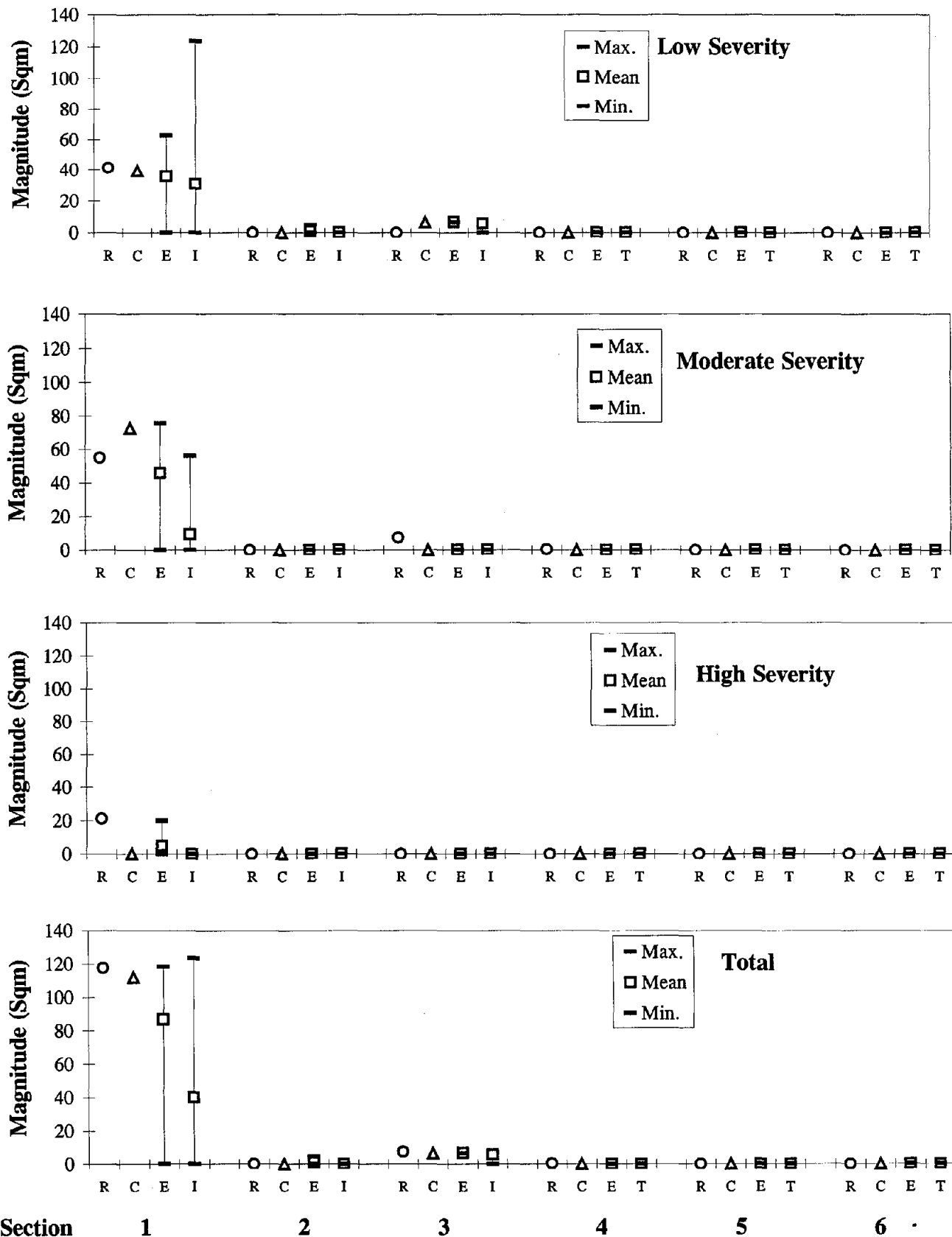


Figure 203. Patch/Patch Deterioration Rigid (Sq. Meters) - PCC Pavements, PASCO/PADIAS: Reference, Consensus, Experts, Individuals, & Teams.

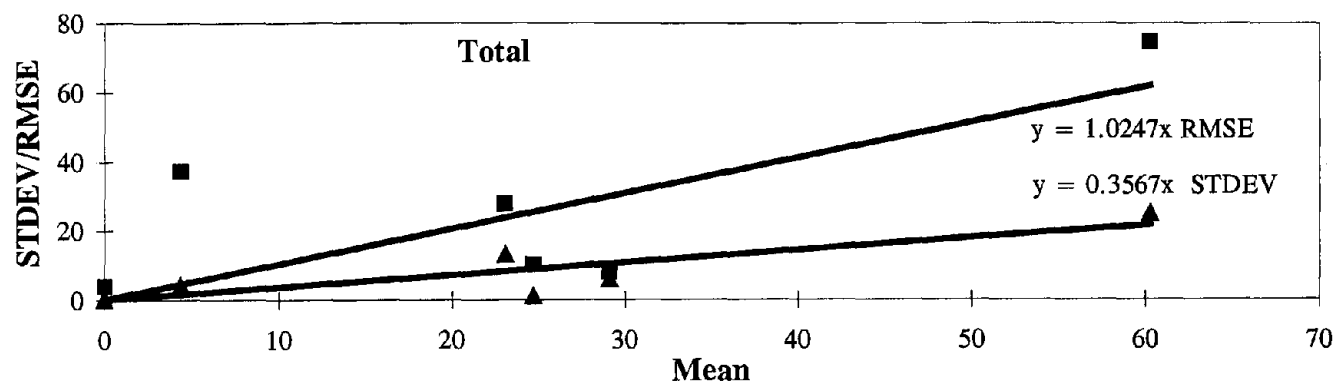
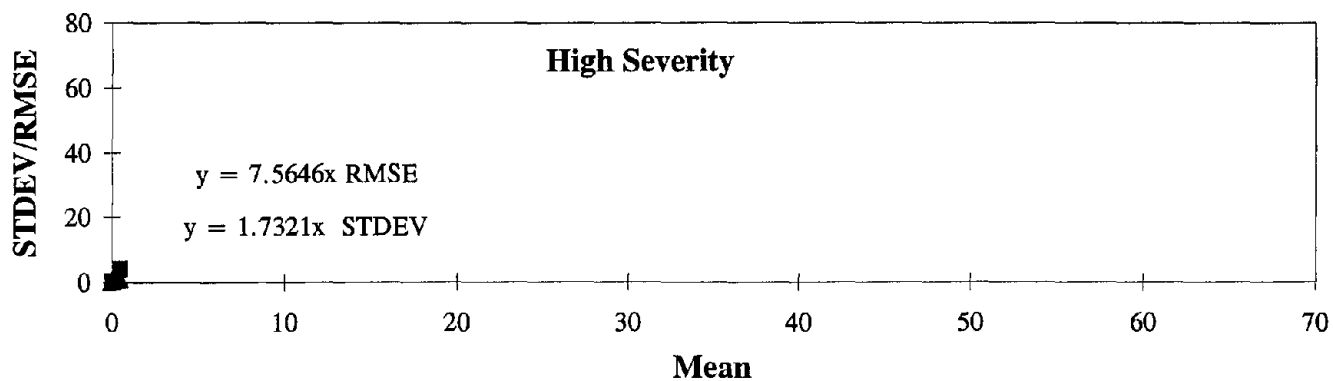
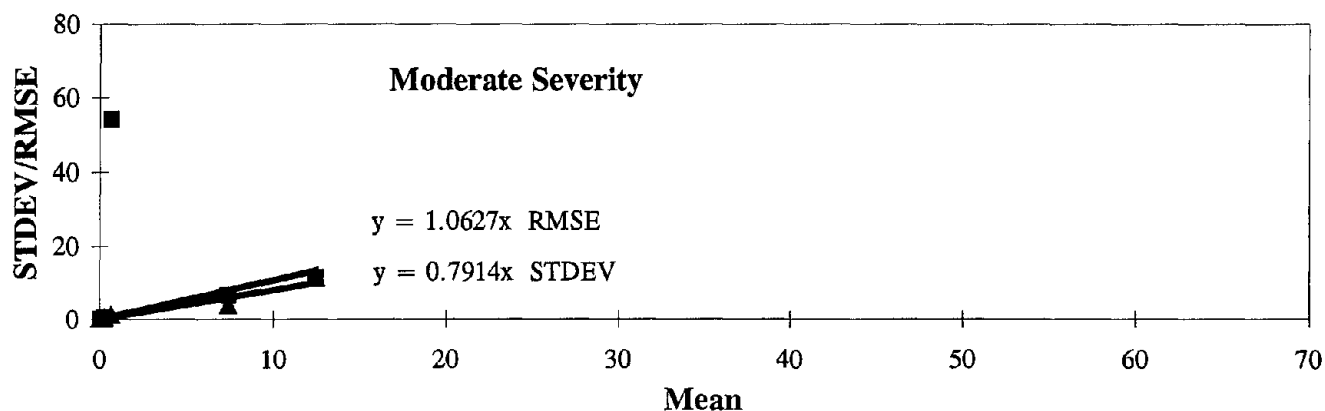
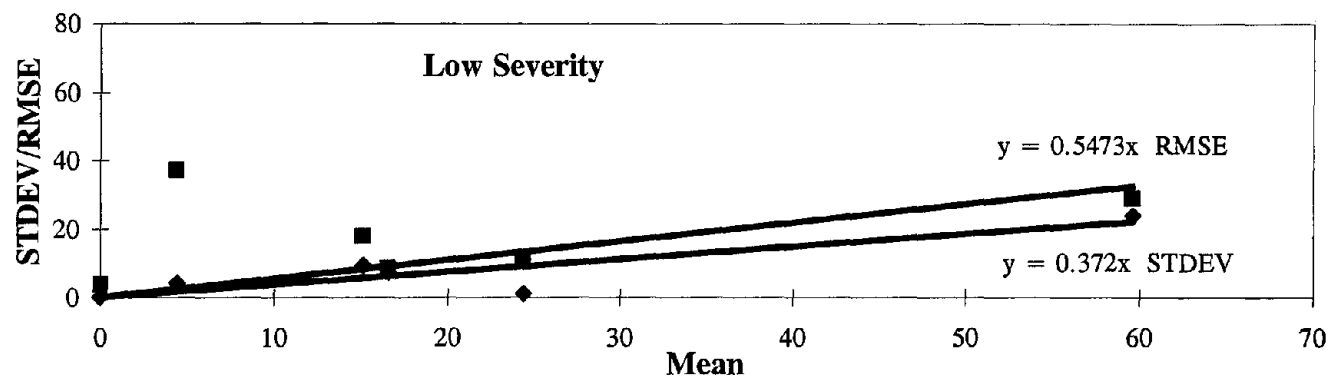


Figure 204. Fatigue Cracking (Sq. Meters) - AC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

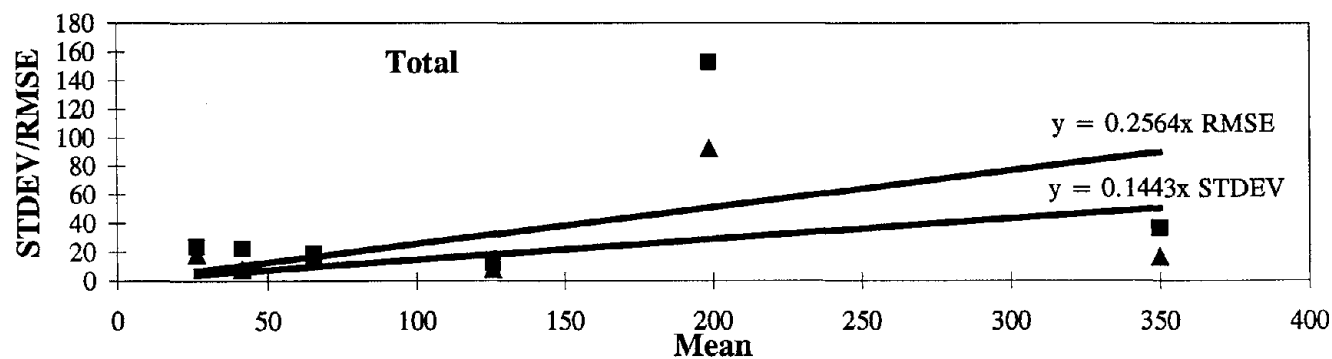
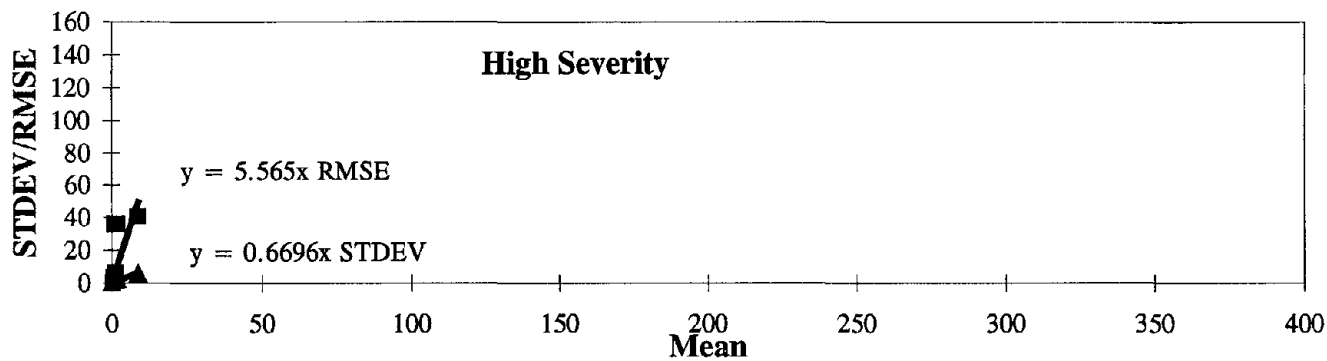
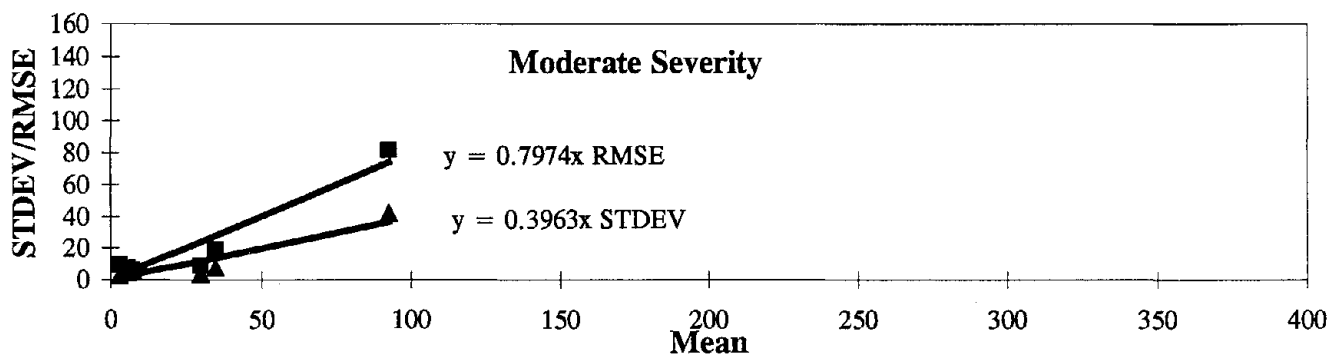
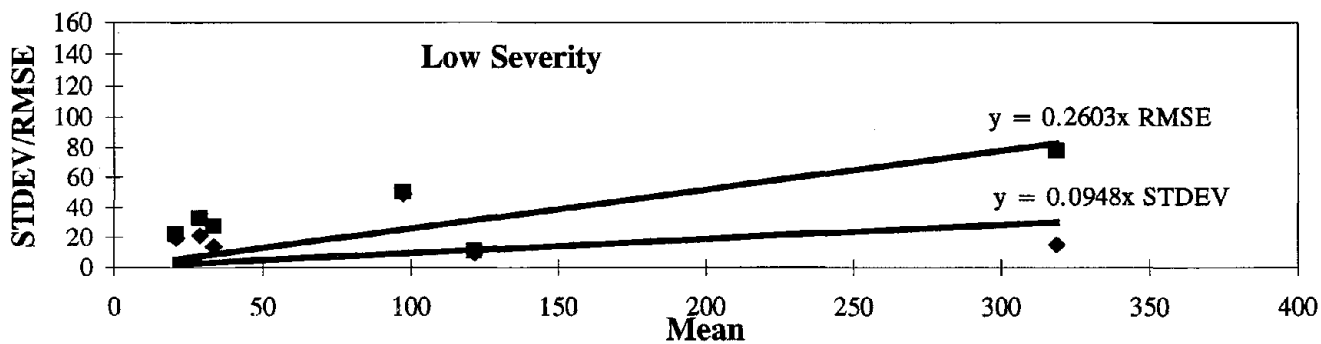


Figure 205. Longitudinal Cracking NWP (Meters) - AC Pavements, Experts, PASCO Method: Standard Deviation/RMSE Vs. Mean.

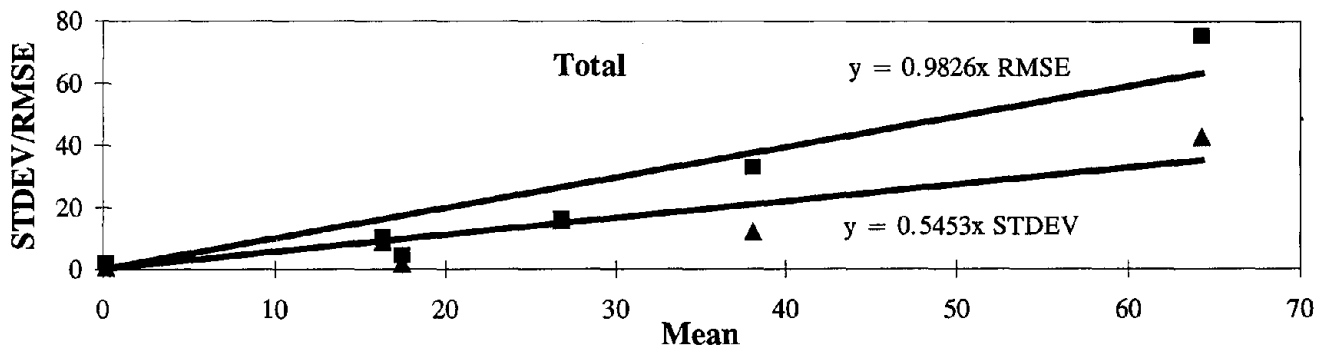
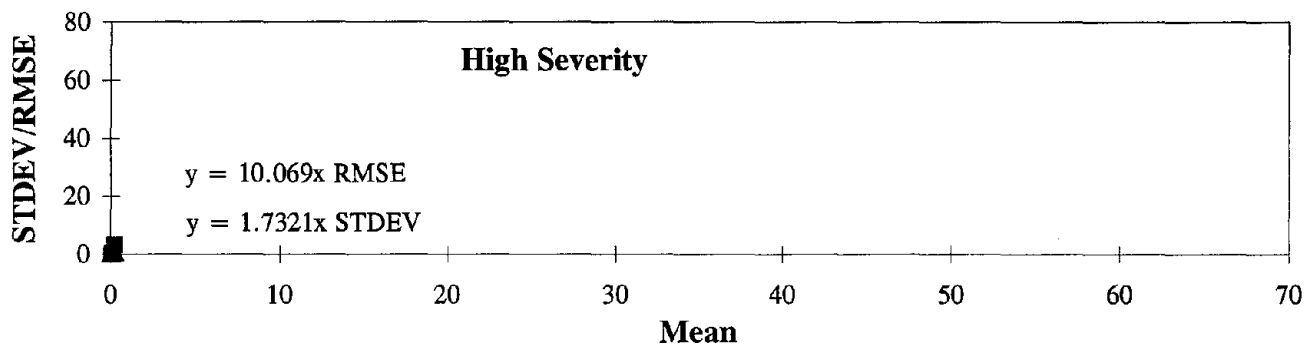
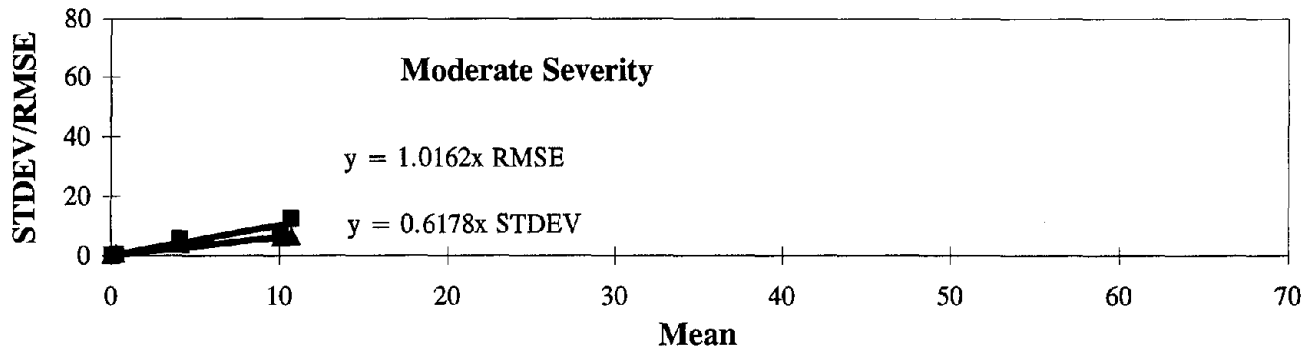
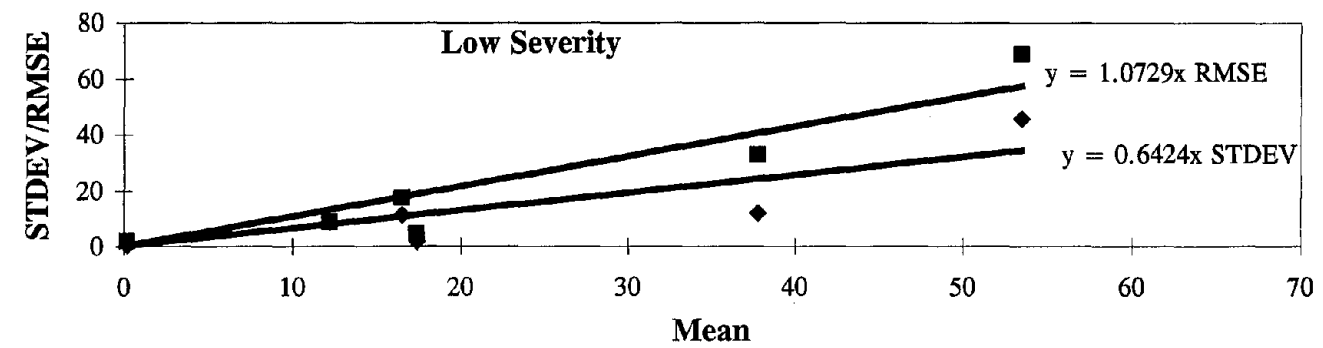


Figure 206. Longitudinal Cracking WP (Meters) - AC Pavements, Experts, PASCO Method: Standard Deviation/RMSE Vs. Mean.

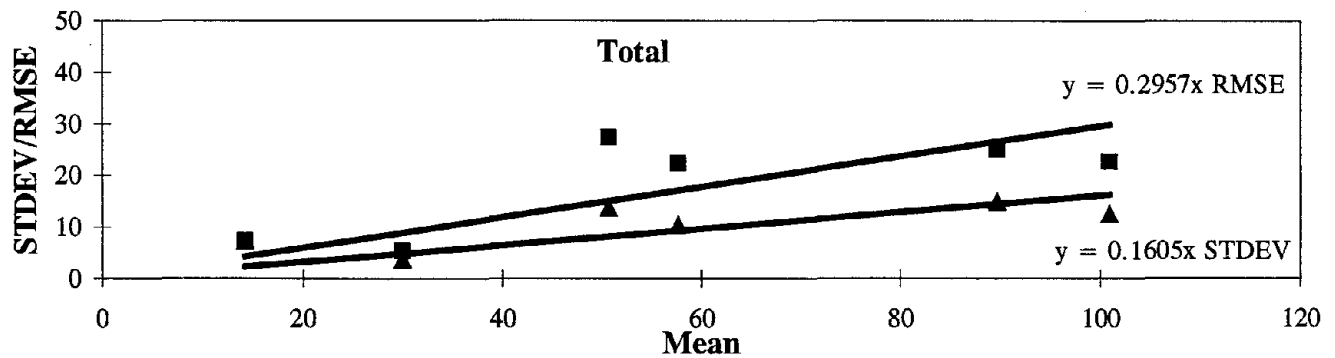
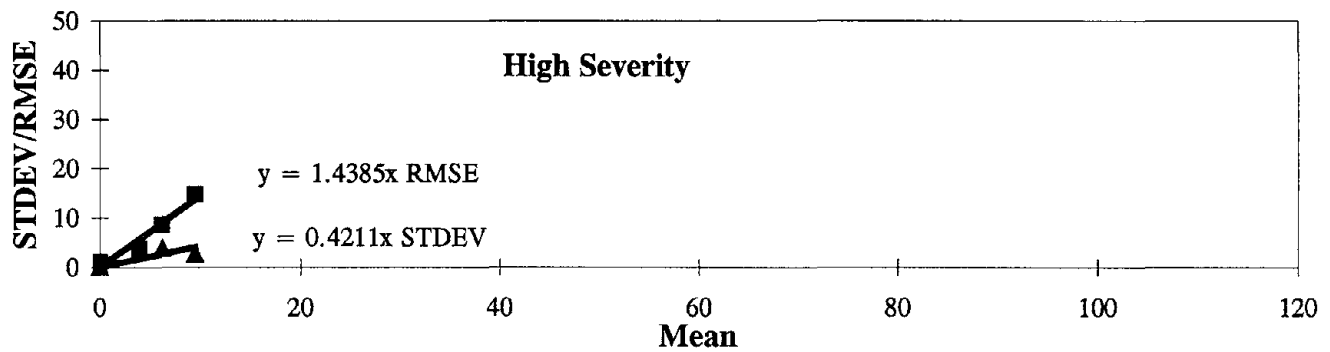
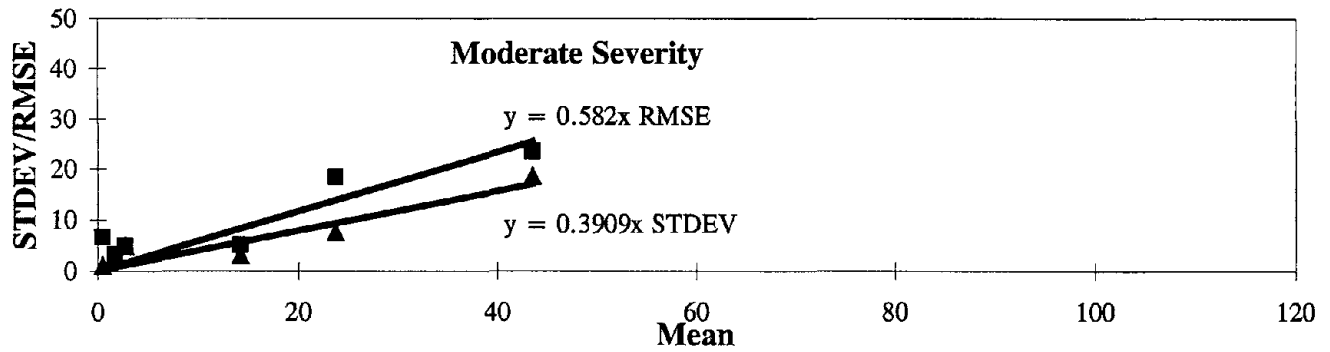
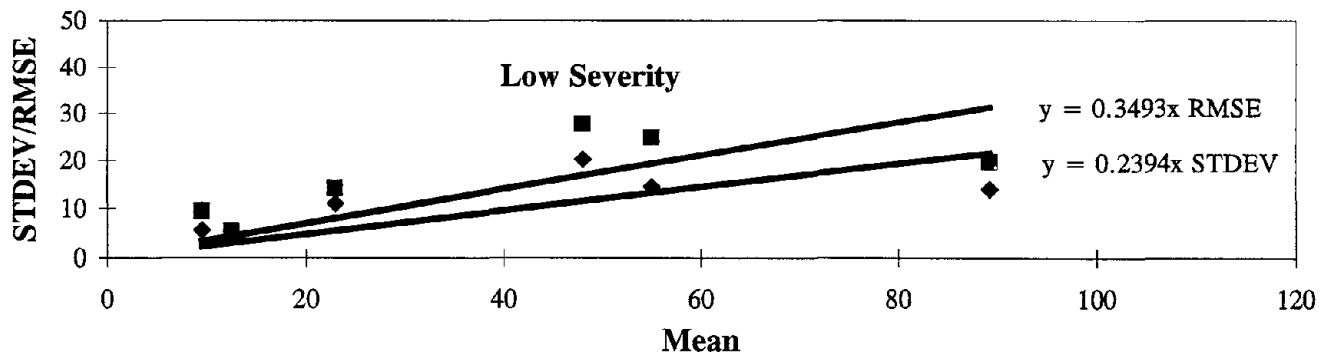


Figure 207. Transverse Cracking (No.) - AC Pavements, Experts, PASCO Method: Standard Deviation/RMSE Vs. Mean.

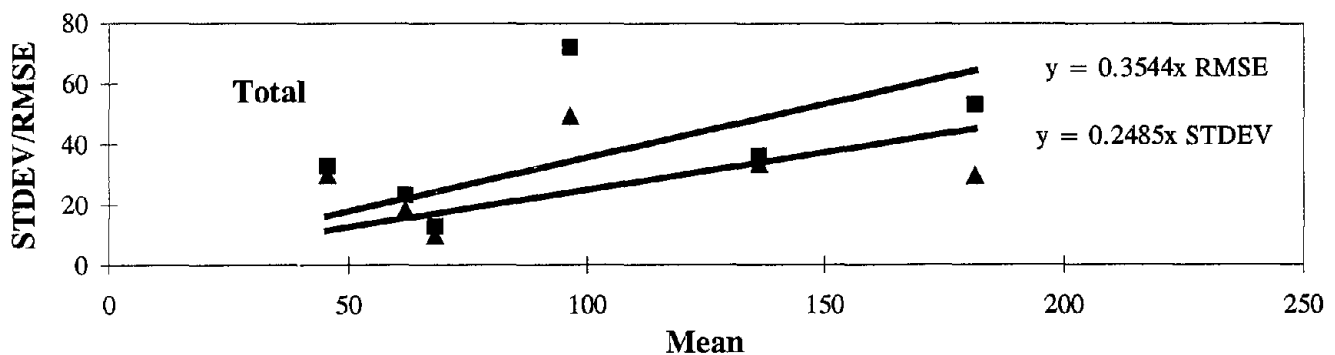
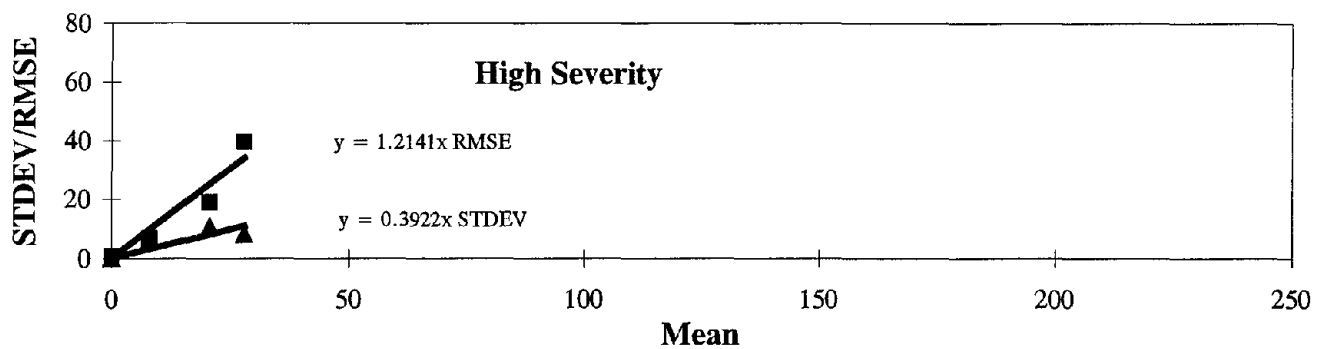
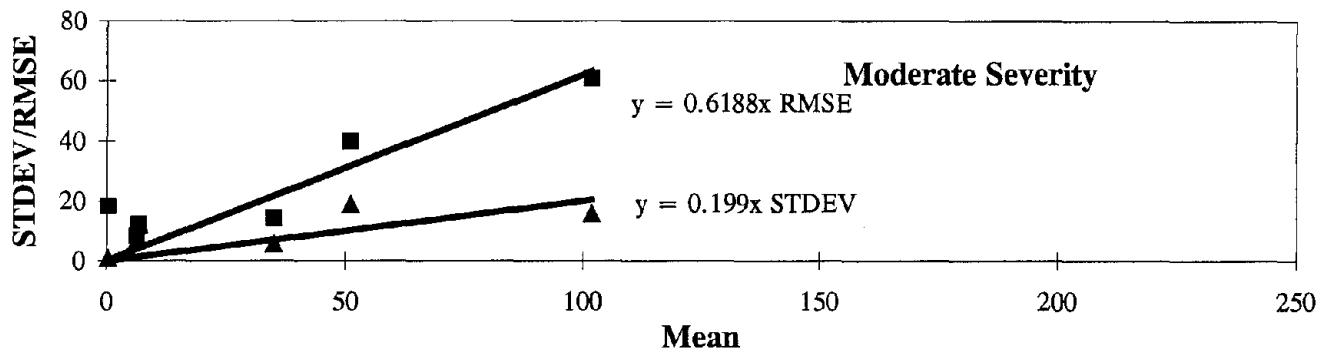
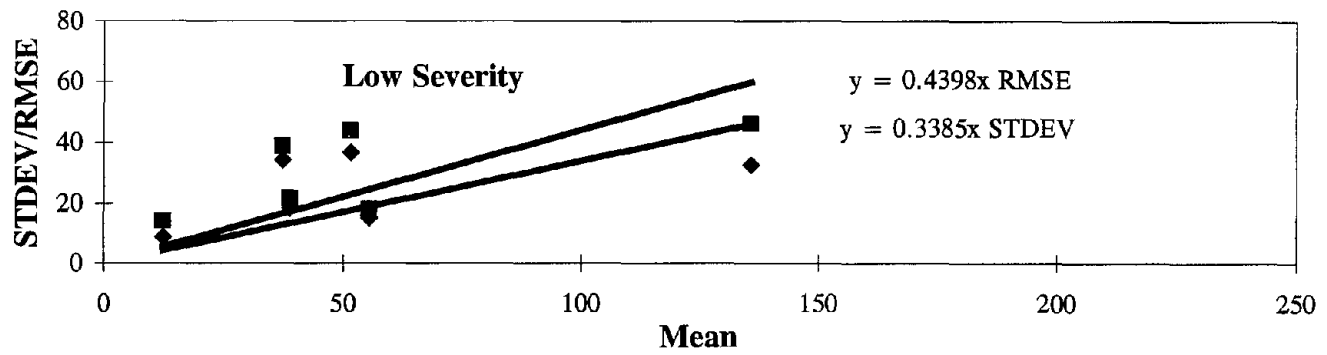


Figure 208. Transverse Cracking (Meters) - AC Pavements, Experts, PASCO Method: Standard Deviation/RMSE Vs. Mean.

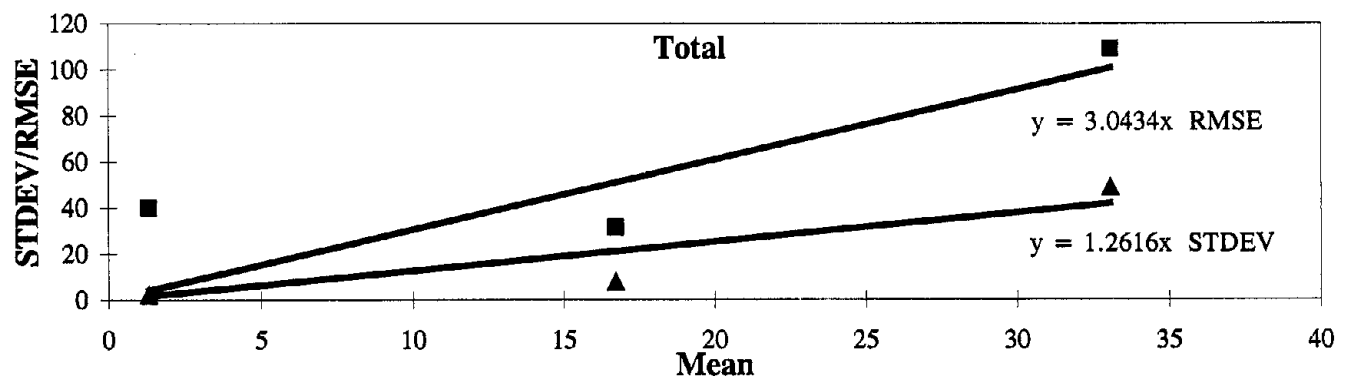
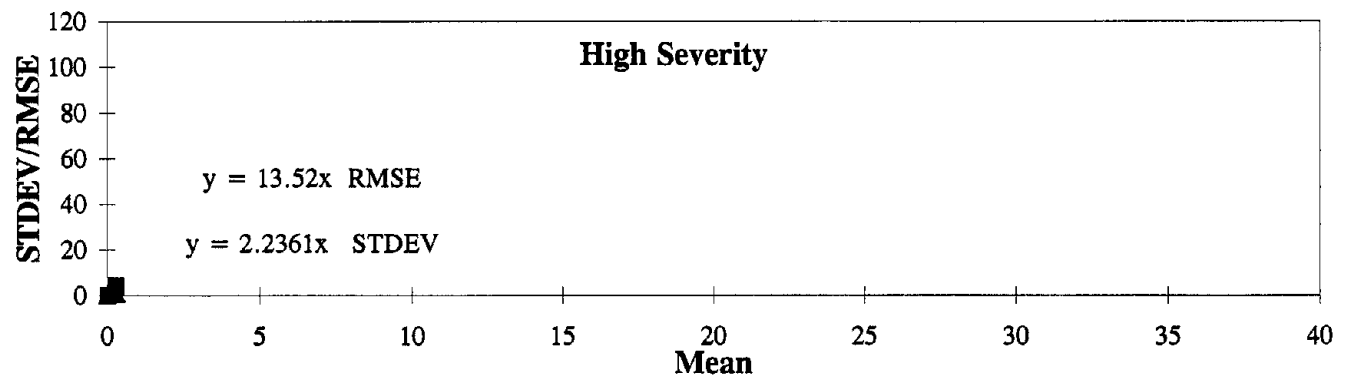
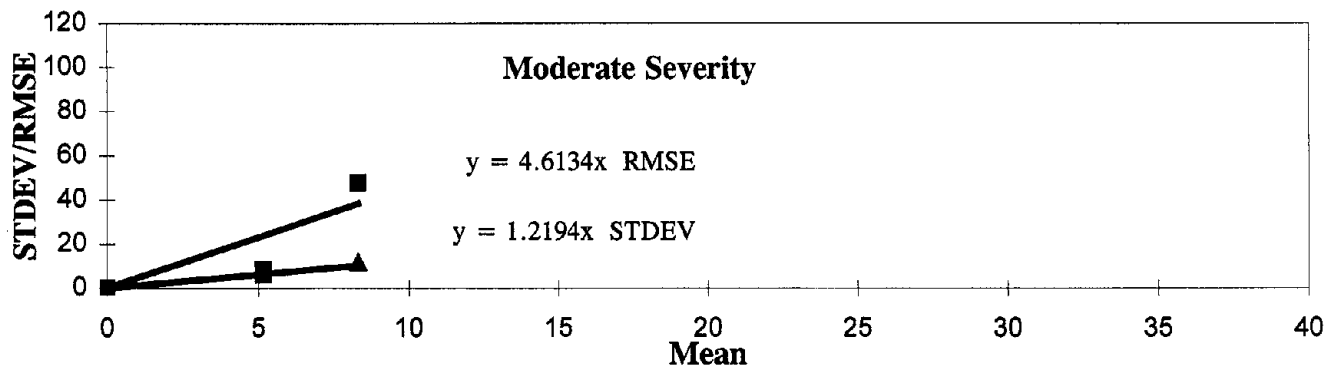
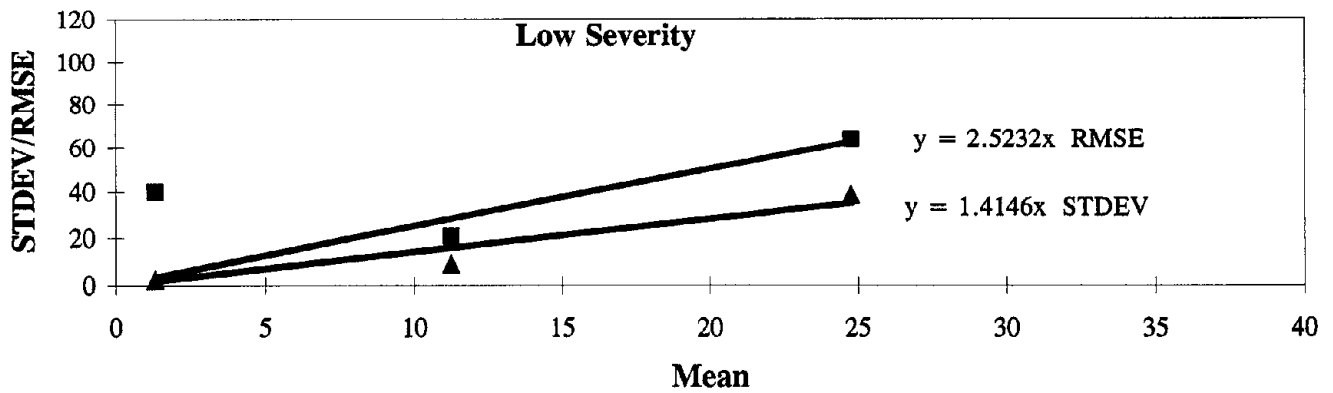


Figure 209. Fatigue Cracking (Sq. Meters) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

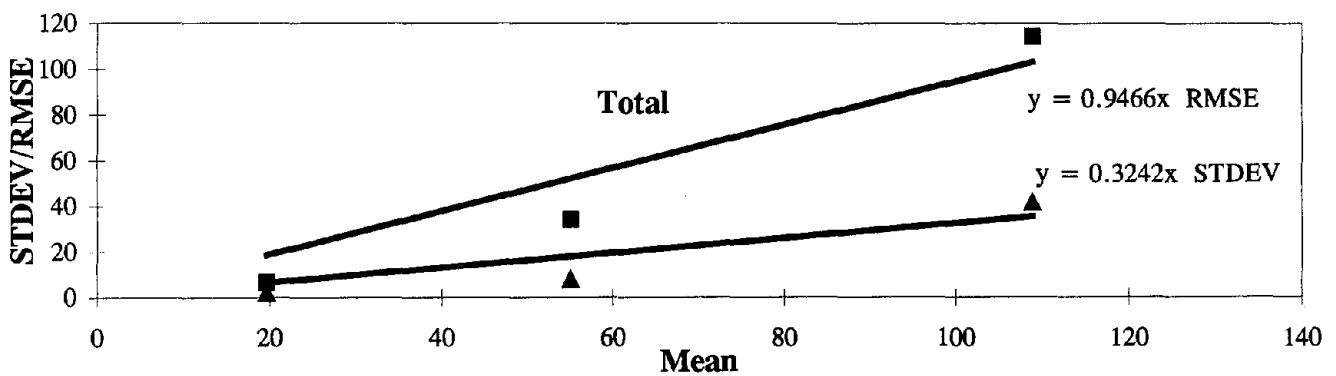
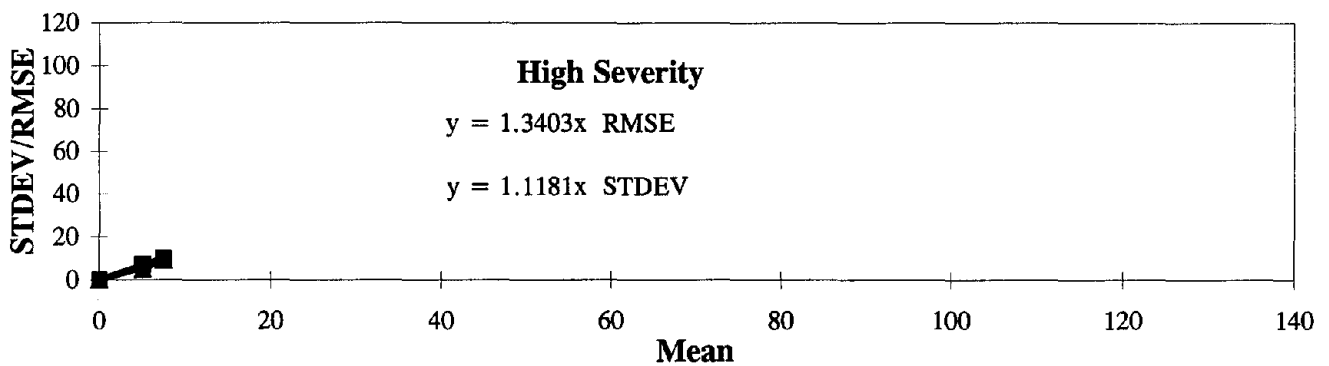
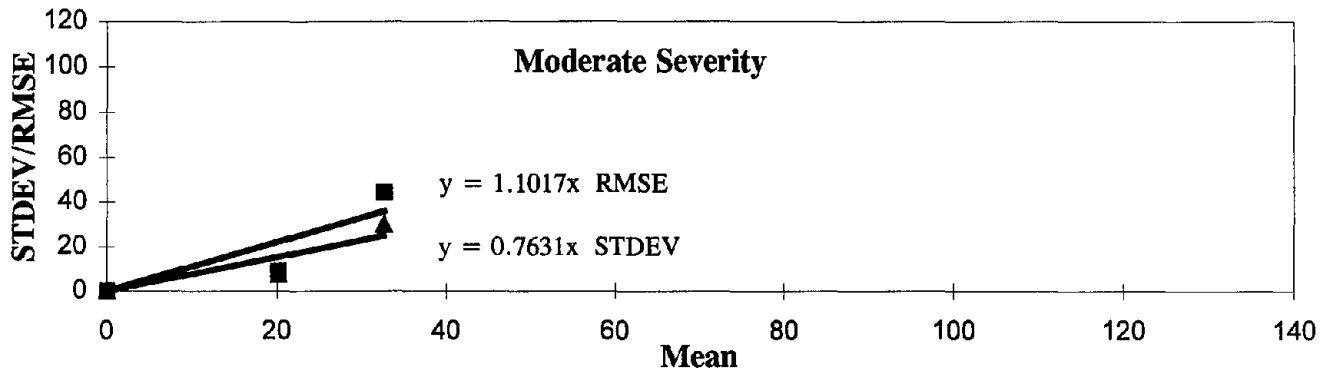
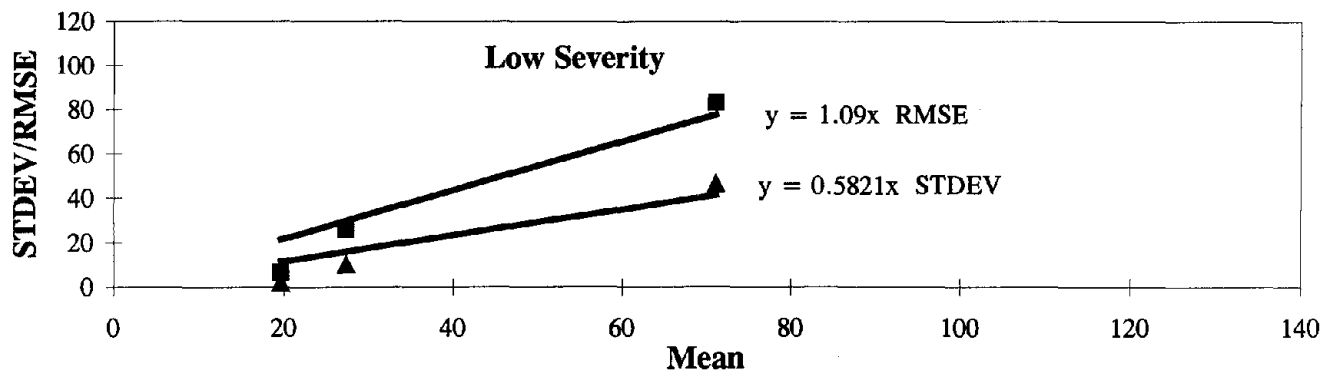


Figure 210. Longitudinal Cracking WP (Meters) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

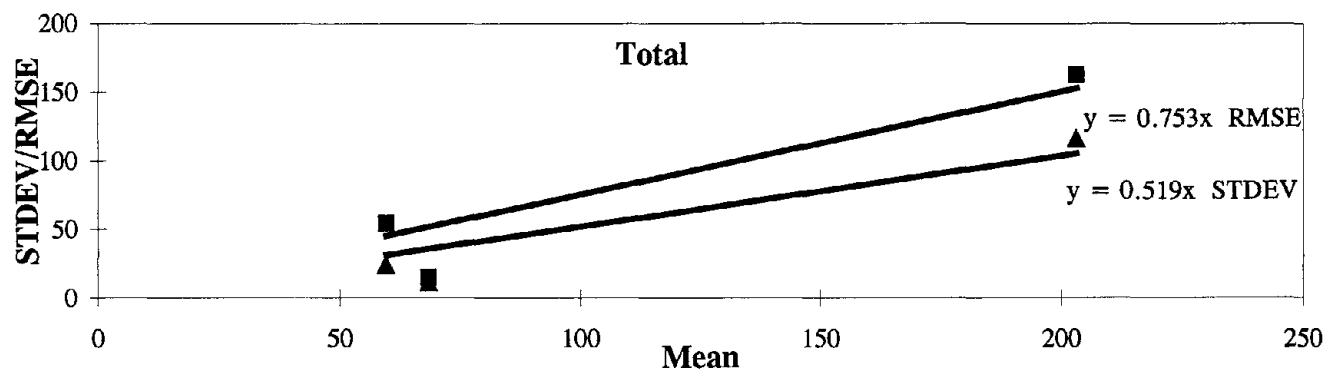
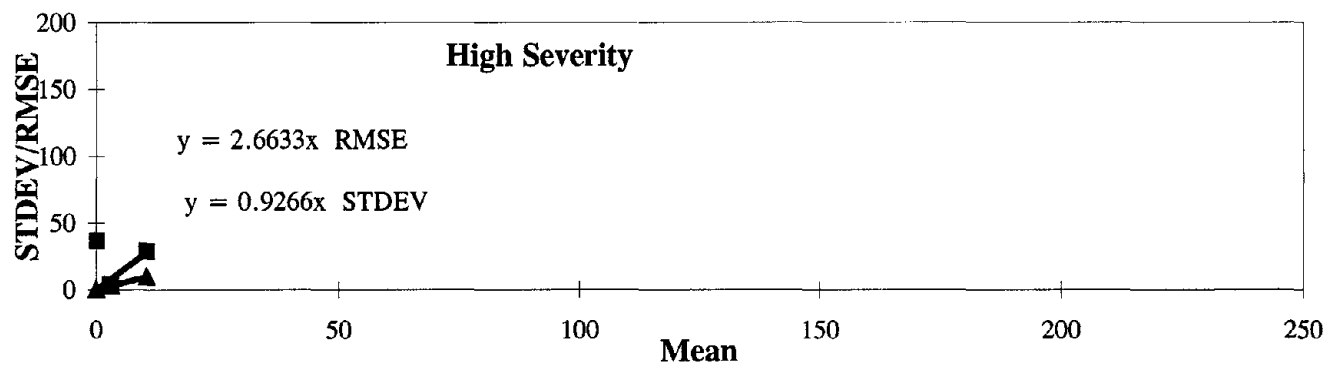
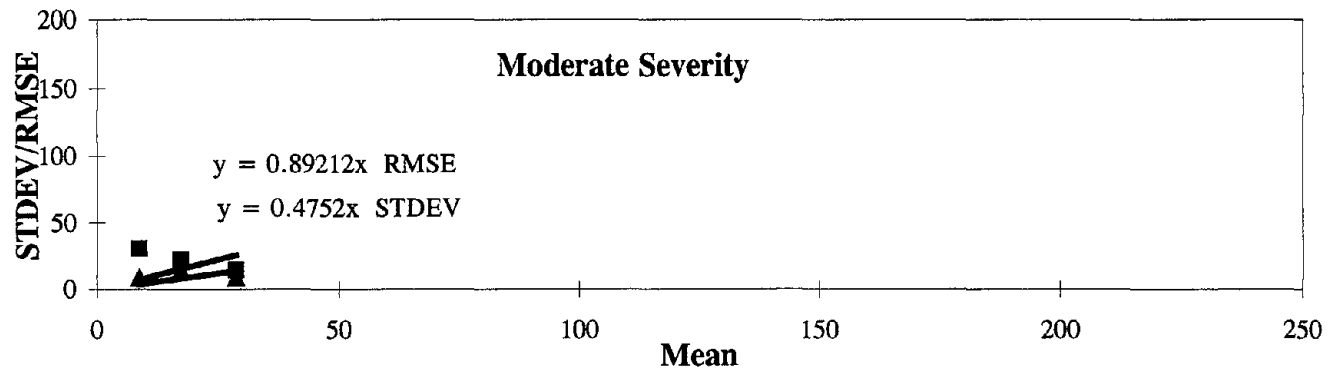
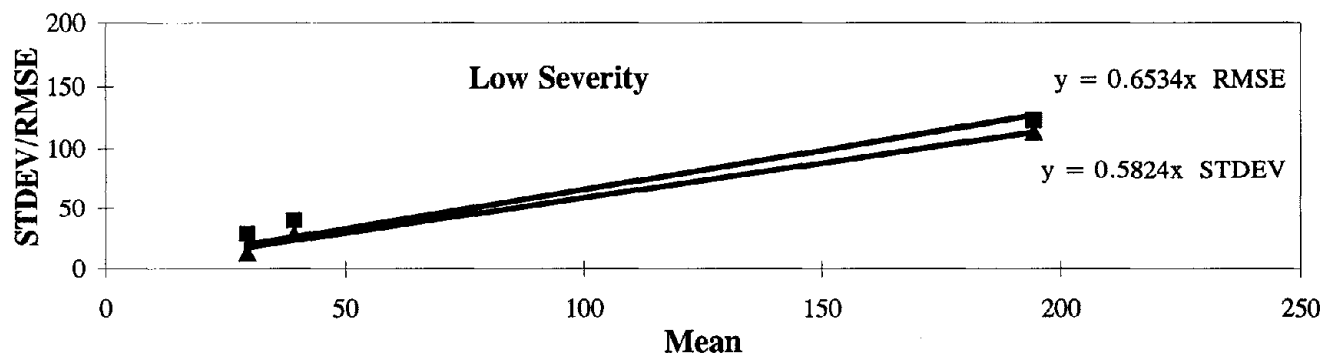


Figure 211. Longitudinal Cracking NWP (Meters) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

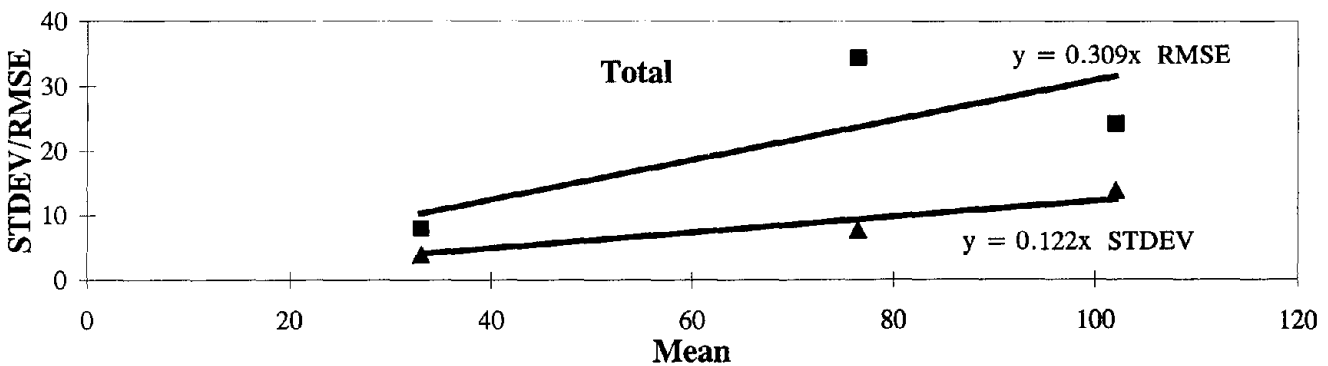
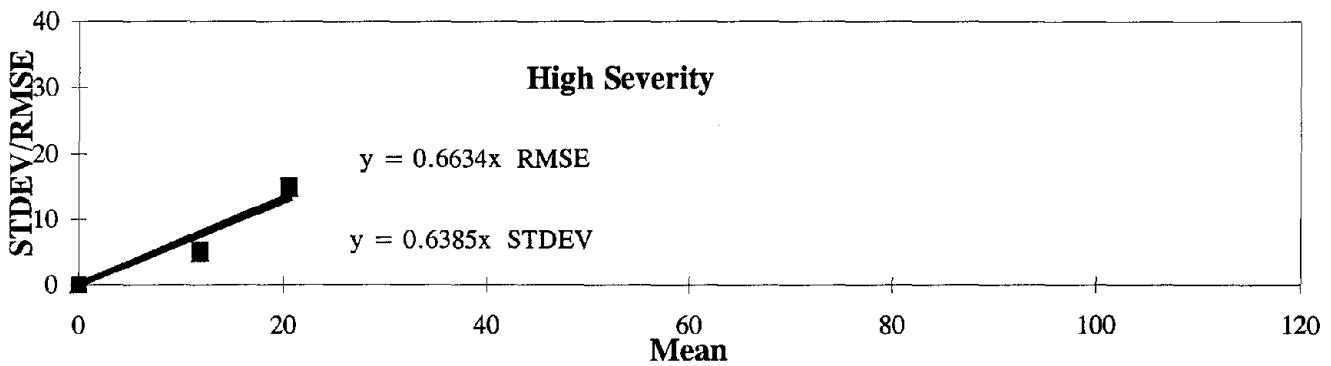
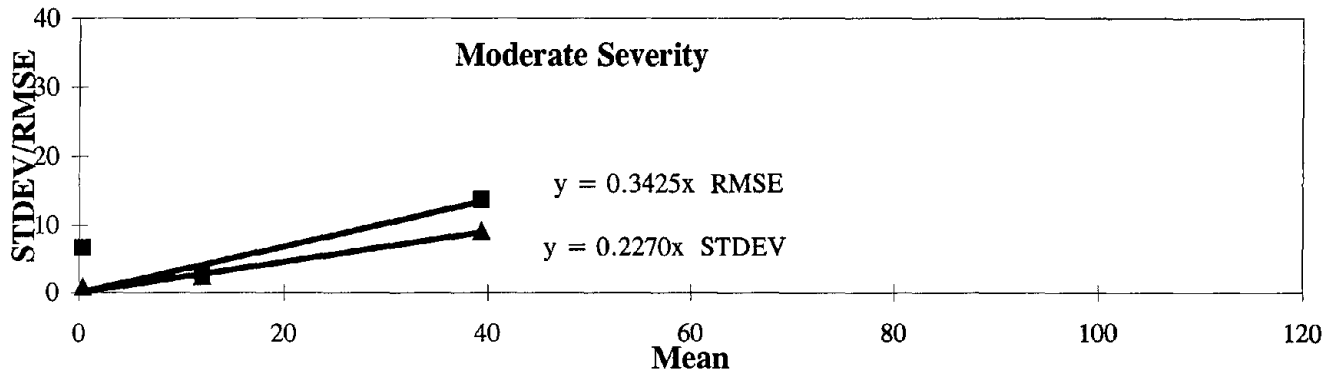
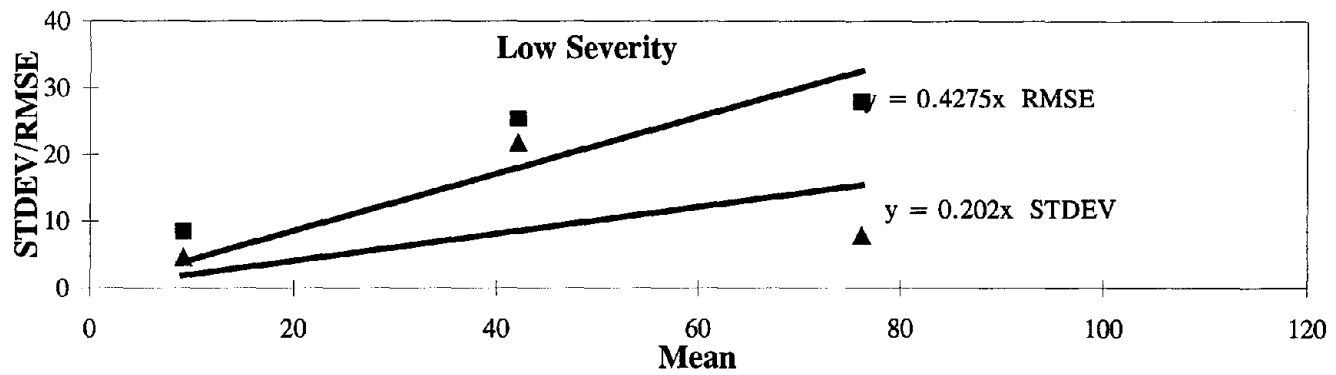


Figure 212. Transverse Cracking (No.) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

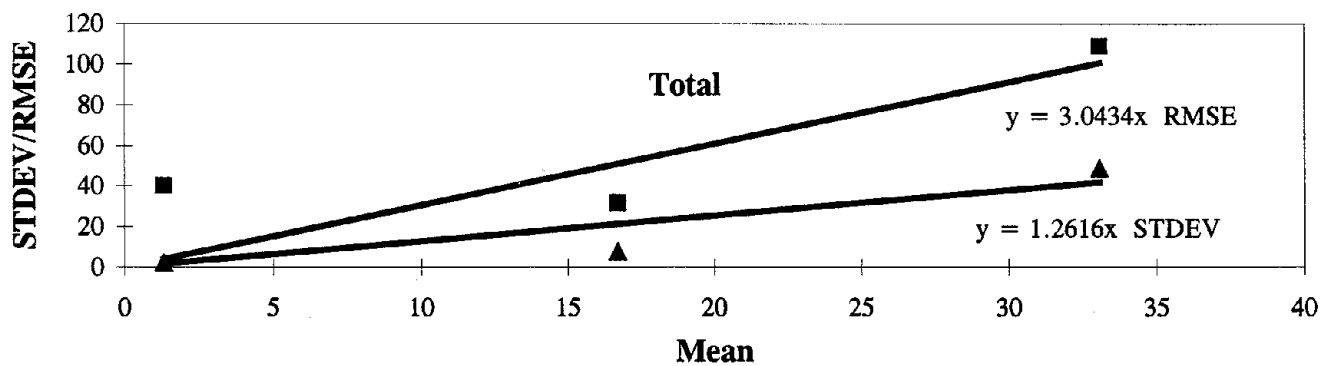
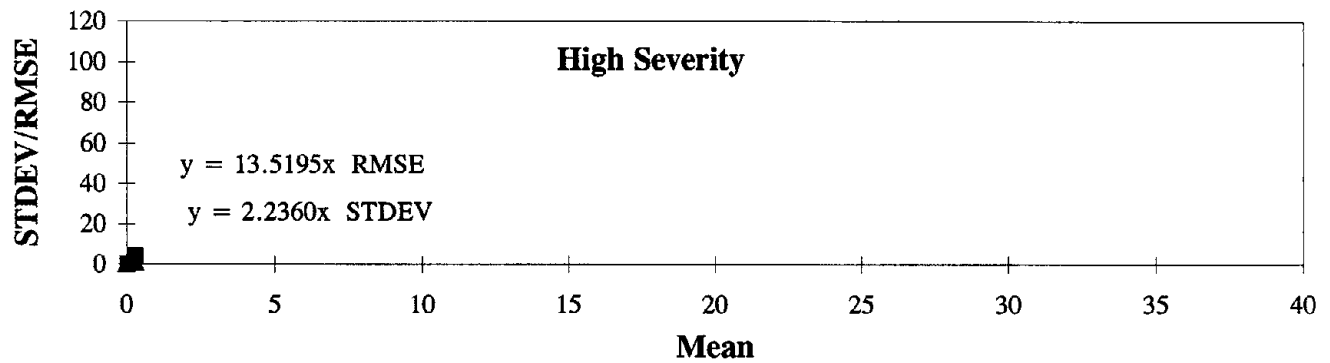
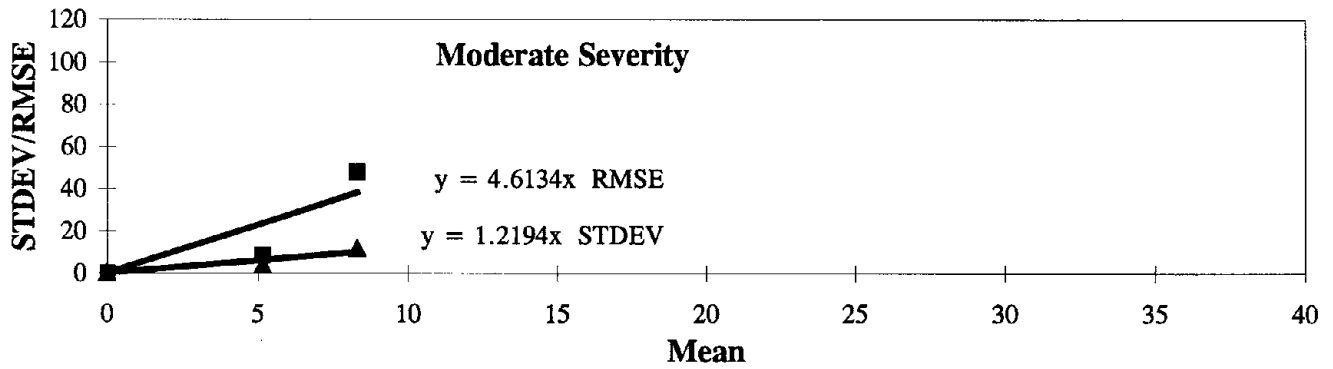
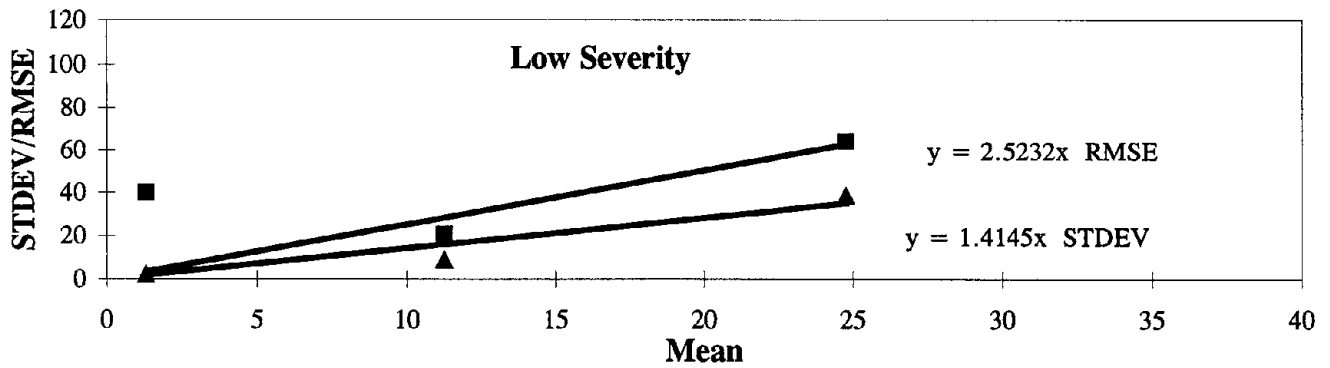


Figure 213. Transverse Cracking (Meters) - AC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

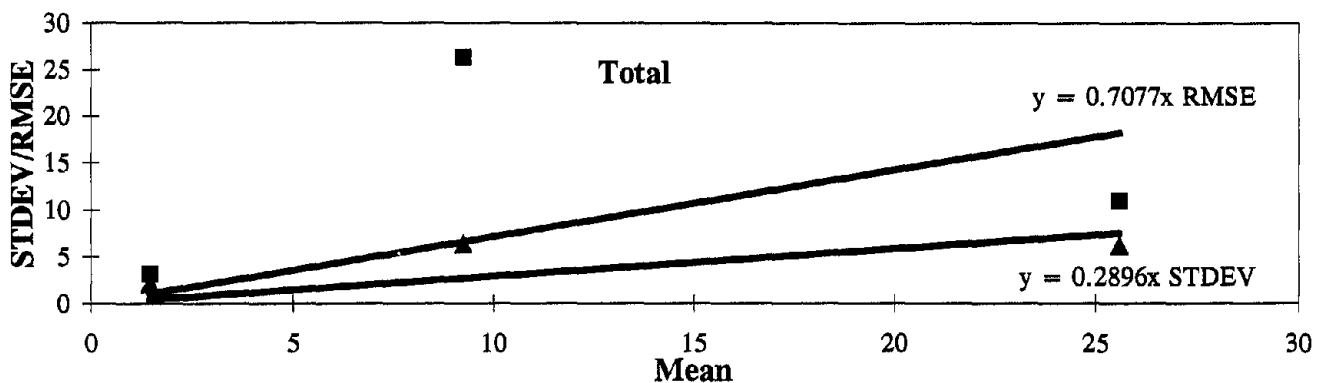
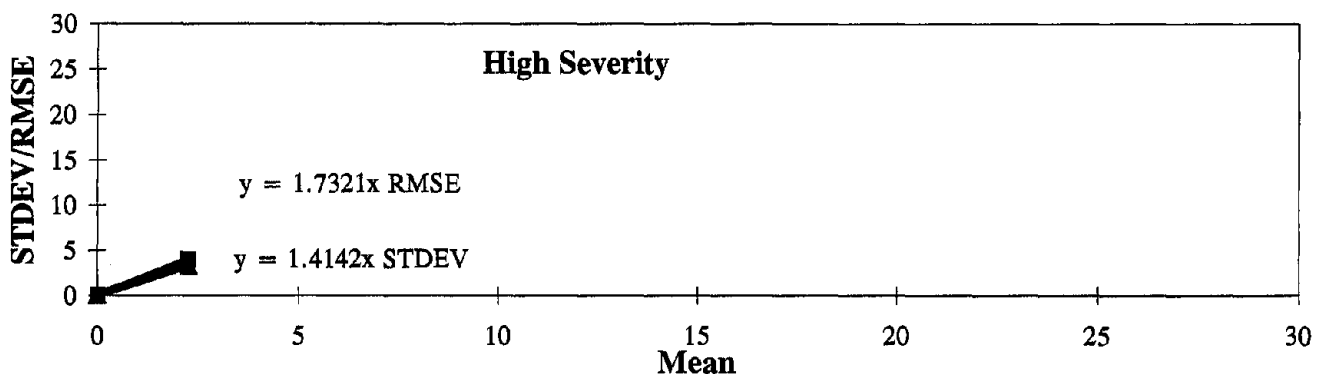
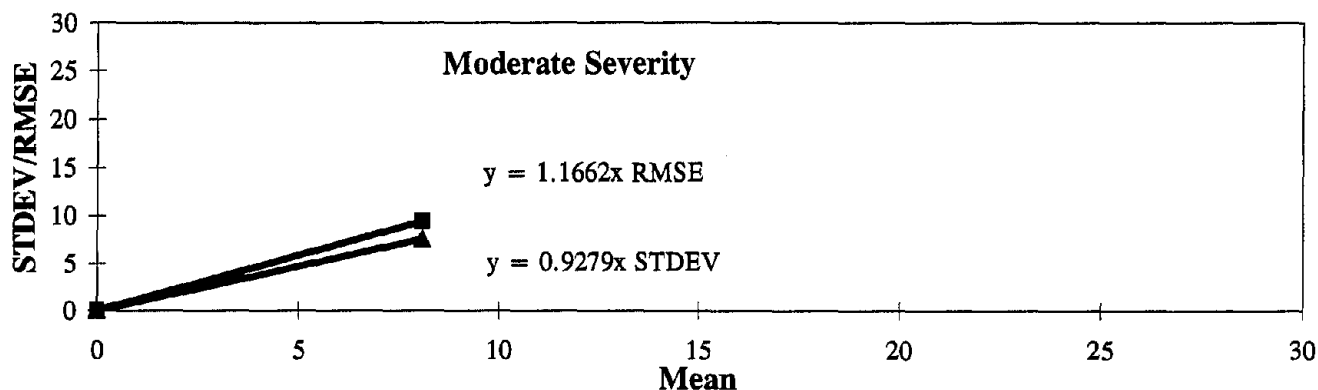
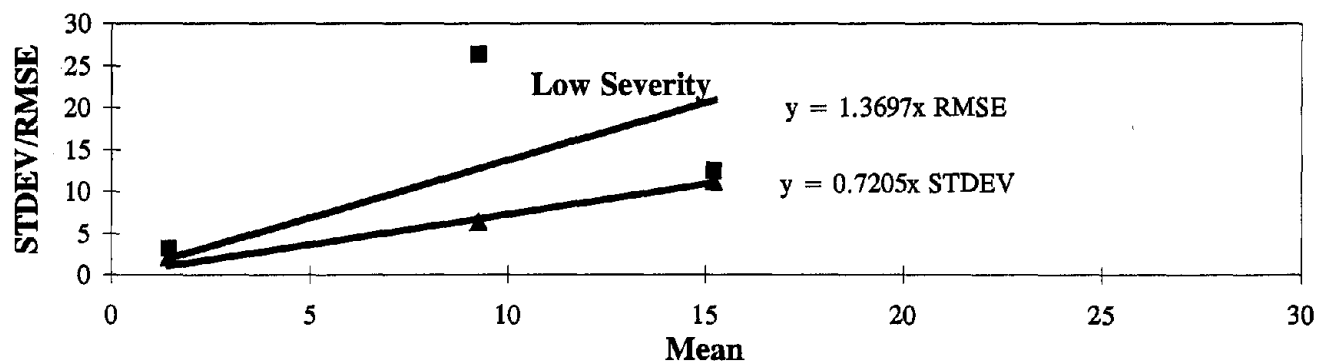
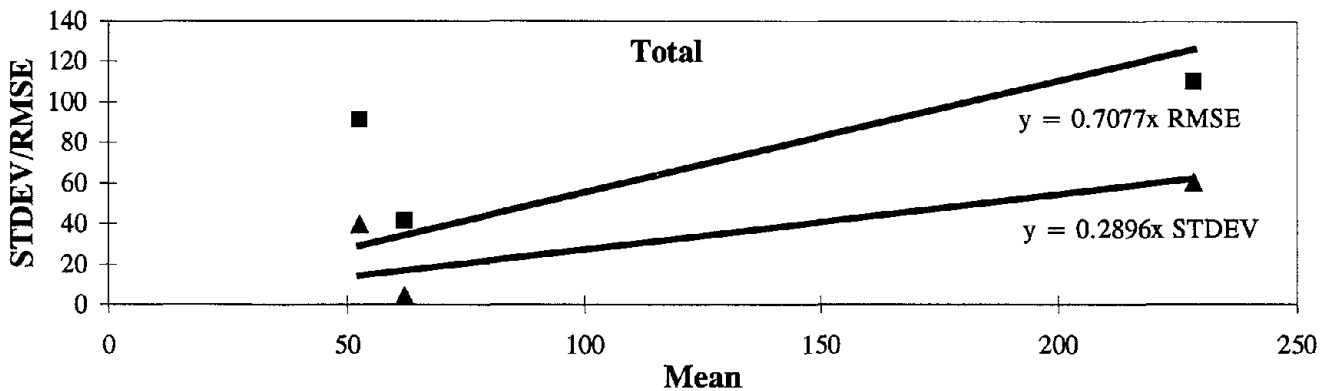
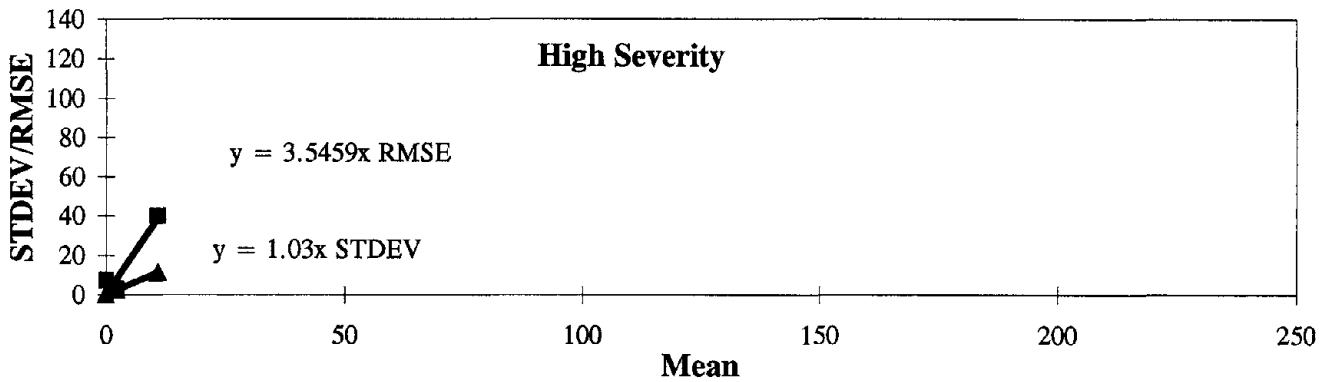
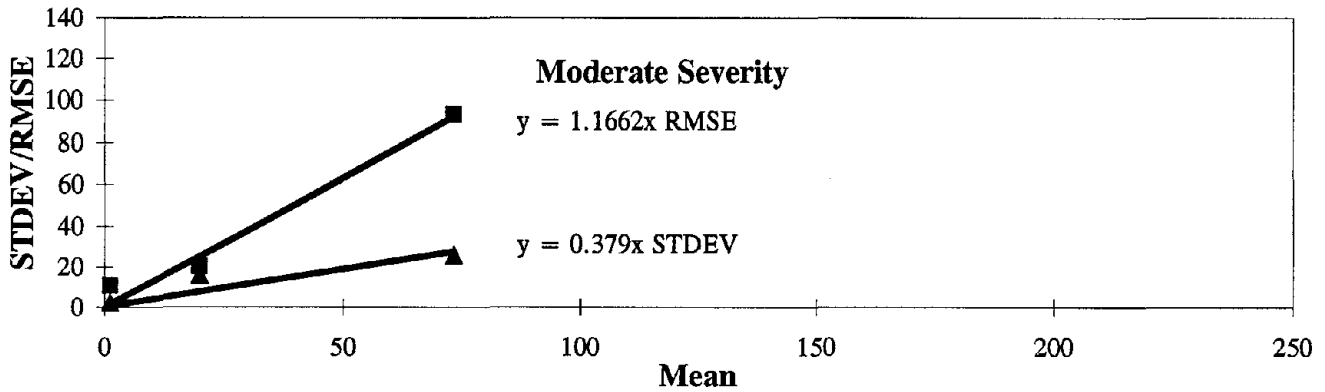
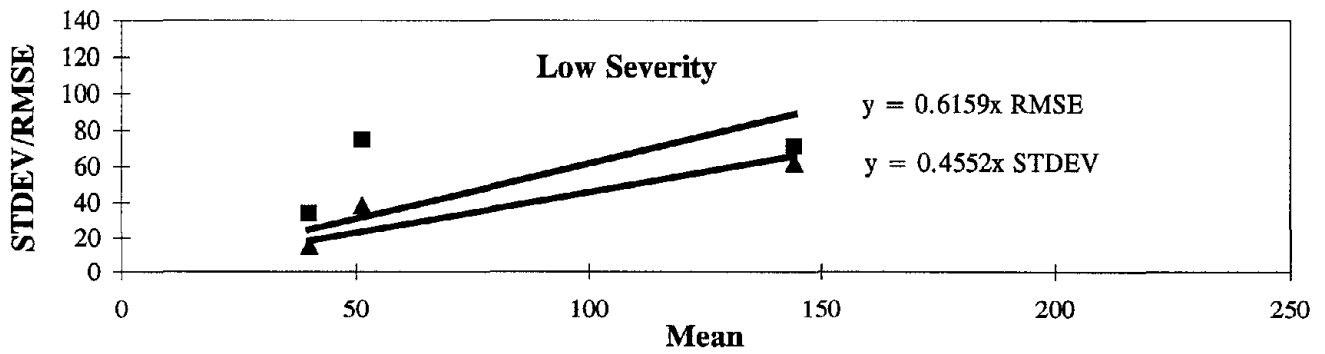
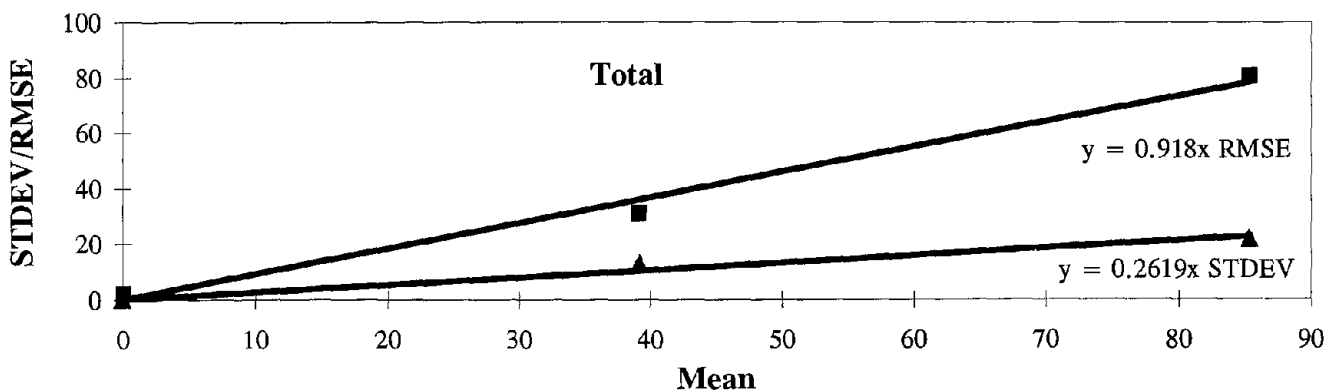
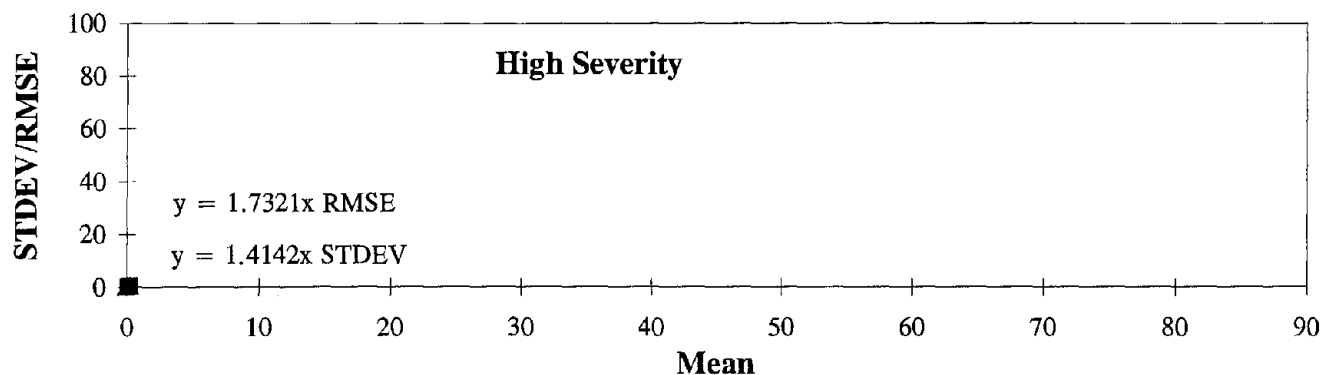
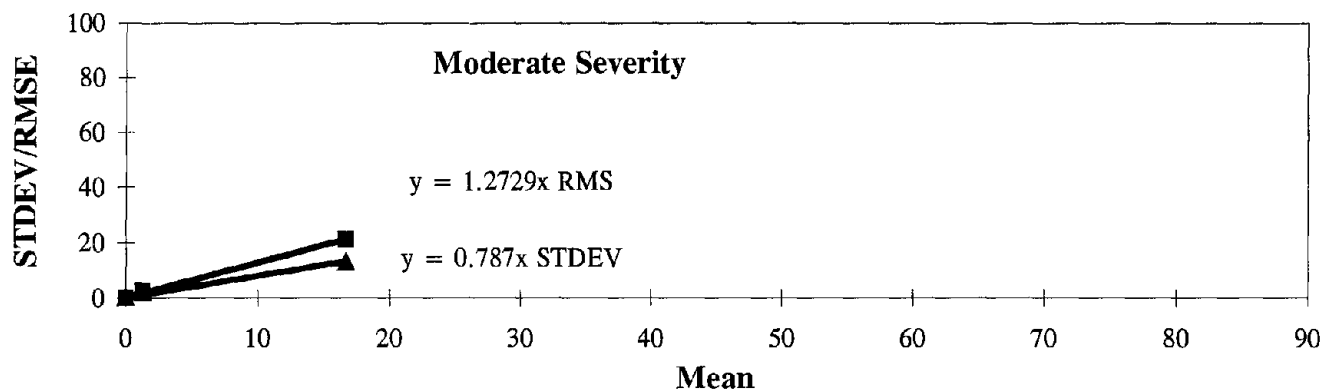
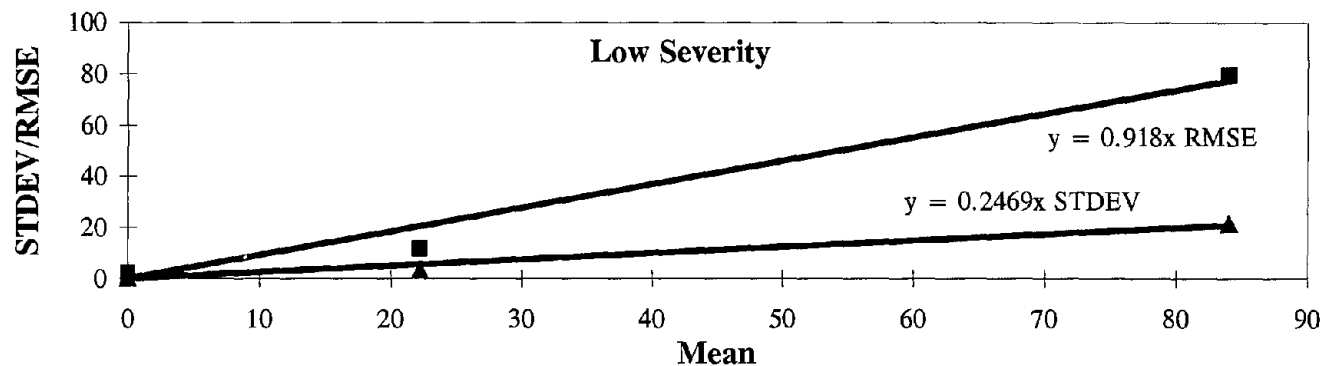


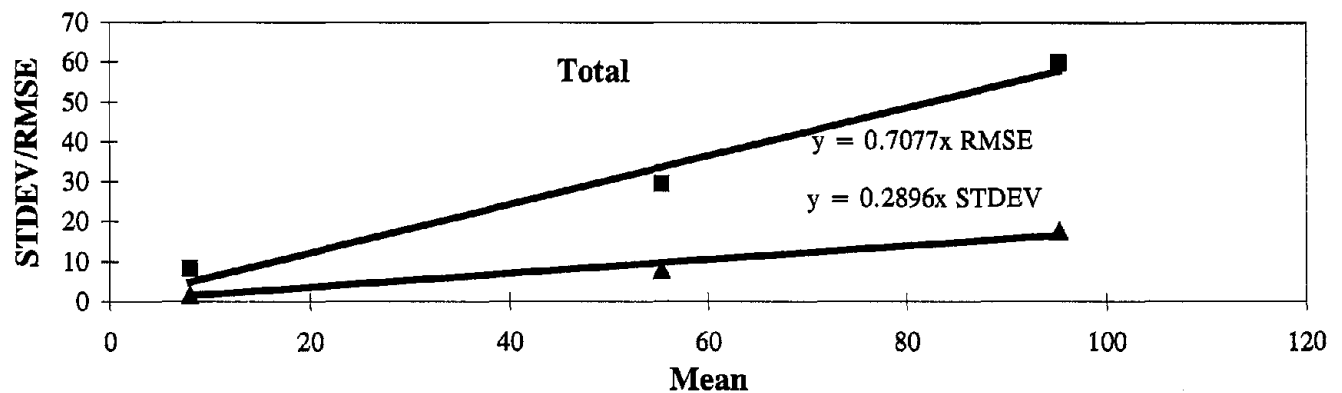
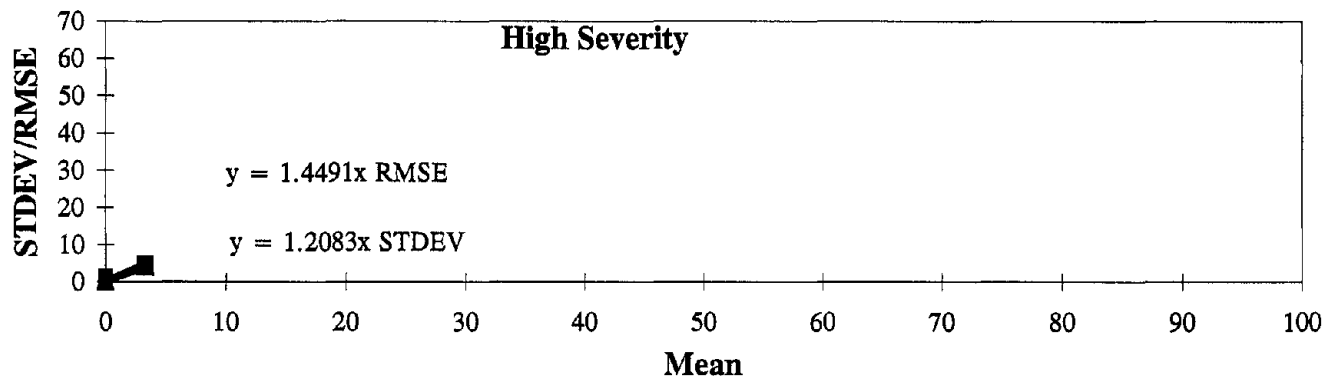
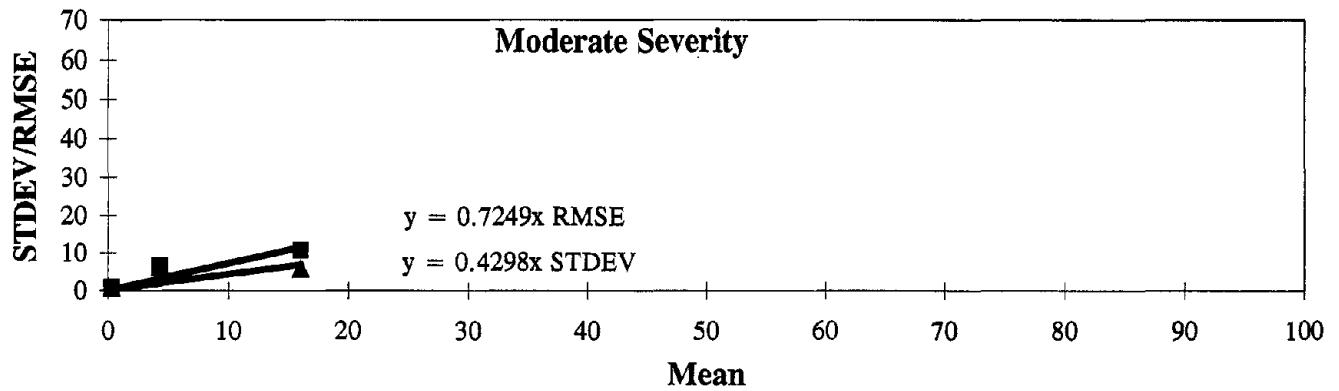
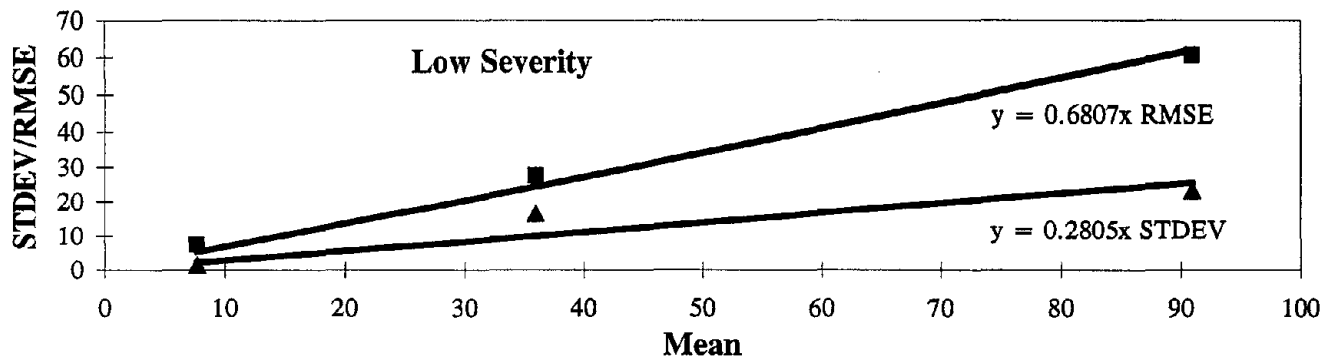
Figure 214. Fatigue Cracking (Sq. Meters) - AC Pavements, Teams:
Standard Deviation/RMSE Vs. Mean.



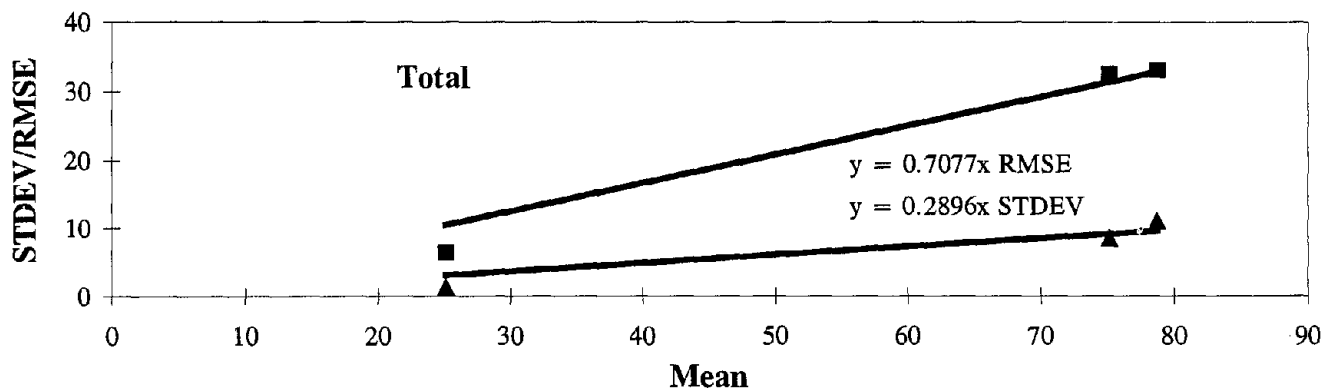
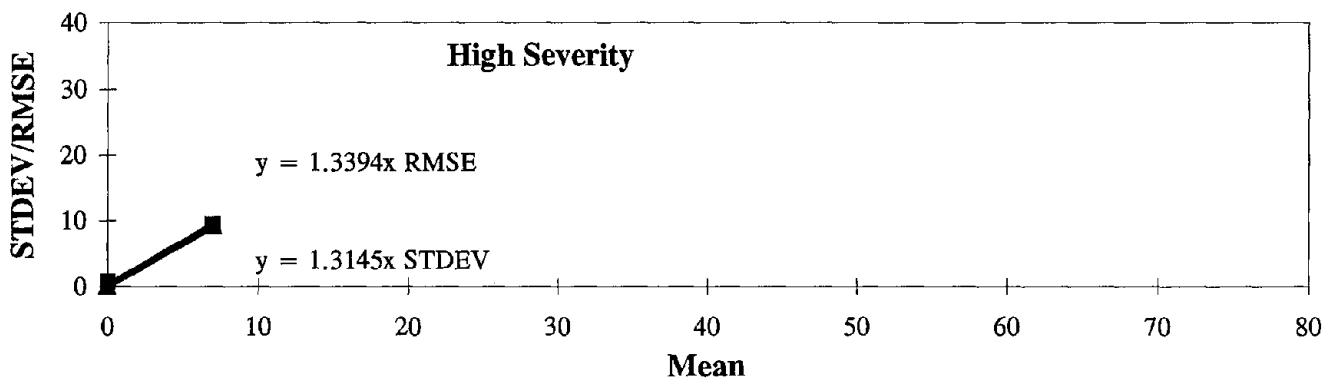
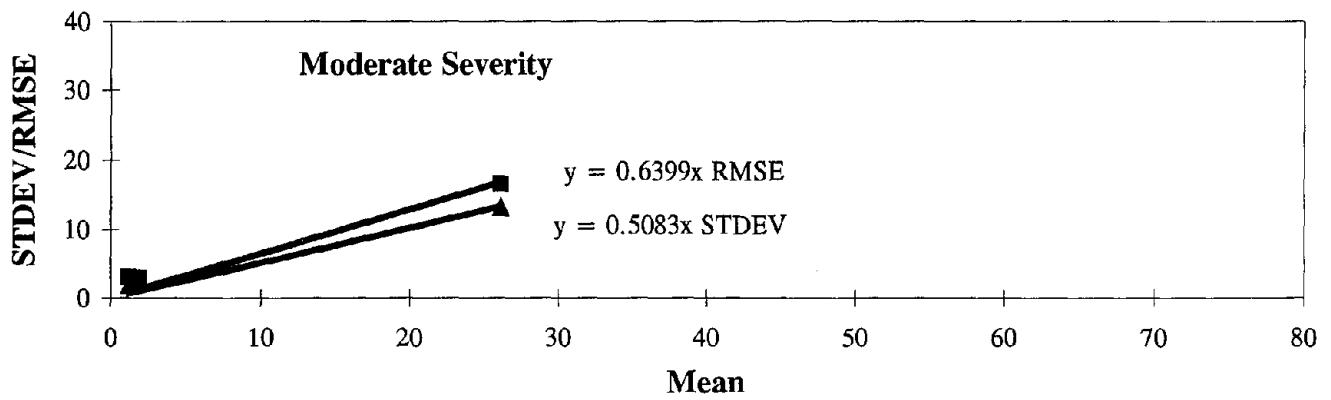
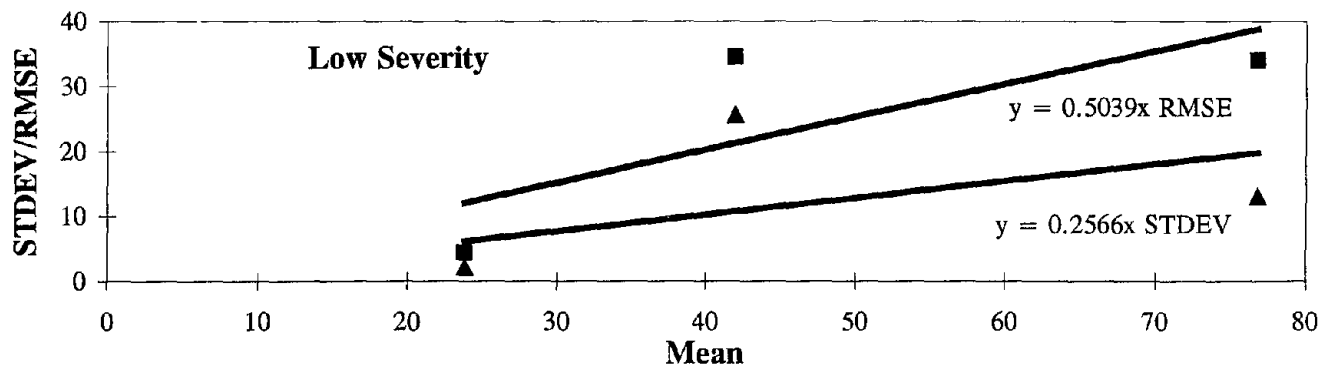
**Figure 215. Longitudinal Cracking NWP (Meters) - AC Pavements, Teams:
Standard Deviation/RMSE Vs. Mean.**



**Figure 216. Longitudinal Cracking WP (Meters) - AC Pavements, Teams:
Standard Deviation/RMSE Vs. Mean.**



**Figure 217. Transverse Cracking (No.) - AC Pavements, Teams:
Standard Deviation/RMSE Vs. Mean.**



**Figure 218. Transverse Cracking (Meters) - AC Pavements, Teams:
Standard Deviation/RMSE Vs. Mean.**

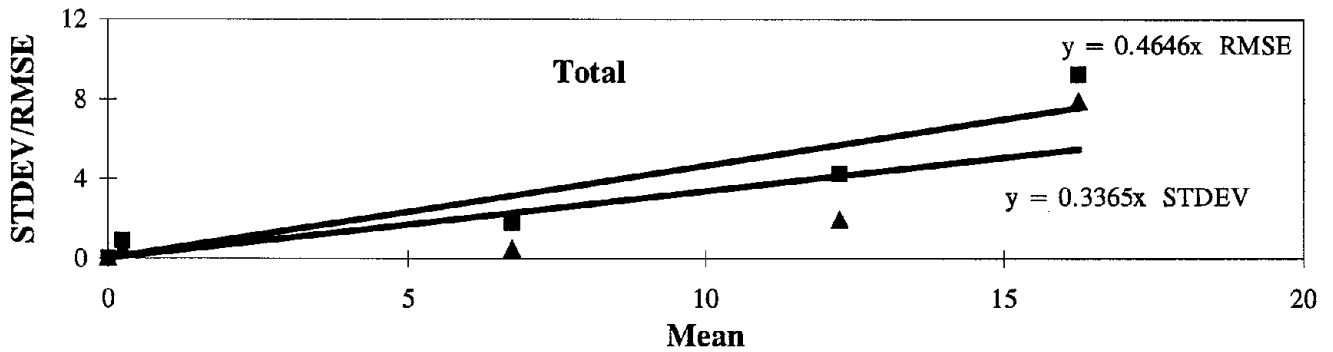
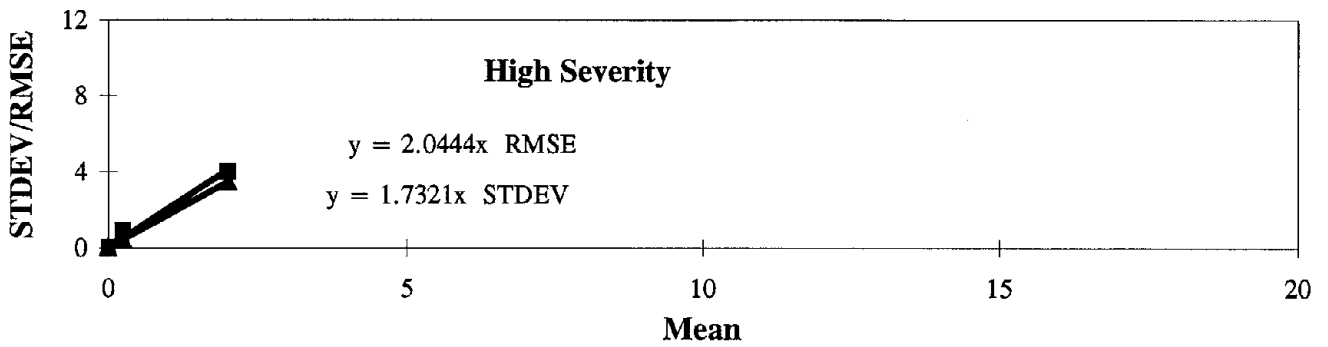
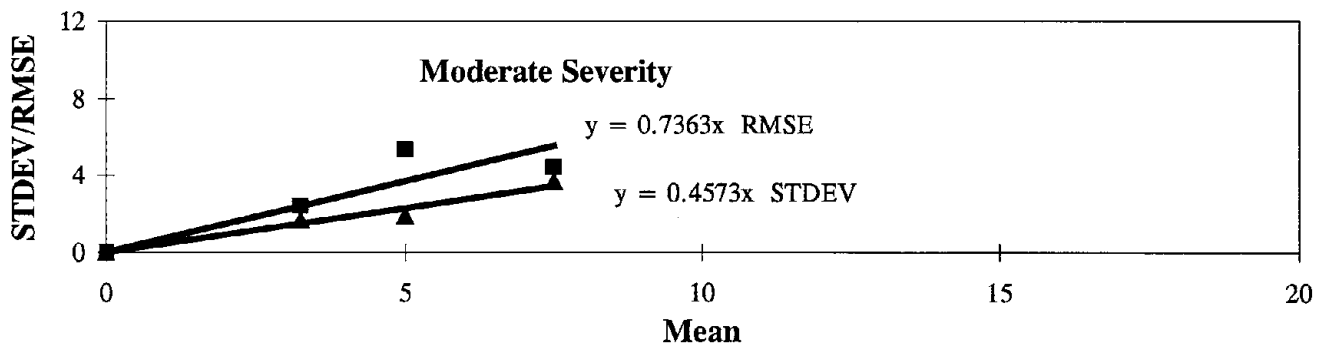
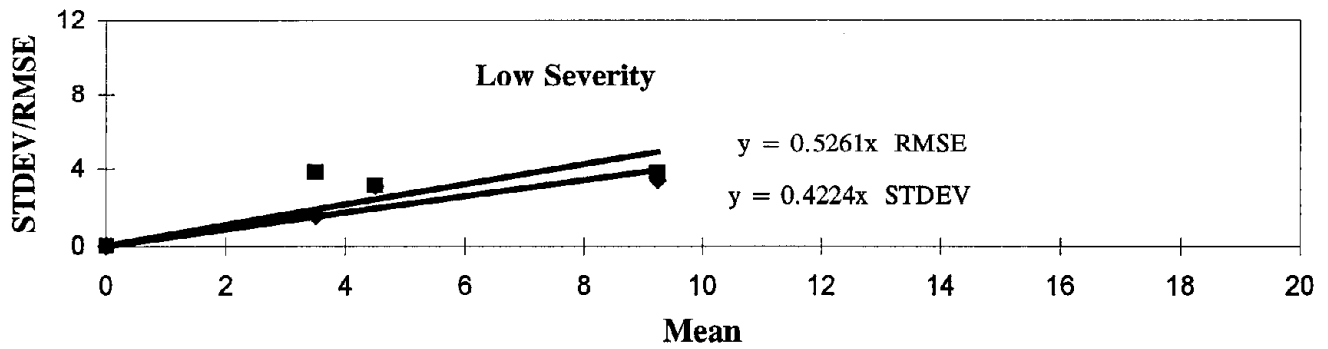


Figure 219. Corner Breaks (No.) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

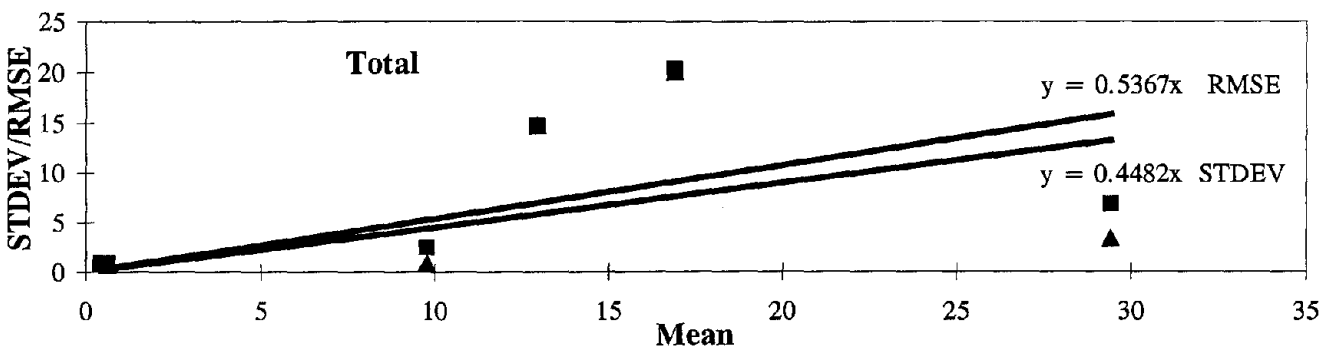
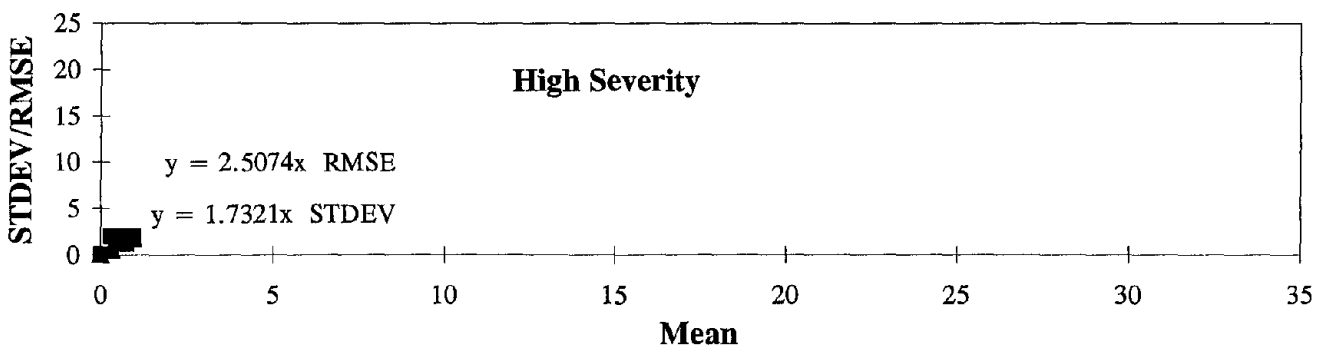
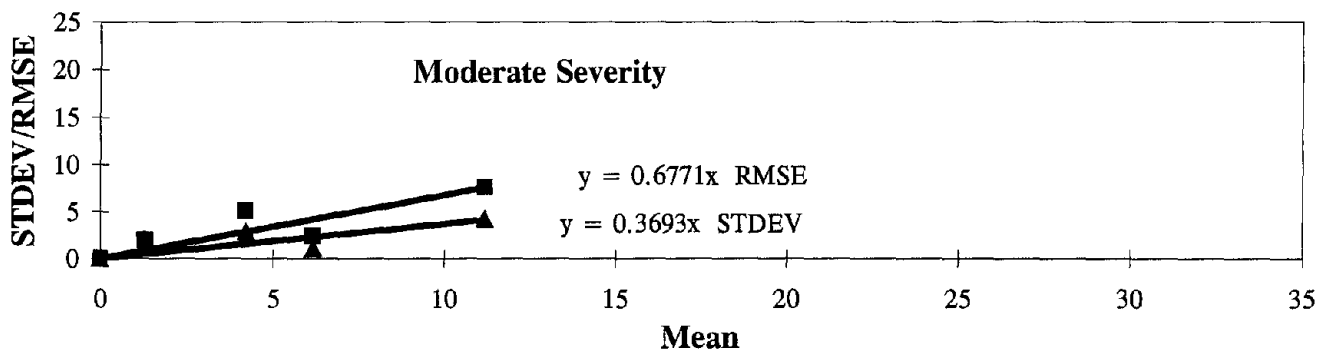
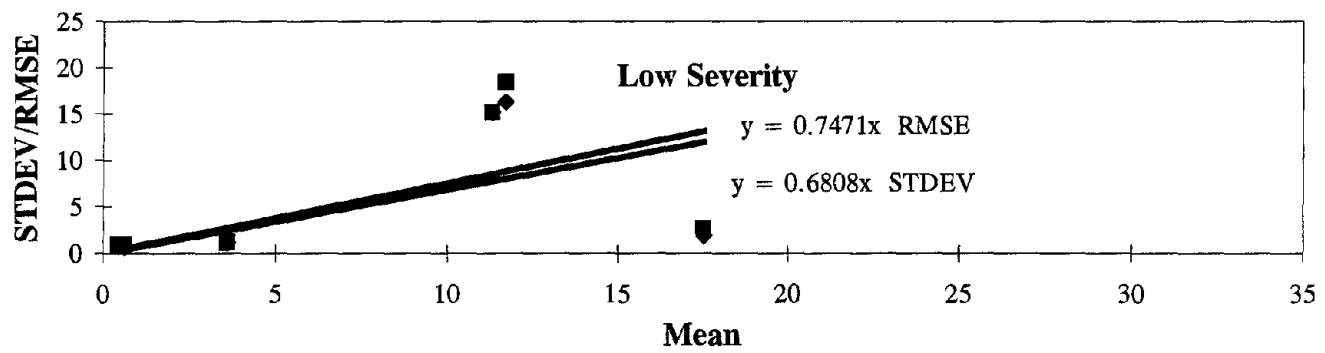


Figure 220. Longitudinal Cracking (Meters) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

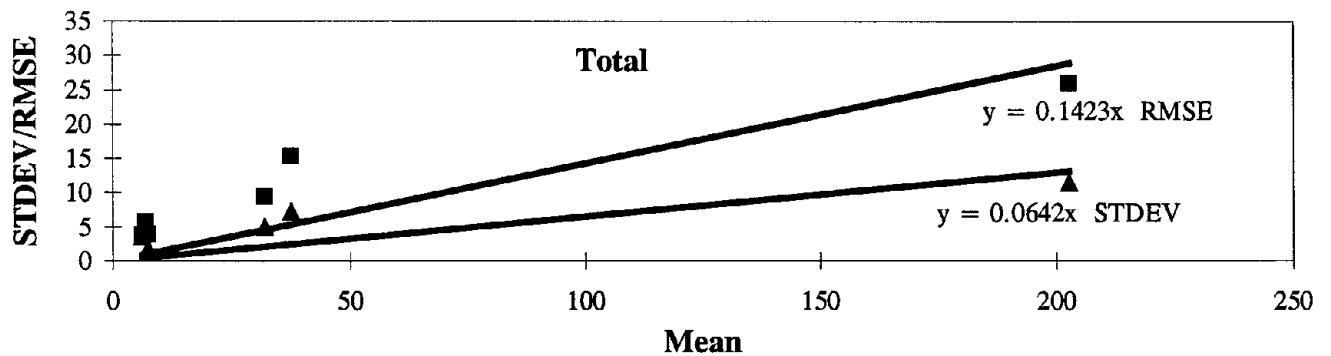
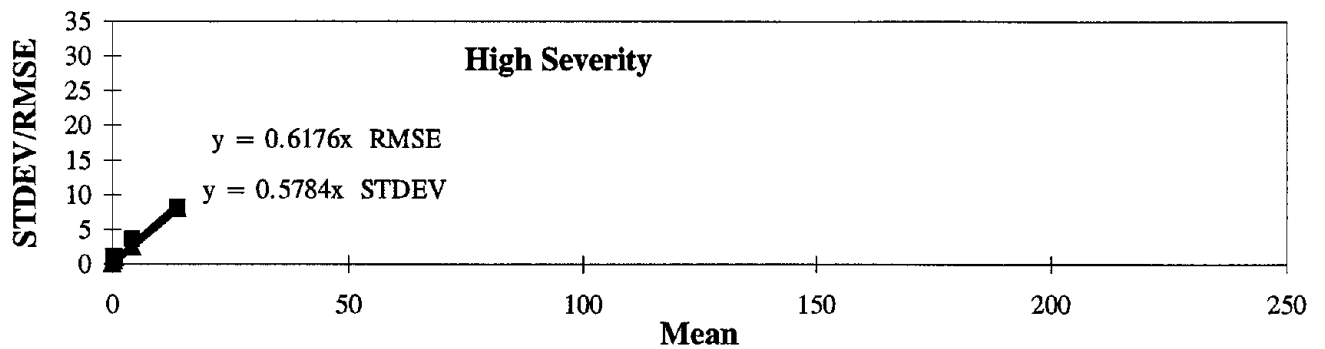
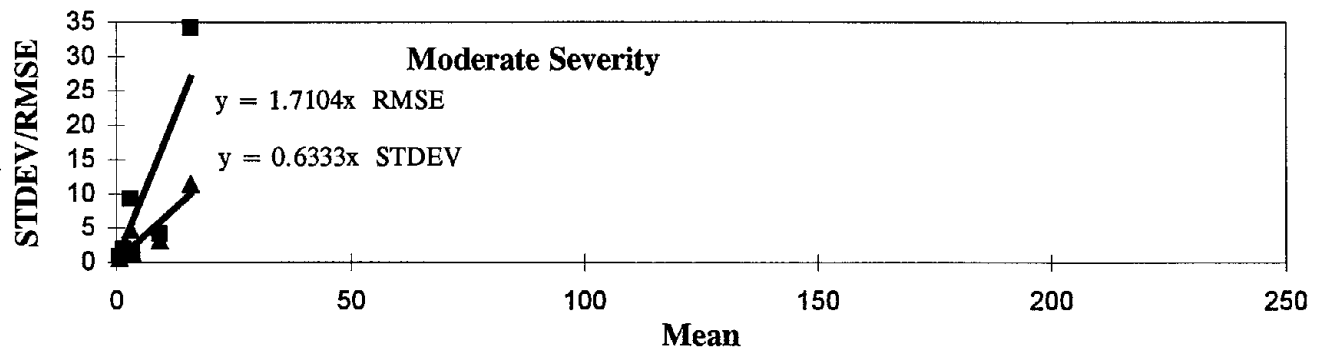
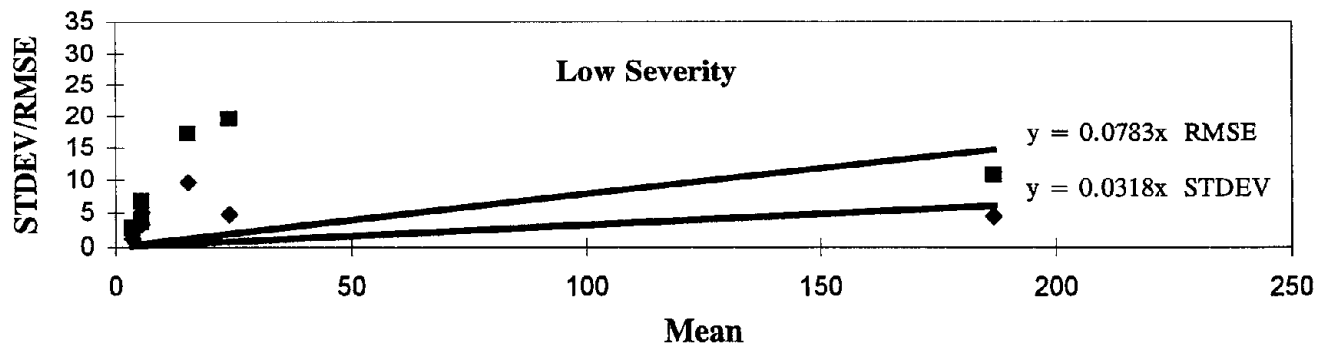


Figure 221. Transverse Cracking (No.) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

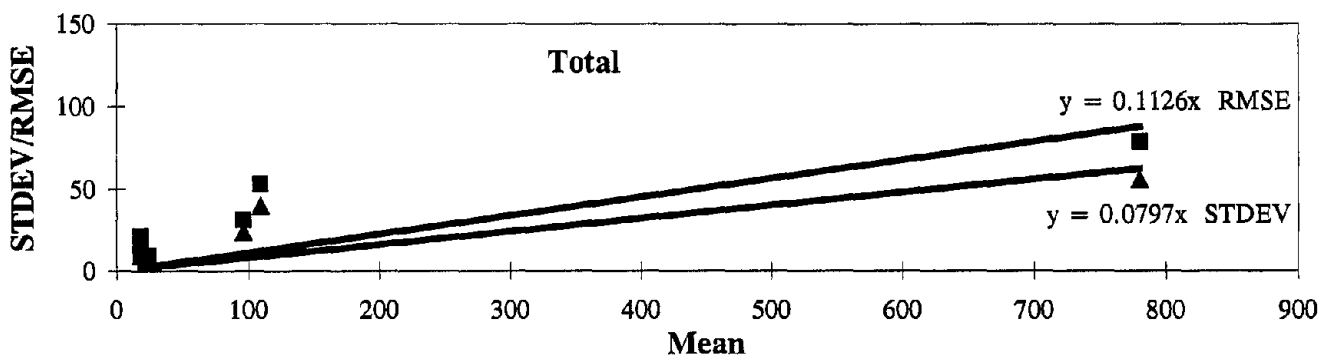
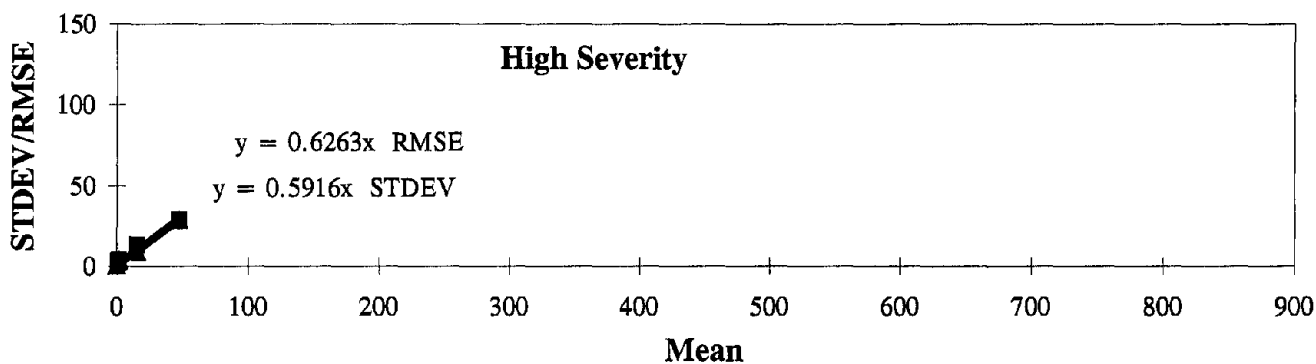
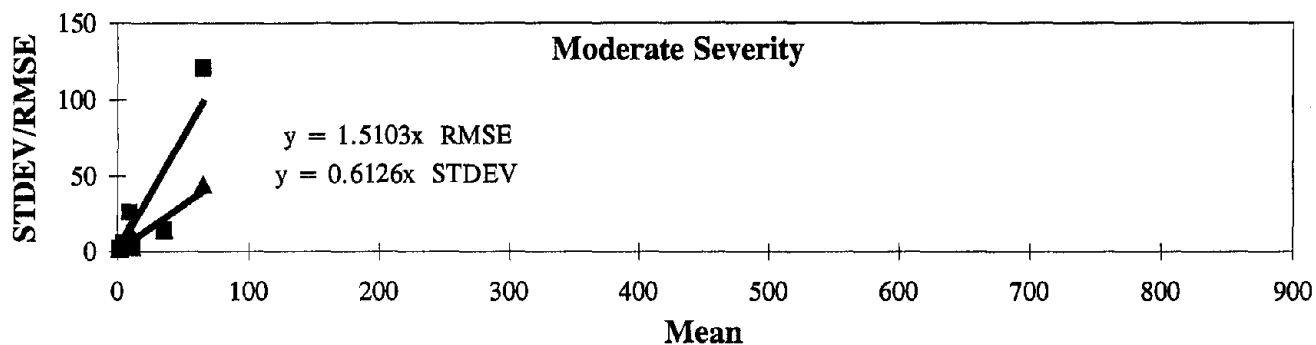
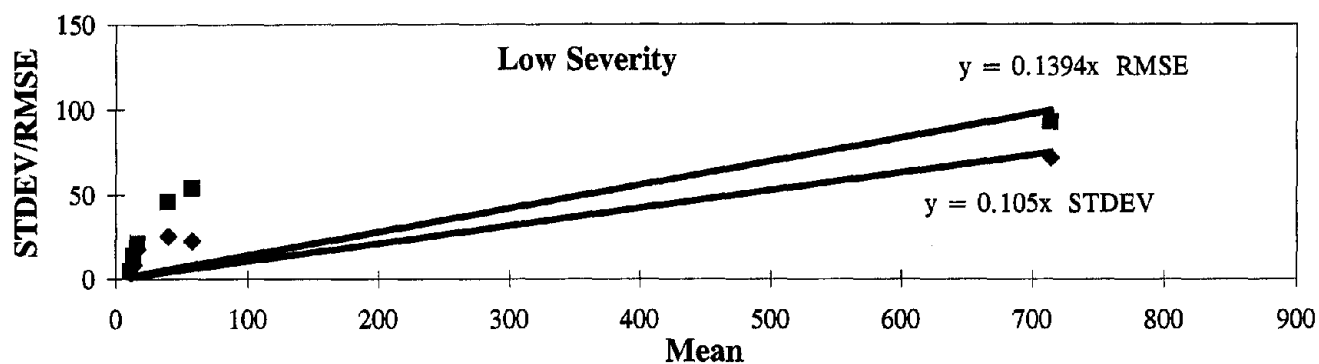


Figure 222. Transverse Cracking (Meters) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

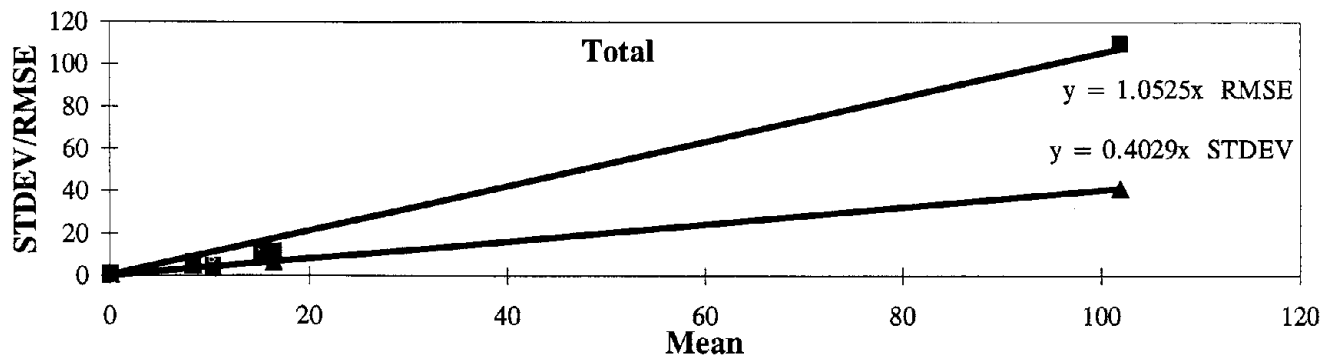
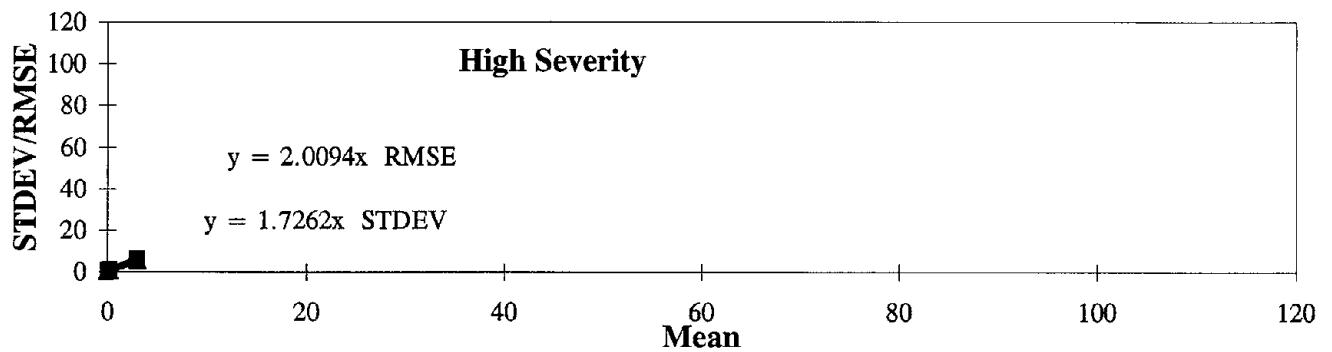
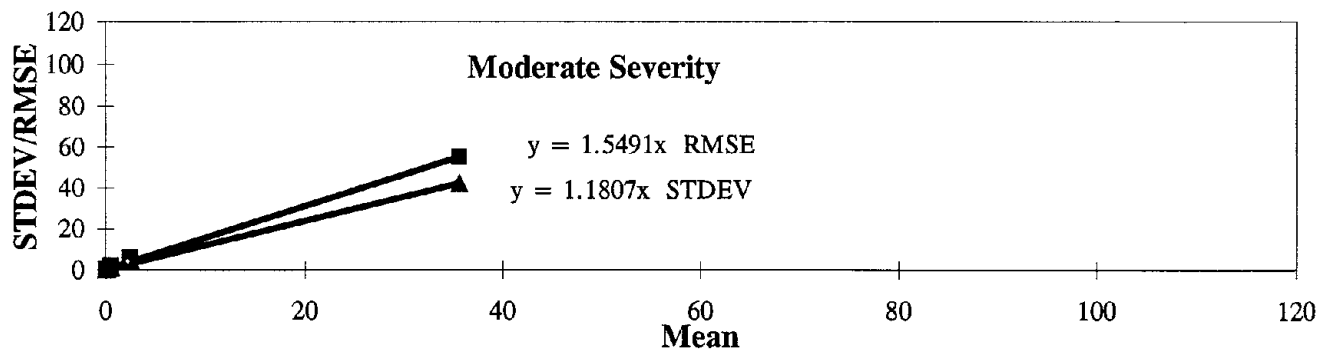
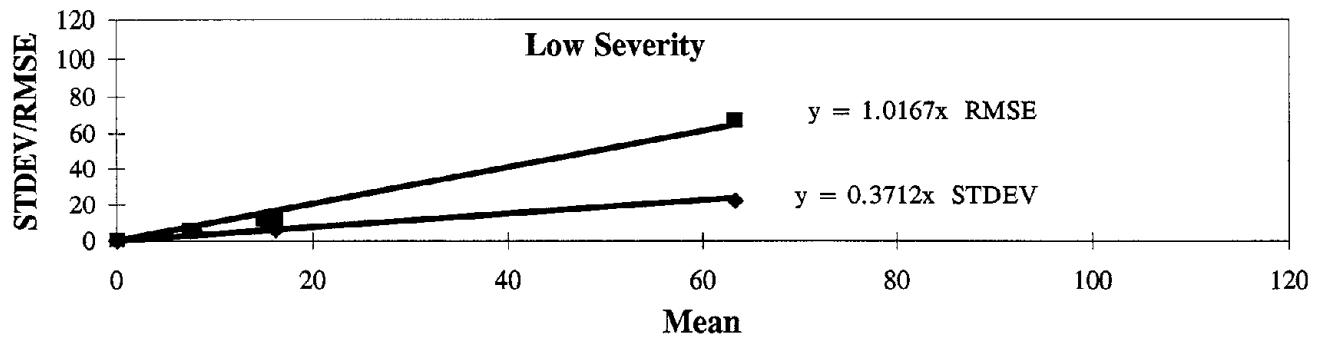


Figure 223. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Expert Raters; PASCO Method: Standard Deviation/RMSE Vs. Mean.

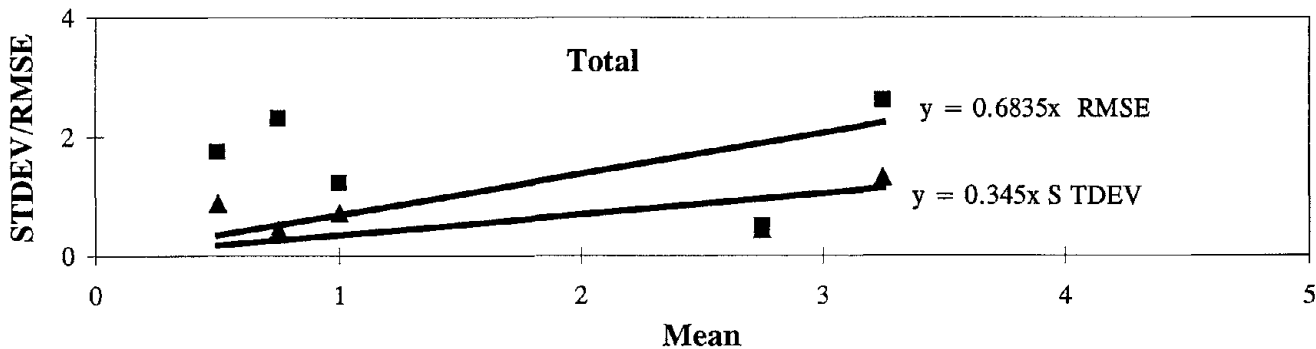
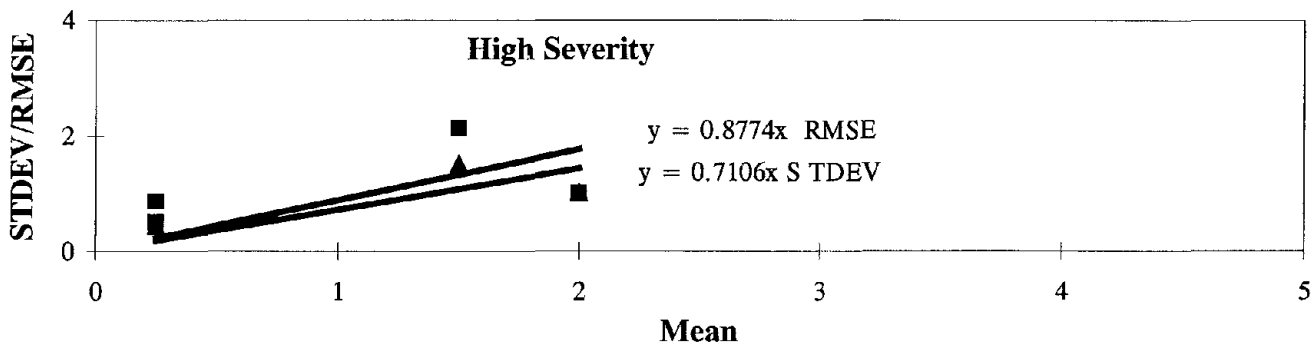
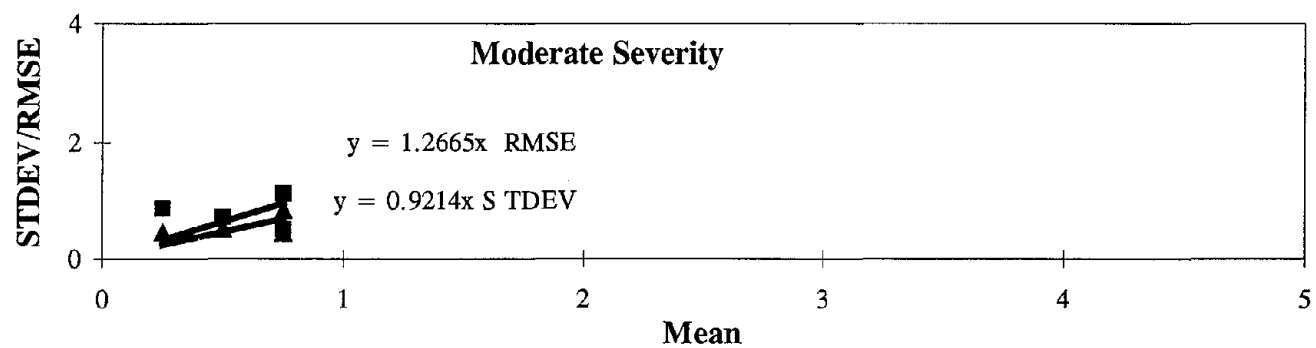
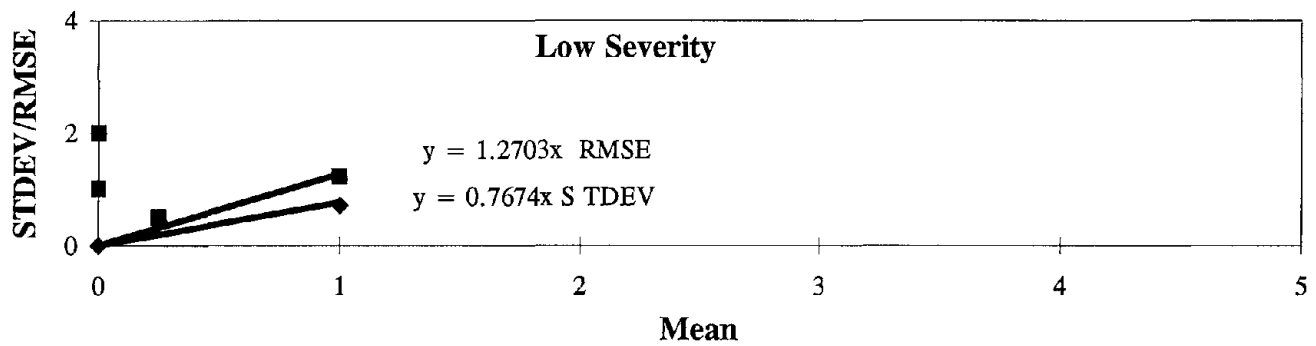


Figure 224. Spalling of Transverse Joints (No.) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

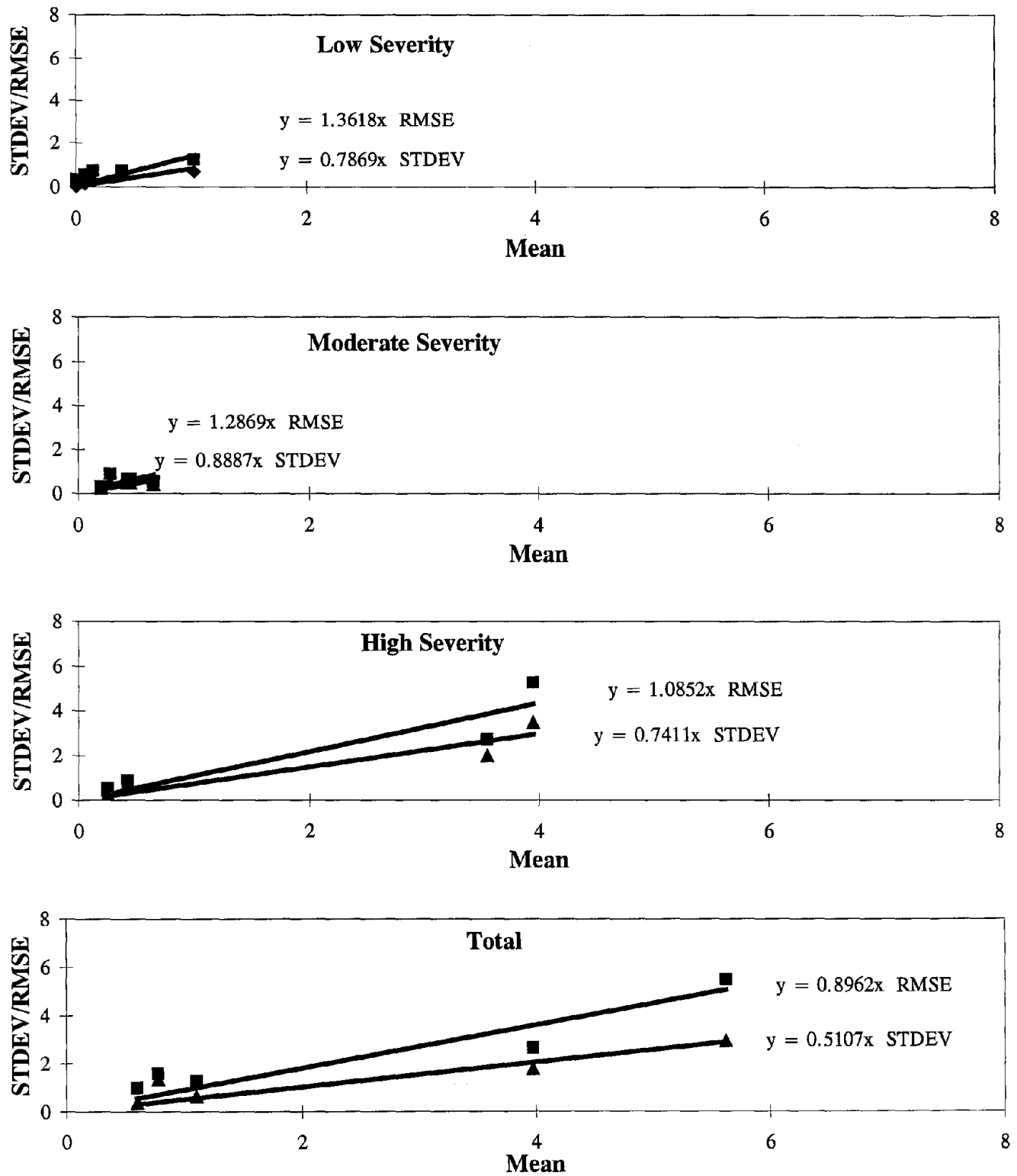


Figure 225. Spalling of Transverse Joints (Meters) - PCC Pavements, Expert Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

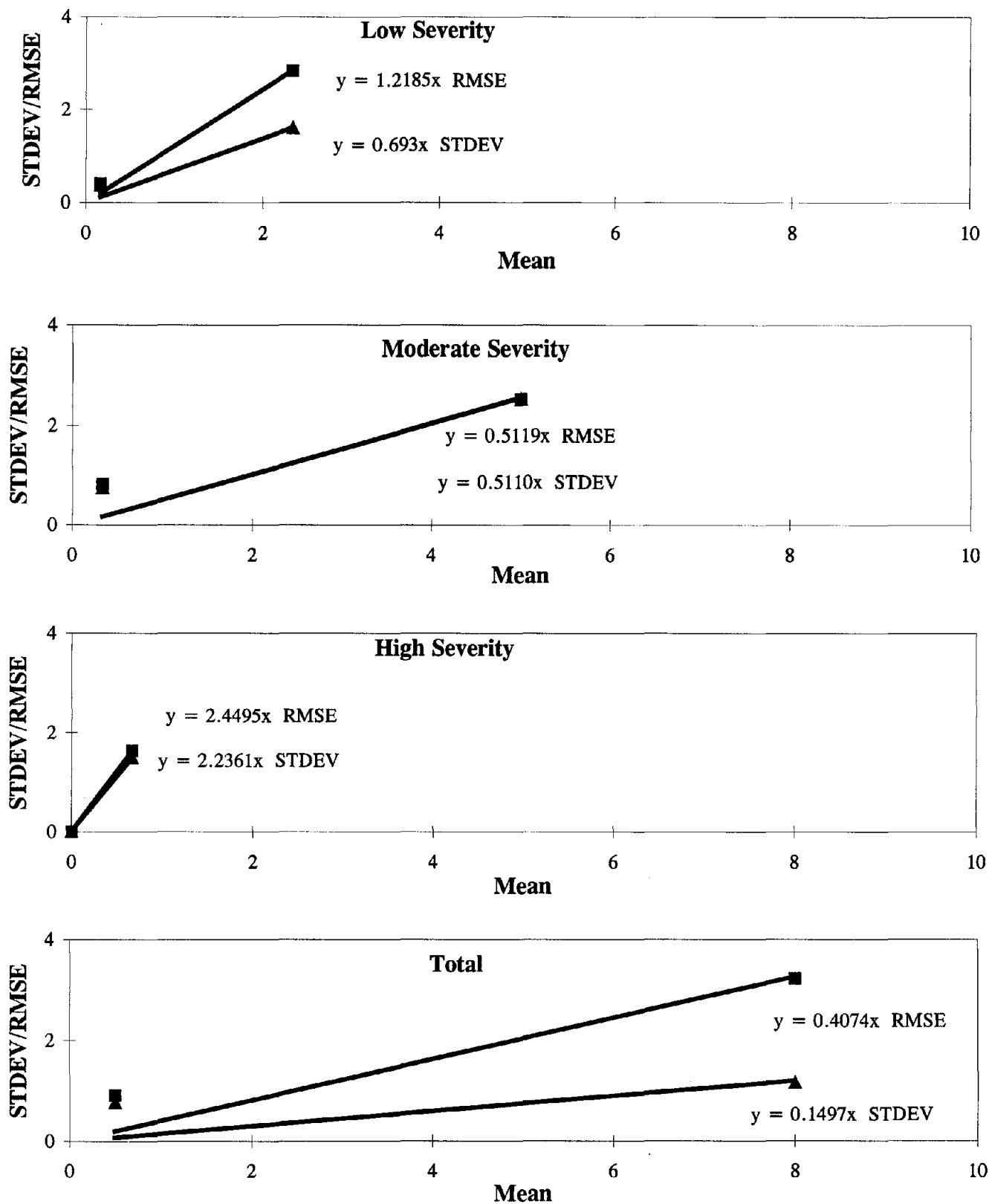


Figure 226. Corner Breaks (No.) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

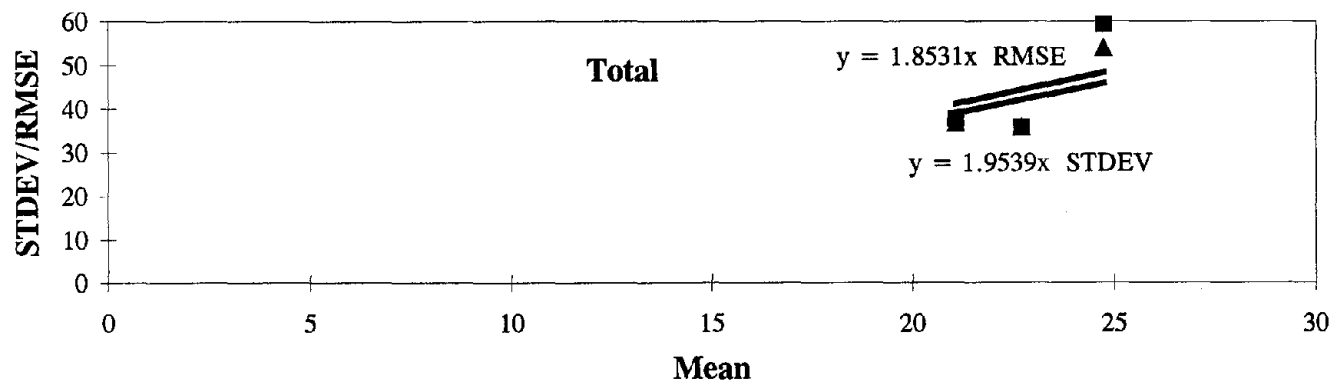
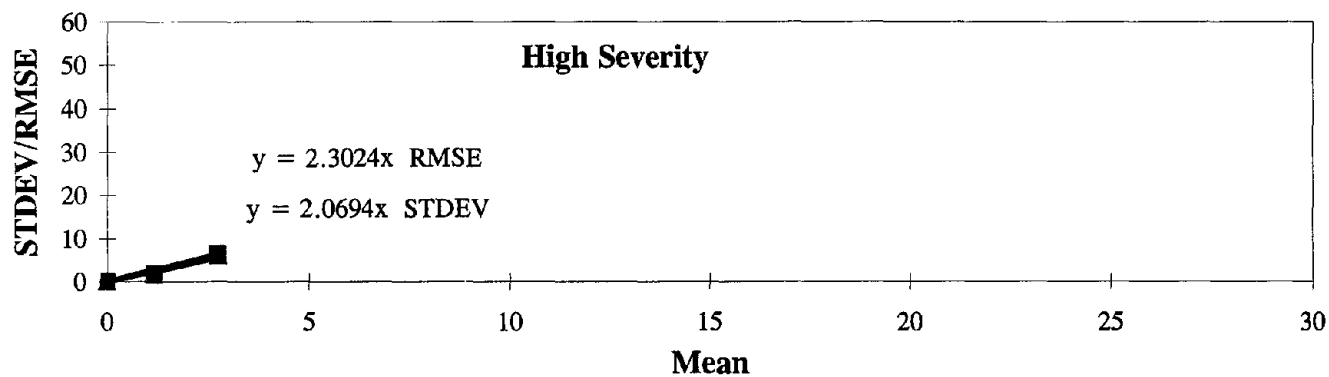
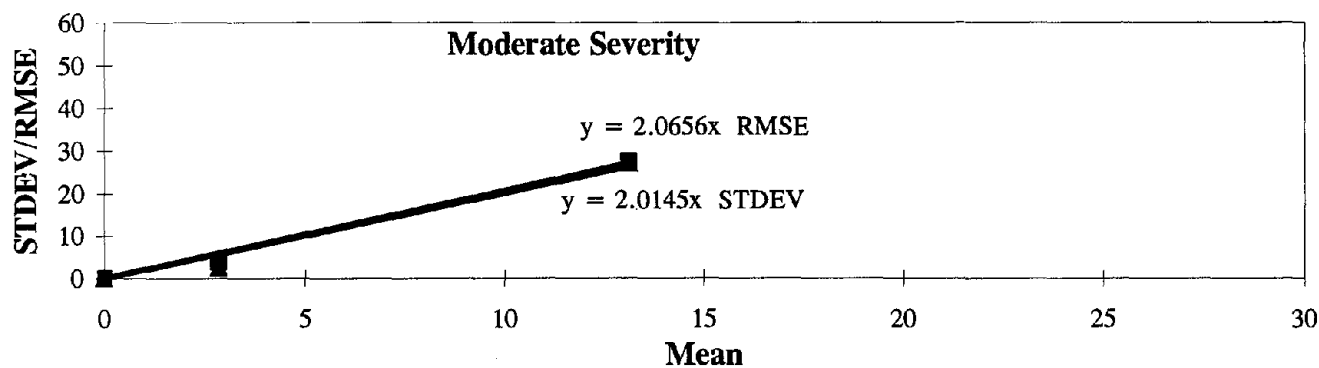
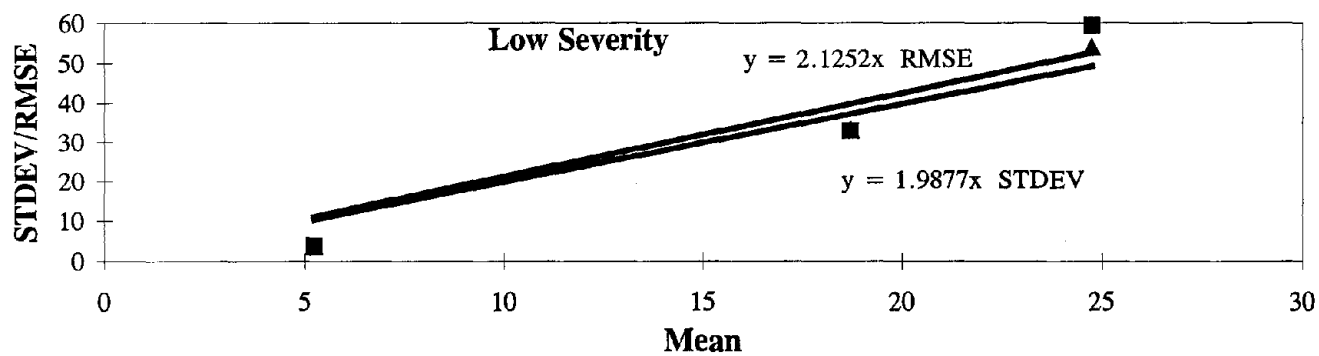


Figure 227. Longitudinal Cracking (Meters) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

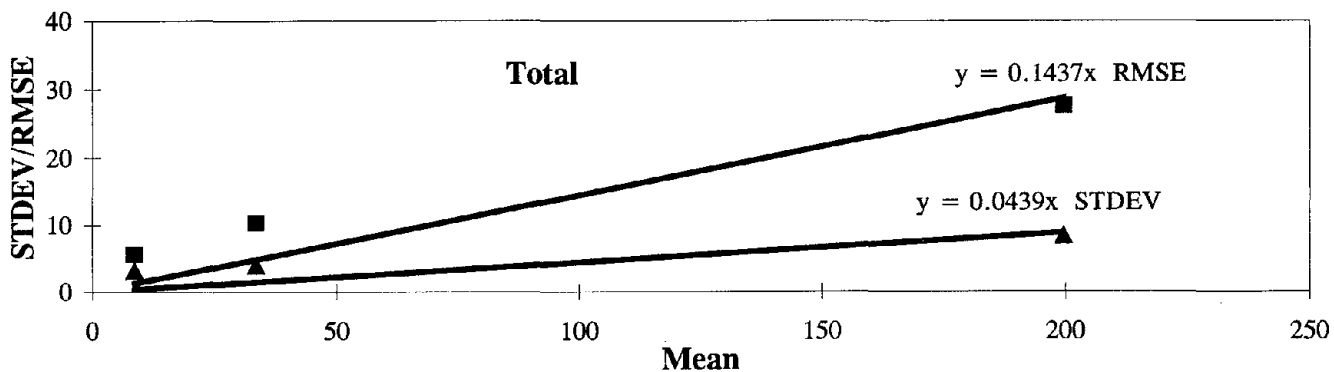
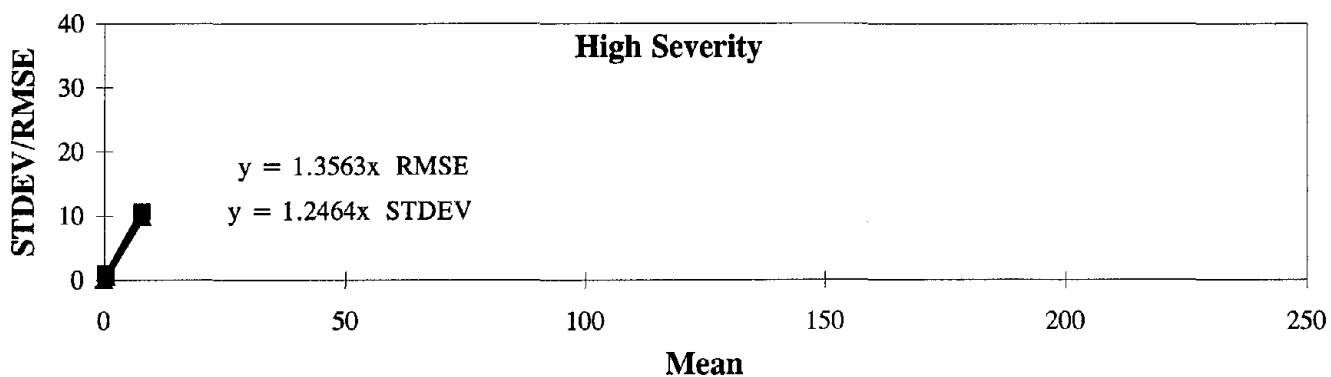
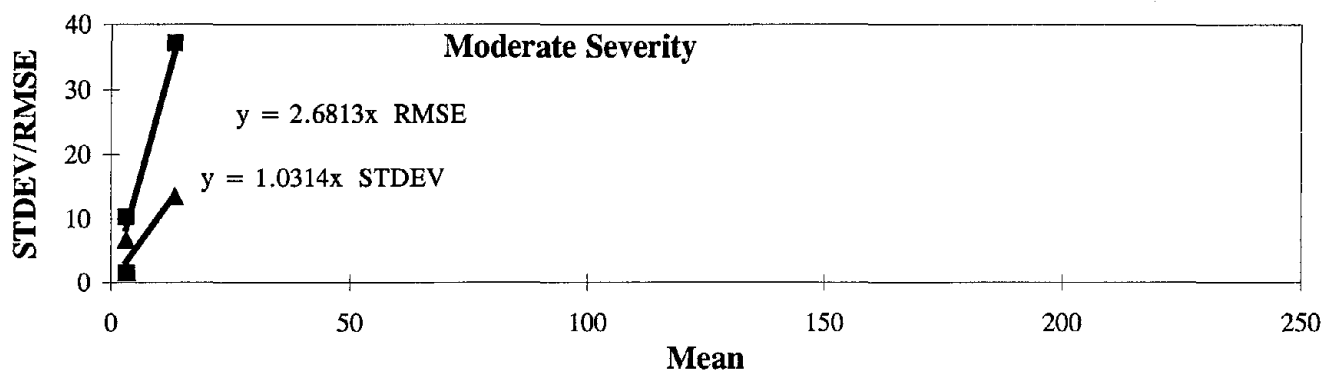
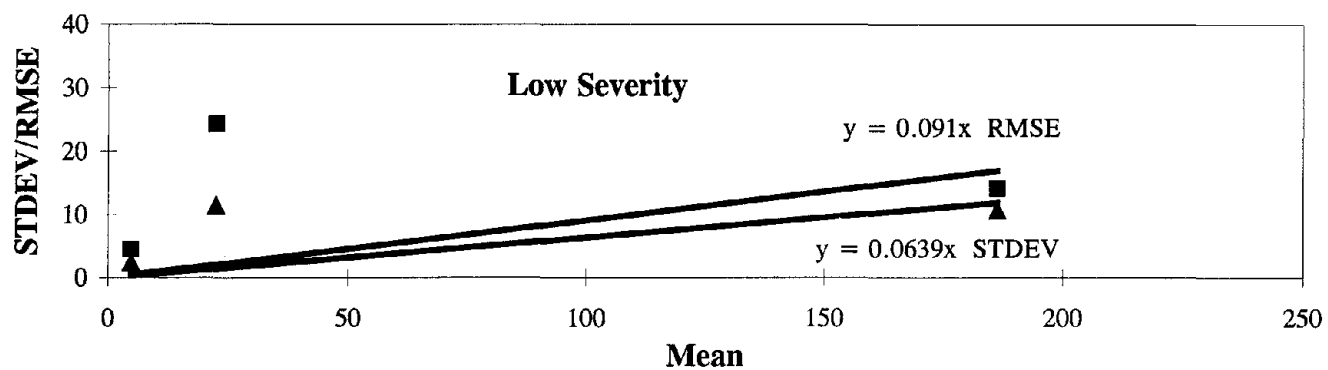


Figure 228. Transverse Cracking (No.) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

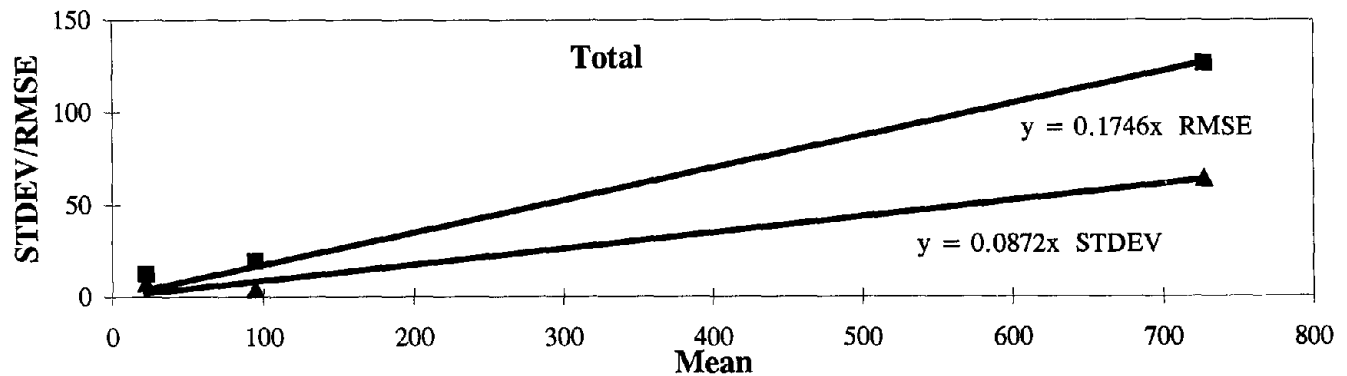
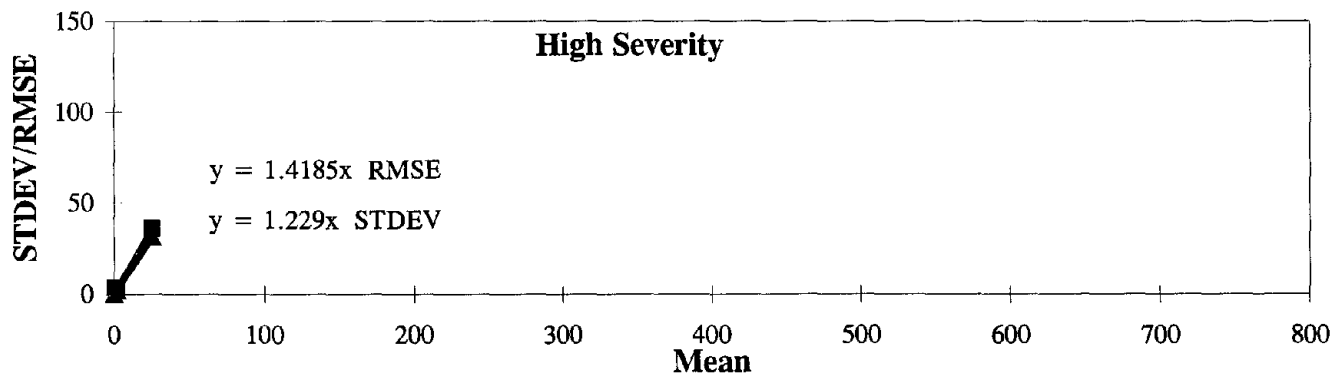
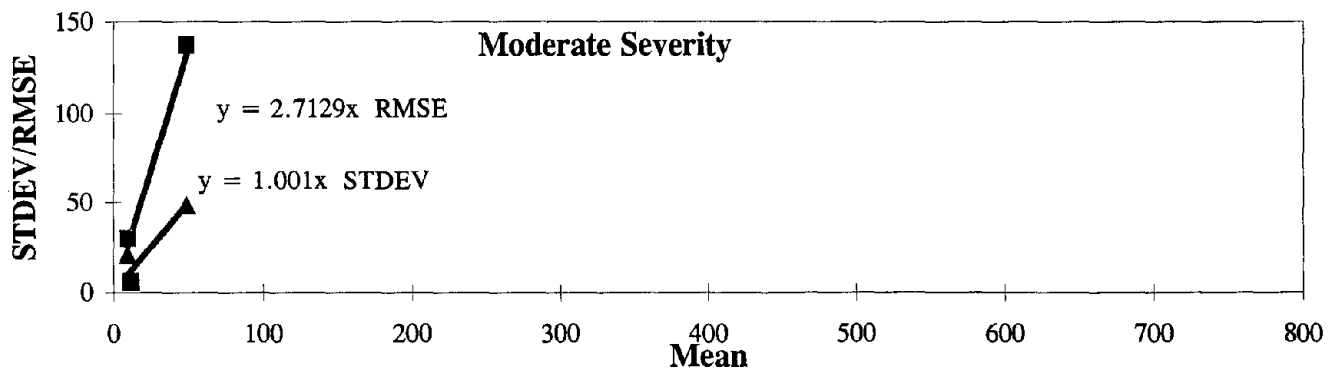
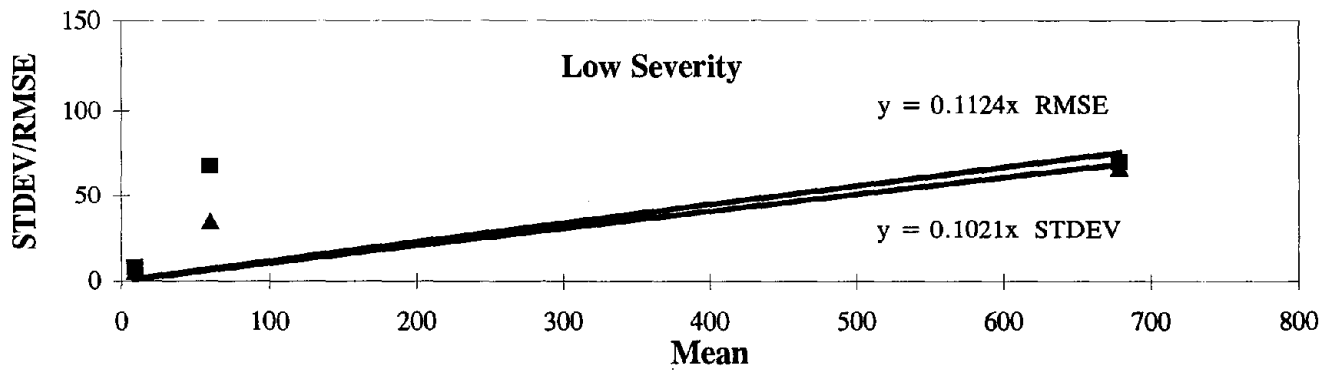


Figure 229. Transverse Cracking (Meters) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

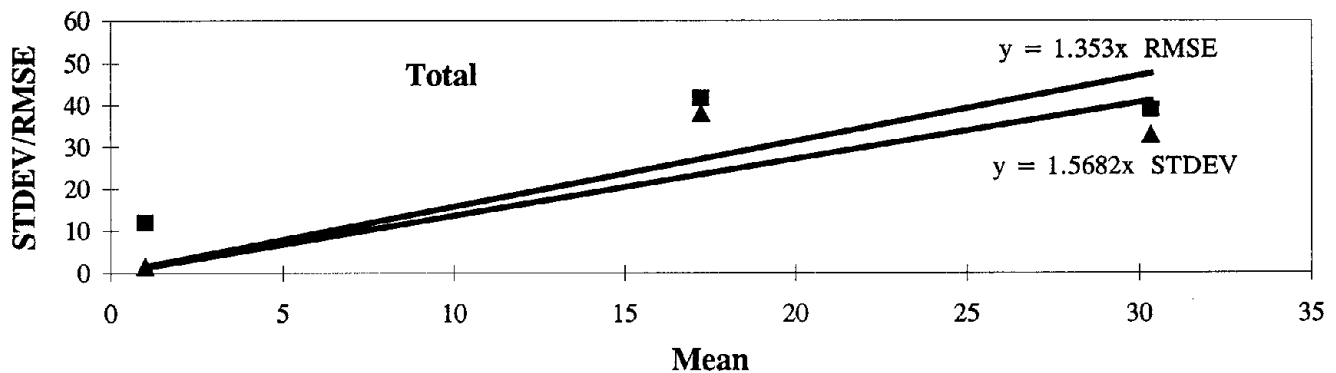
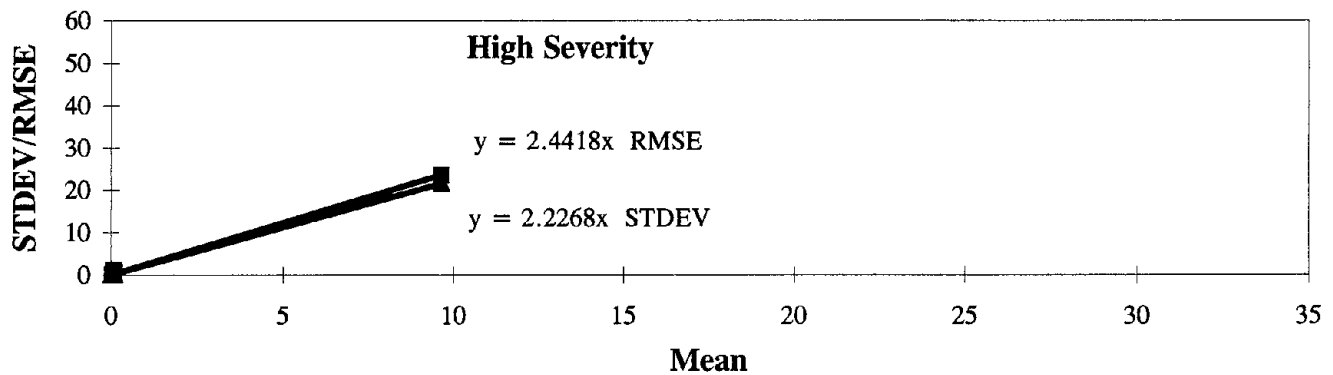
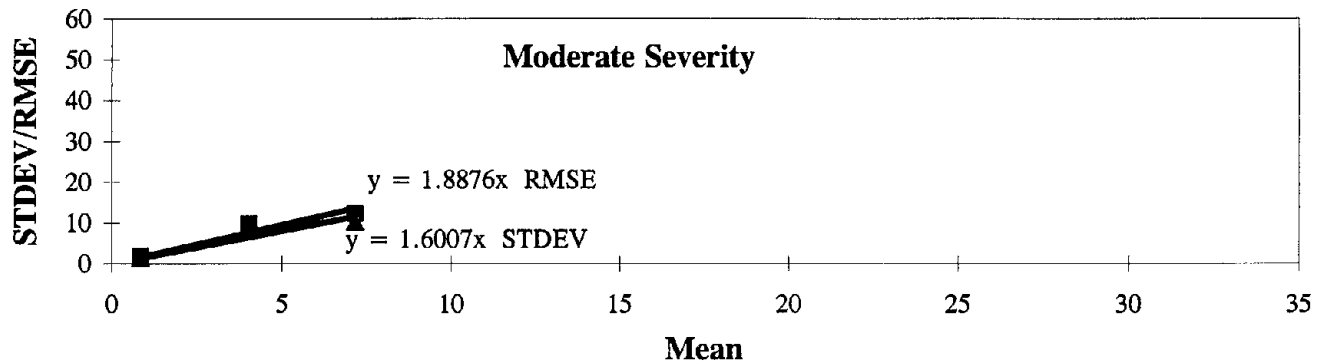
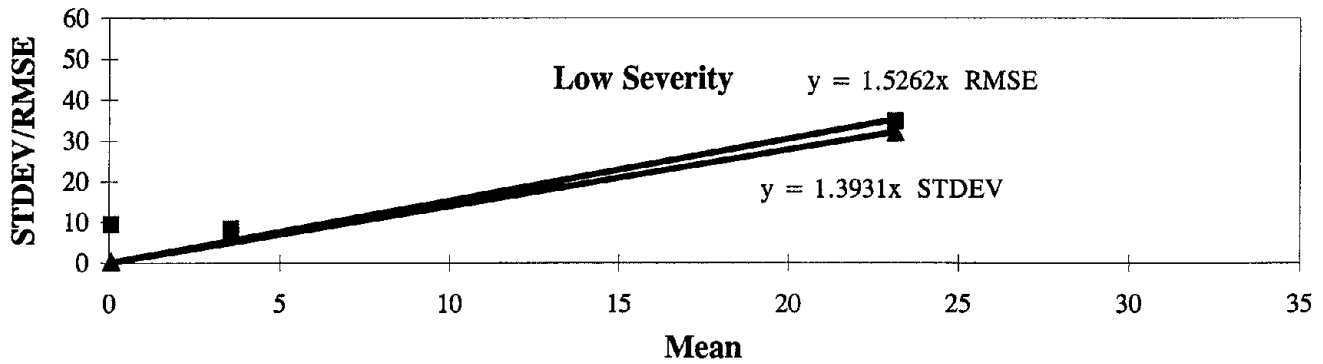


Figure 230. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

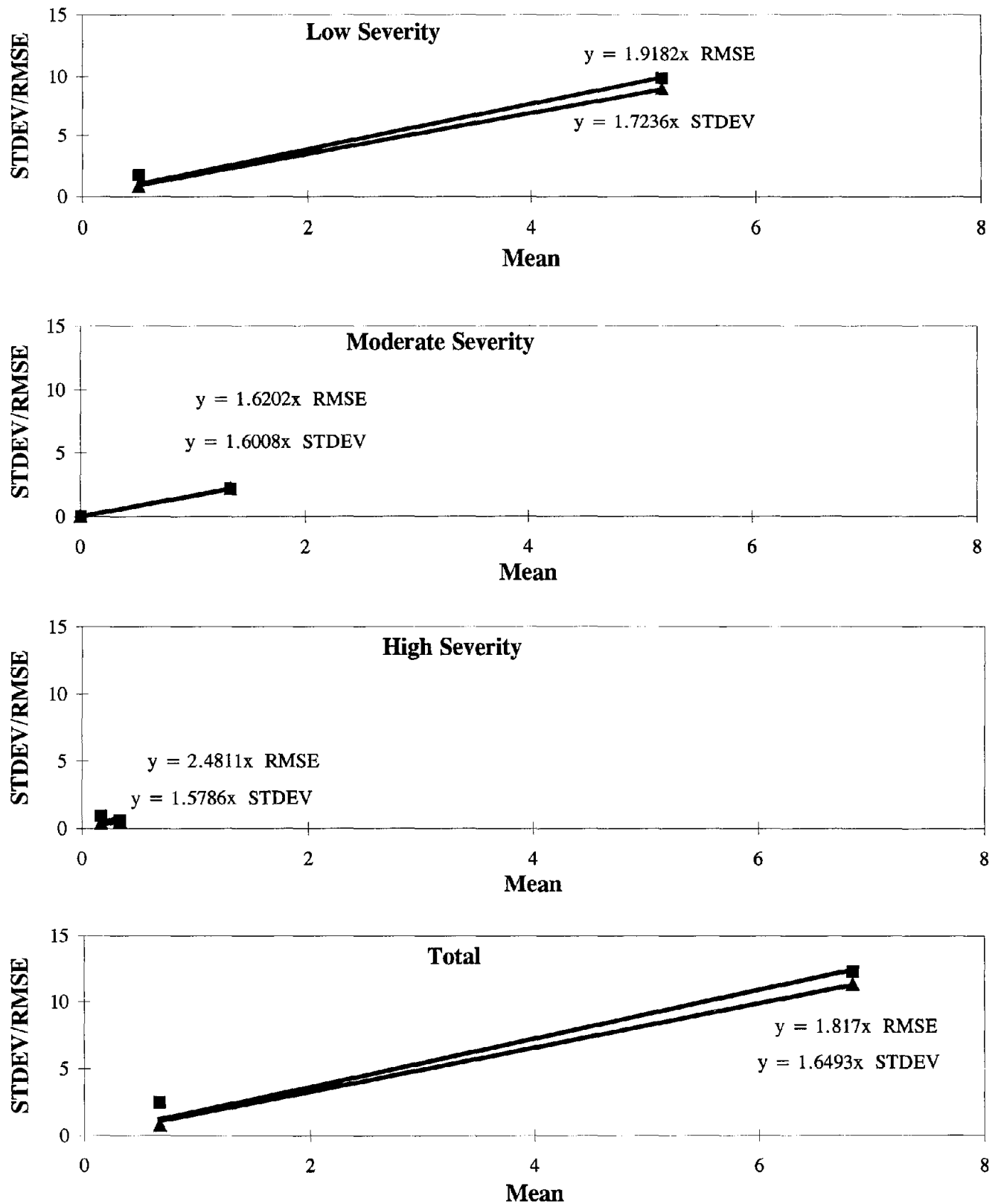


Figure 231. Spalling of Transverse Joints (No.) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

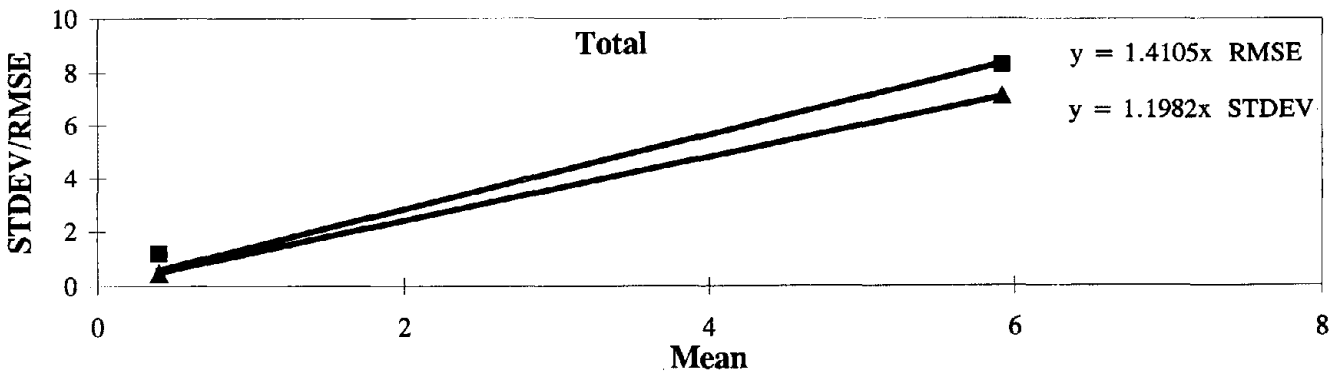
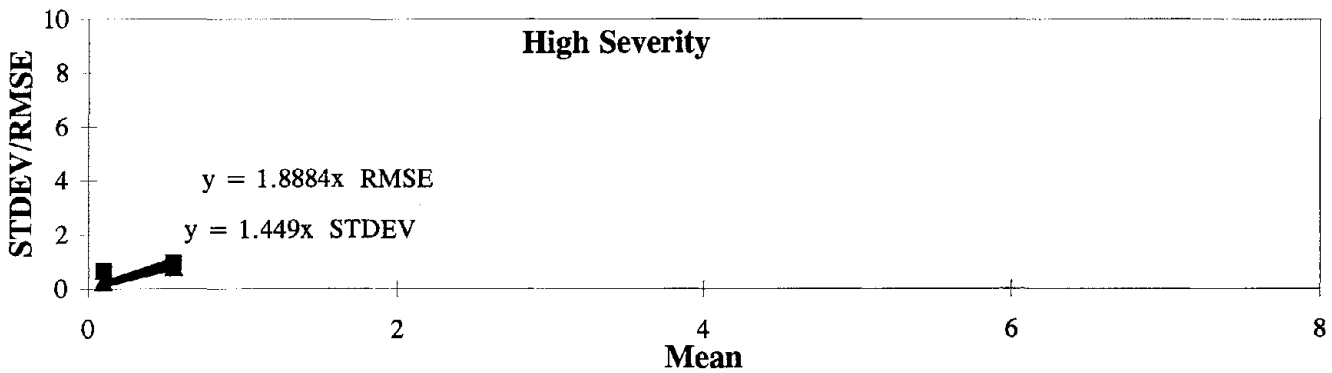
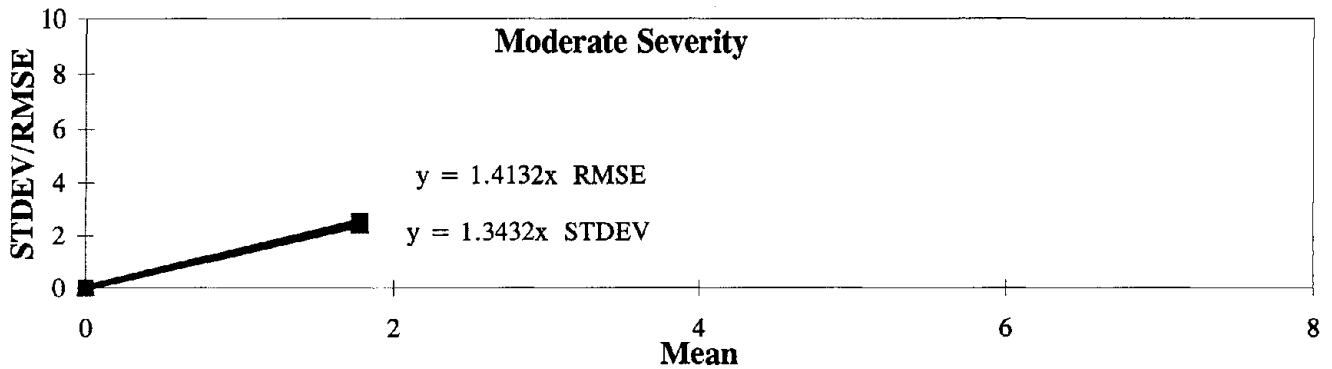
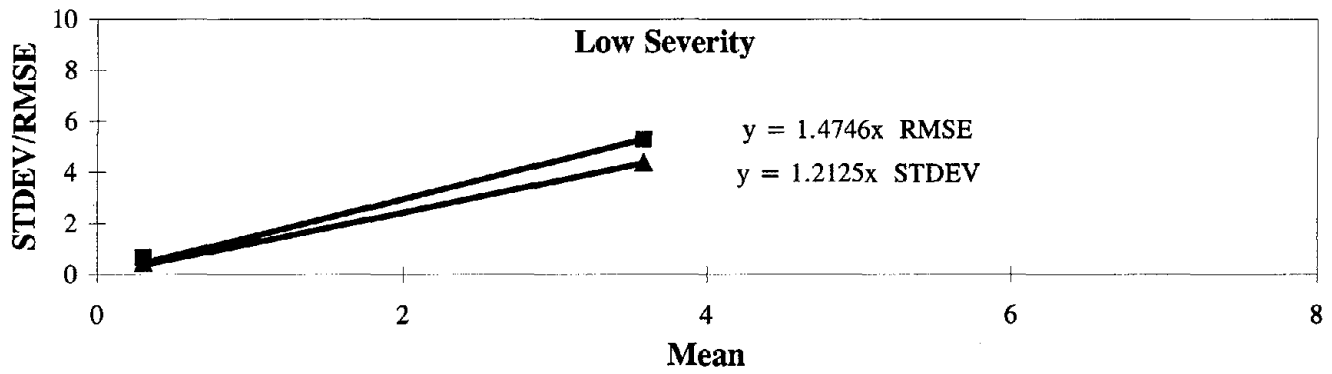


Figure 232. Spalling of Transverse Joints (Meters) - PCC Pavements, Individual Raters, PASCO Method: Standard Deviation/RMSE Vs. Mean.

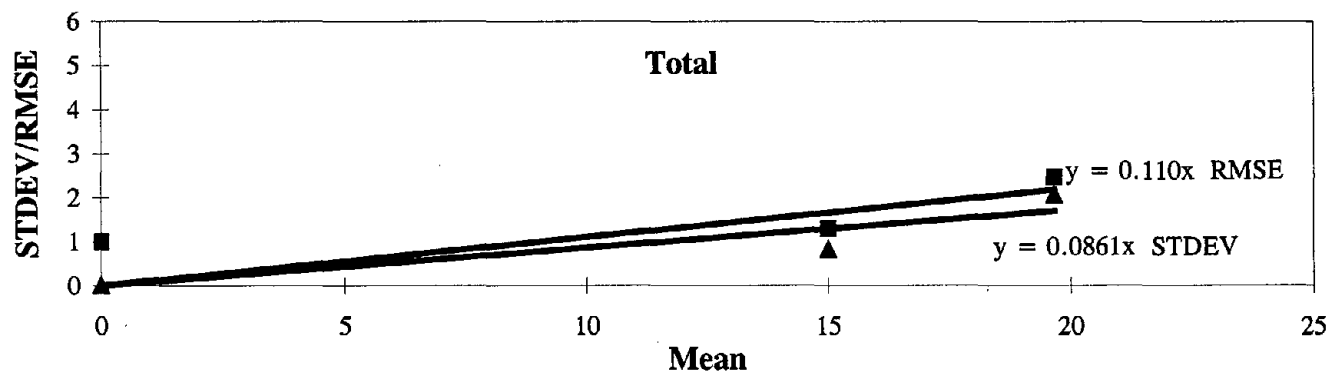
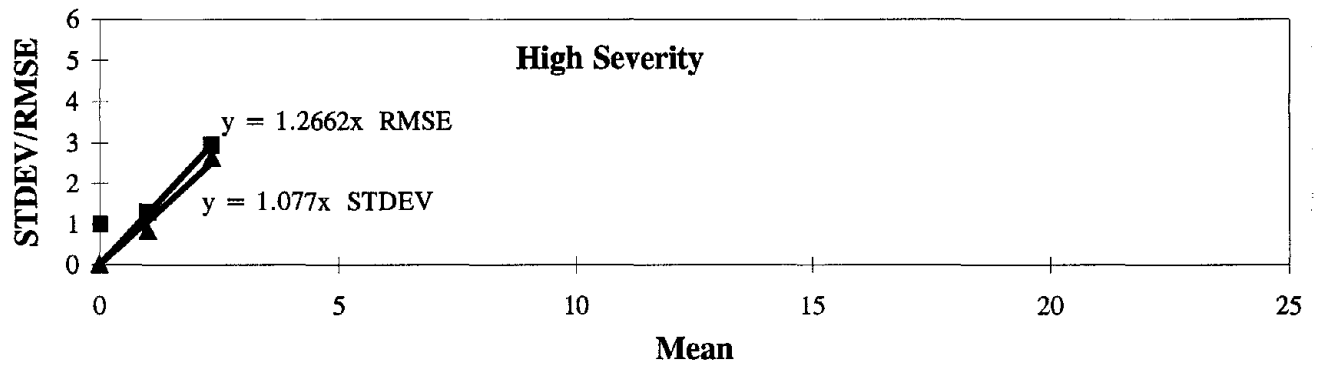
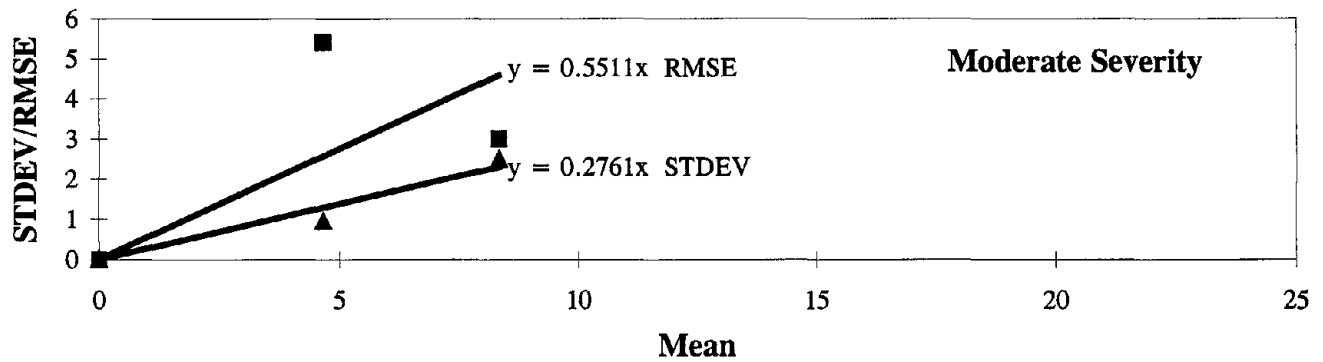
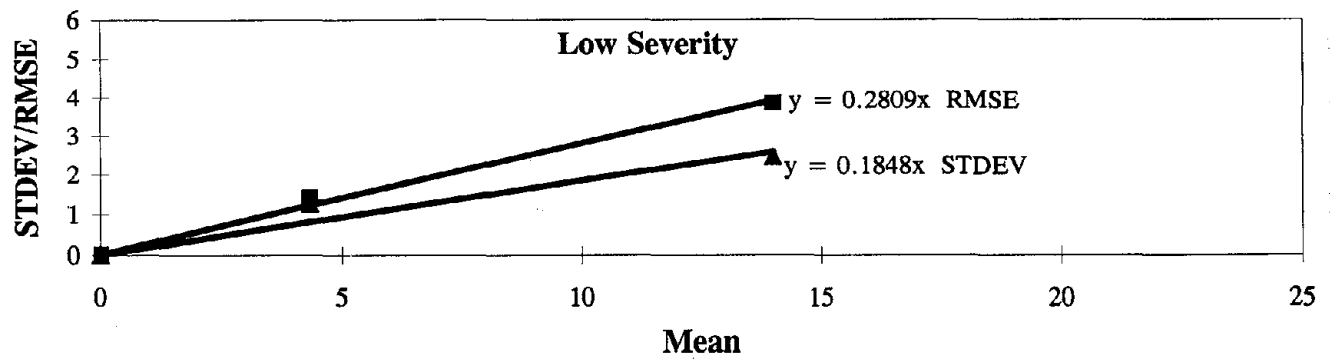


Figure 233. Corner Breaks (No.) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.

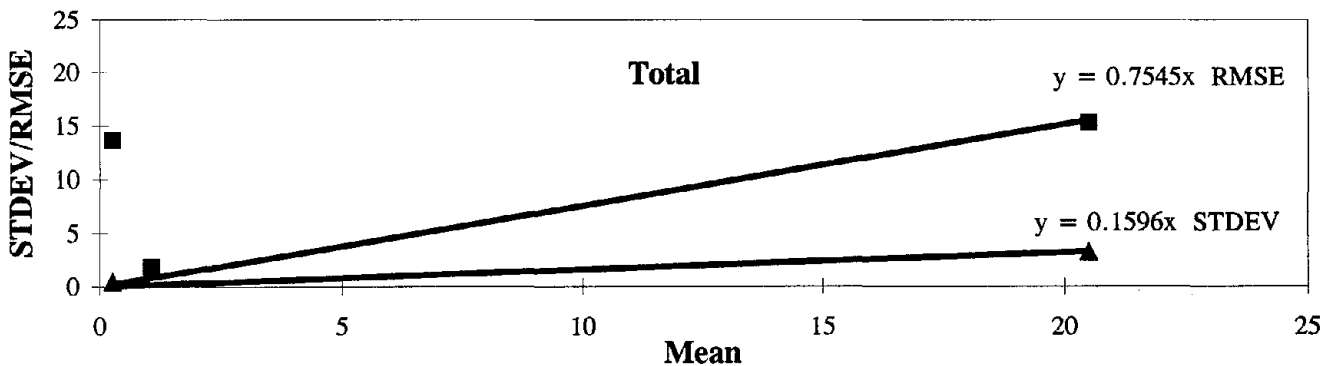
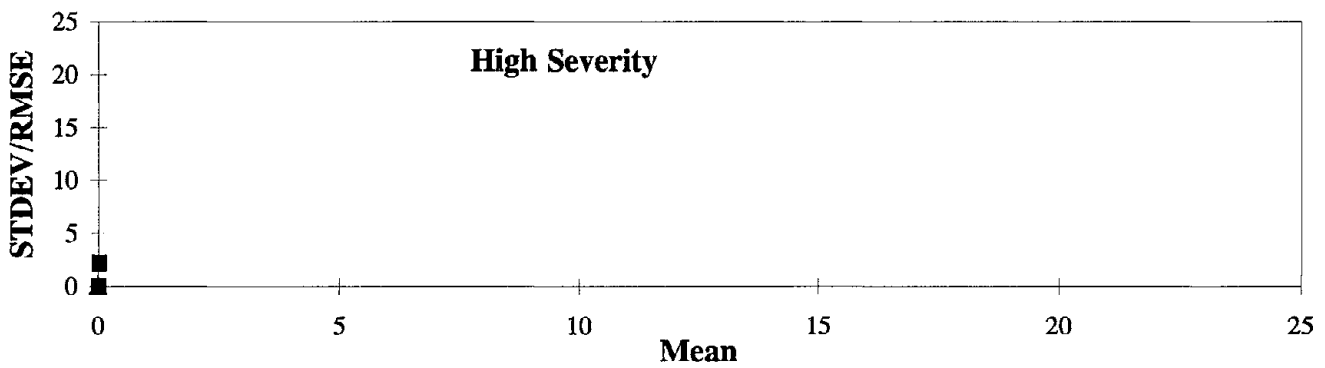
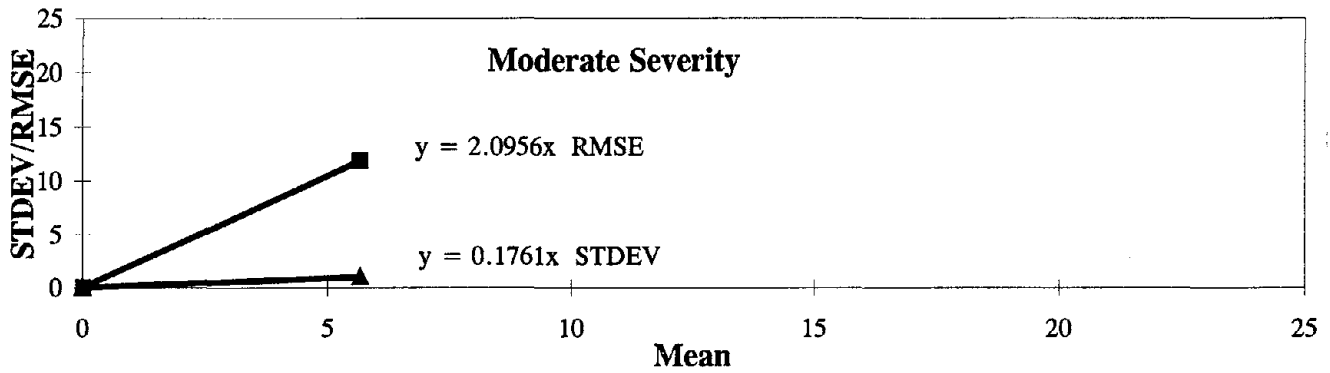
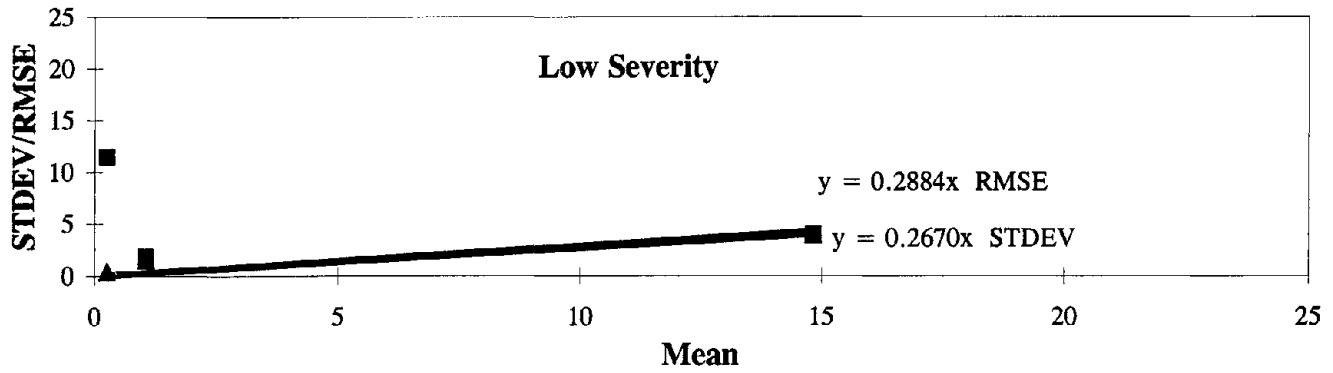


Figure 234. Longitudinal Cracking (Meters) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.

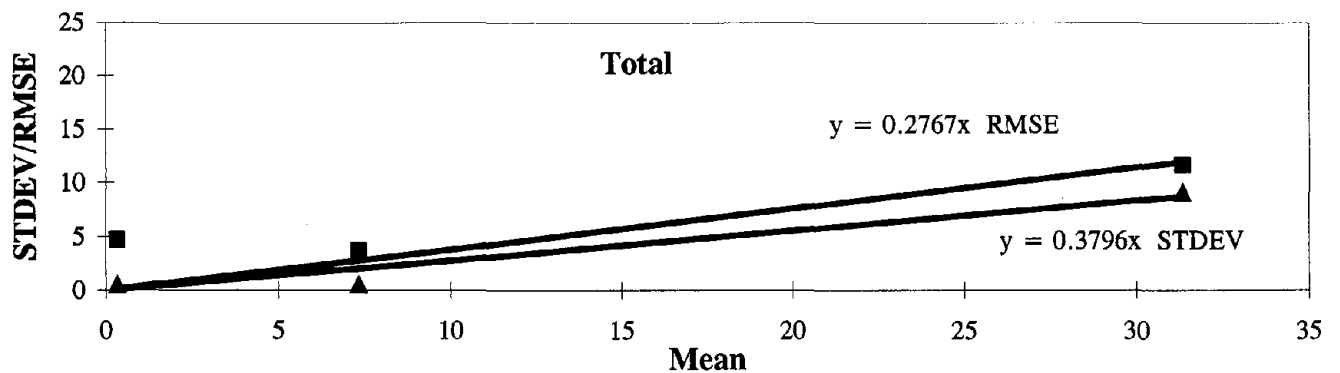
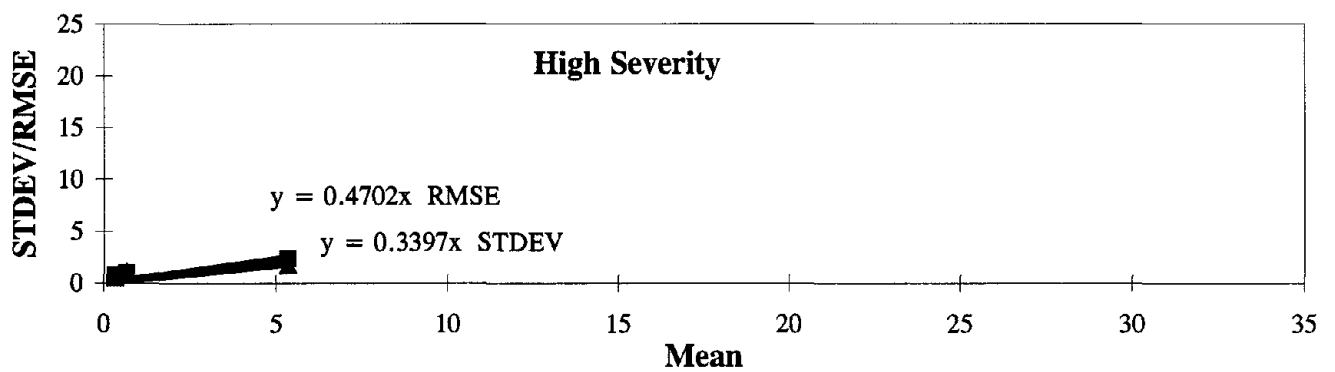
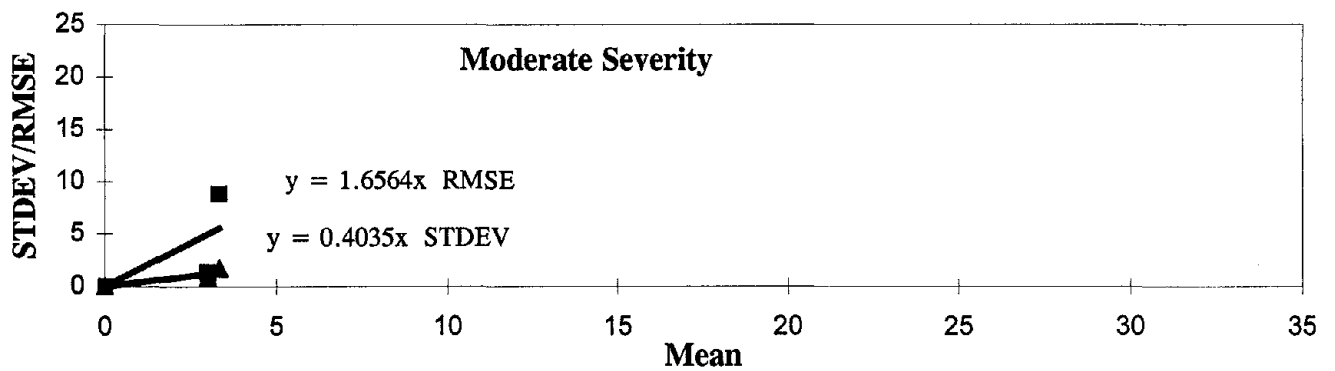
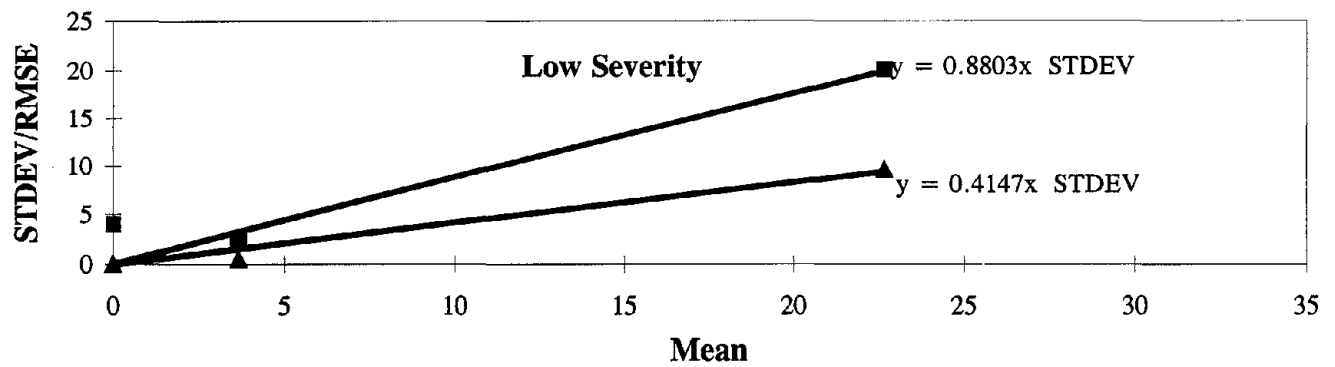


Figure 235. Transverse Cracking (No.) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.

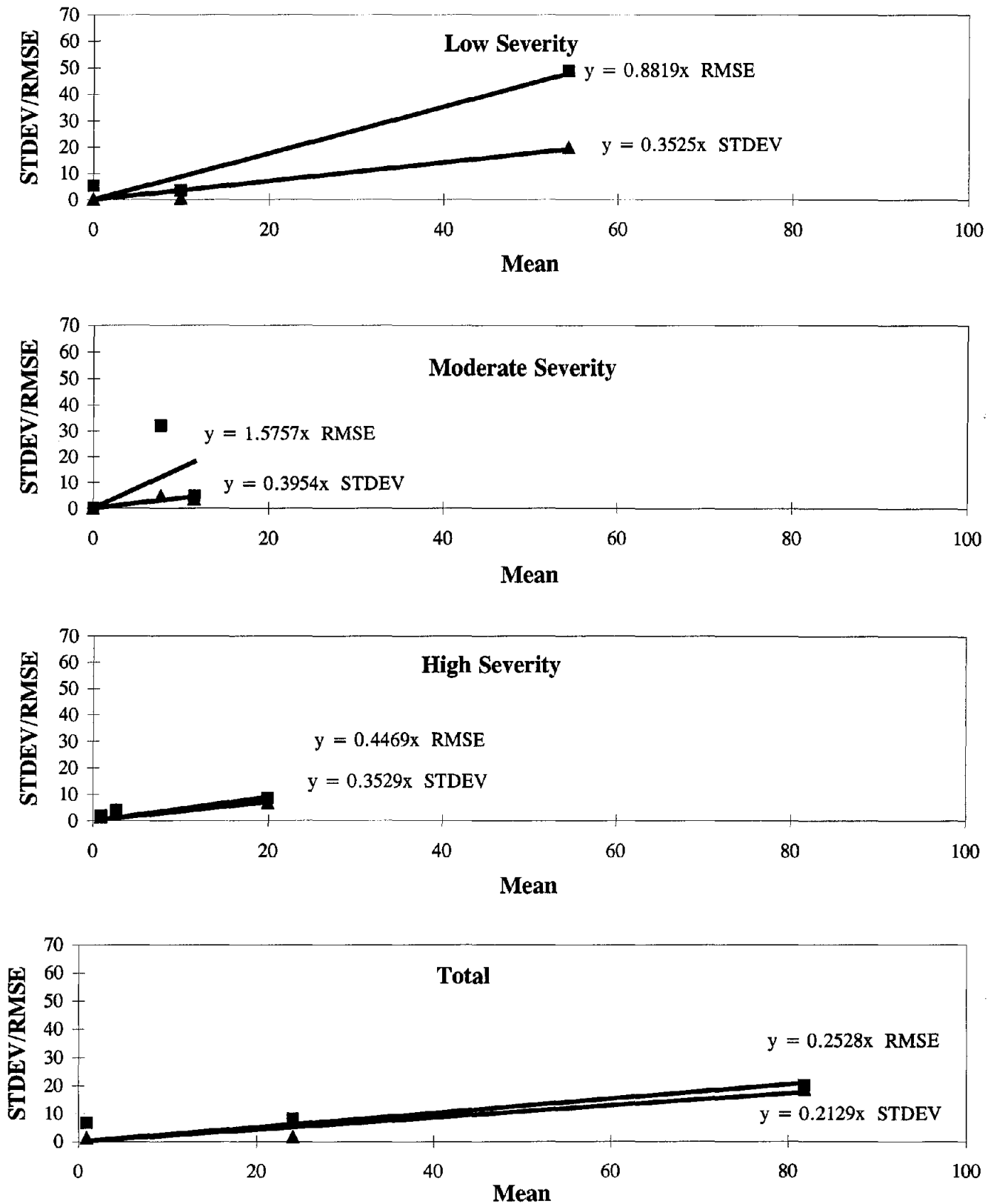


Figure 236. Transverse Cracking (Meters) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.

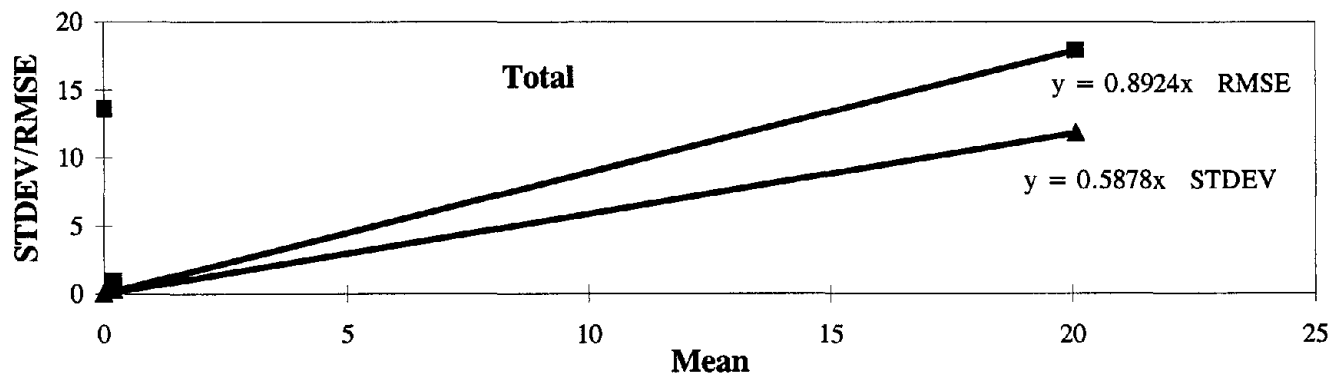
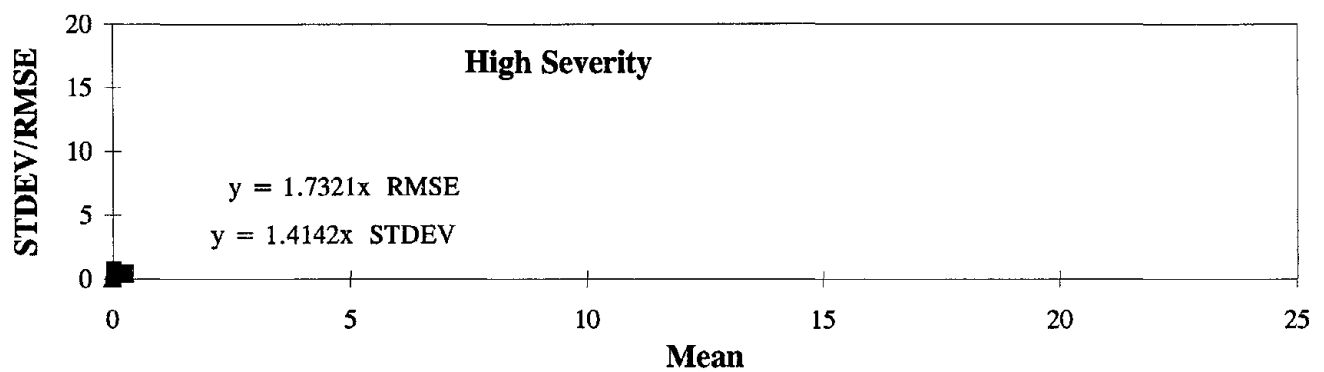
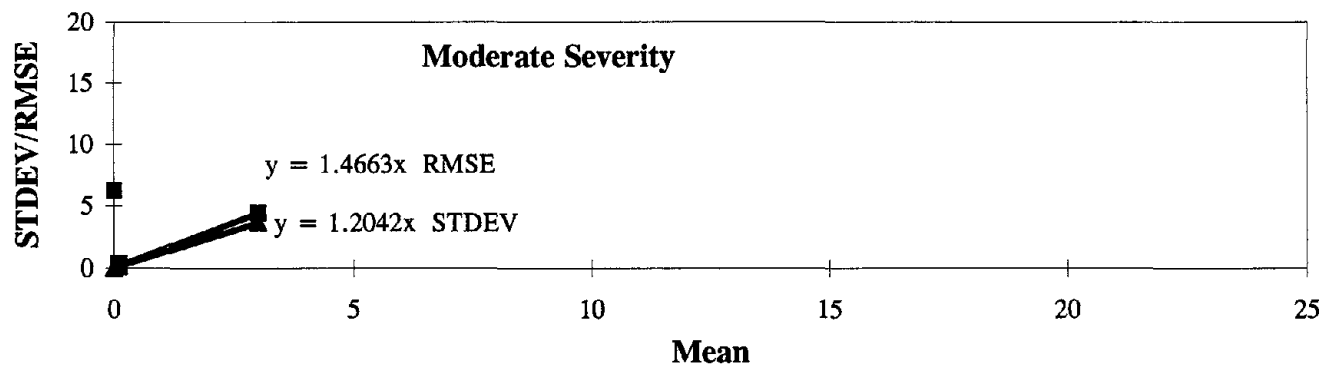
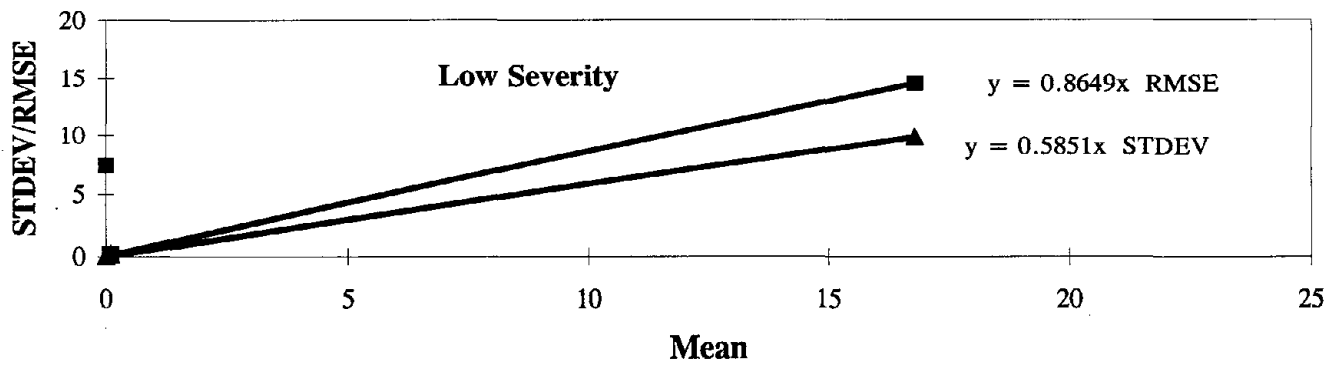


Figure 237. Spalling of Longitudinal Joints (Meters) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.

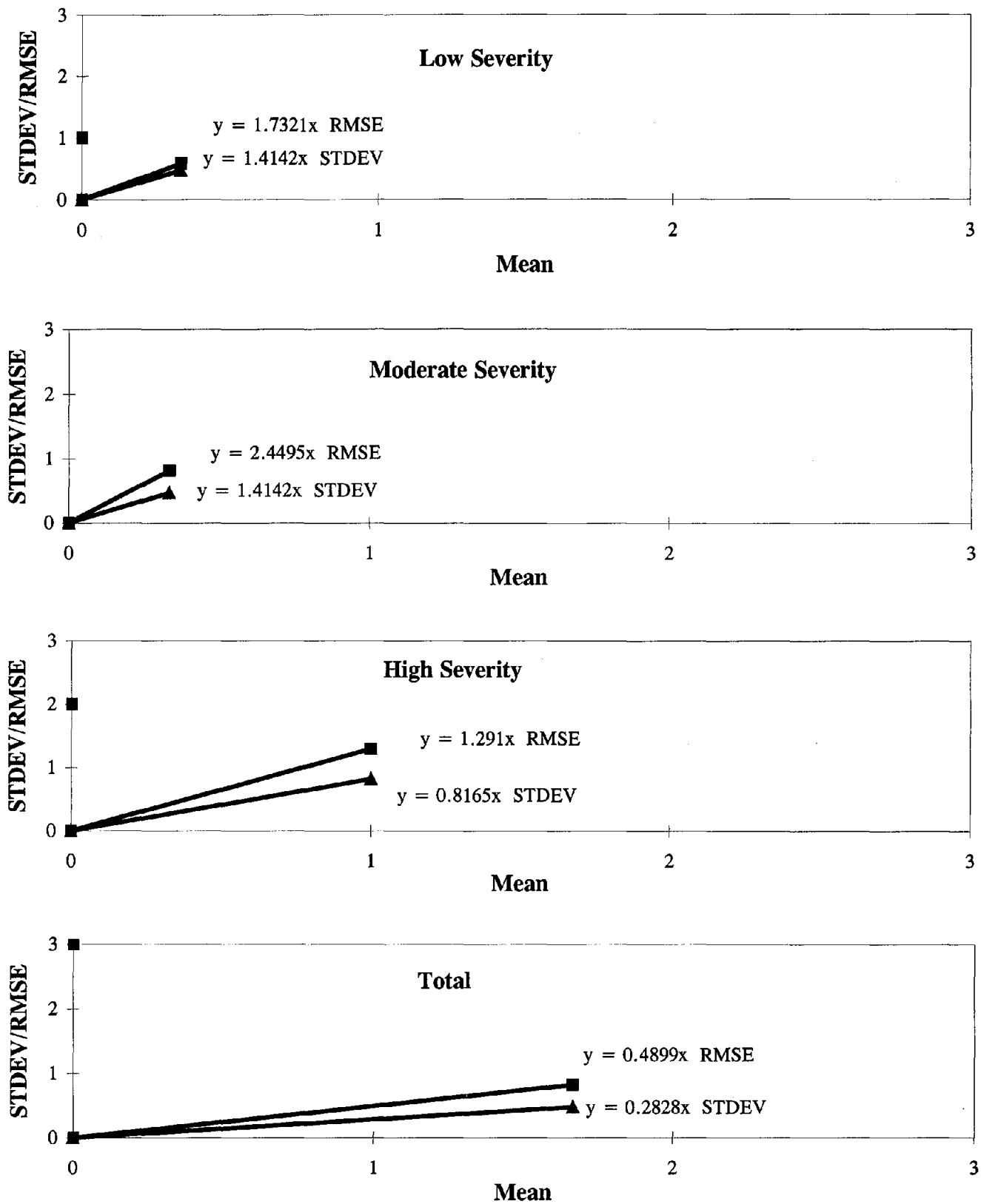


Figure 238. Spalling of Transverse Joints (No.) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.

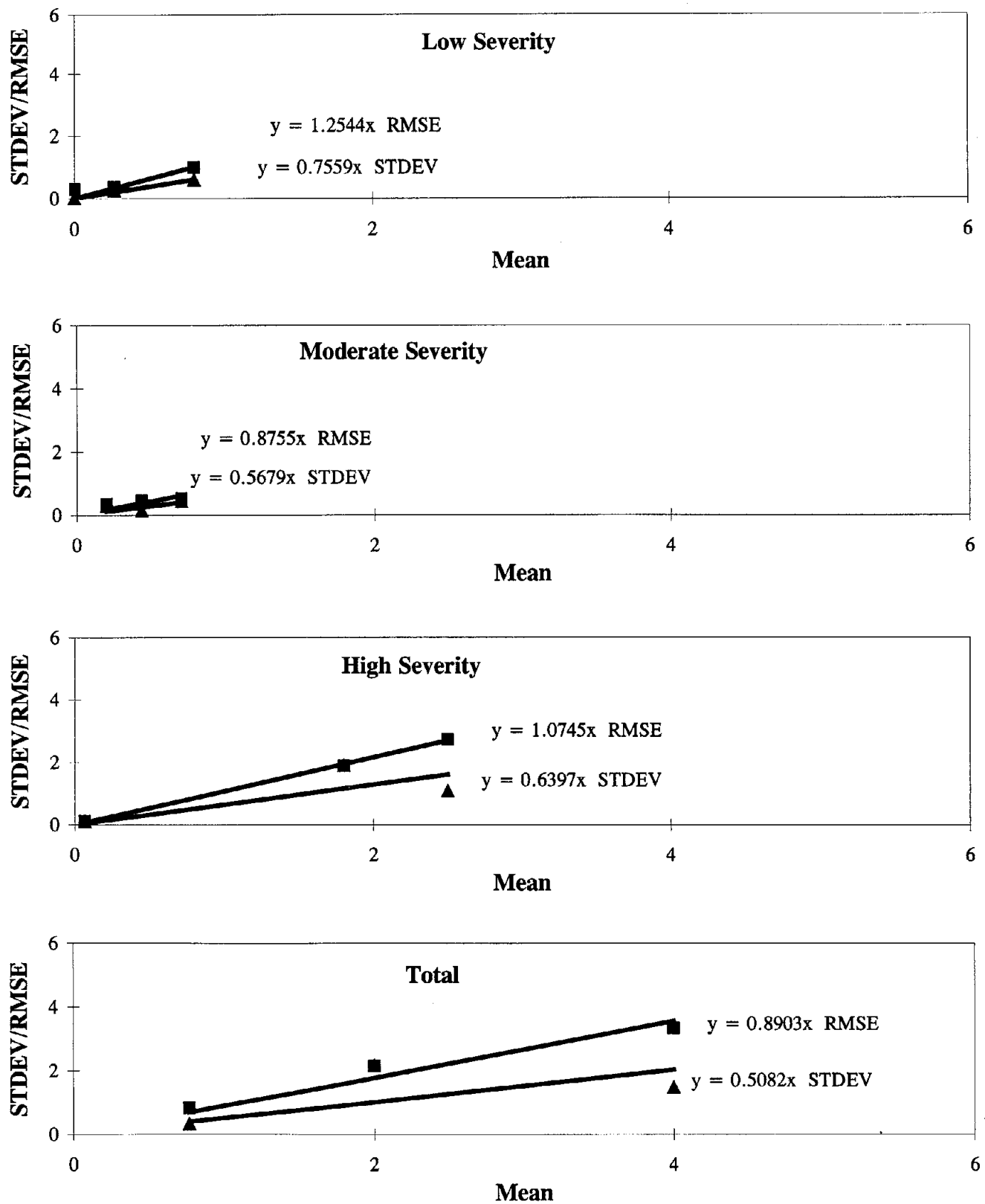
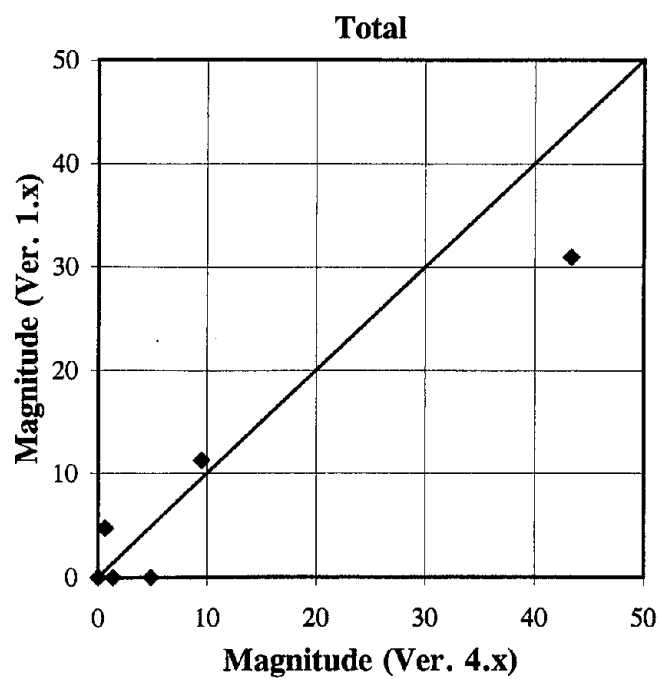
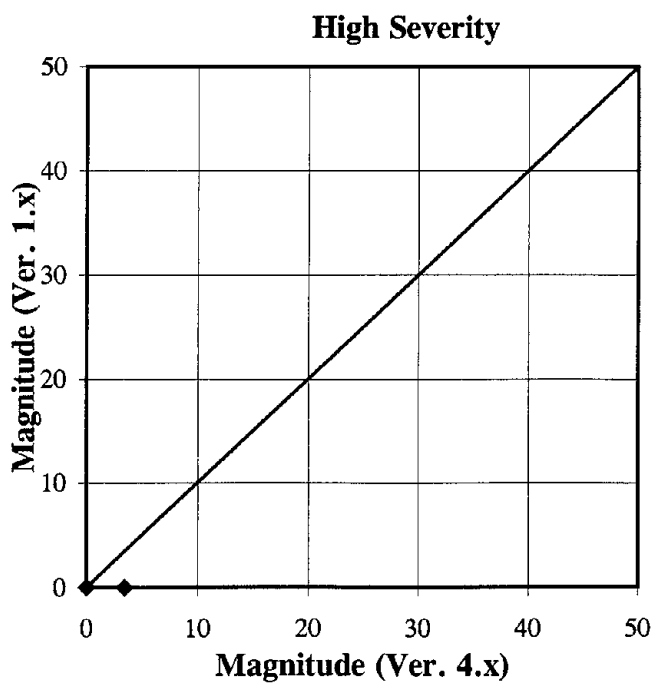
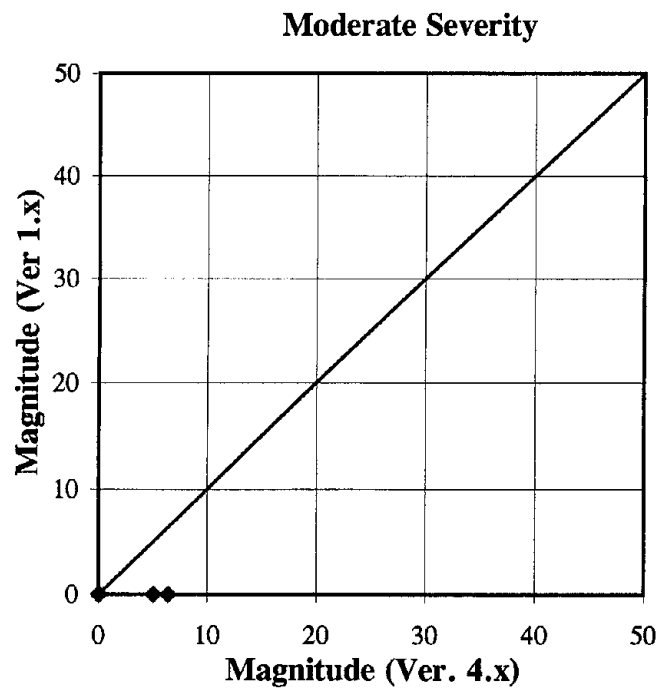
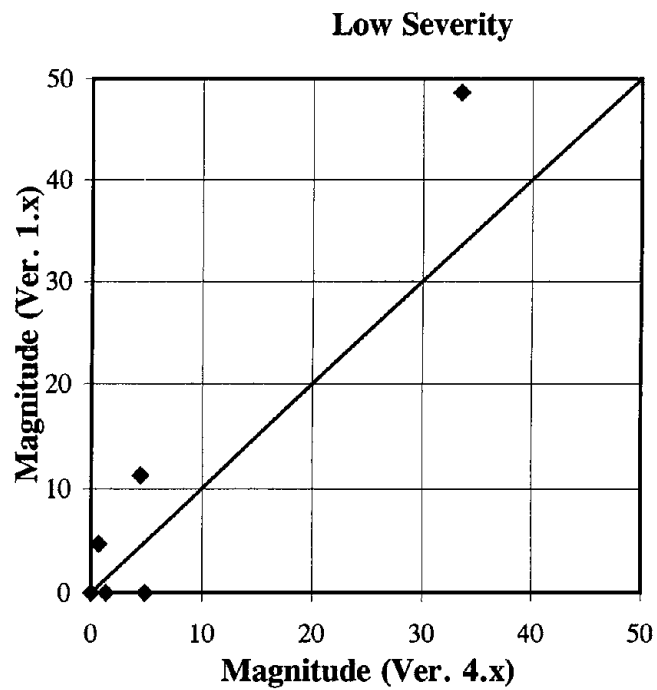


Figure 239. Spalling of Transverse Joints (Meters) - PCC Pavements, Team Surveys, PASCO Method: Standard Deviation/RMSE Vs. Mean.



**Figure 240. Comparison of PADIAS v1.x and v4.x - AC Pavements,
Fatigue Cracking (Sq. Meters).**

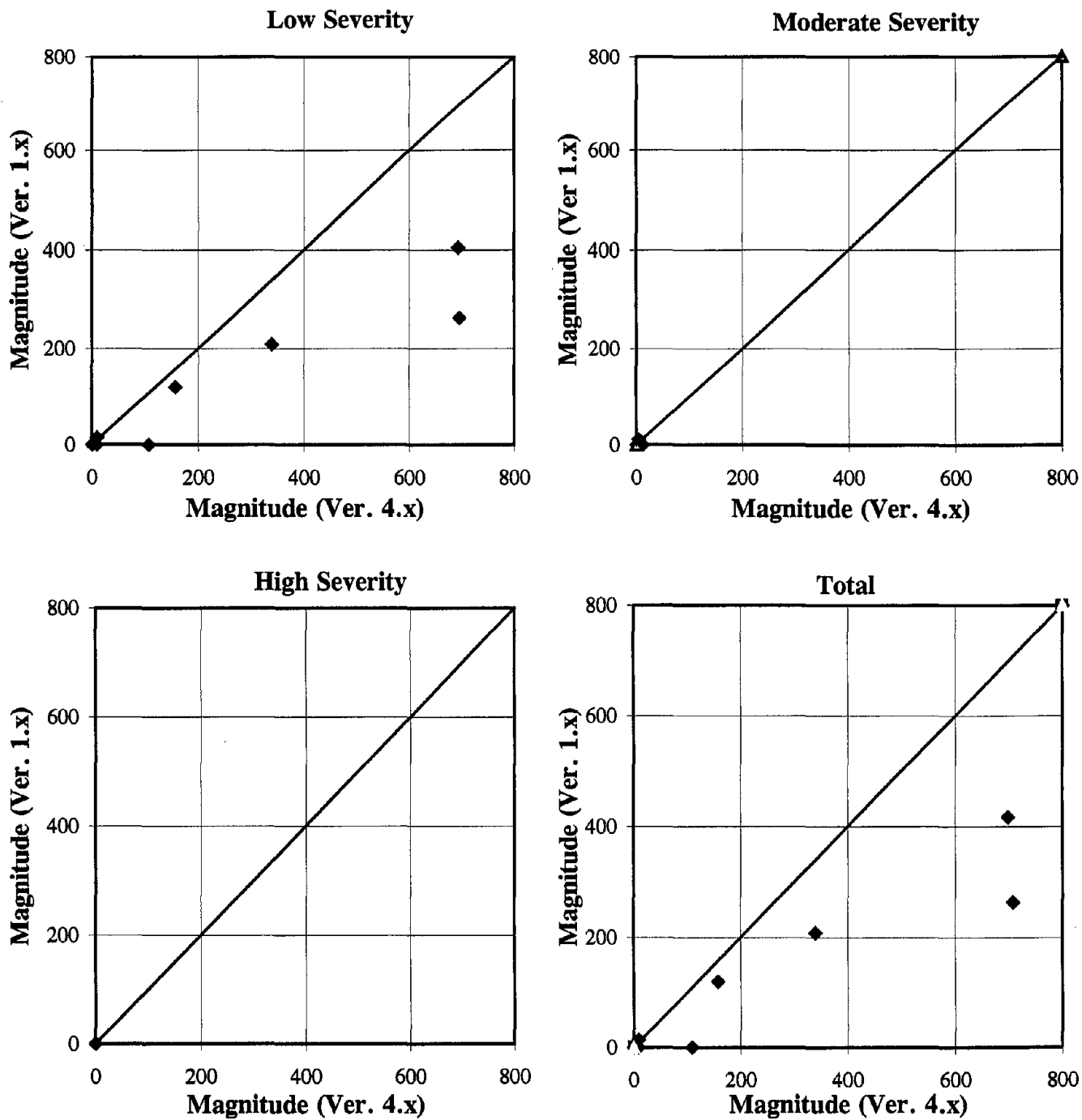
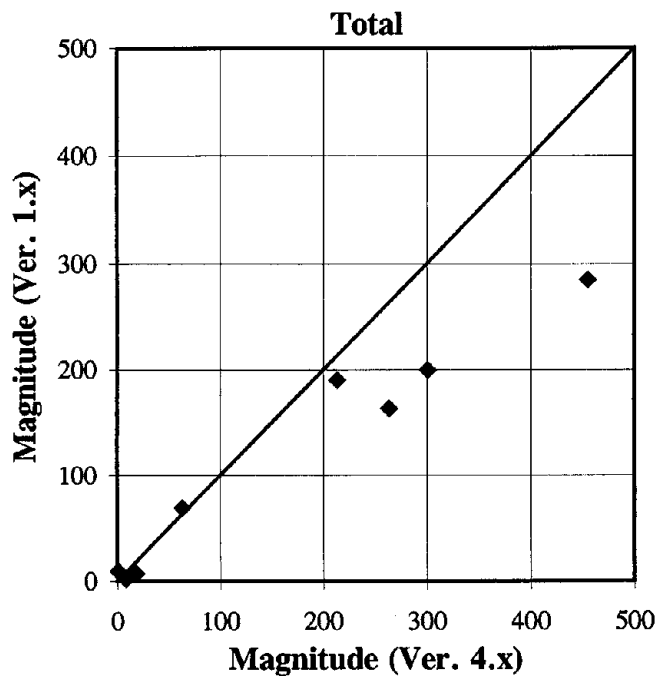
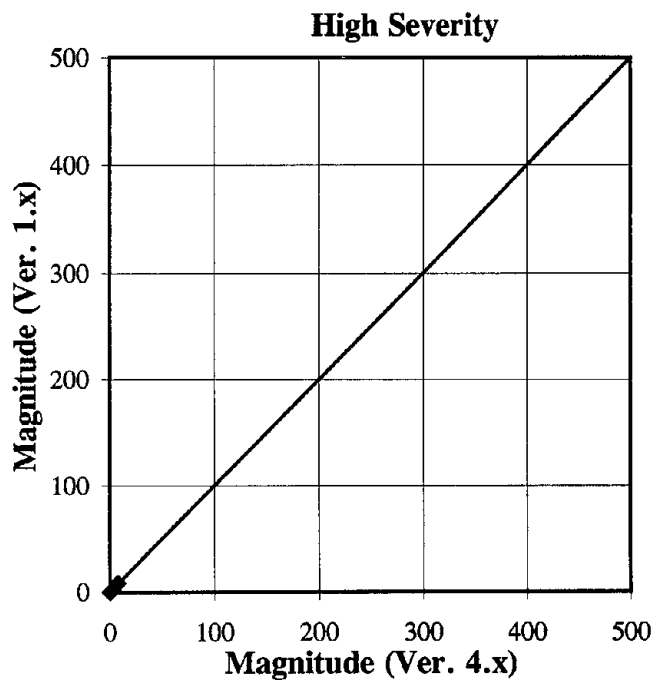
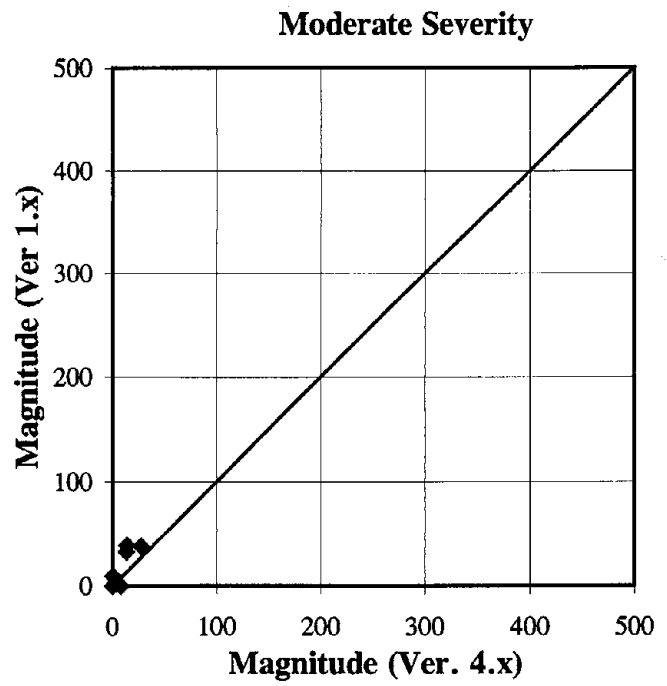
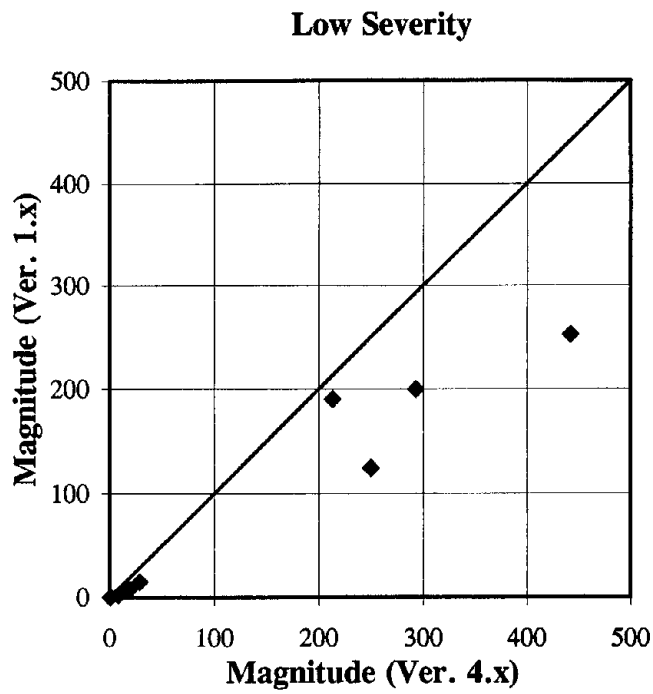


Figure 241. Comparison of PADIAS v1.x and v4.x - AC Pavements, Longitudinal Cracking (Meters).



**Figure 242. Comparison of PADIAS v1.x and v4.x - AC Pavements,
Transverse Cracking (Meters).**

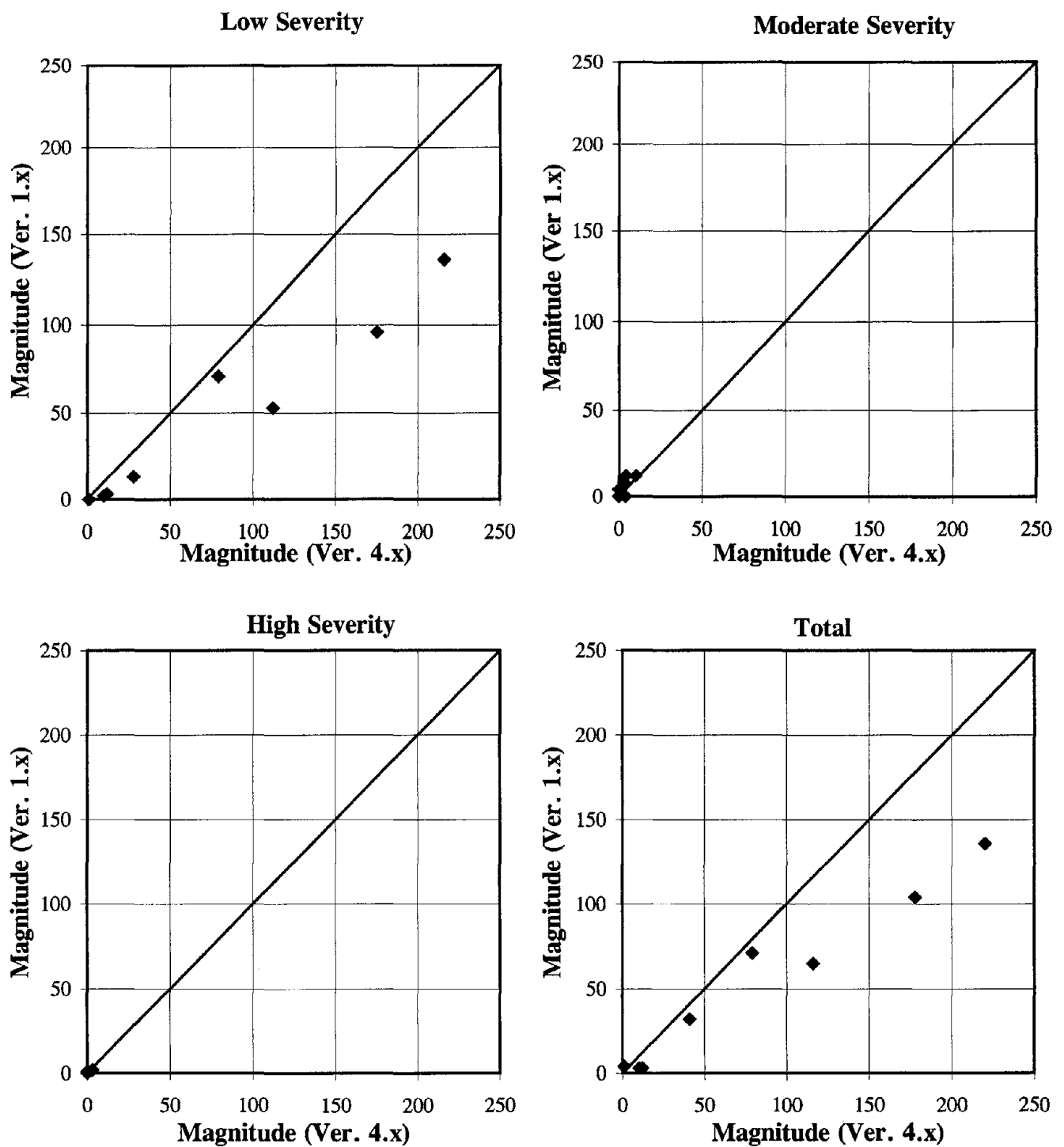
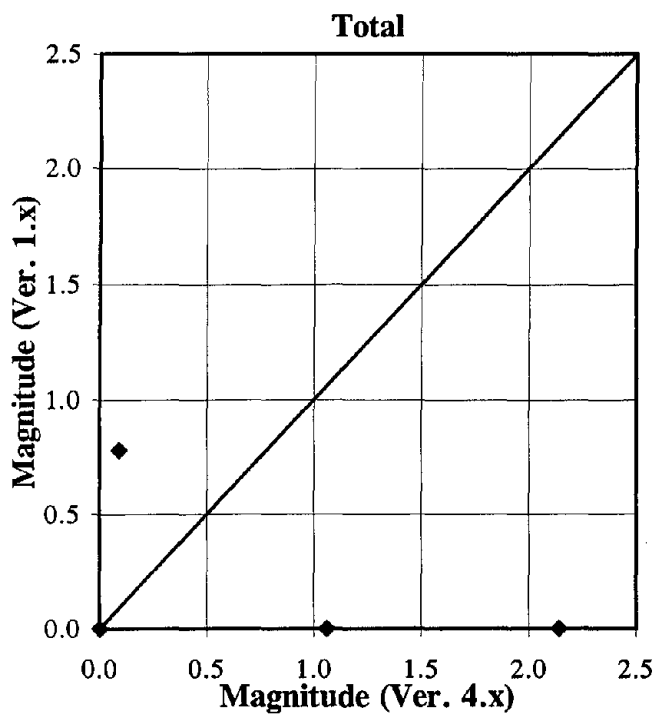
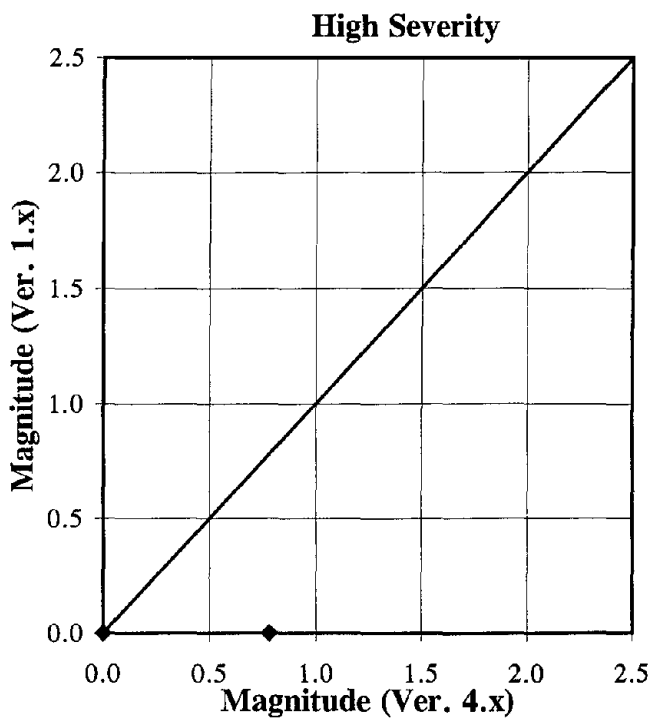
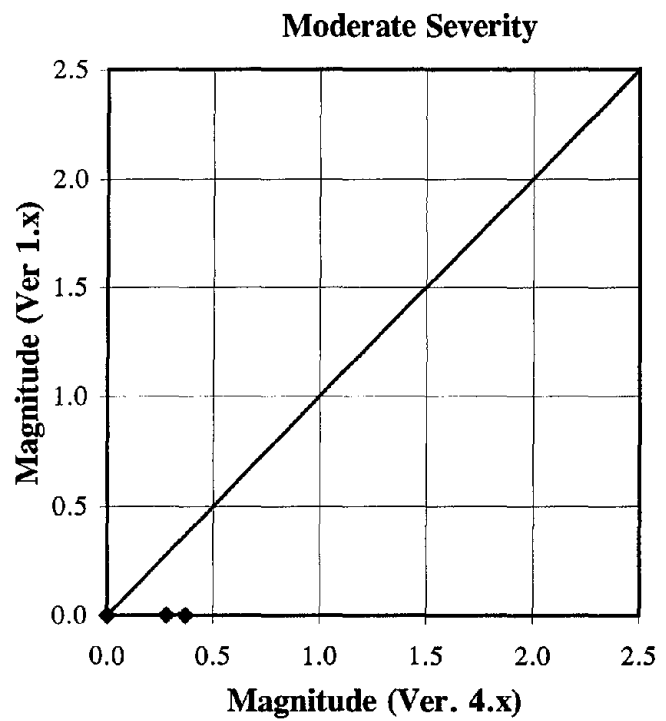
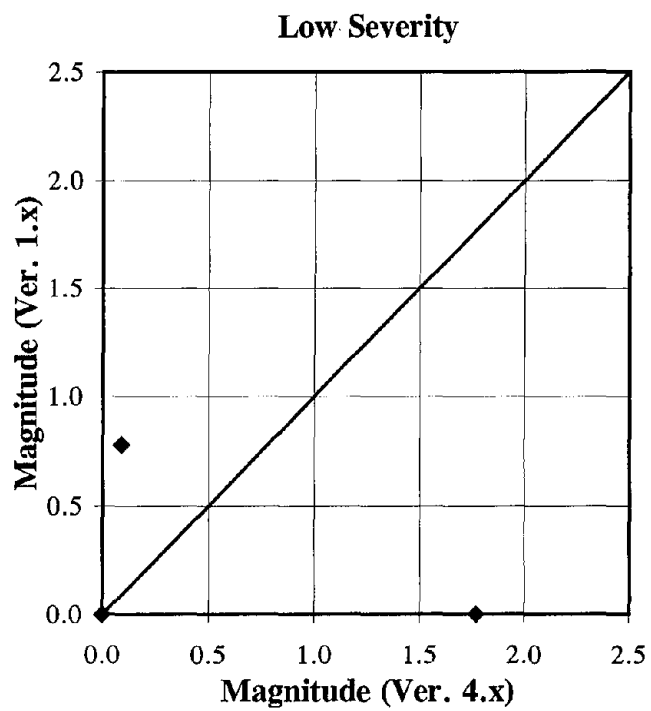


Figure 243. Comparison of PADIAS v1.x and v4.x - AC Pavements, Transverse Cracking (No.).



**Figure 244. Comparison of PADIAS v1.x and v4.x - AC Pavements,
AC Patch (Sq. Meters).**

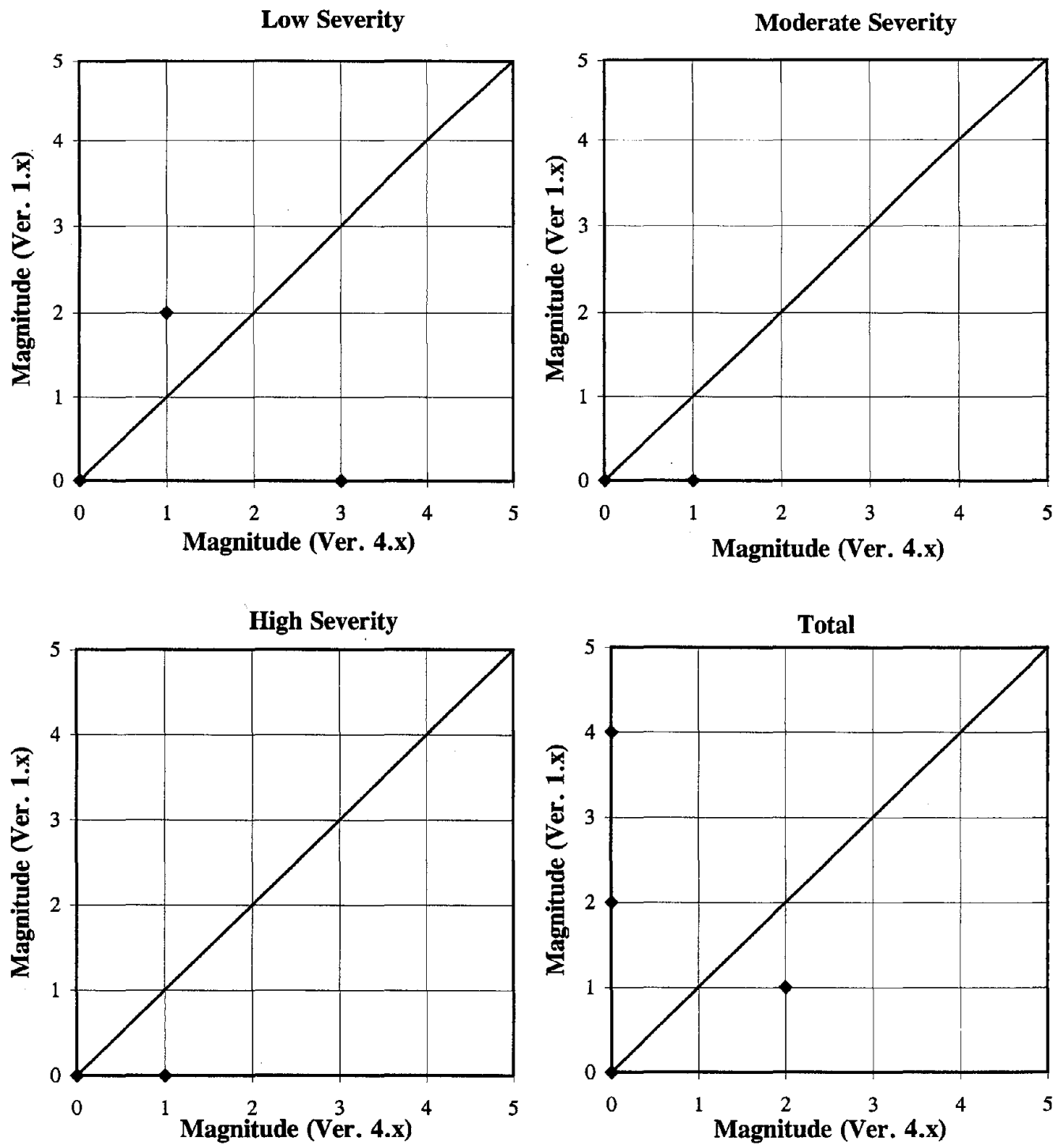


Figure 245. Comparison of PADIAS v1.x and v4.x - AC Pavements, AC Patch (No.).

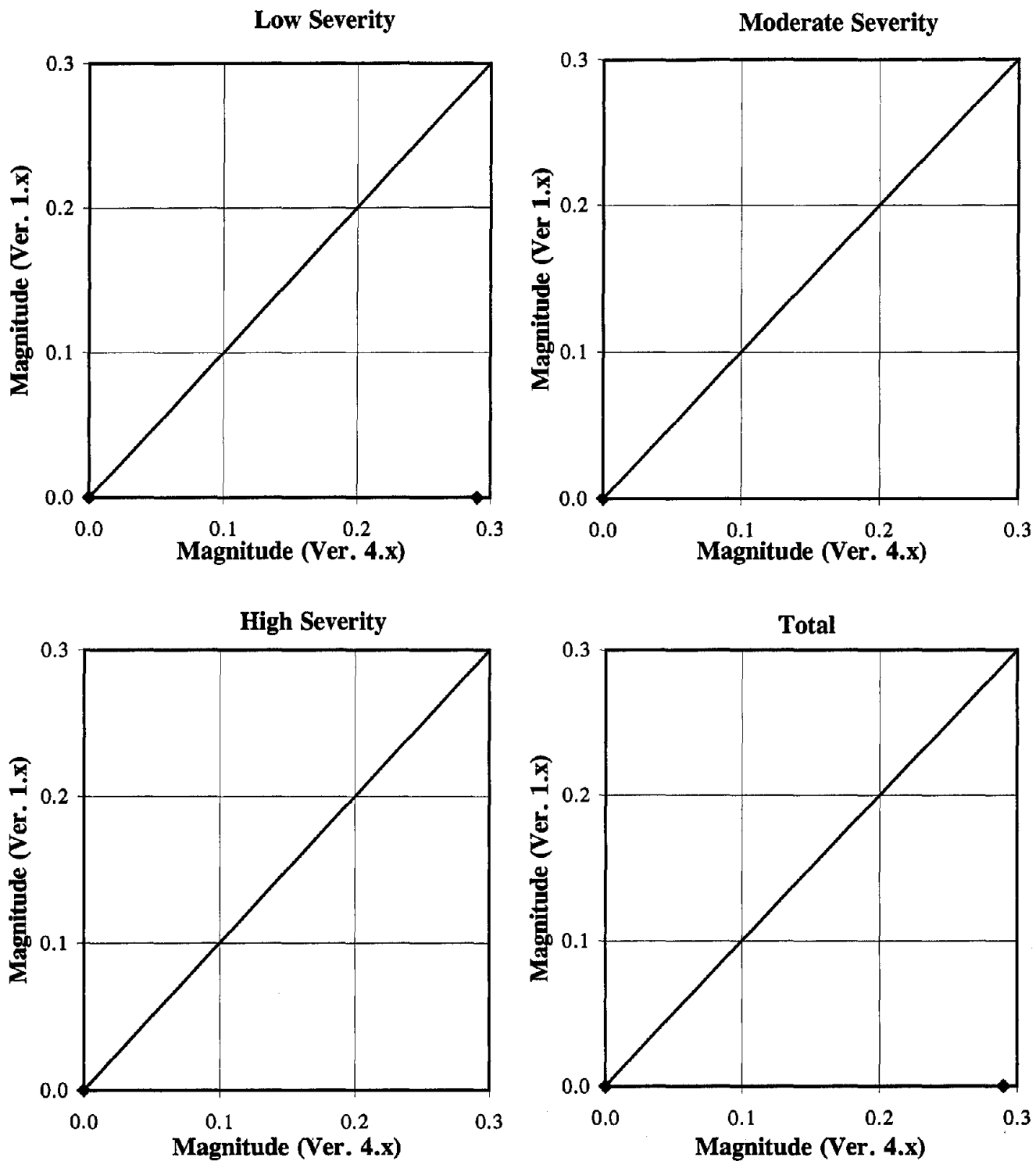


Figure 246. Comparison of PADIAS v1.x and v4.x - AC Pavements, Potholes (Sq. Meters).

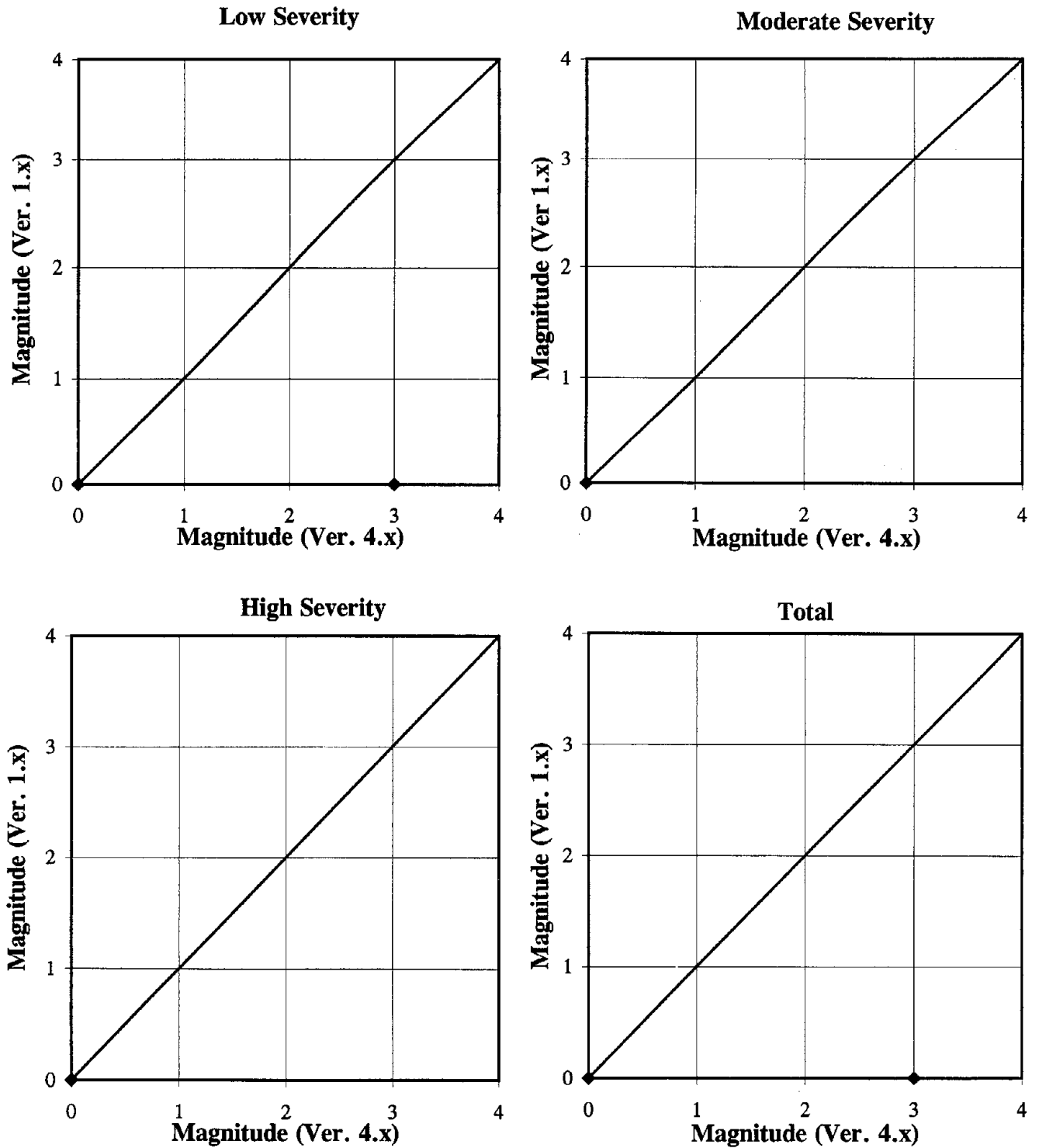


Figure 247. Comparison of PADIAS v1.x and v4.x - AC Pavements, Potholes (No.).

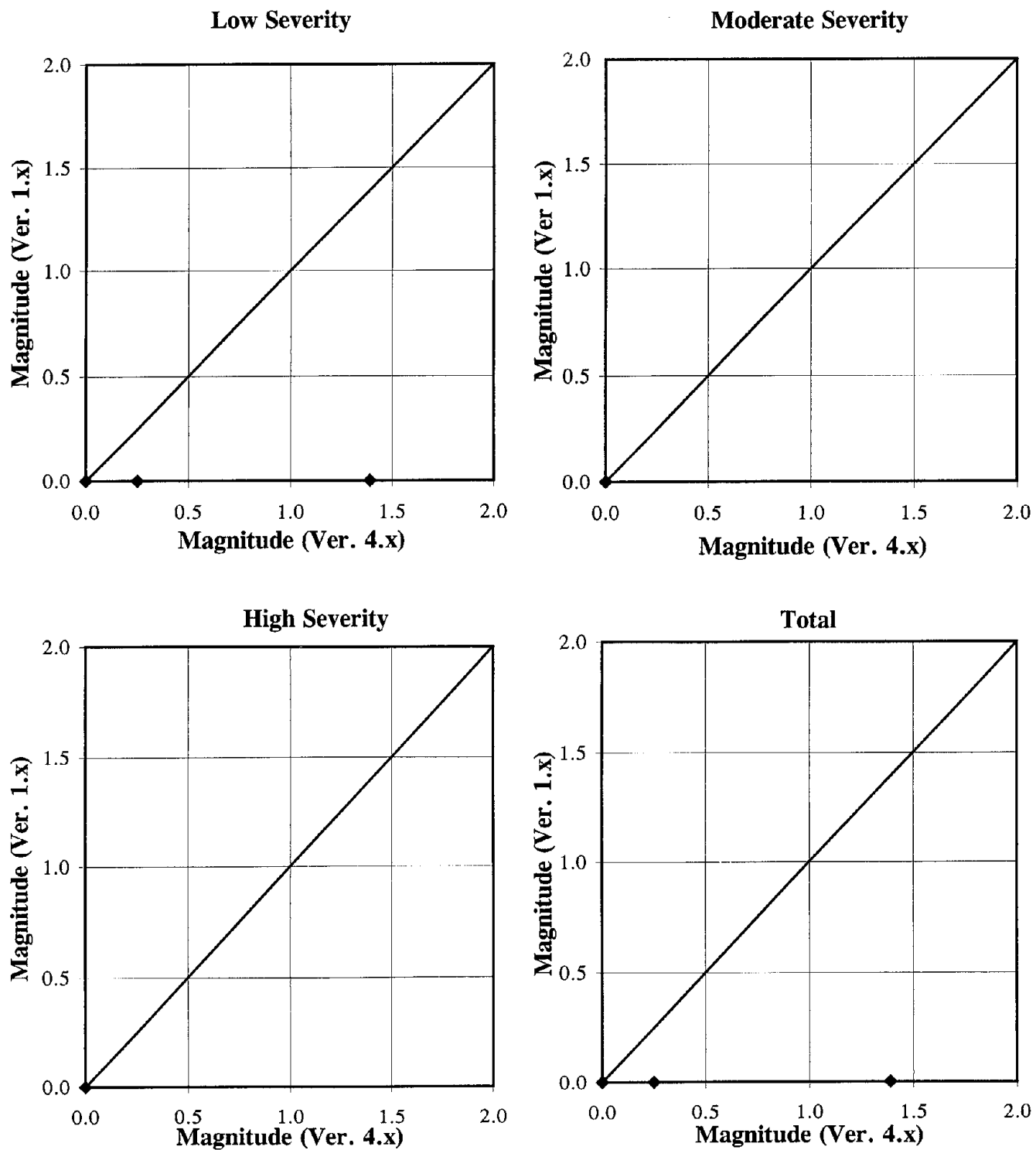


Figure 248. Comparison of PADIAS v1.x and v4.x - AC Pavements, Bleeding (Sq. Meters).

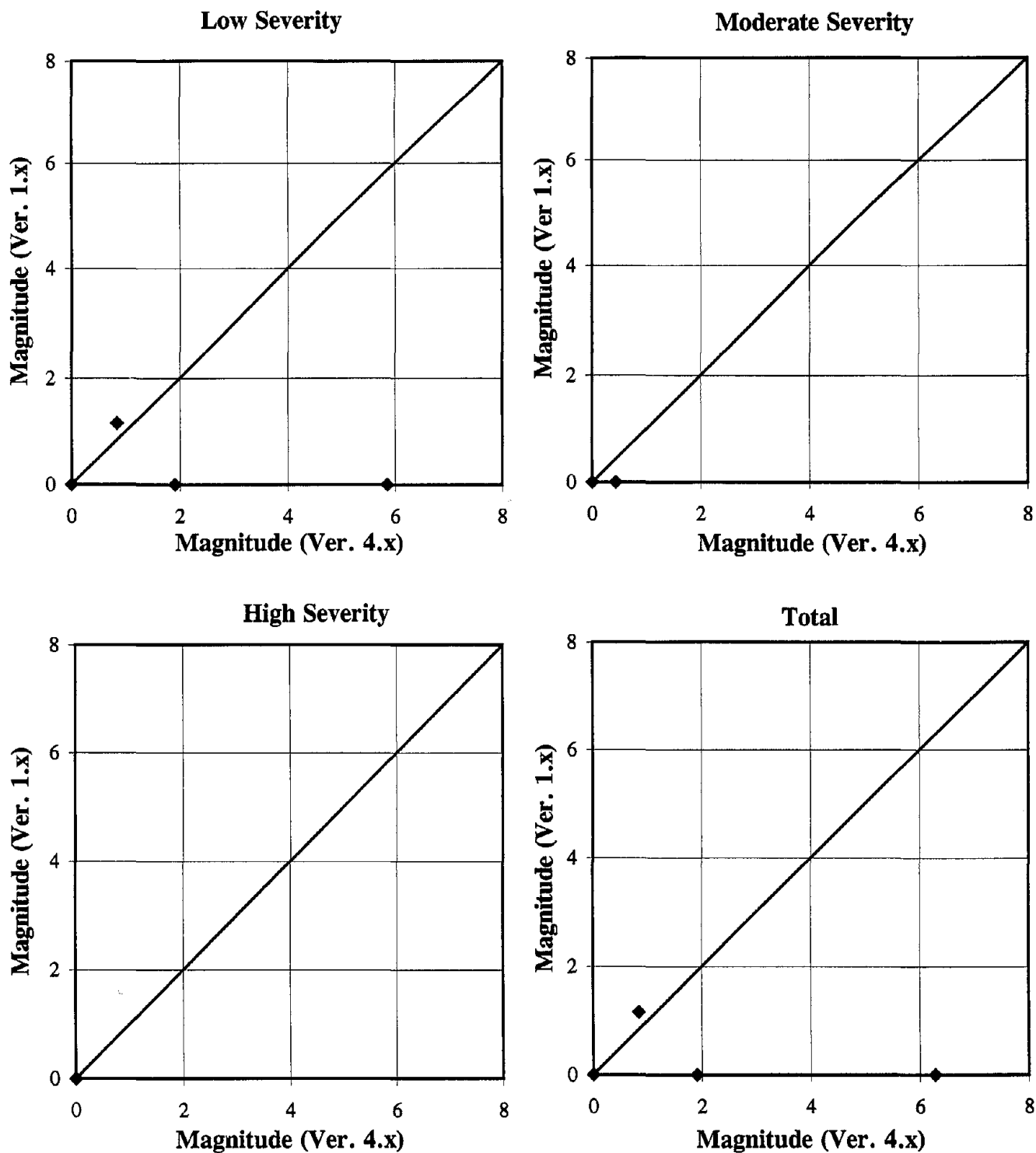


Figure 249. Comparison of PADIAS v1.x and v4.x - AC Pavements, Raveling (Sq. Meters).

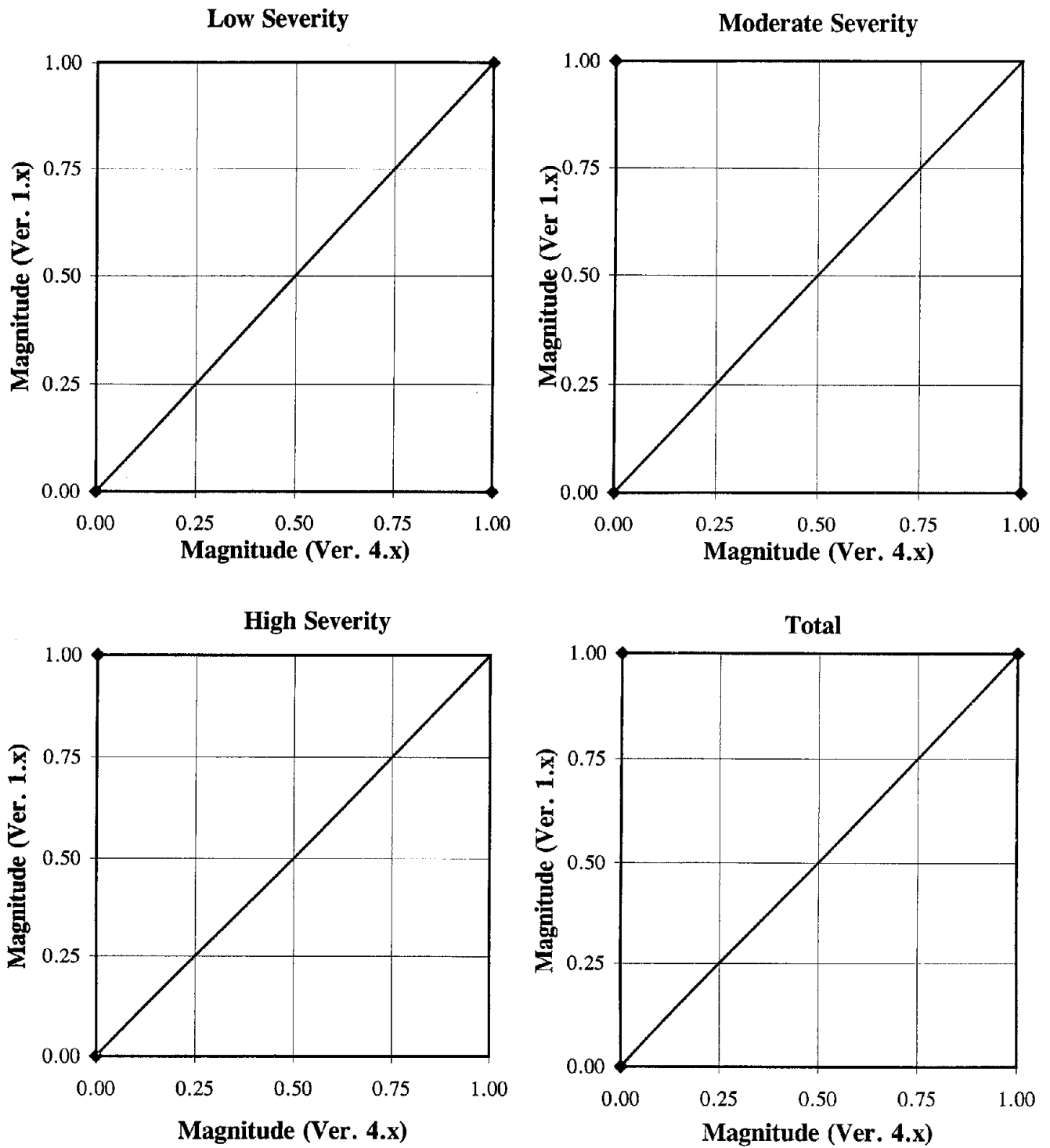


Figure 250. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Corner Break (No.).

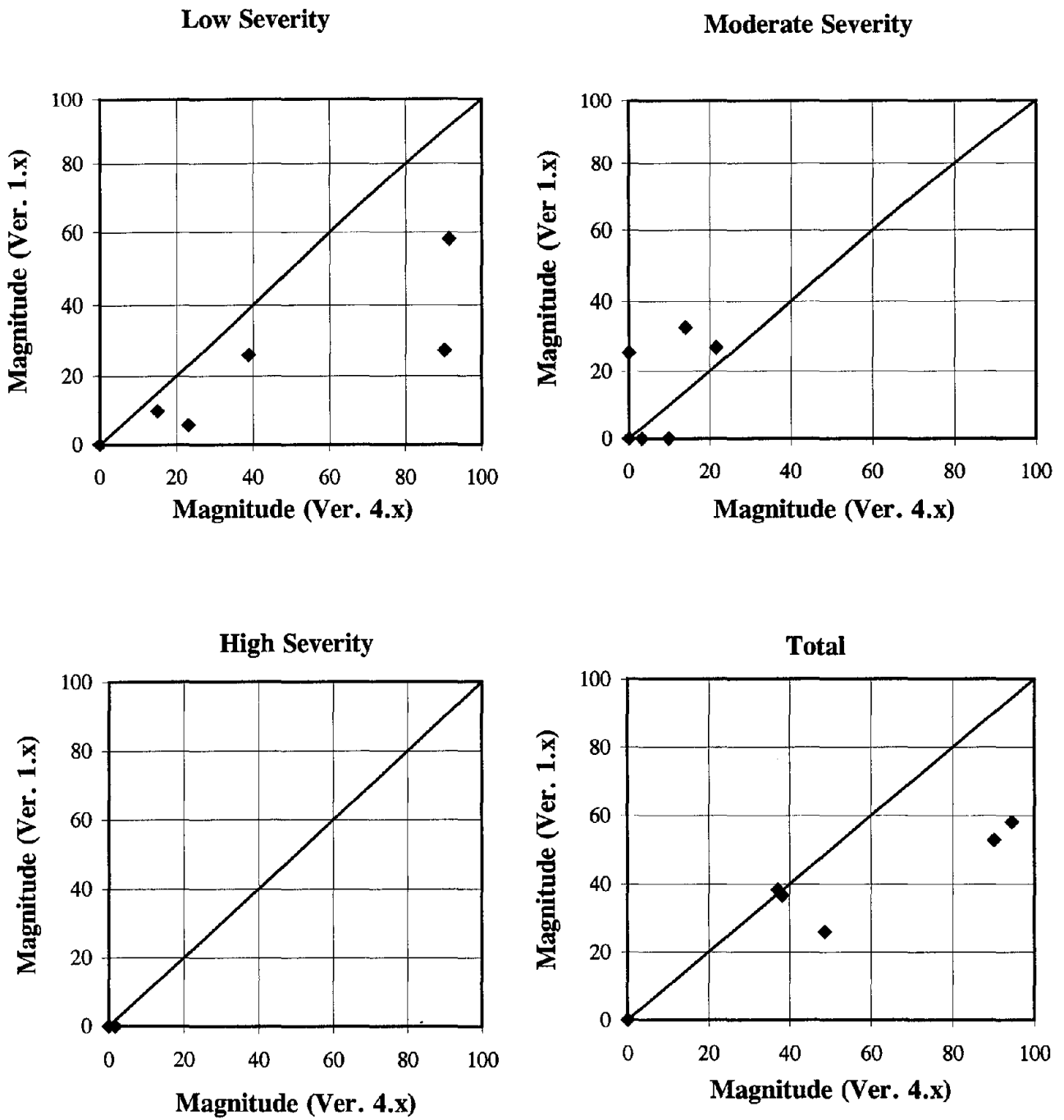


Figure 251. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Longitudinal Cracking (Meters).

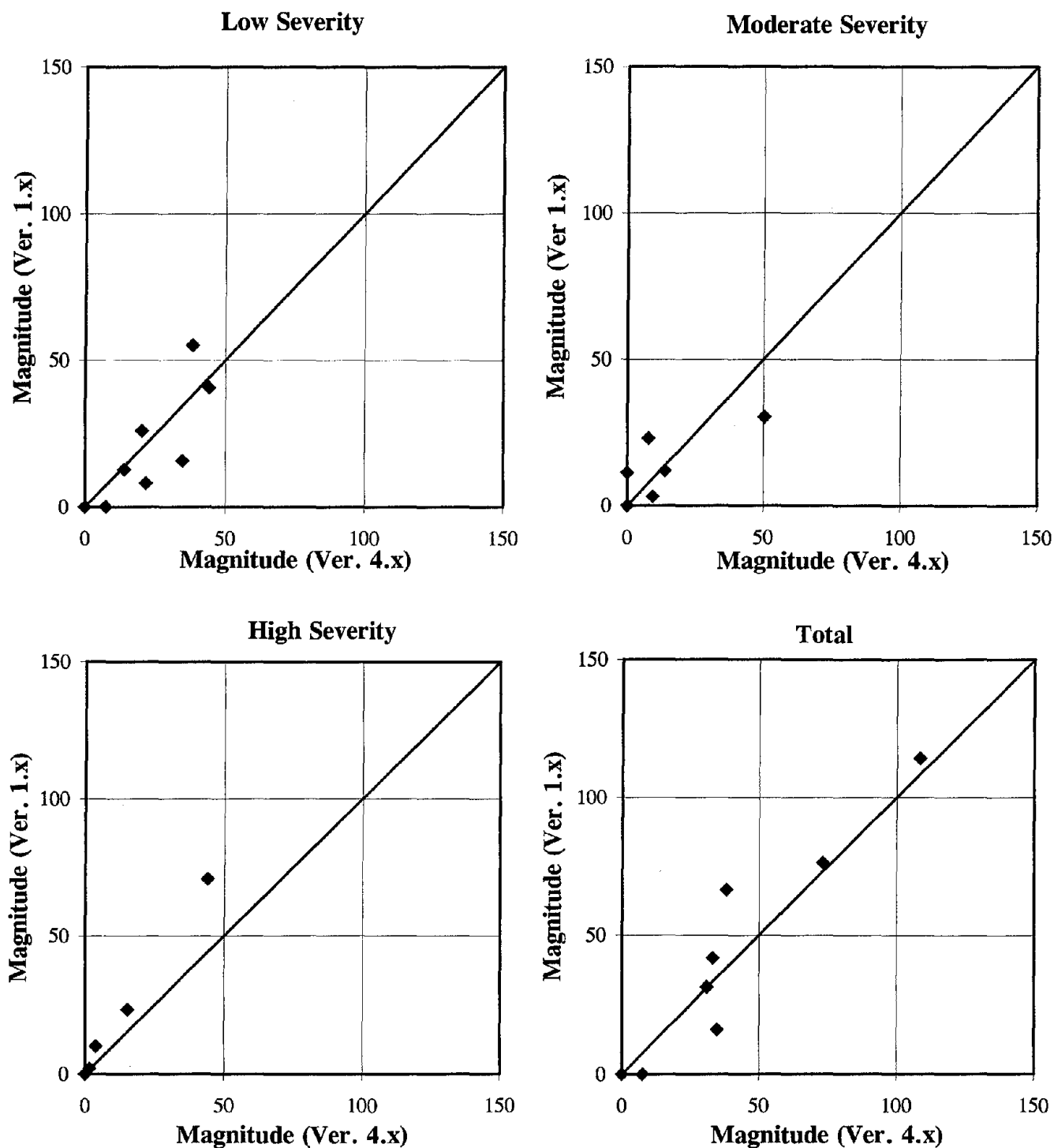


Figure 252. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Transverse Cracking (Meters).

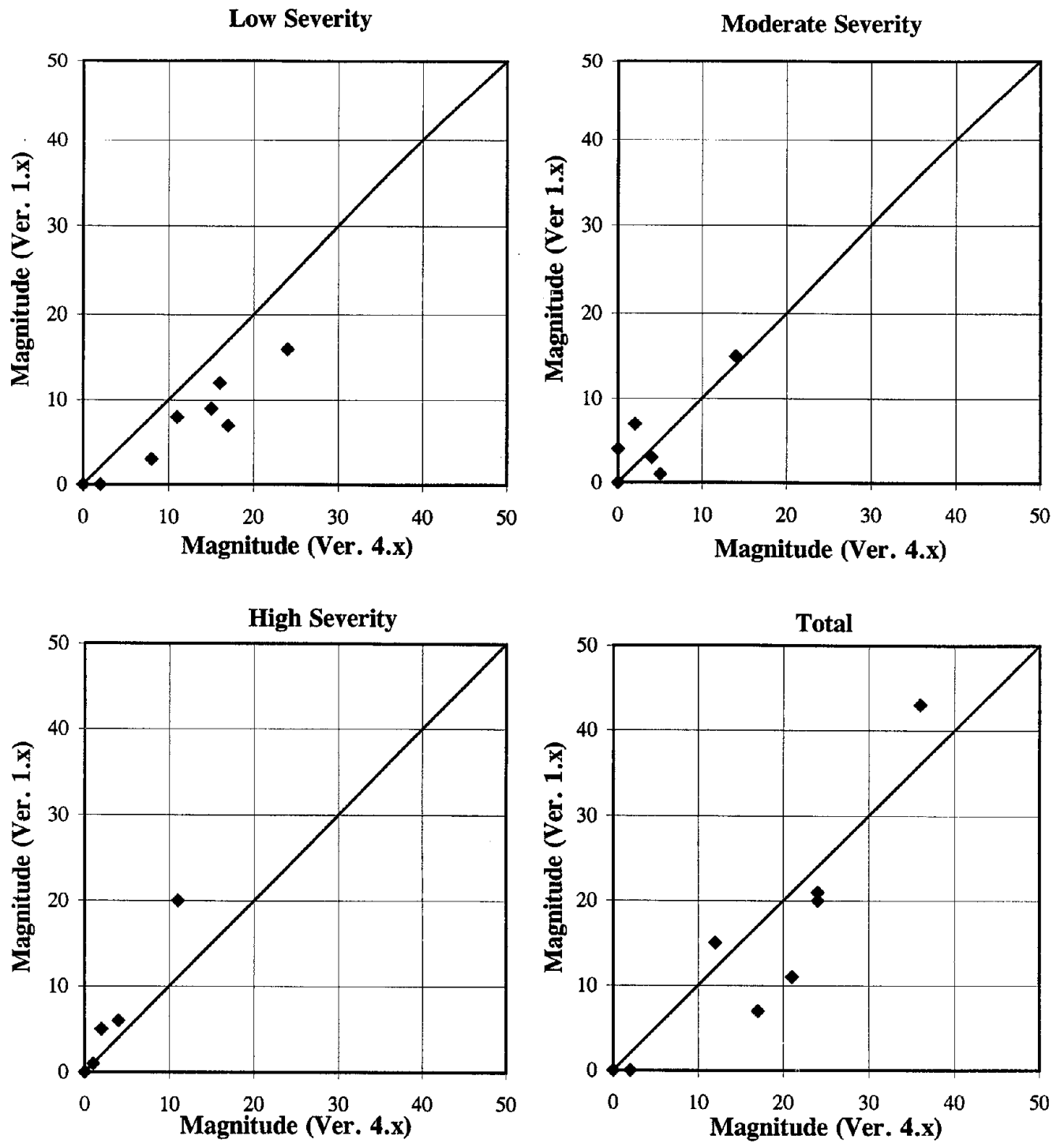


Figure 253. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Transverse Cracking (No.).

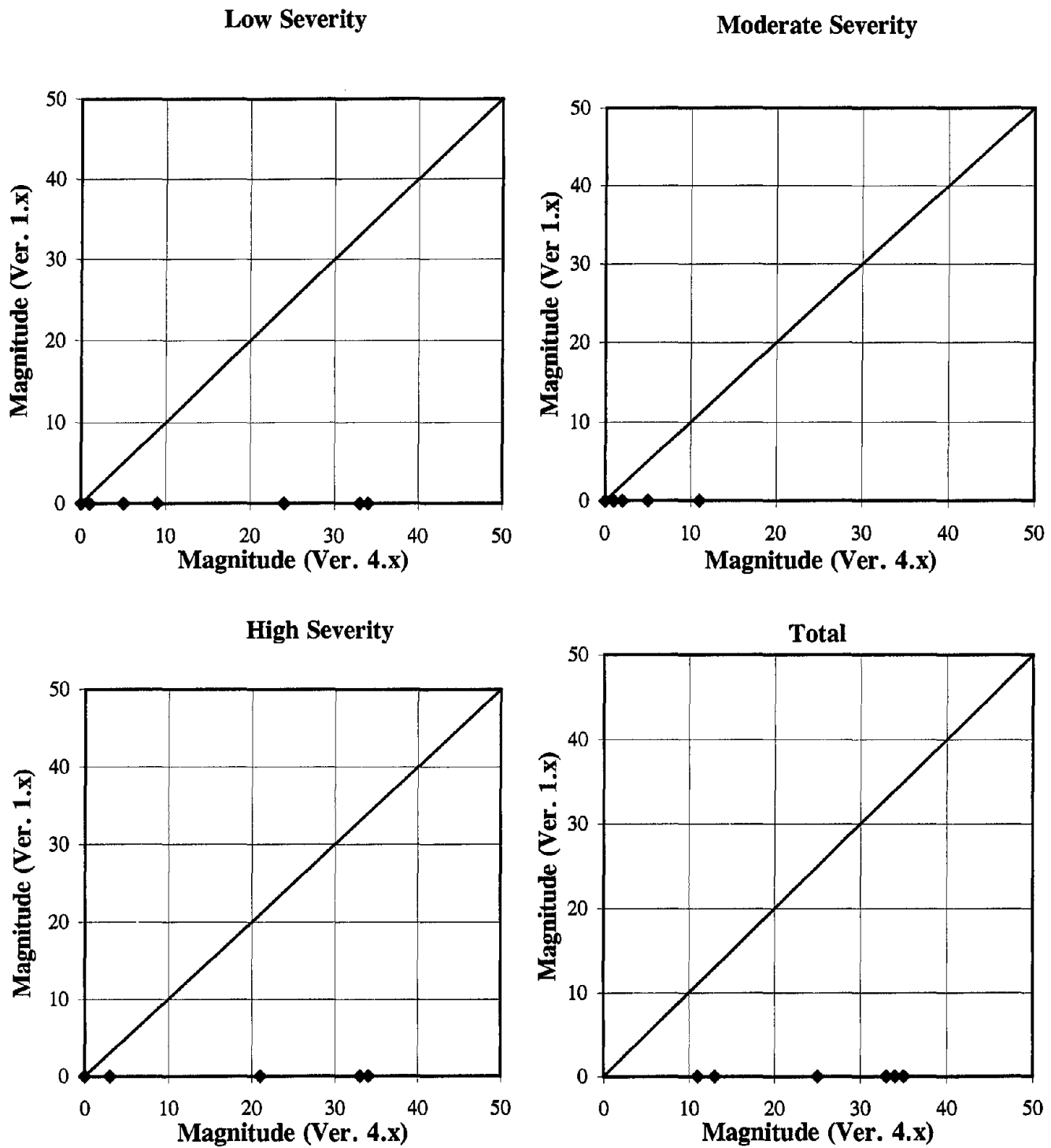


Figure 254. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Transverse Joint Seal Damage (No.).

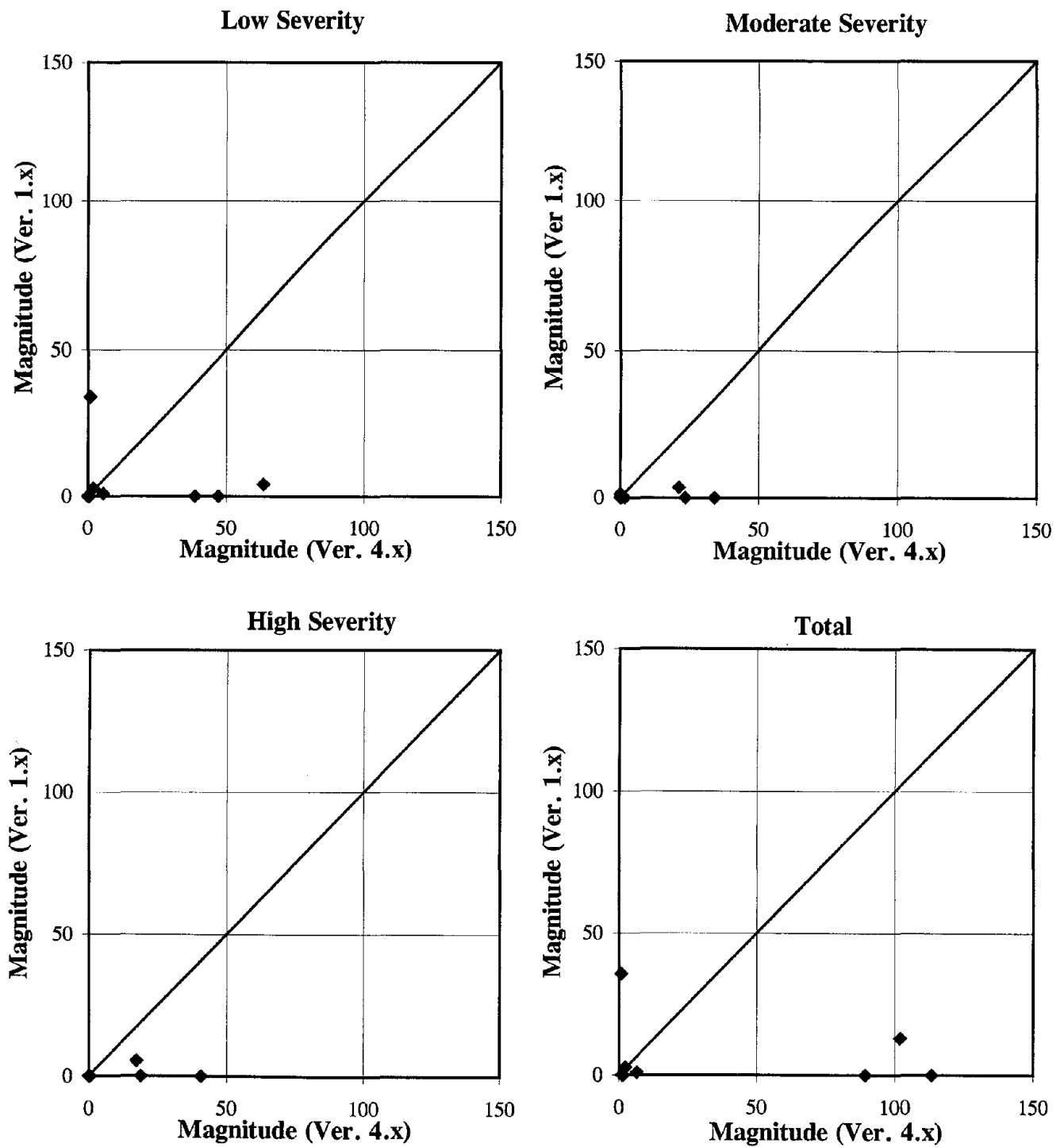


Figure 255. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Spalling of Longitudinal Joints (Meters).

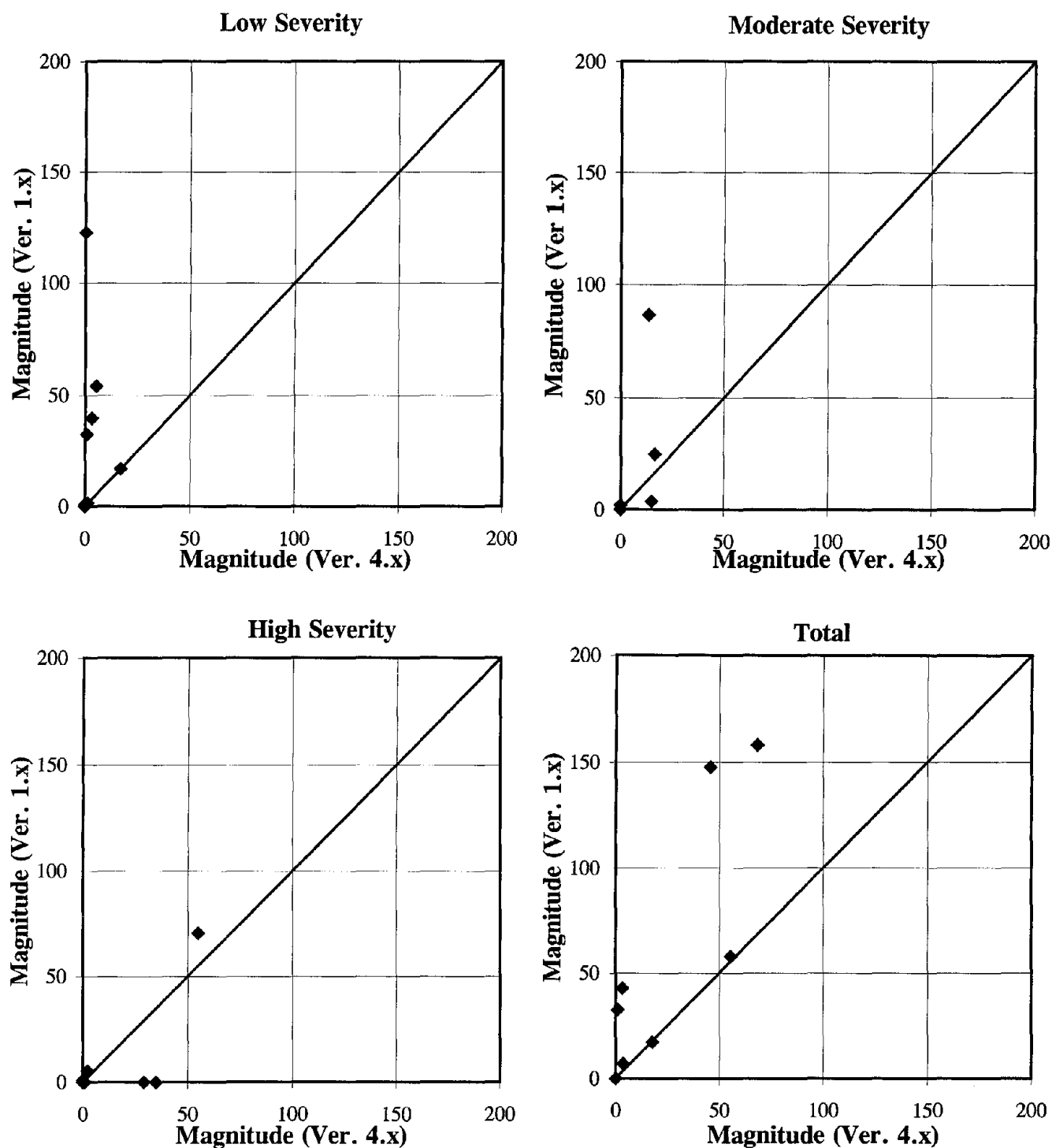


Figure 256. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Spalling of Transverse Joints (Meters).

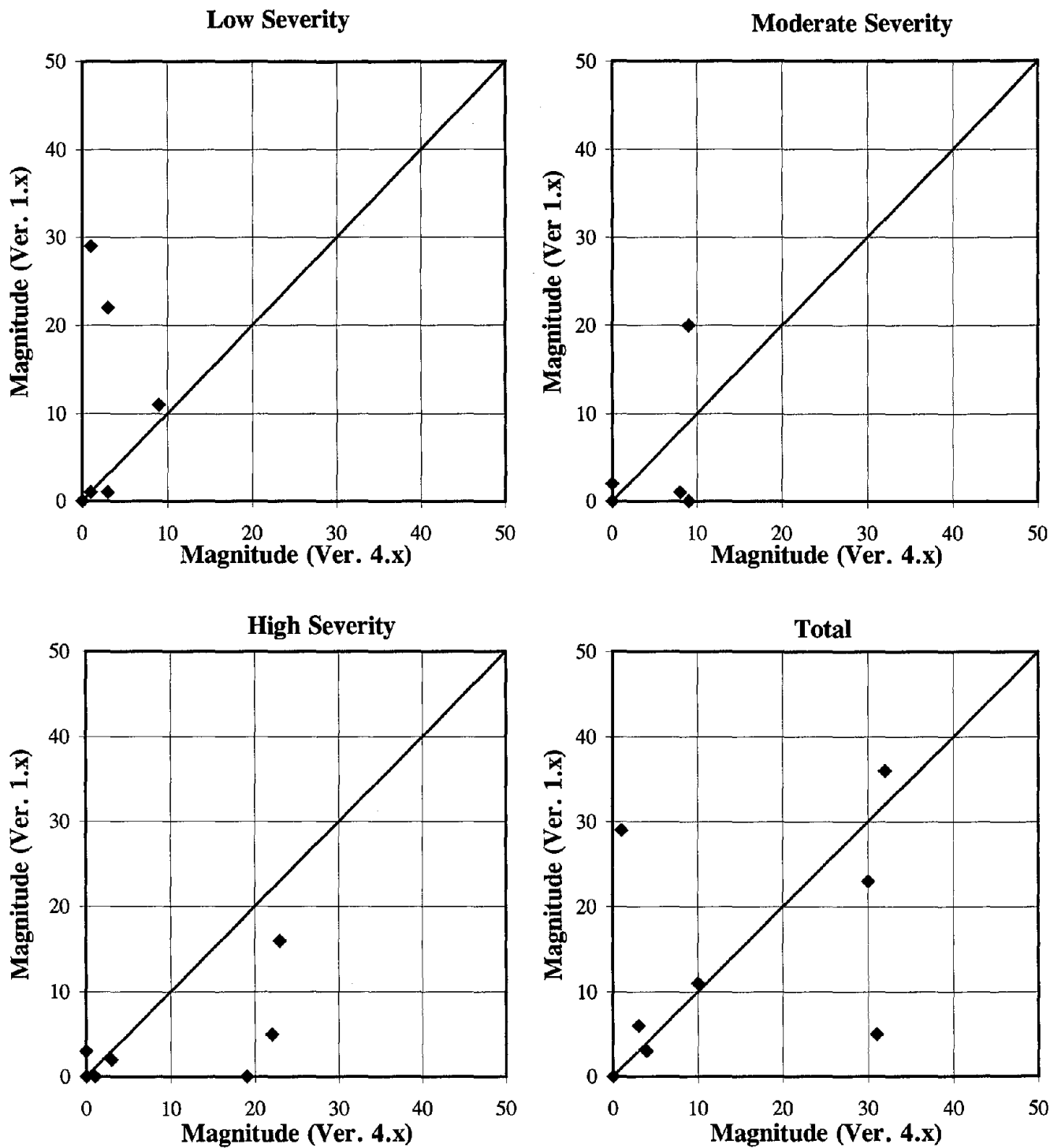


Figure 257. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Spalling of Transverse Joints (No.).

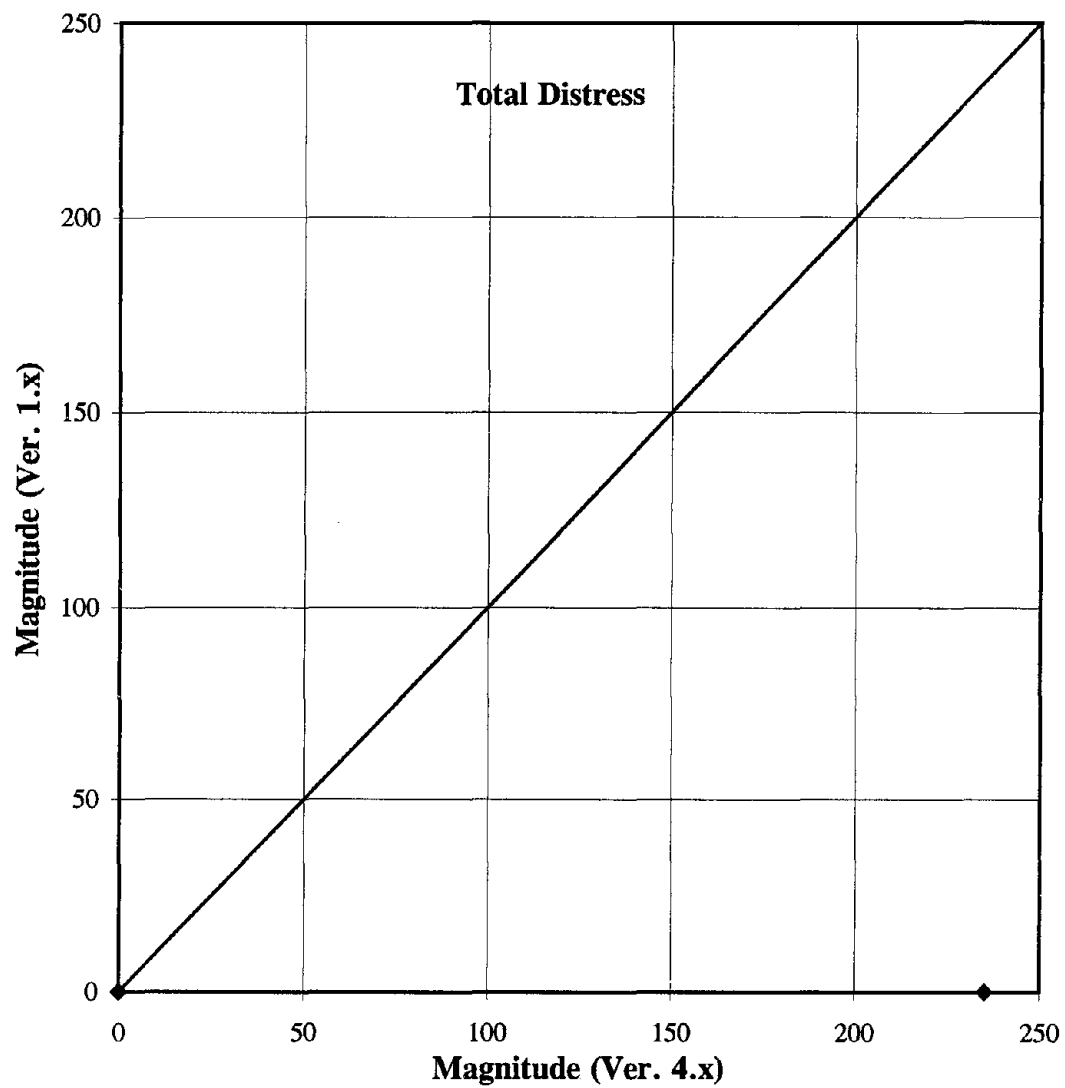


Figure 258. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Polished Aggregate (Sq. Meters).

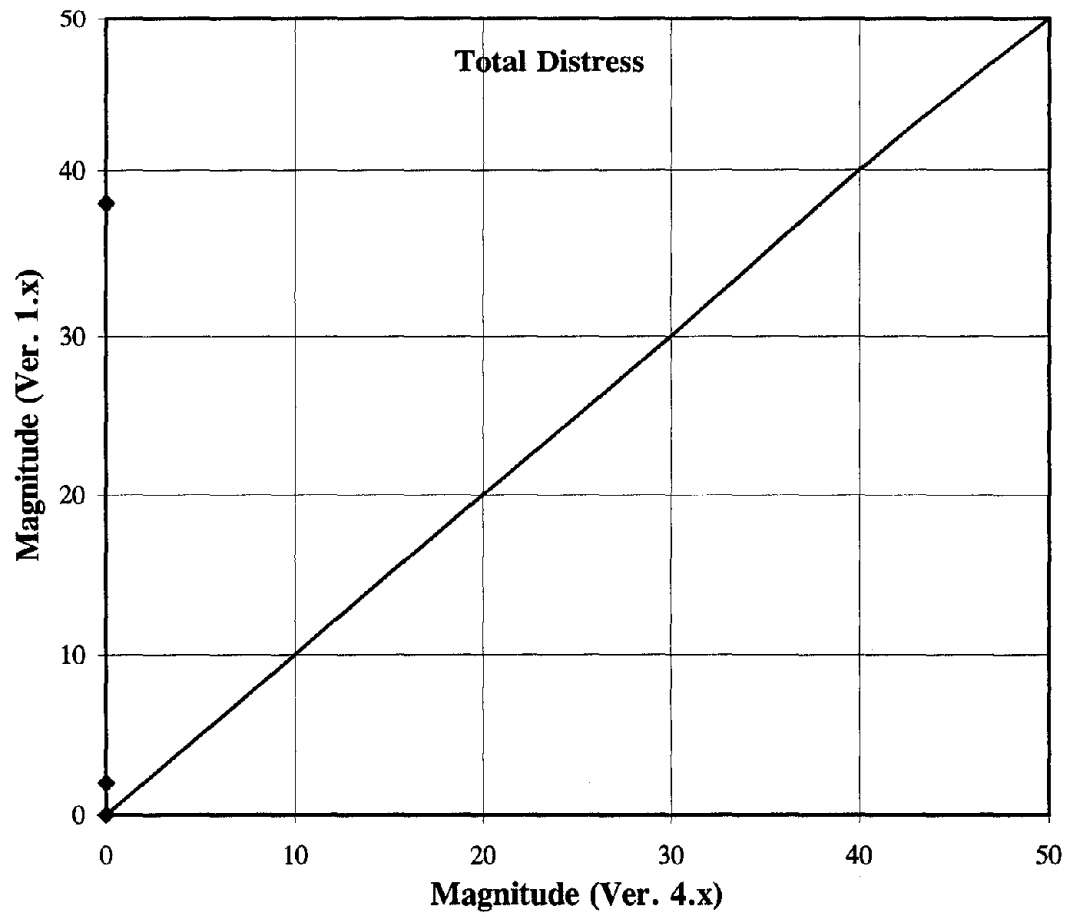


Figure 259. Comparison of PADIAS v1.x and v4.x - JPC Pavements, Popouts (No.).

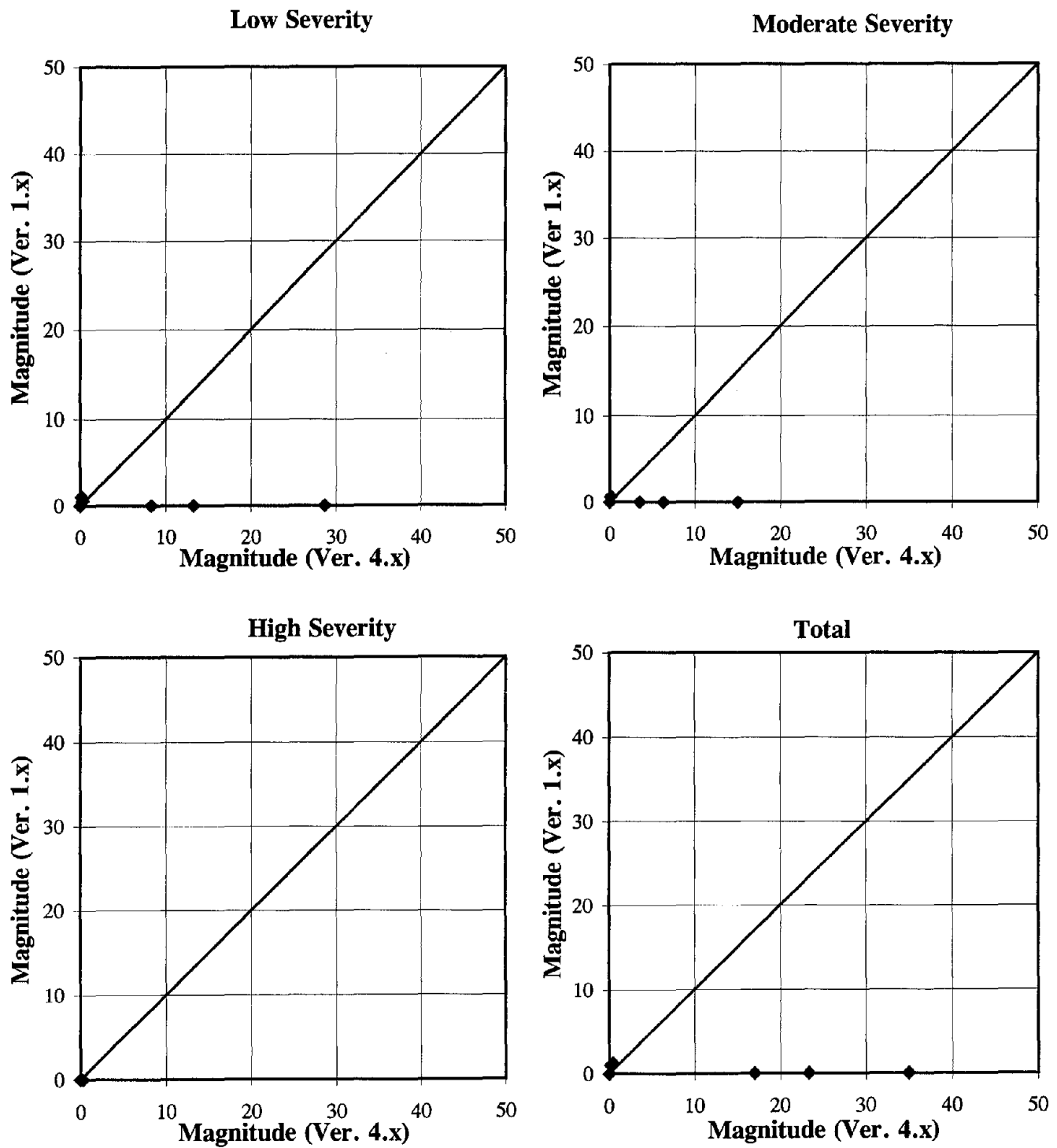


Figure 260. Comparison of PADIAS v1.x and v4.x - JPC Pavements, AC Patch (Sq. Meters).

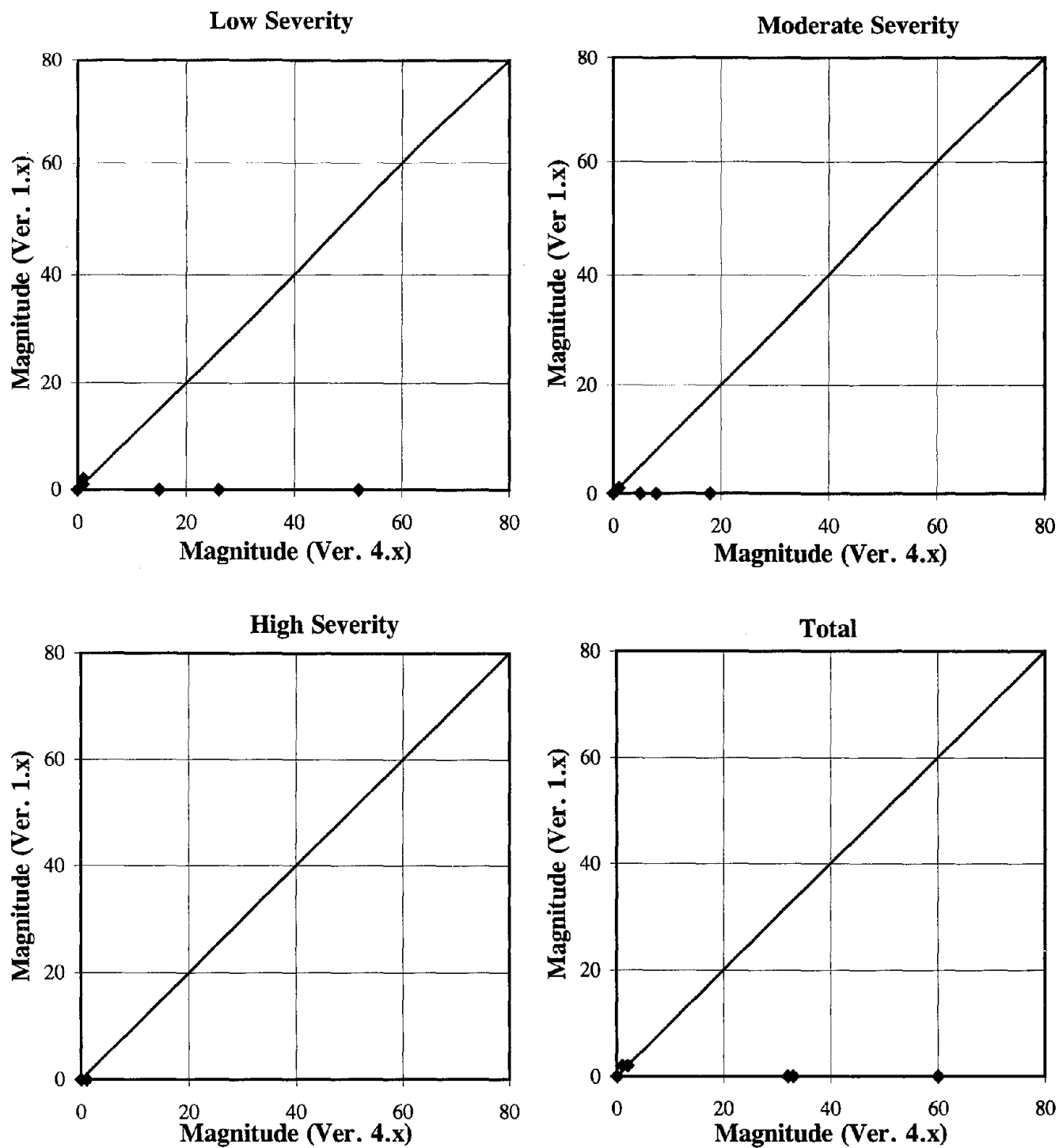


Figure 261. Comparison of PADIAS v1.x and v4.x - JPC Pavements, AC Patch (No.).

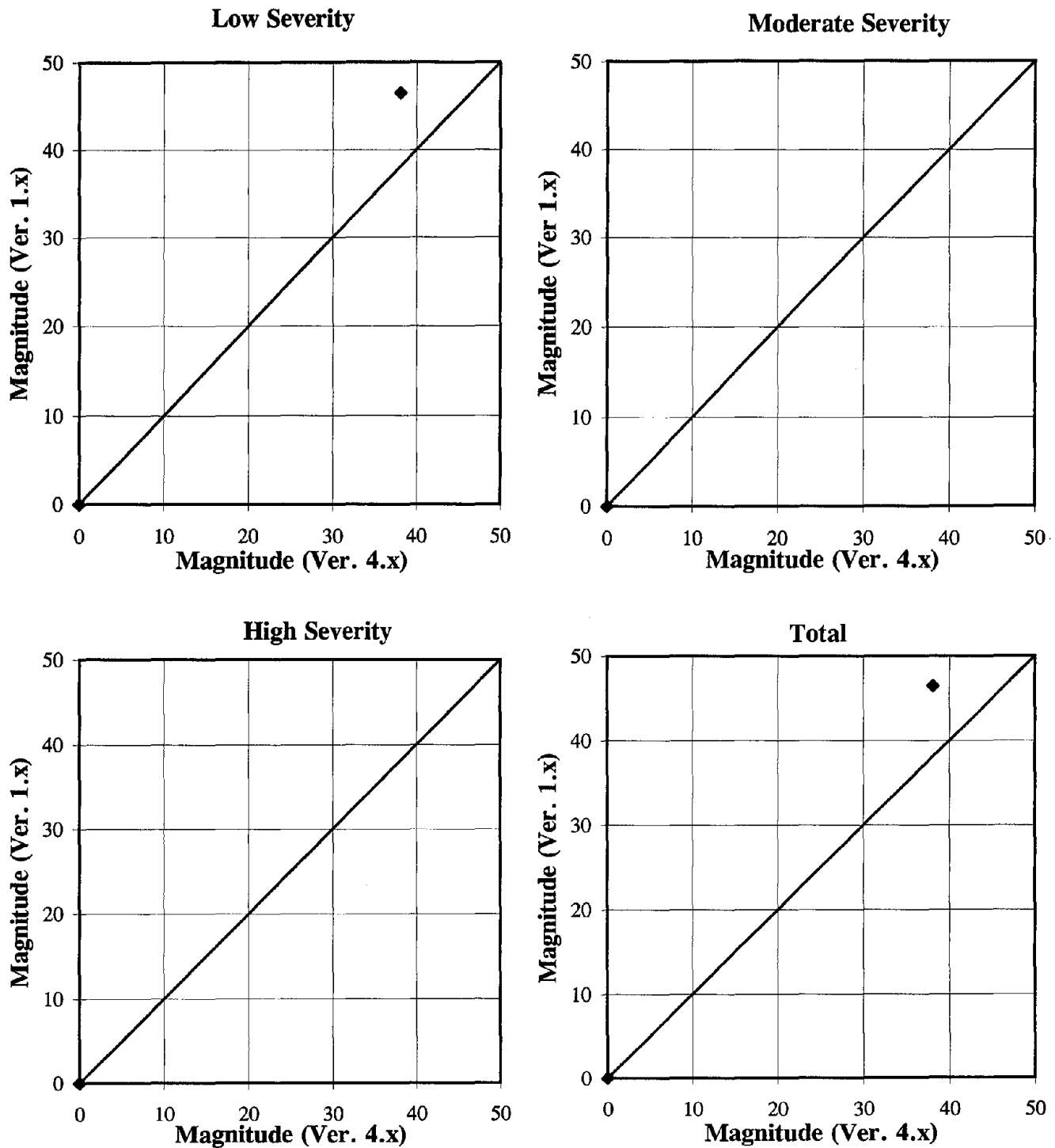


Figure 262. Comparison of PADIAS v1.x and v4.x - JPC Pavements, PCC Patch (Sq. Meters).

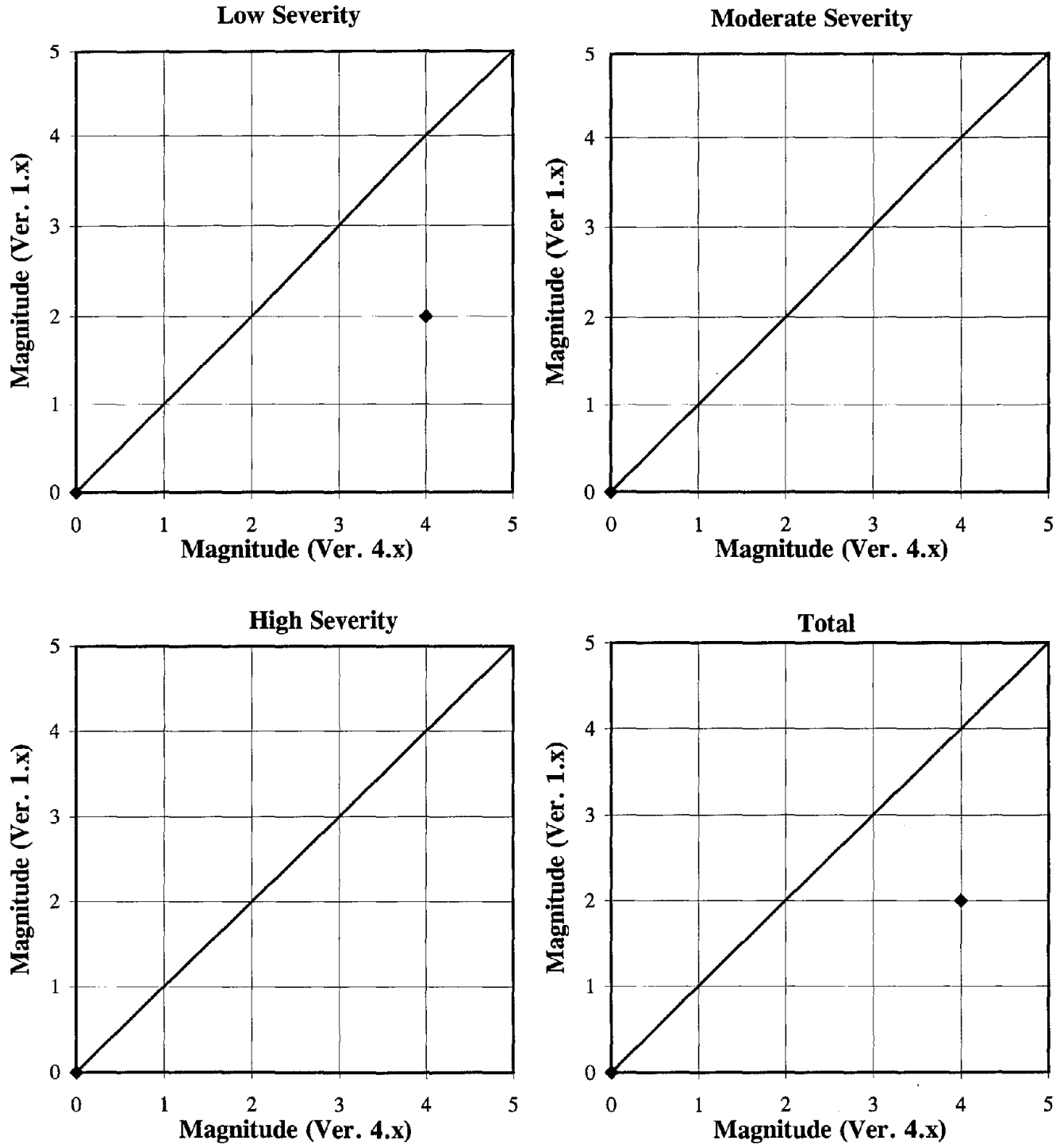


Figure 263. Comparison of PADIAS v1.x and v4.x - JPC Pavements, PCC Patch (No.).

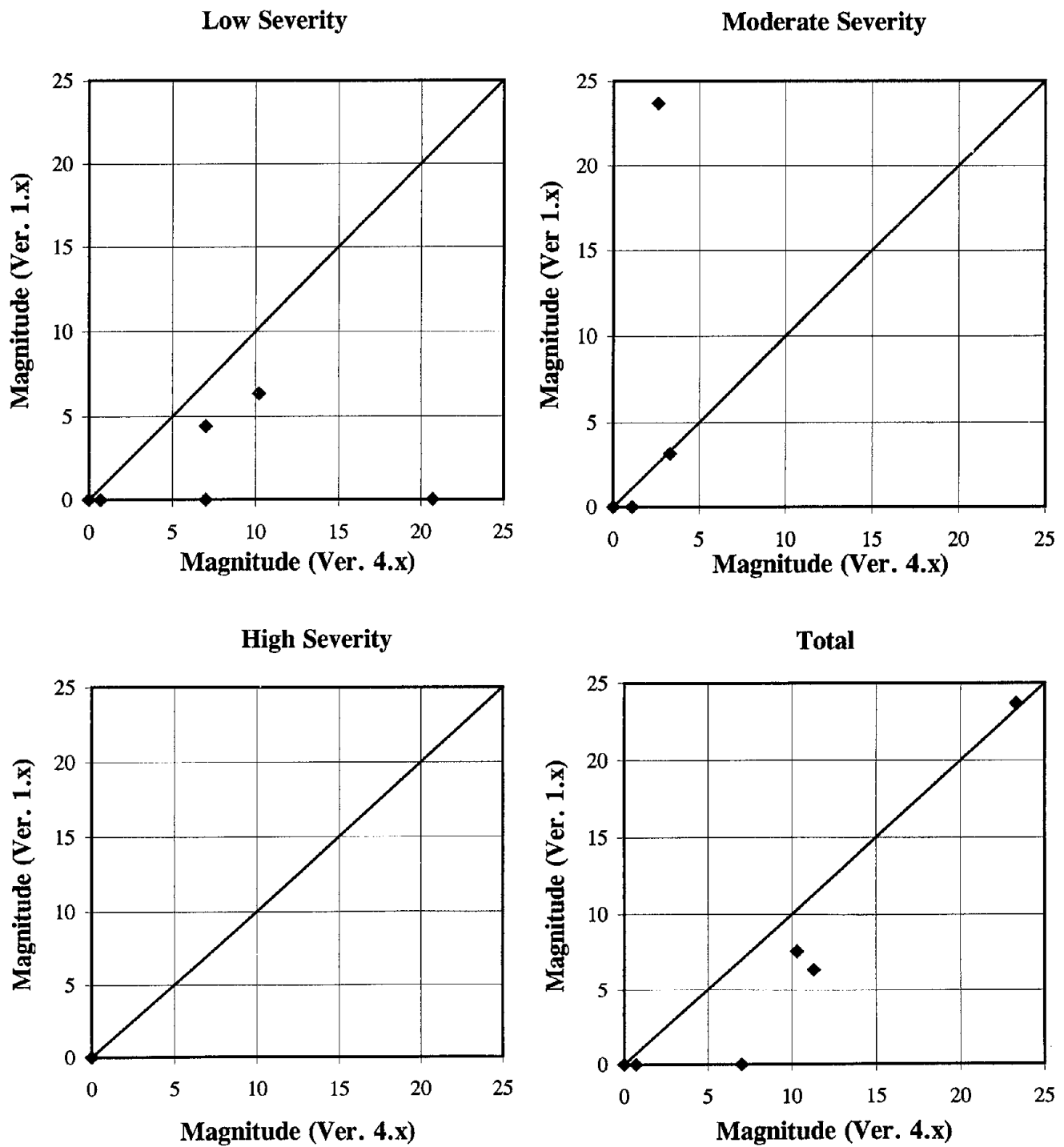


Figure 264. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Longitudinal Cracking (Meters).

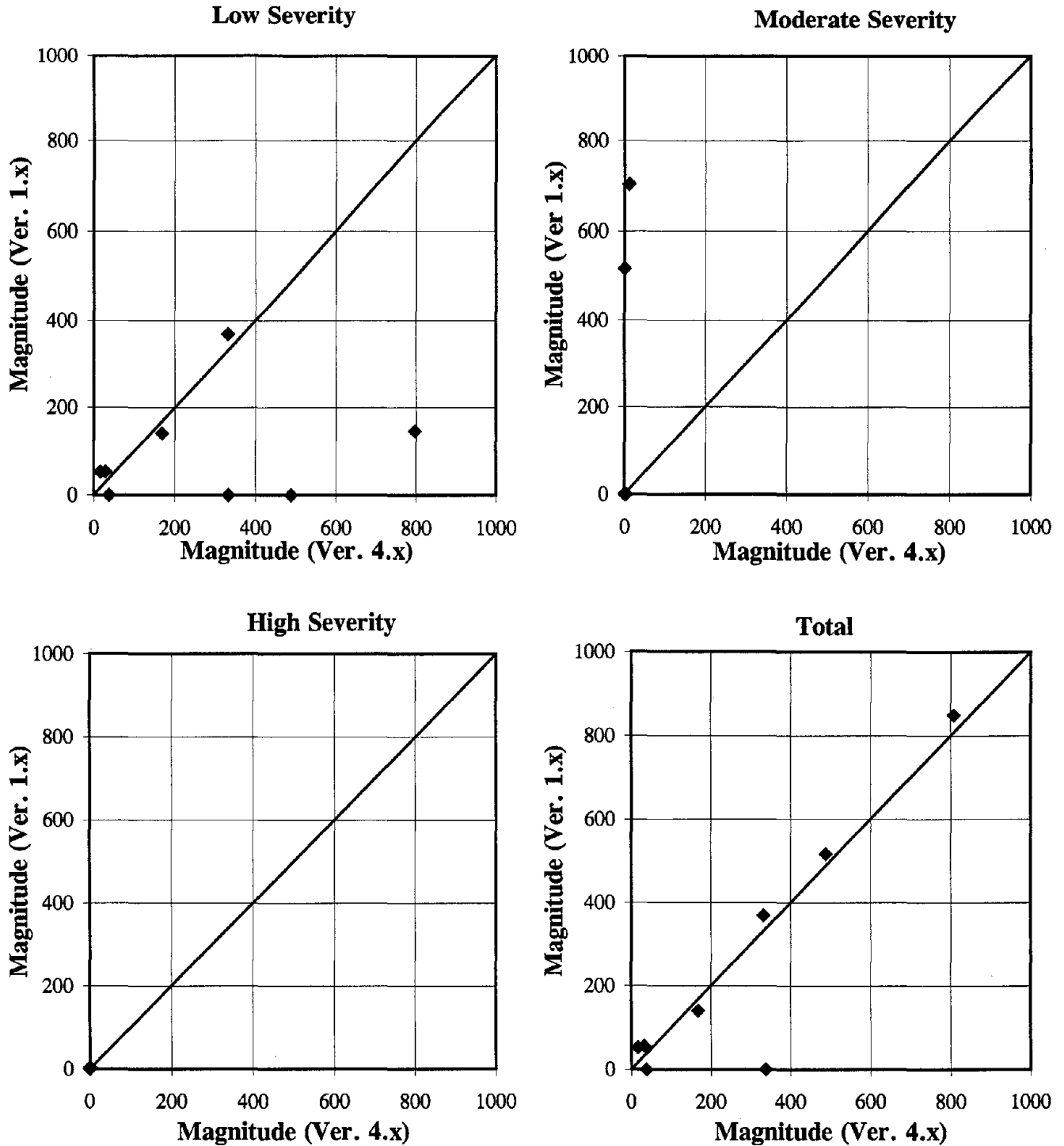


Figure 265. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Transverse Cracking (Meters).

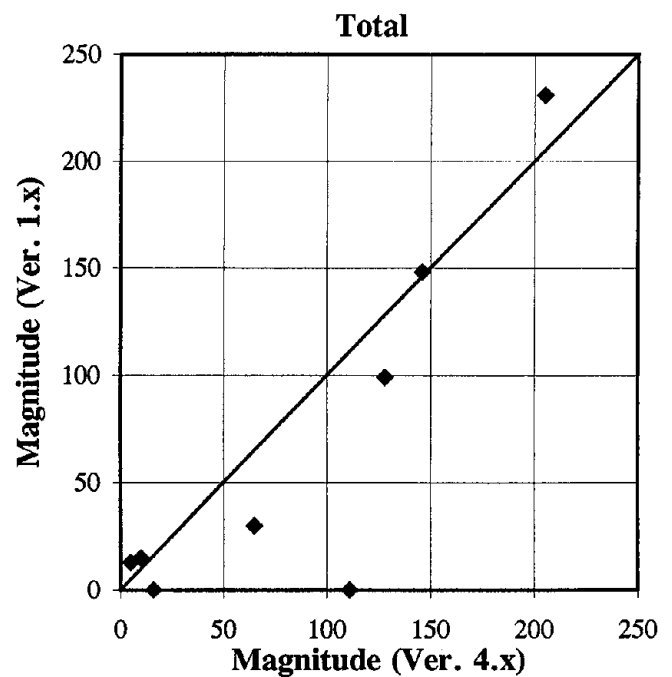
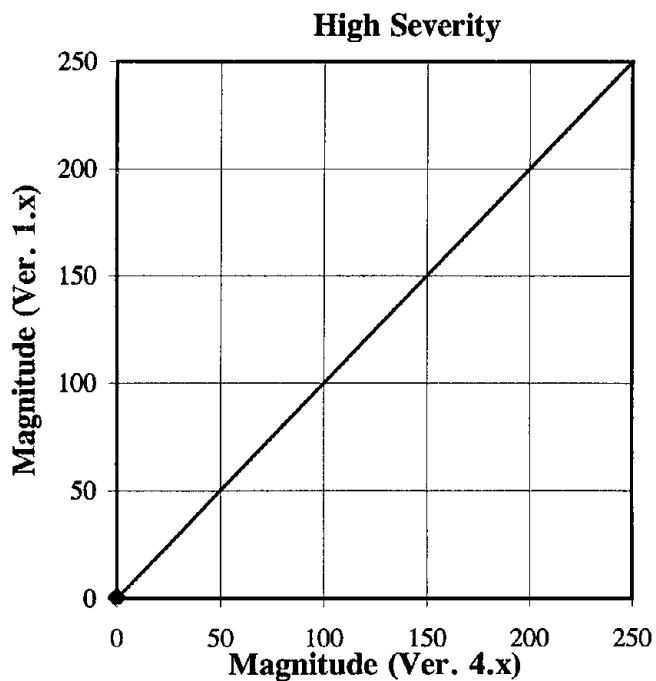
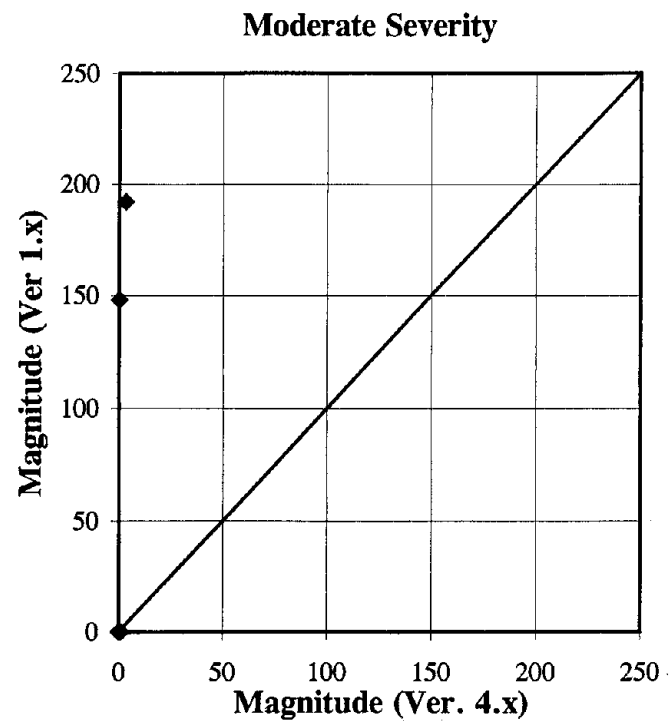
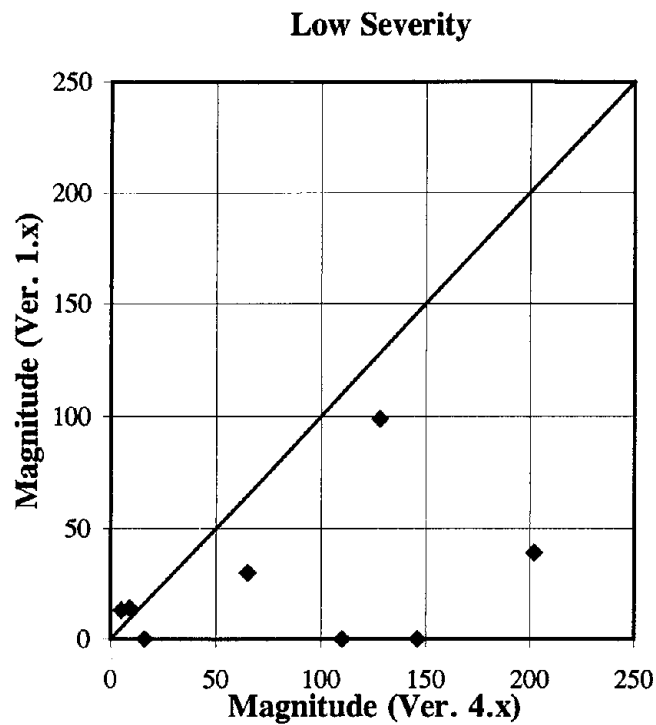


Figure 266. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Transverse Cracking (No.).

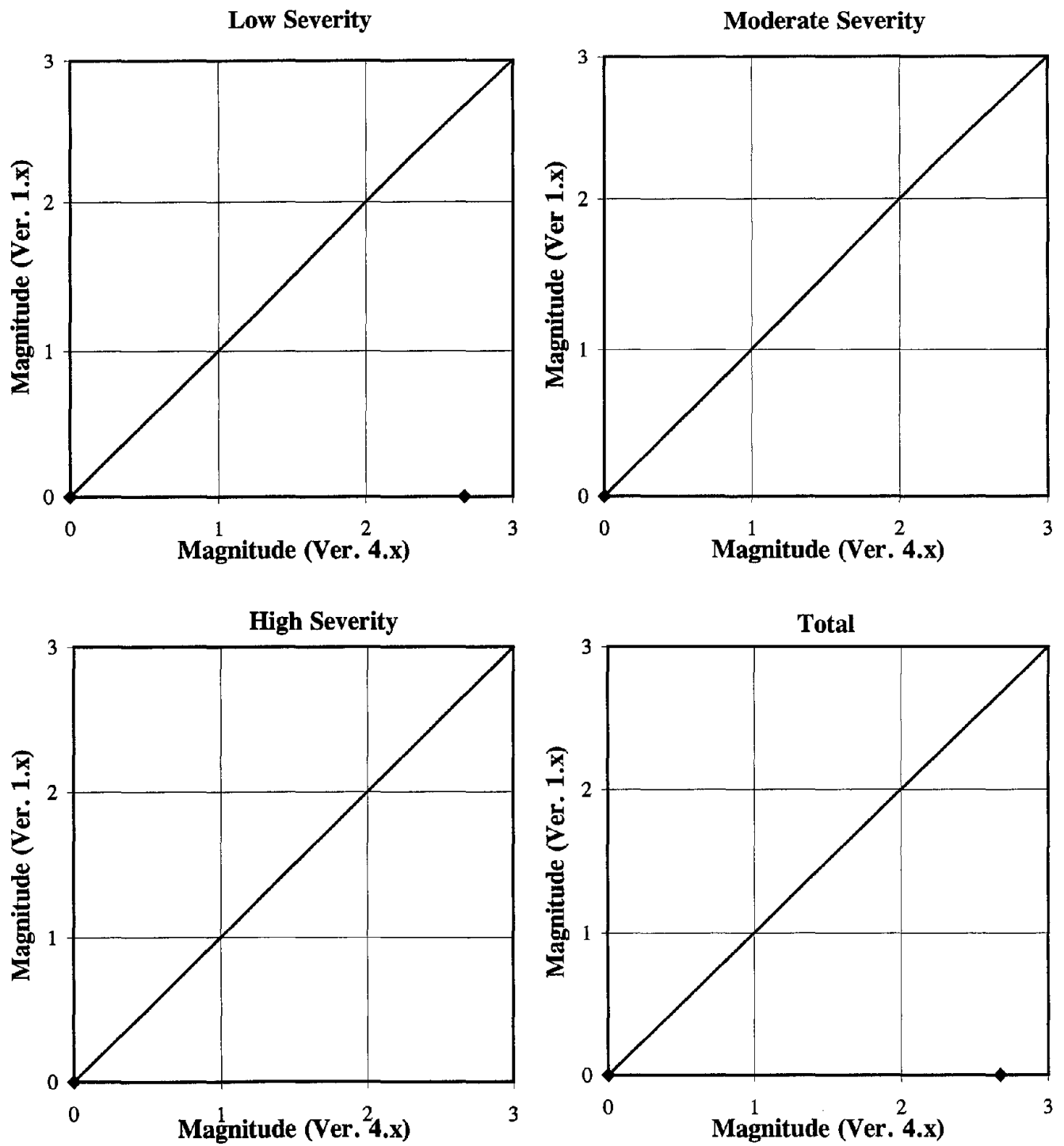


Figure 267. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Scaling (Sq. Meters).

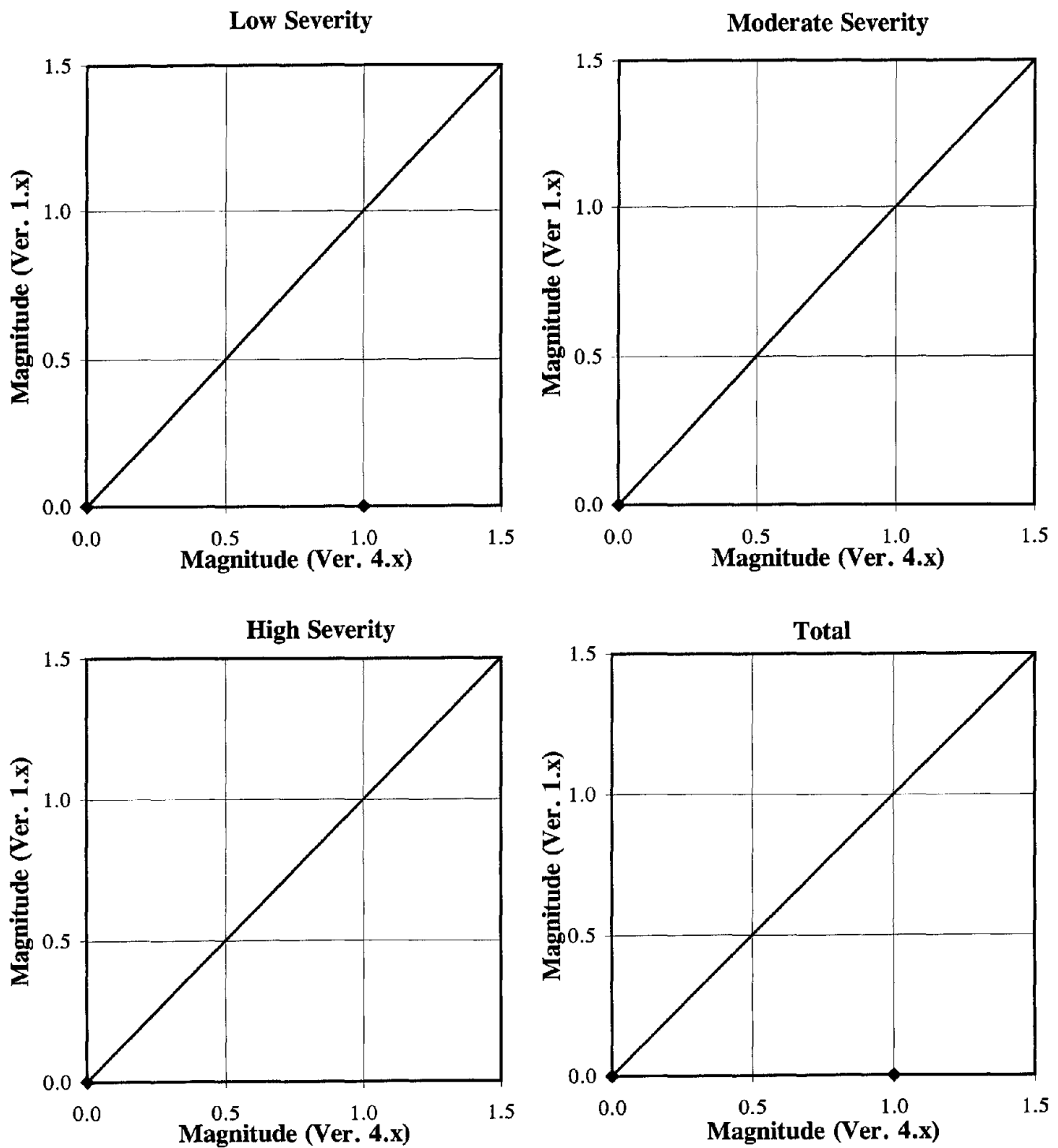
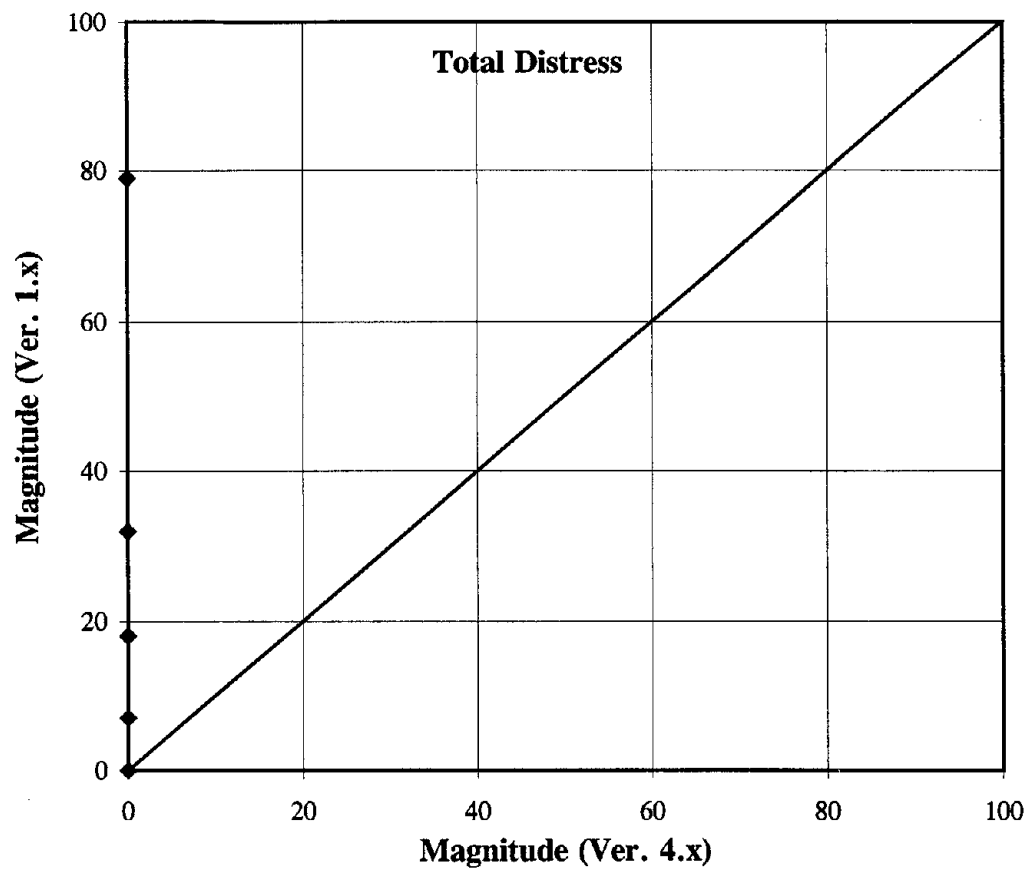


Figure 268. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Scaling (No.).



**Figure 269. Comparison of PADIAS v1.x and v4.x -
CRC Pavements, Popouts (No.).**

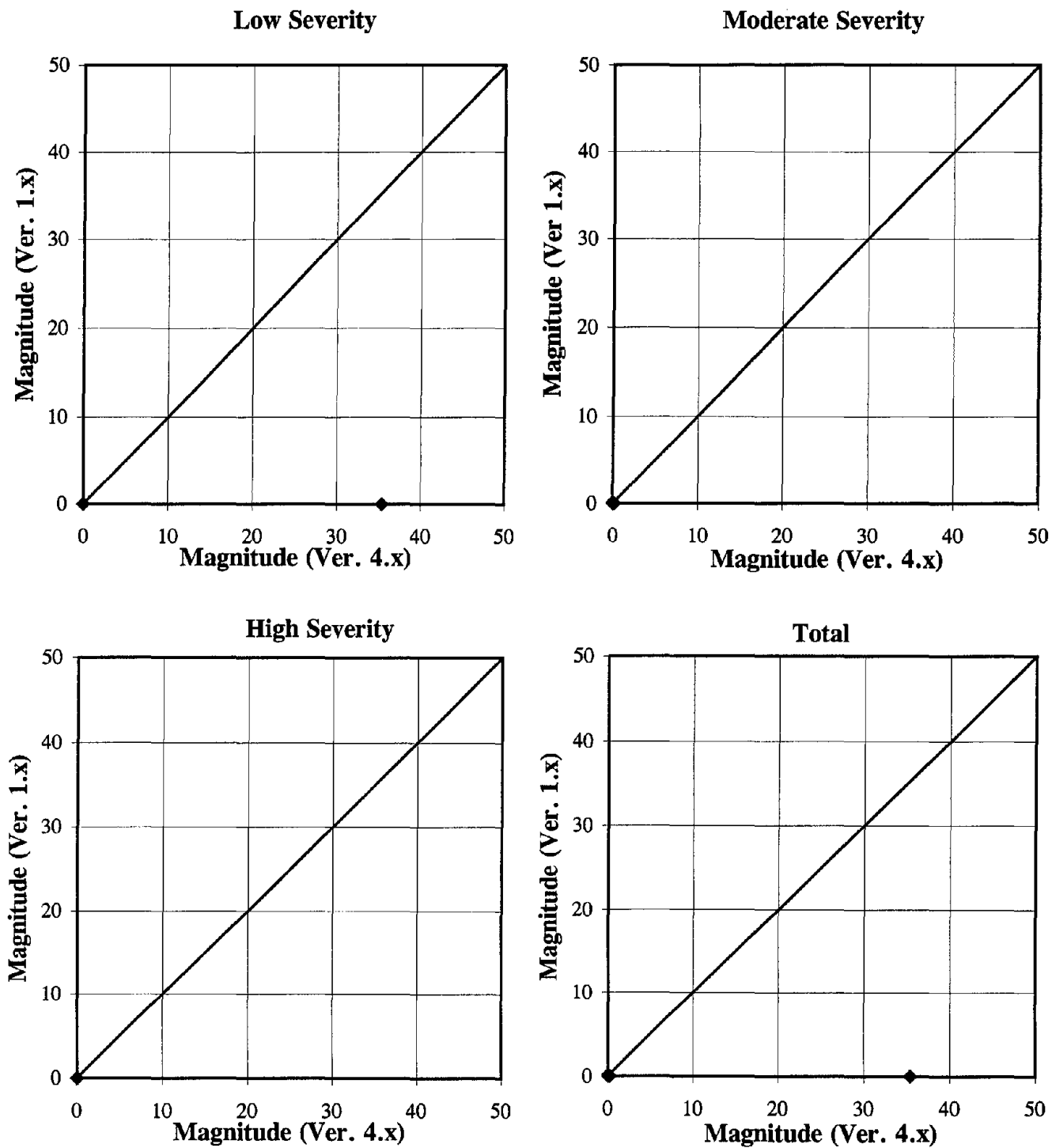


Figure 270. Comparison of PADIAS v1.x and v4.x - CRC Pavements, AC Patch (Sq. Meters).

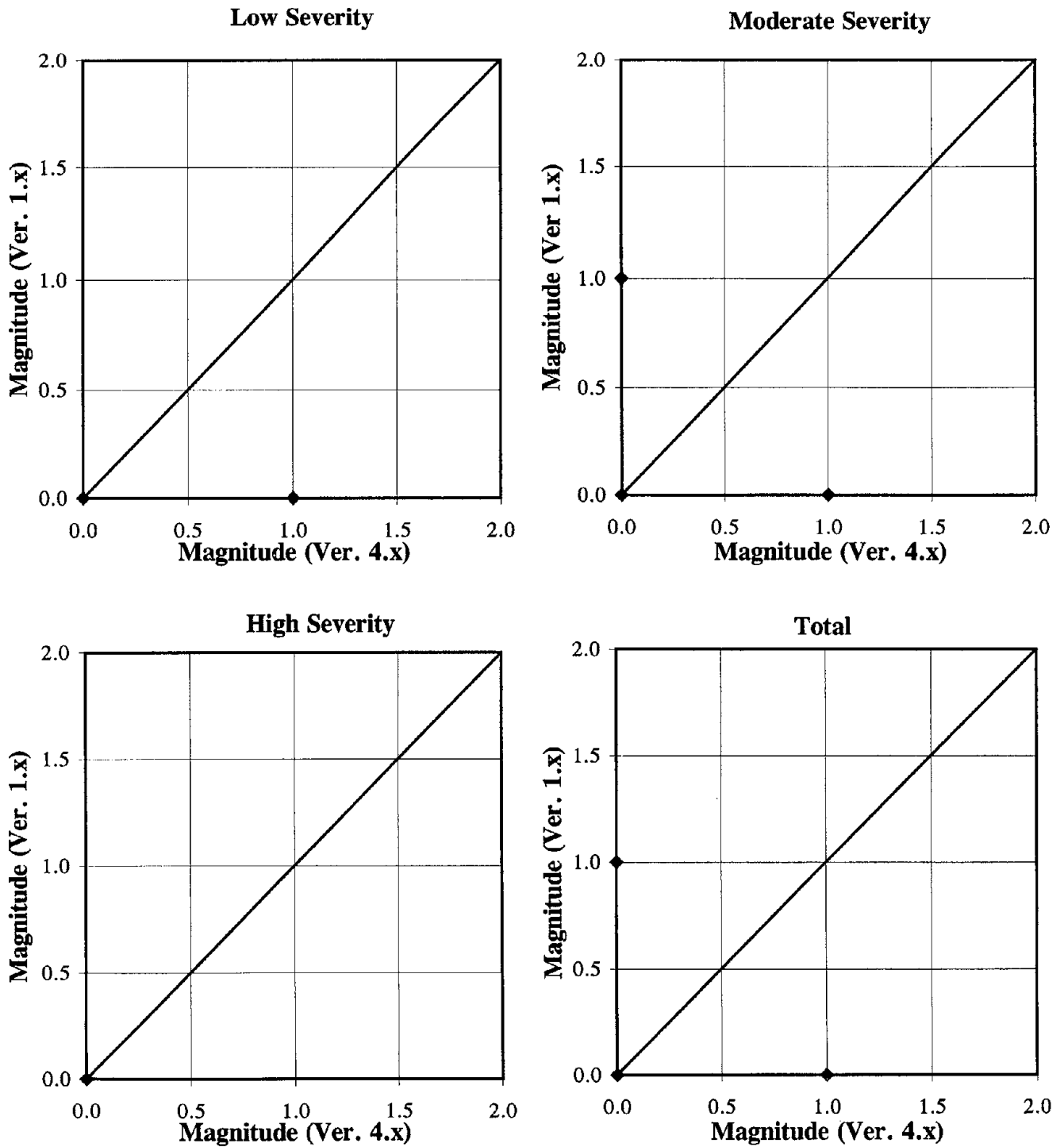


Figure 271. Comparison of PADIAS v1.x and v4.x - CRC Pavements, AC Patch (No.).

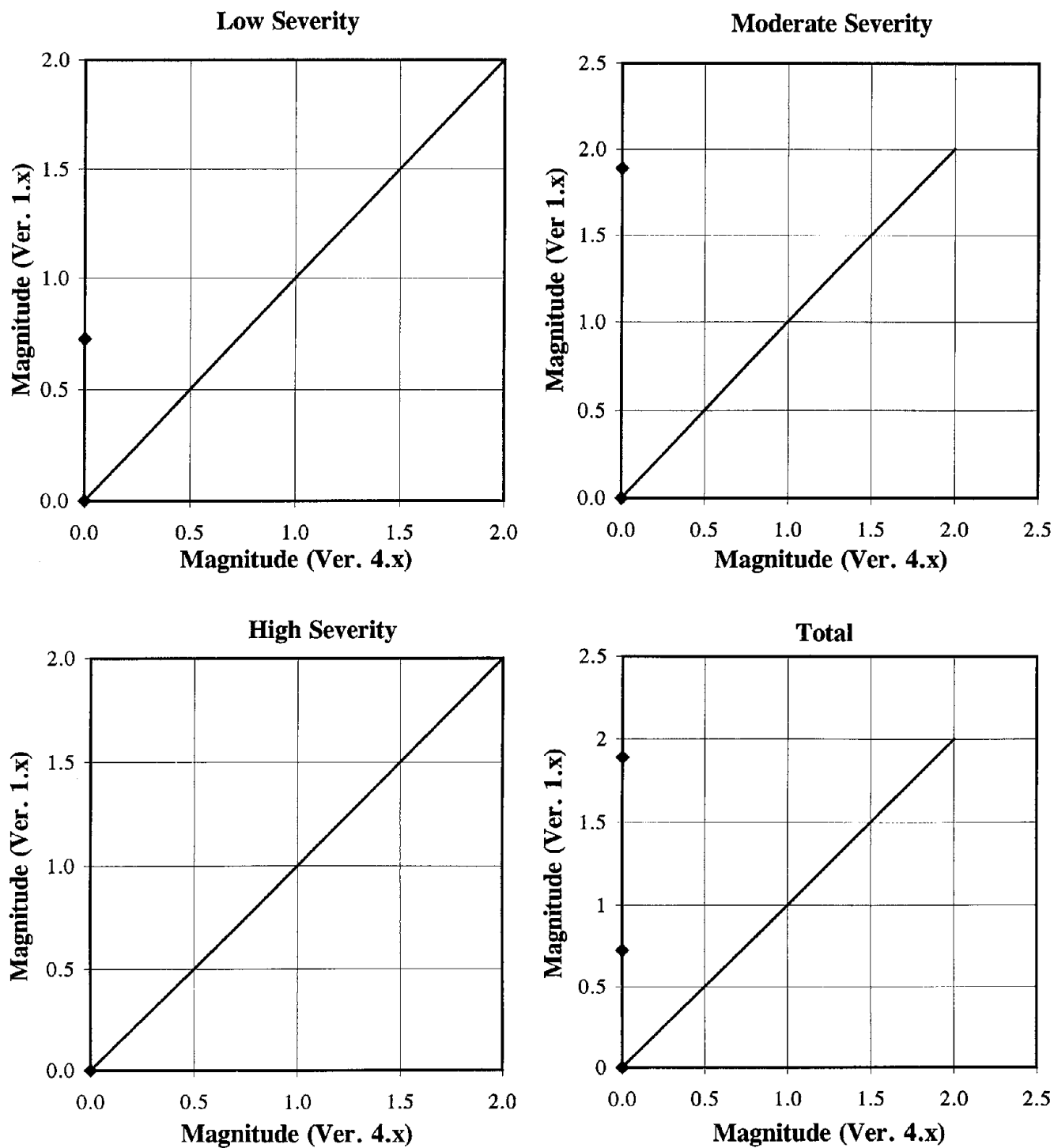


Figure 272. Comparison of PADIAS v1.x and v4.x - CRC Pavements, PCC Patch (Sq. Meters).

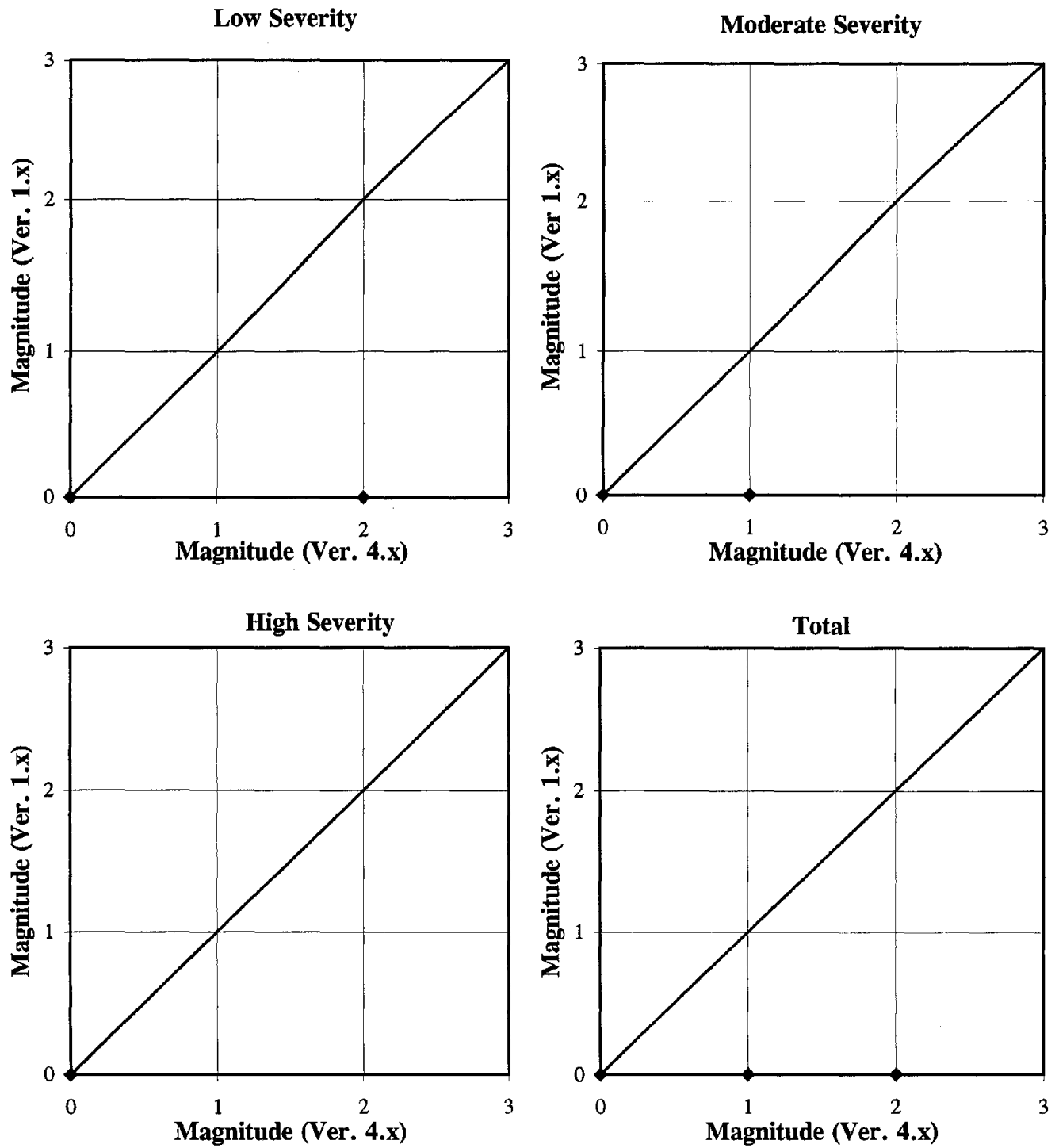


Figure 273. Comparison of PADIAS v1.x and v4.x - CRC Pavements, PCC Patch (No.).

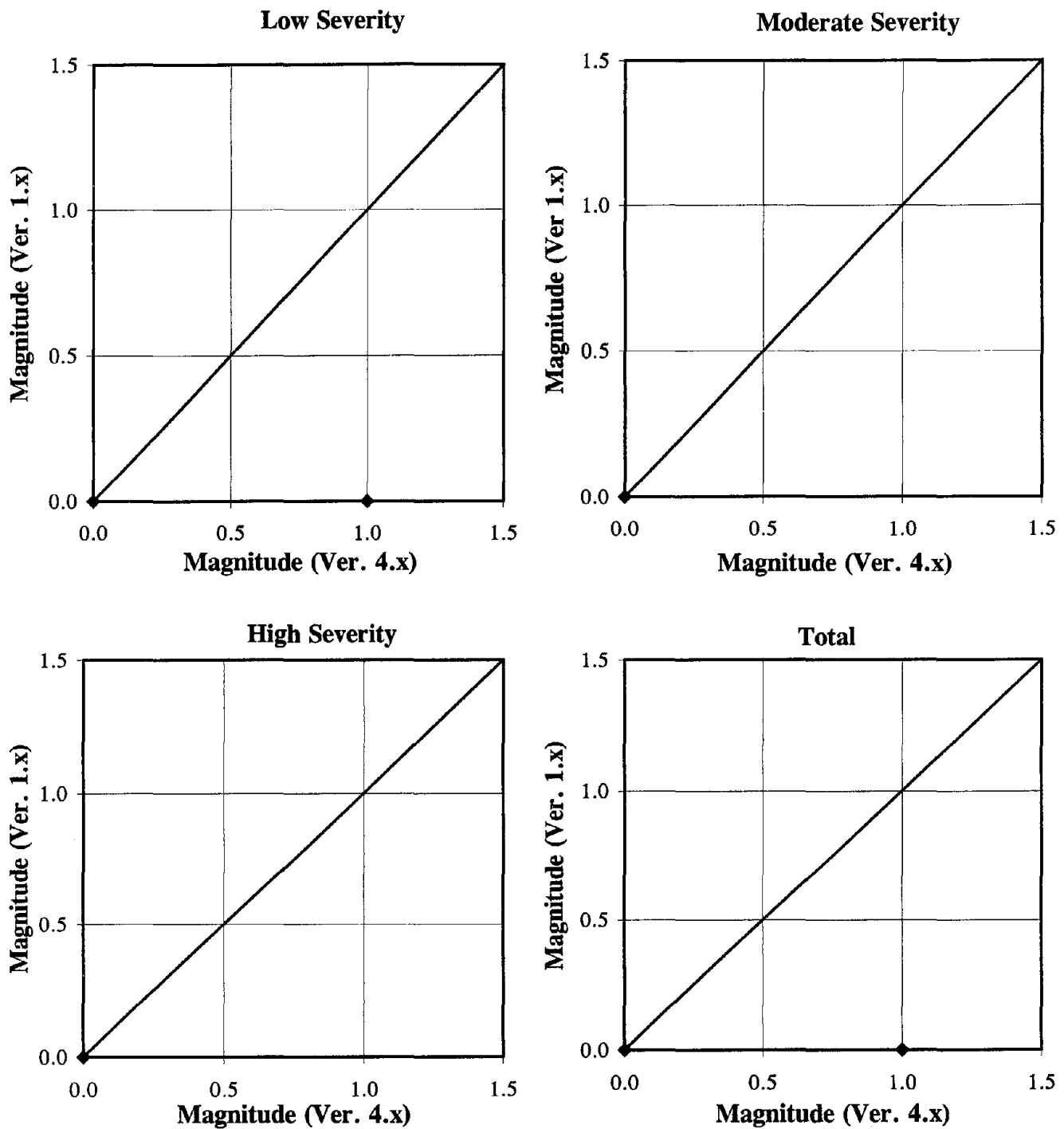


Figure 274. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Punchouts (No.).

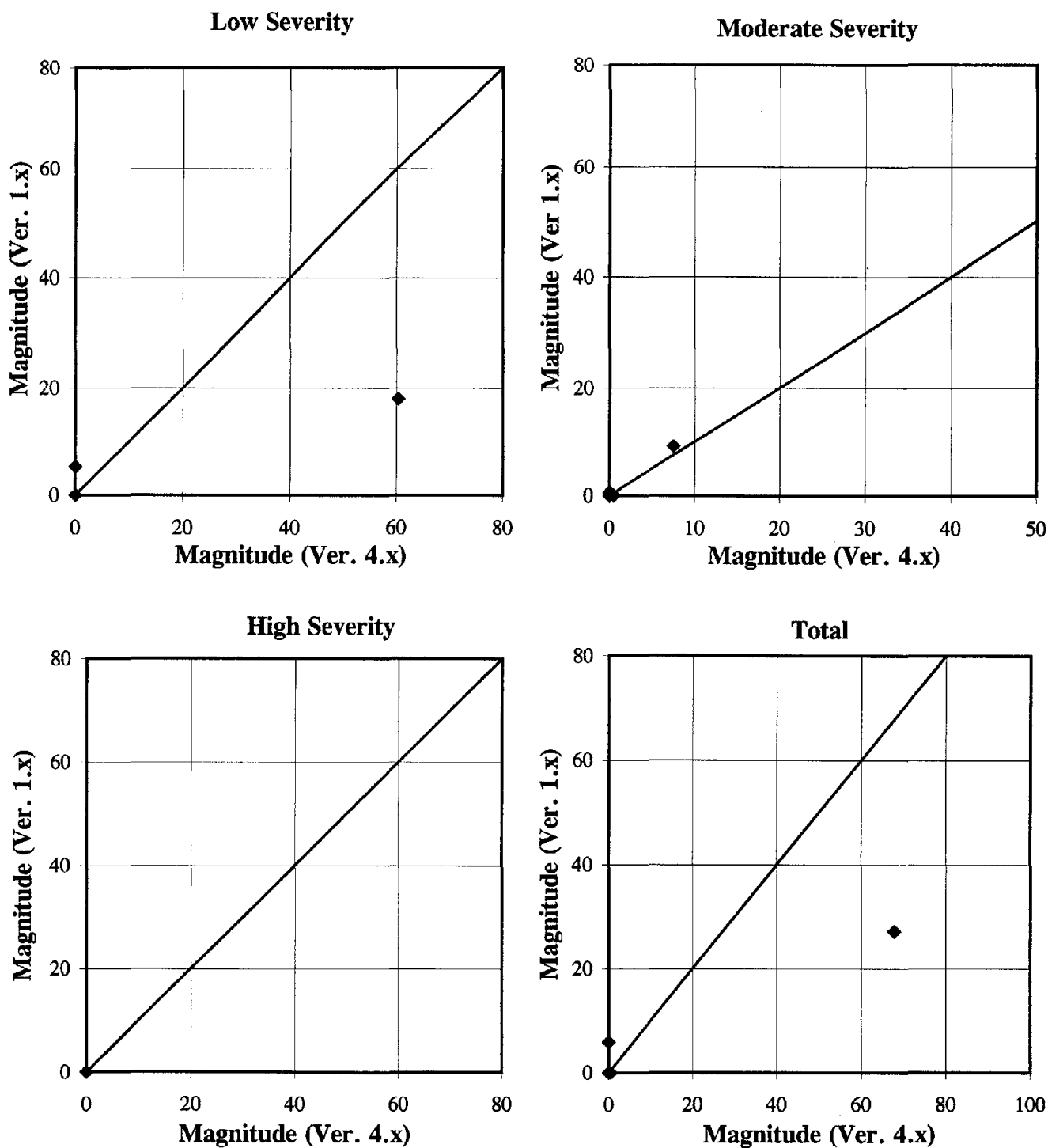


Figure 275. Comparison of PADIAS v1.x and v4.x - CRC Pavements, Spalling of Longitudinal Joints (Meters).

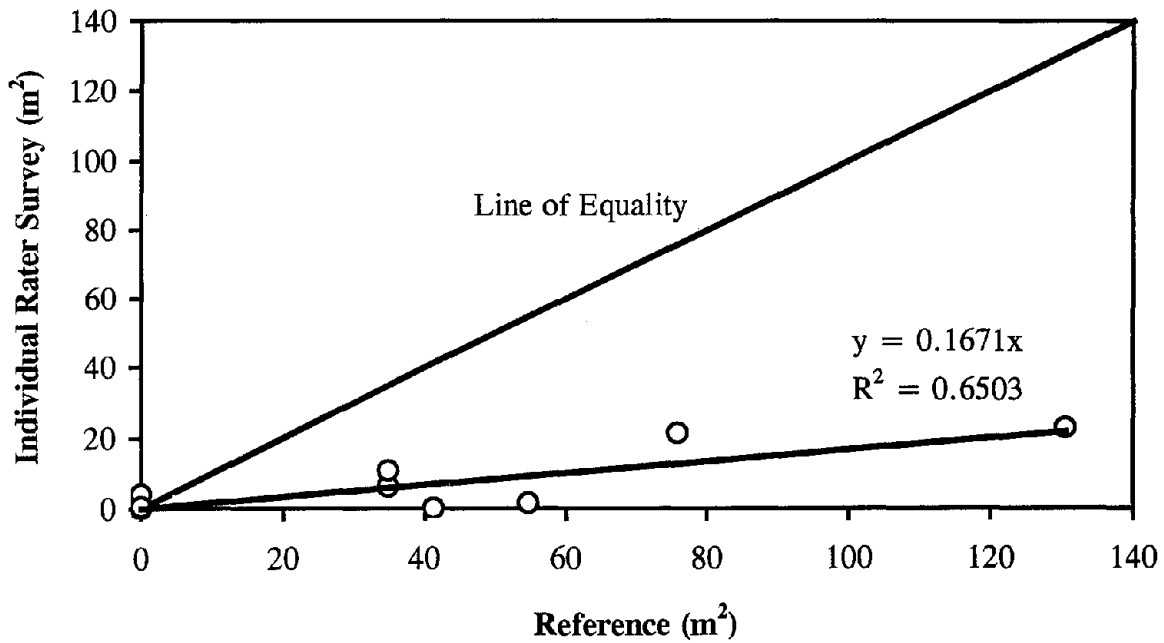
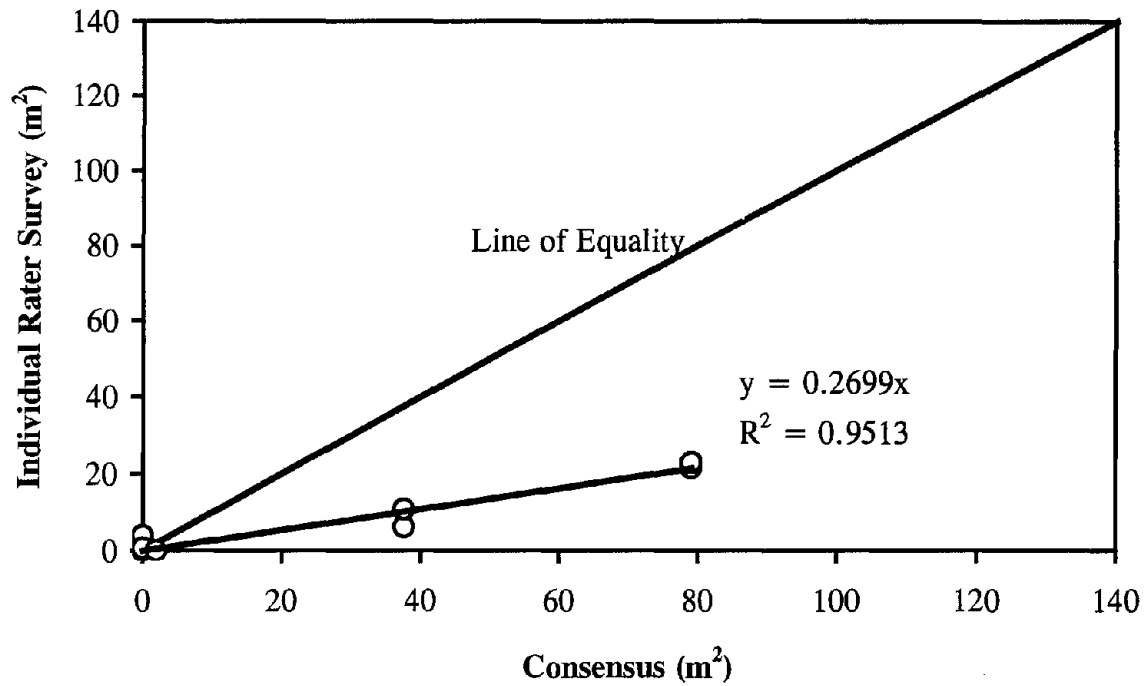


Figure 276. Individual Survey Vs. Reference and Consensus: Fatigue Cracking of AC Pavement, PASCO's Production Procedure.

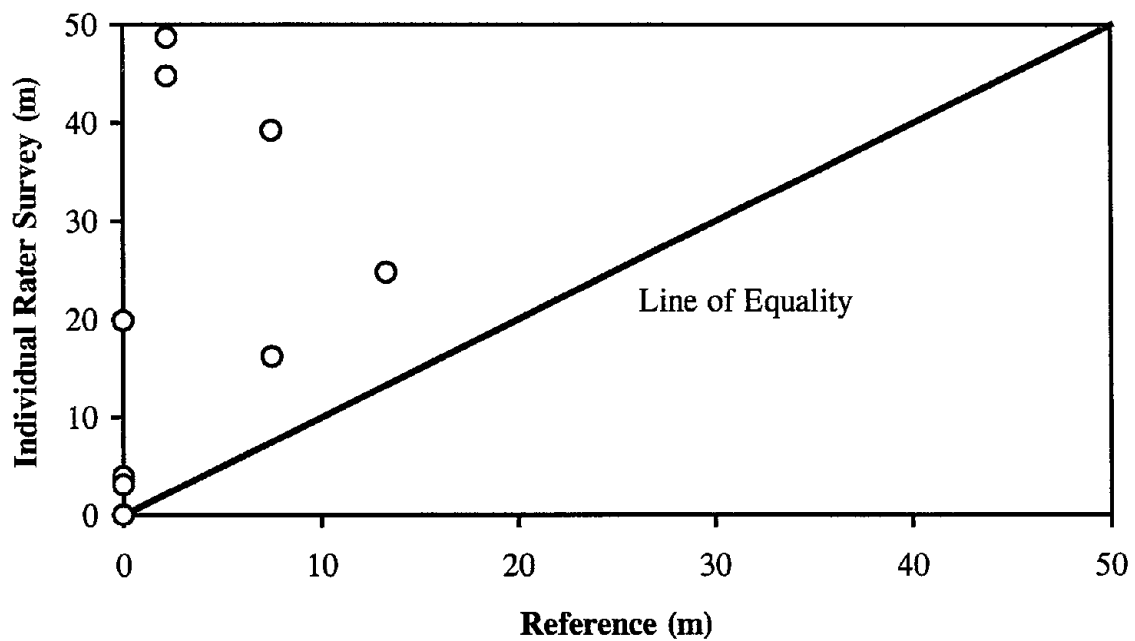
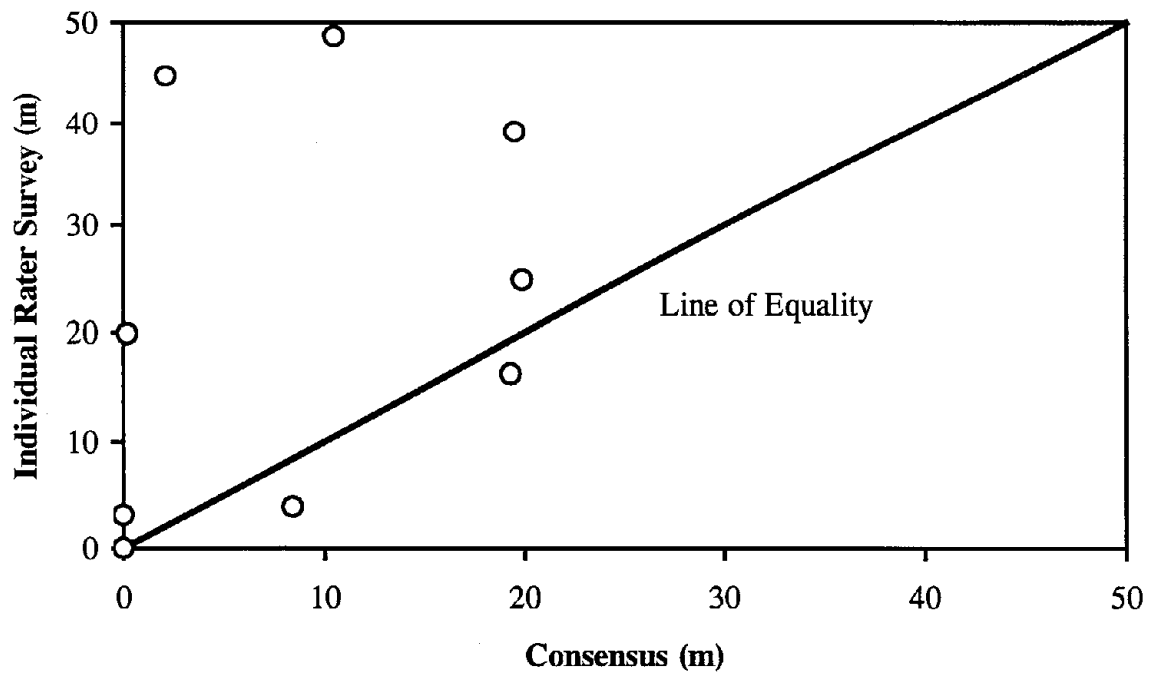


Figure 277. Individual Survey Vs. Reference and Consensus: Longitudinal Cracking (WP) of AC Pavement, PASCO's Production Procedure.

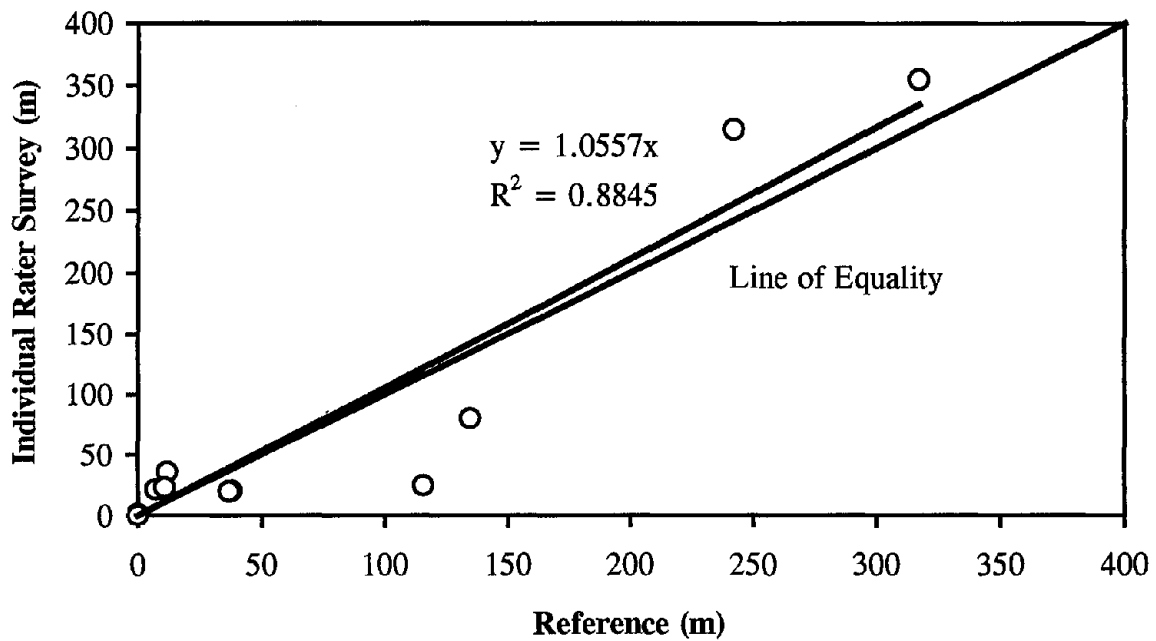
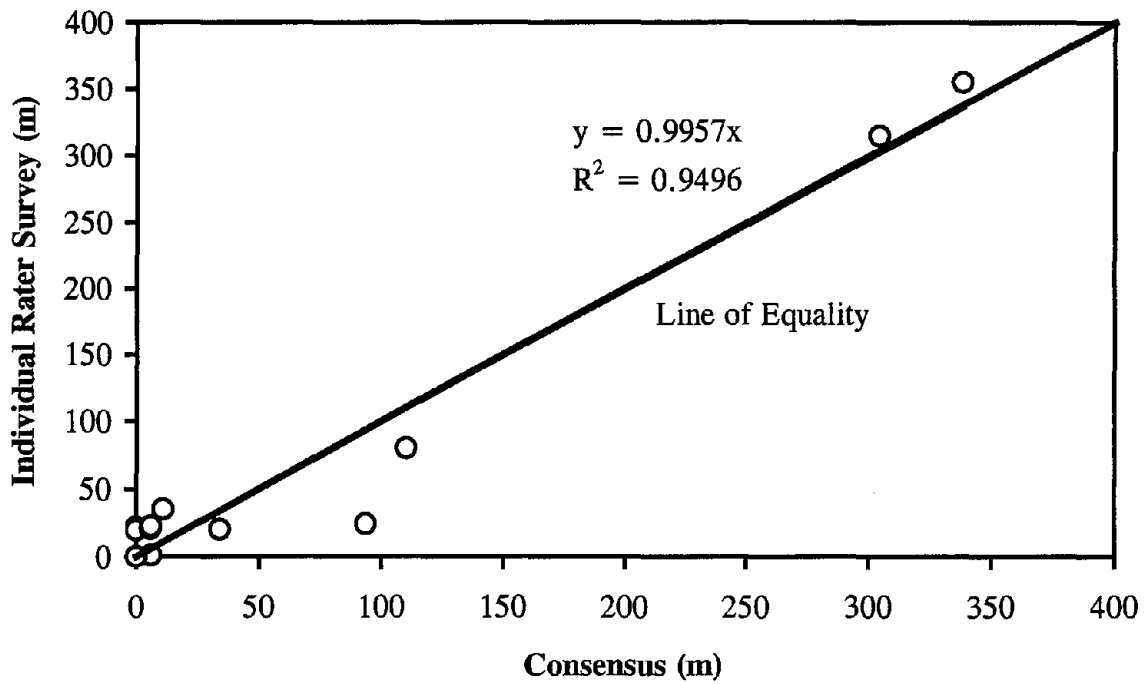


Figure 278. Individual Survey Vs. Reference and Consensus: Longitudinal Cracking (NWP) of AC Pavement, PASCO's Production Procedure.

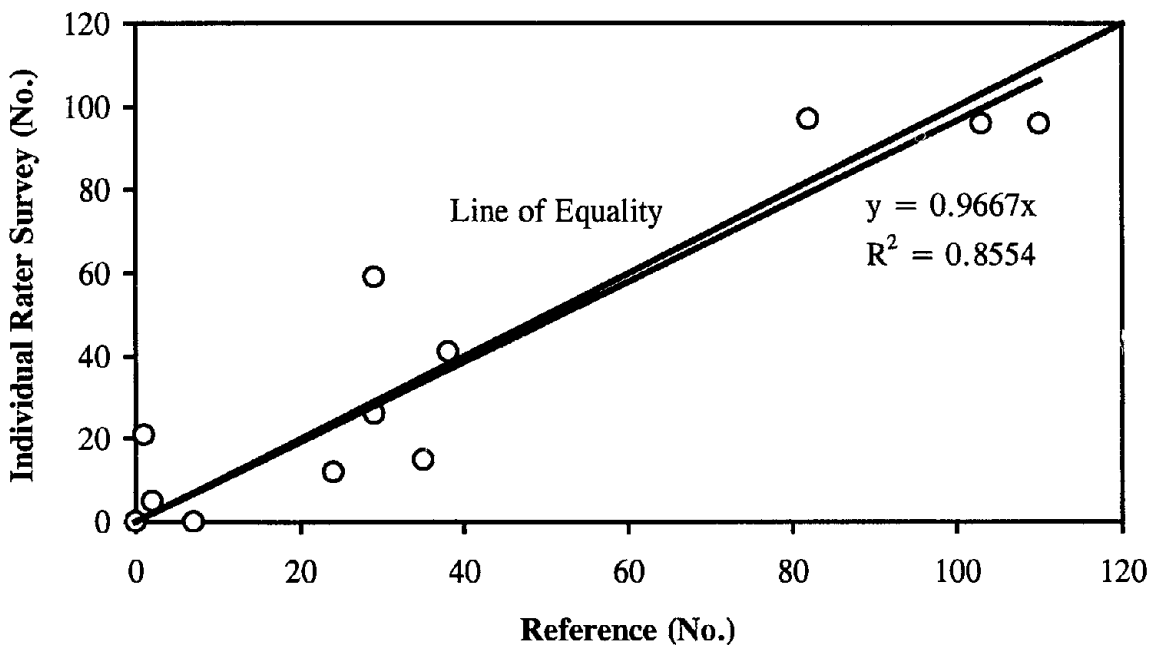
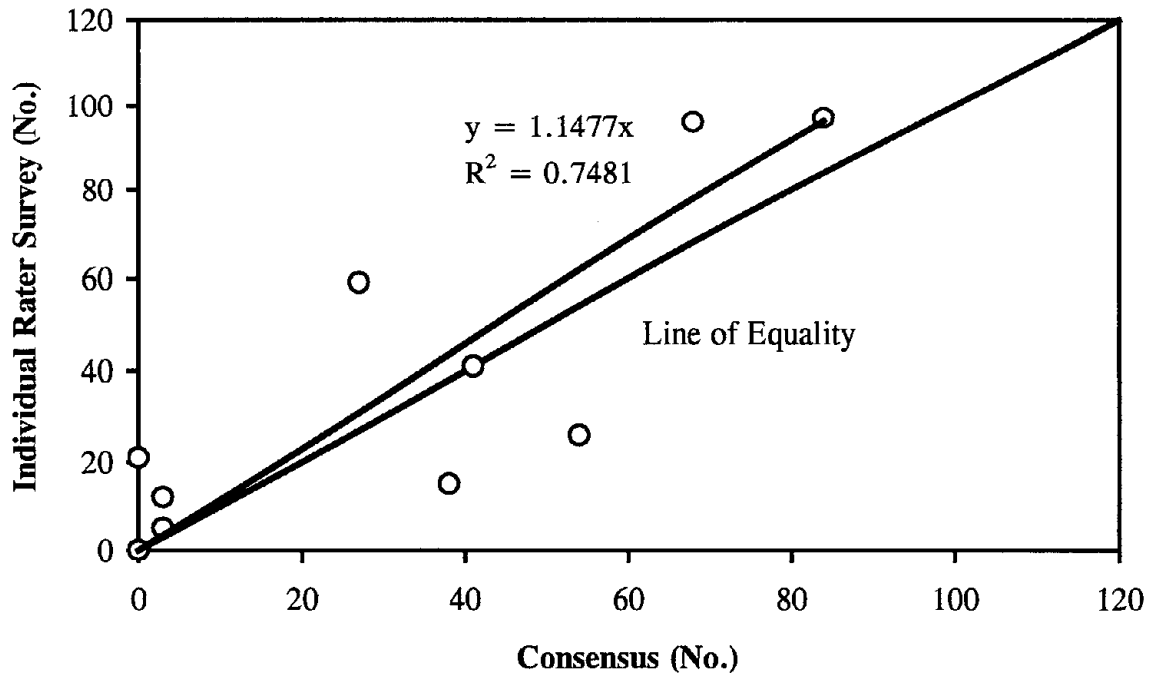


Figure 279. Individual Survey Vs. Reference and Consensus: Transverse Cracking (No.) of AC Pavement, PASCO's Production Procedure.

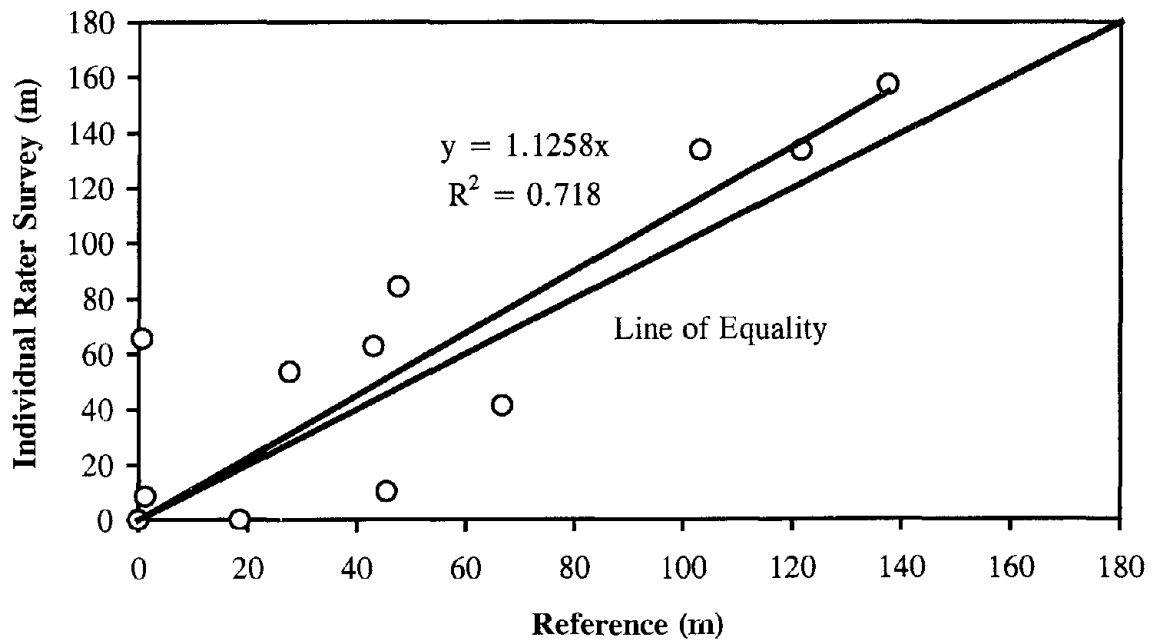
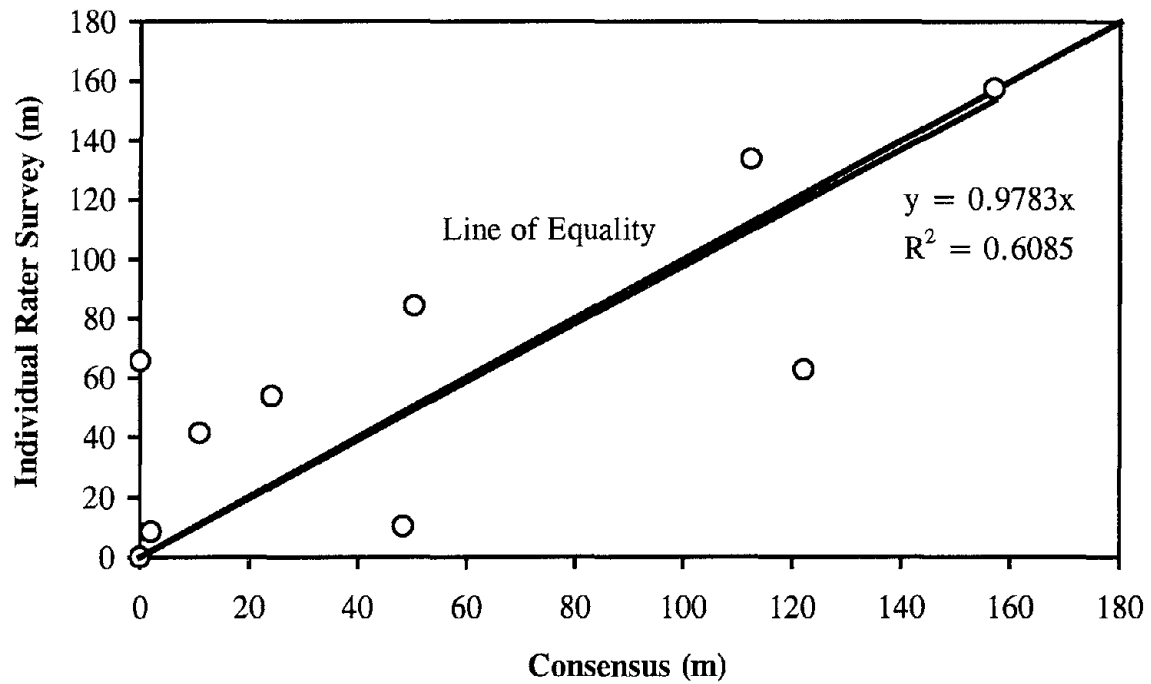


Figure 280. Individual Survey Vs. Reference and Consensus: Transverse Cracking (Meters) of AC Pavement, PASCO's Production Procedure.

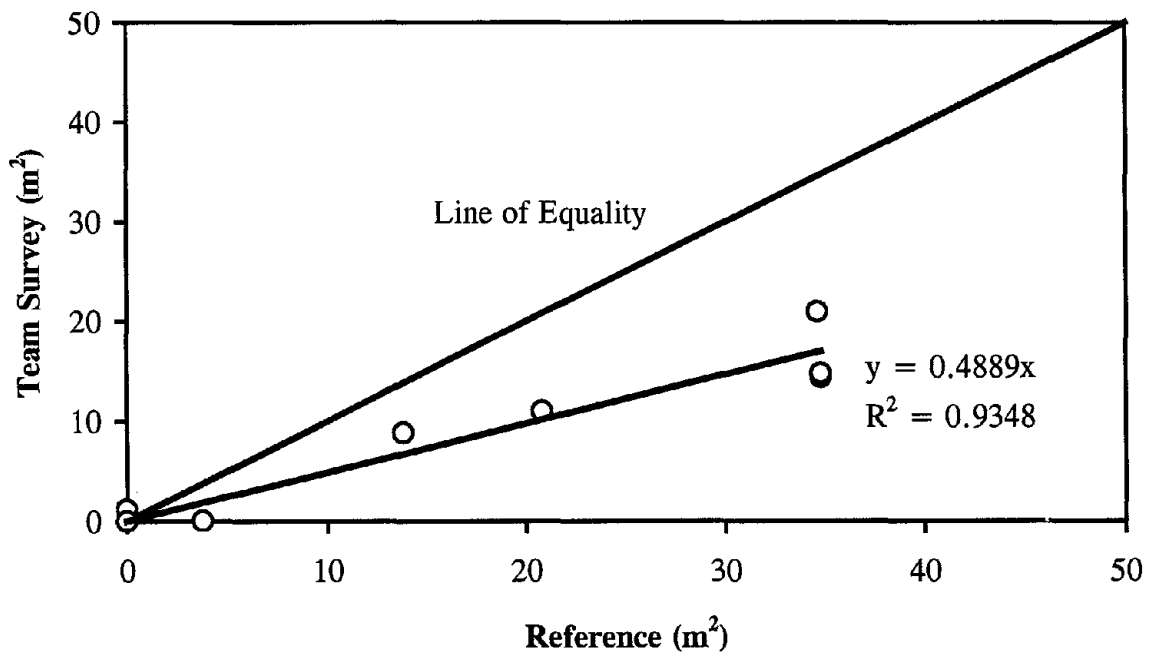
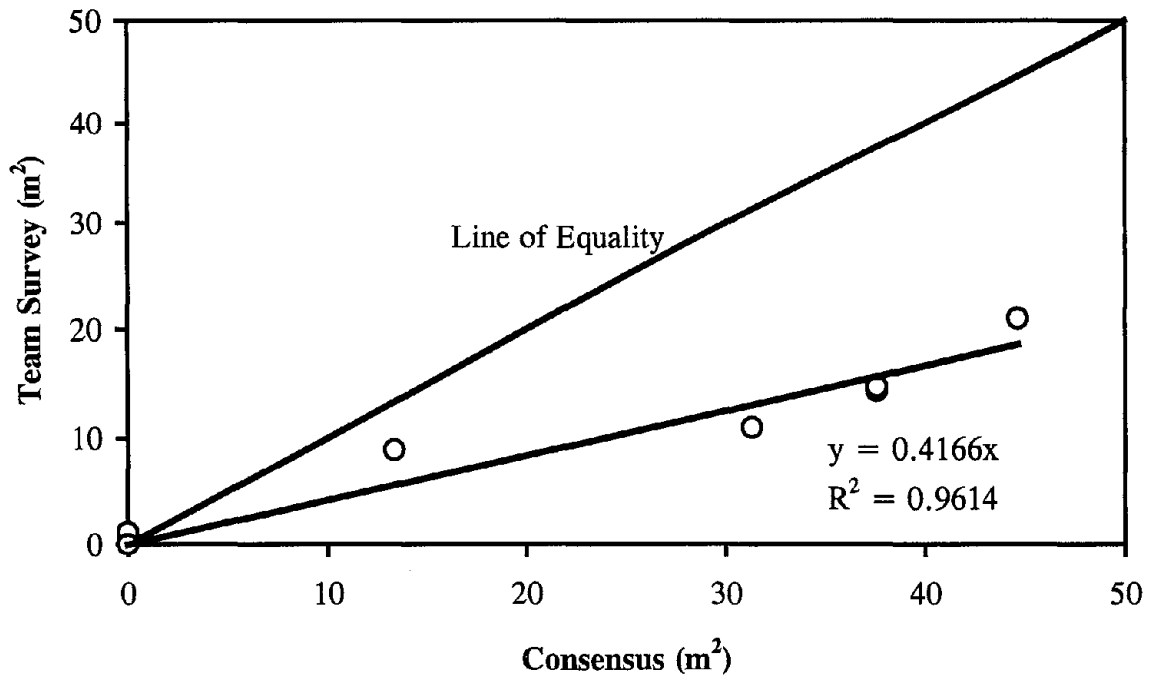


Figure 281. Team Survey Vs. Reference and Consensus: Fatigue Cracking of AC Pavement, PASCO's Production Procedure.

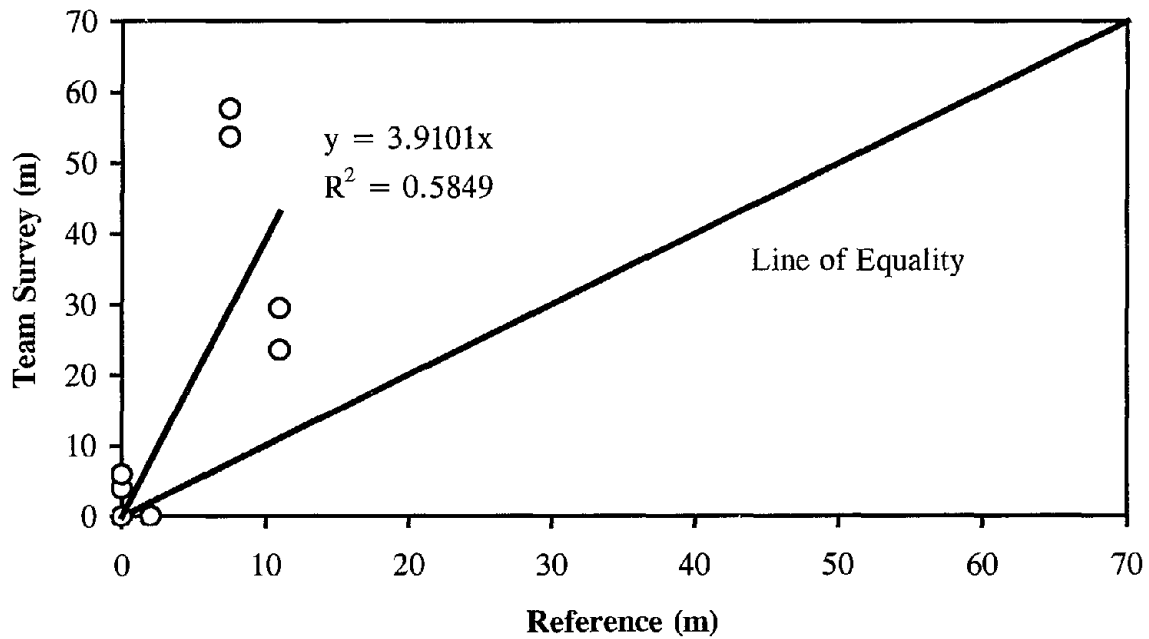
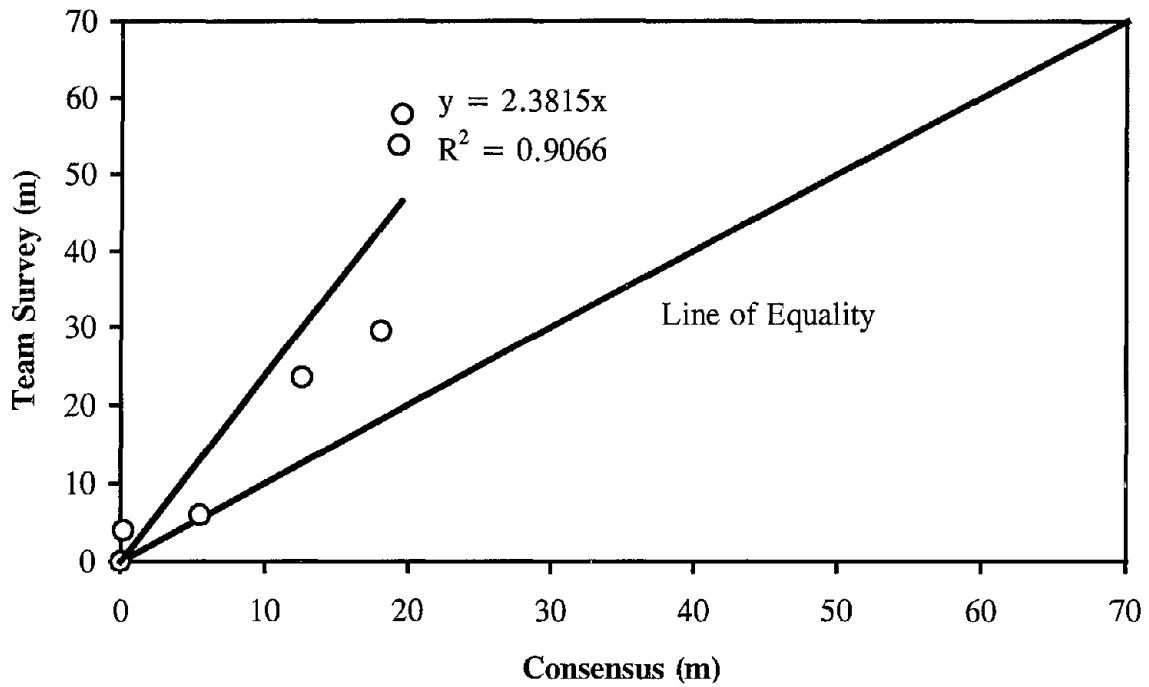


Figure 282. Team Survey Vs. Reference and Consensus: Longitudinal Cracking (WP) of AC Pavement, PASCO's Production Procedure.

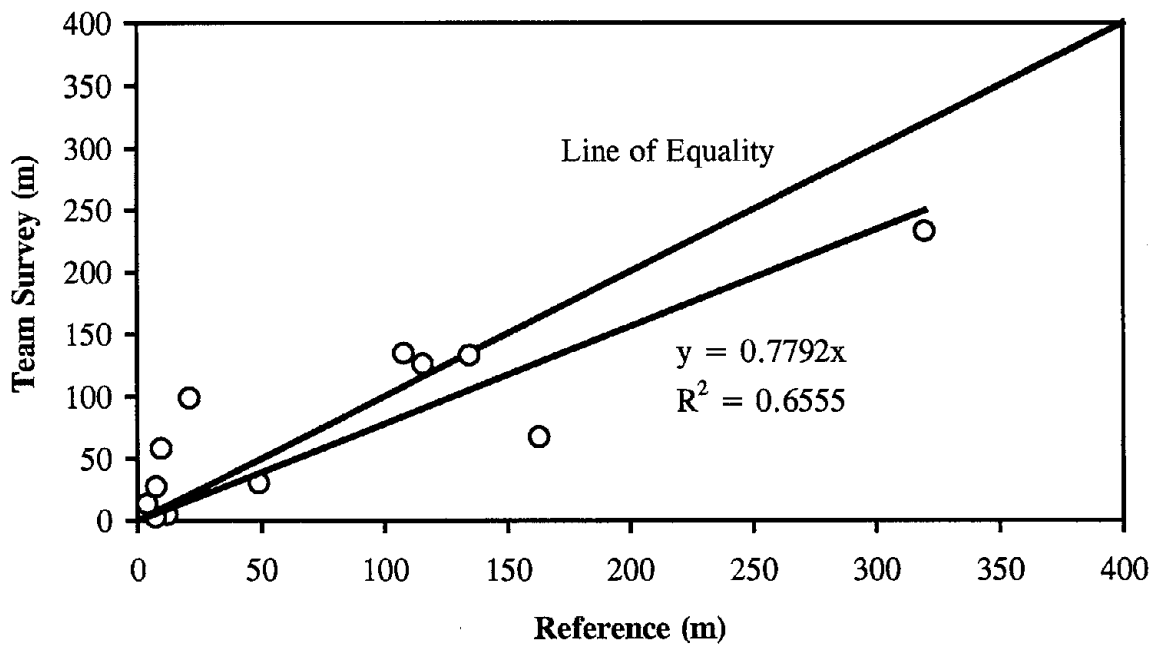
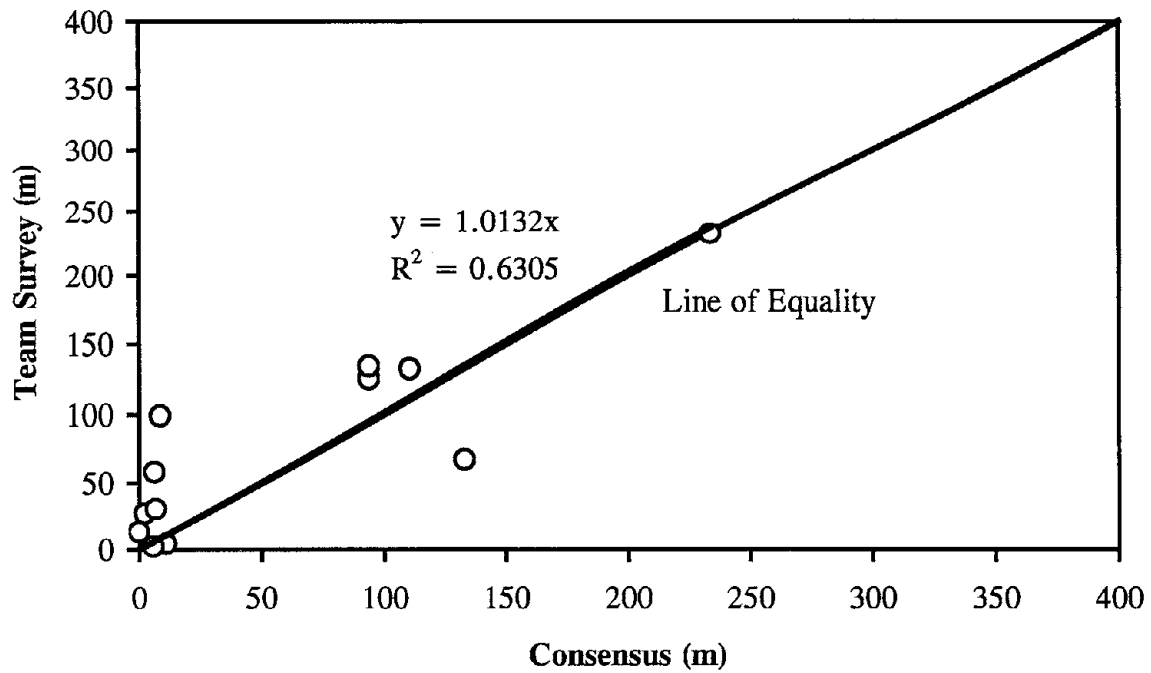


Figure 283. Team Survey Vs. Reference and Consensus: Longitudinal Cracking (NWP) of AC Pavement, PASCO's Production Procedure.

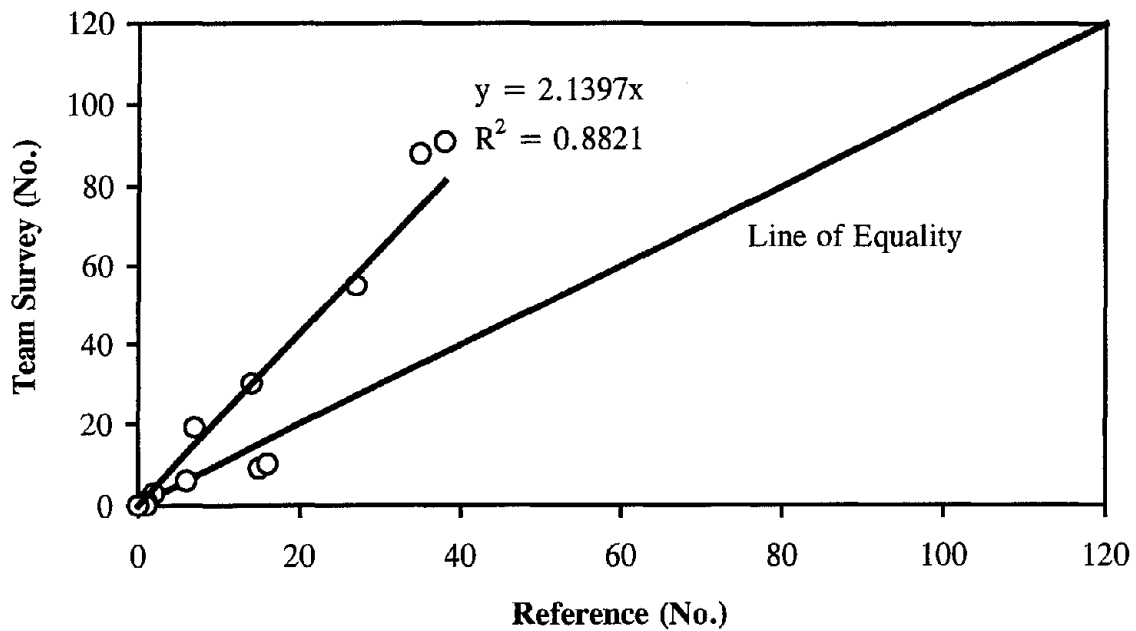
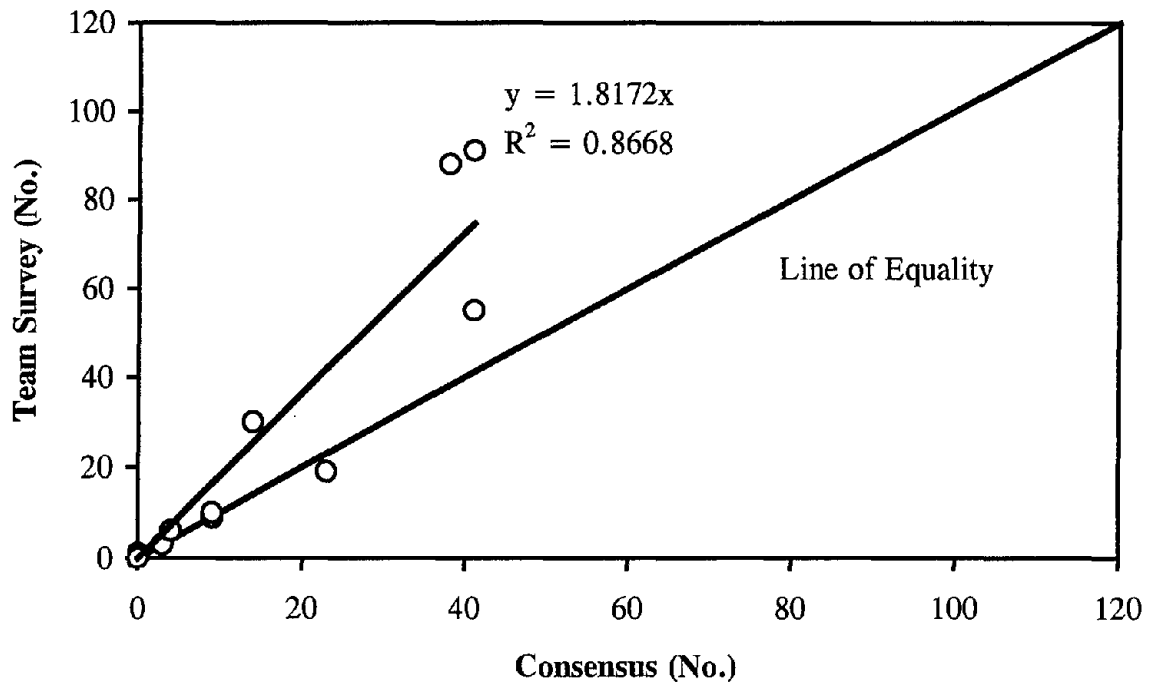


Figure 284. Team Survey Vs. Reference and Consensus: Transverse Cracking (No.) of AC Pavement, PASCO's Production Procedure.

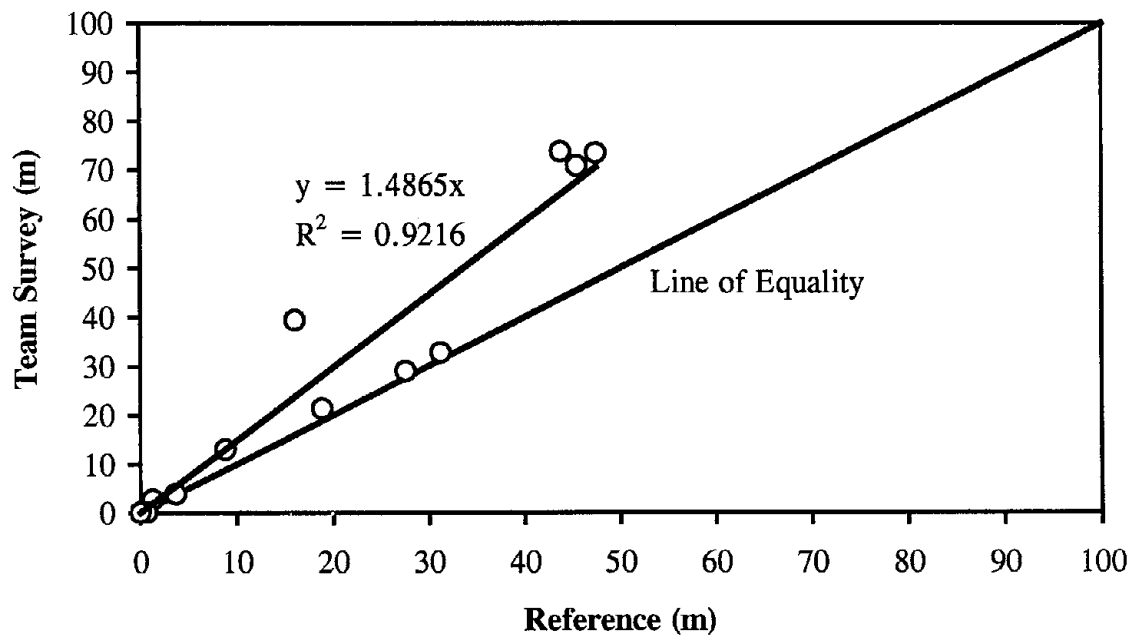
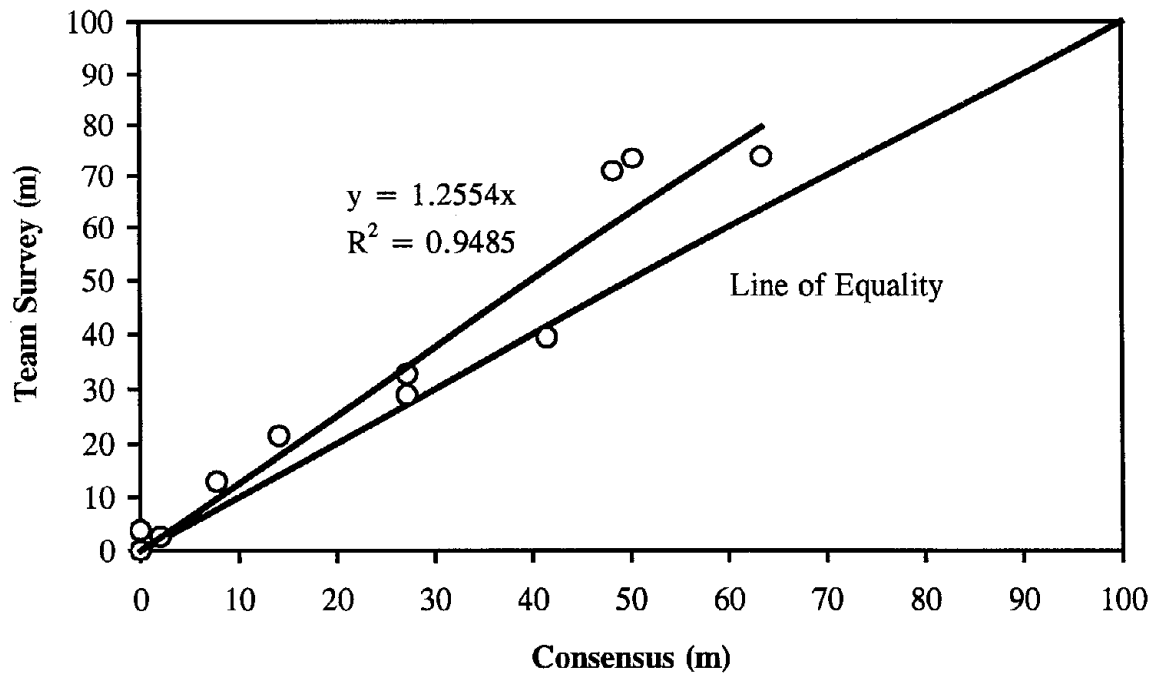


Figure 285. Team Survey Vs. Reference and Consensus: Transverse Cracking (Meters) of AC Pavement, PASCO's Production Procedure.

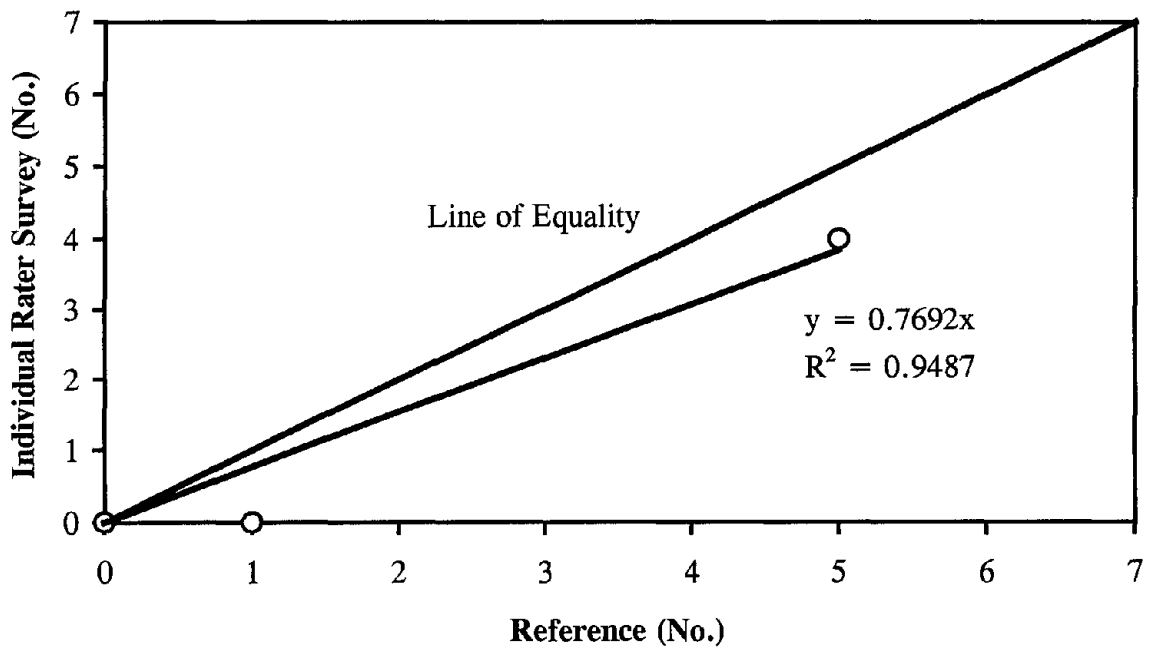
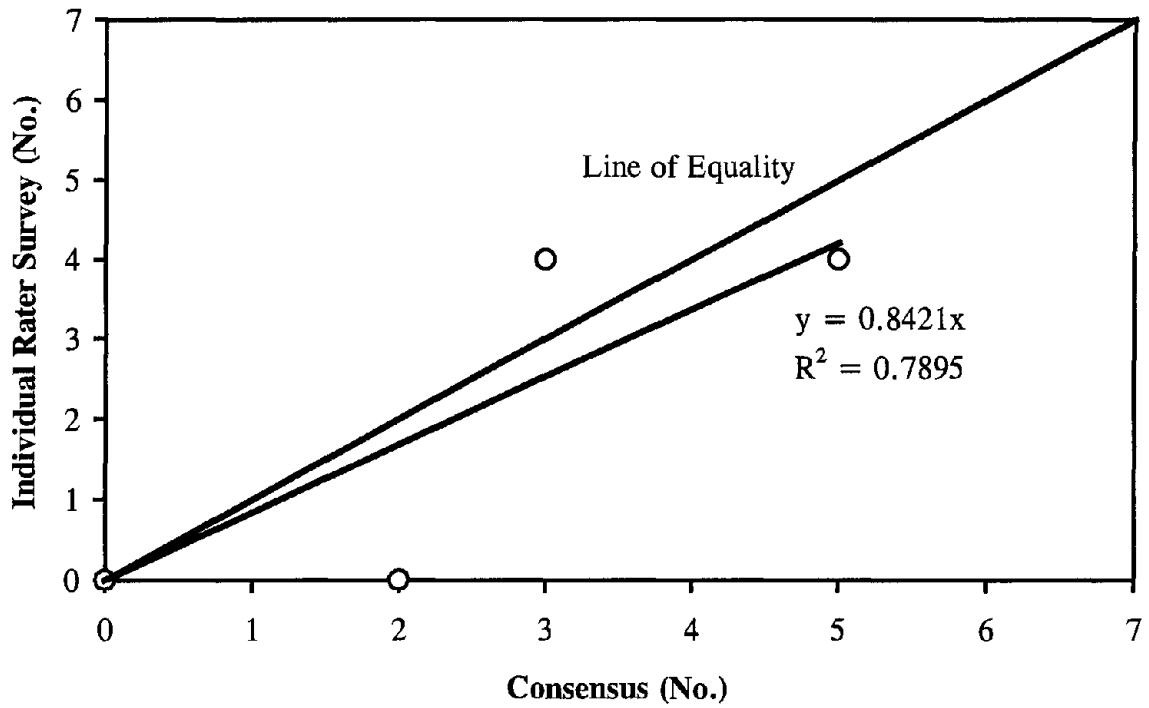


Figure 286. Individual Survey Vs. Reference and Consensus: Corner Break of PCC Pavement, PASCO's Production Procedure.

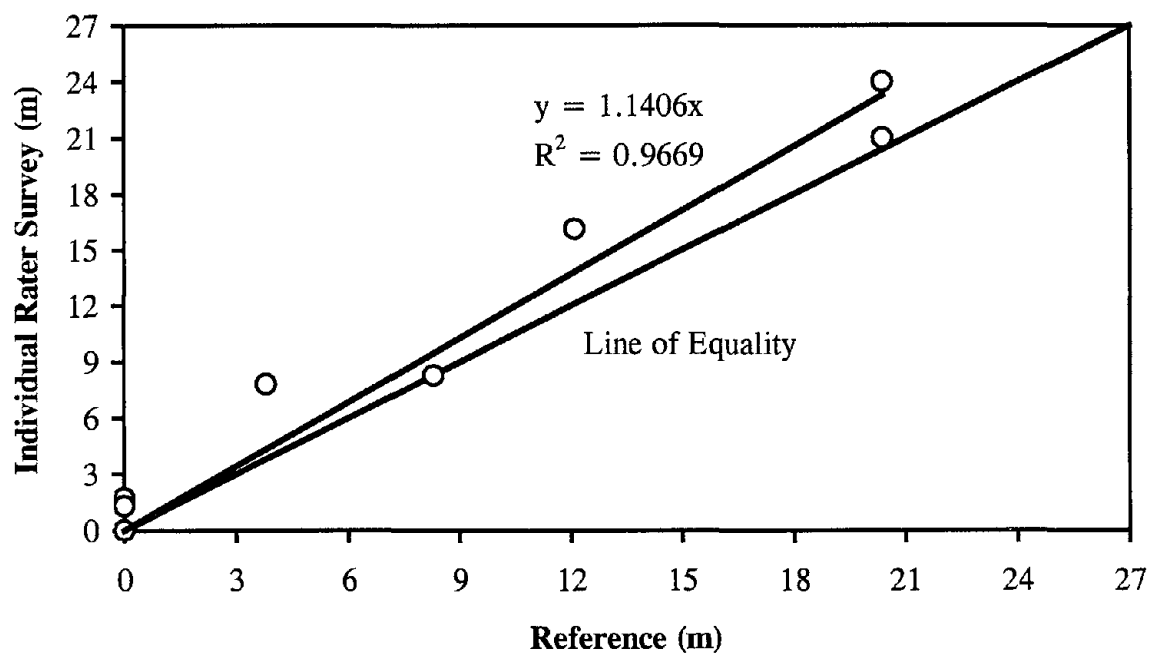
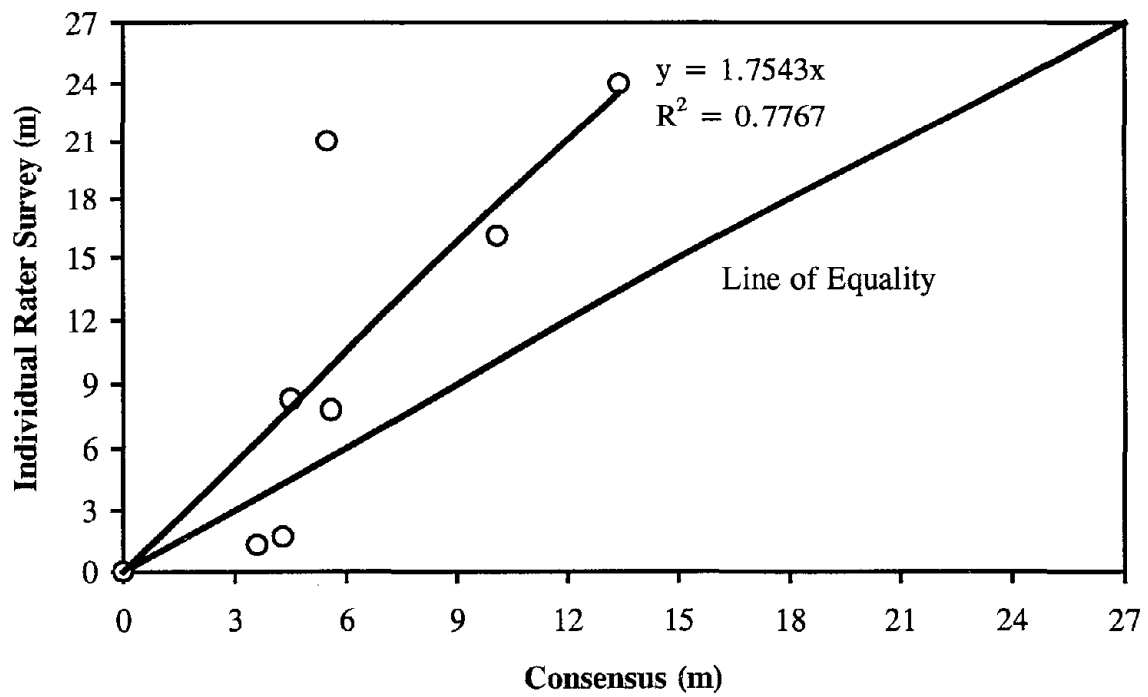


Figure 287. Individual Survey Vs. Reference and Consensus: Longitudinal Cracking of PCC Pavement, PASCO's Production Procedure.

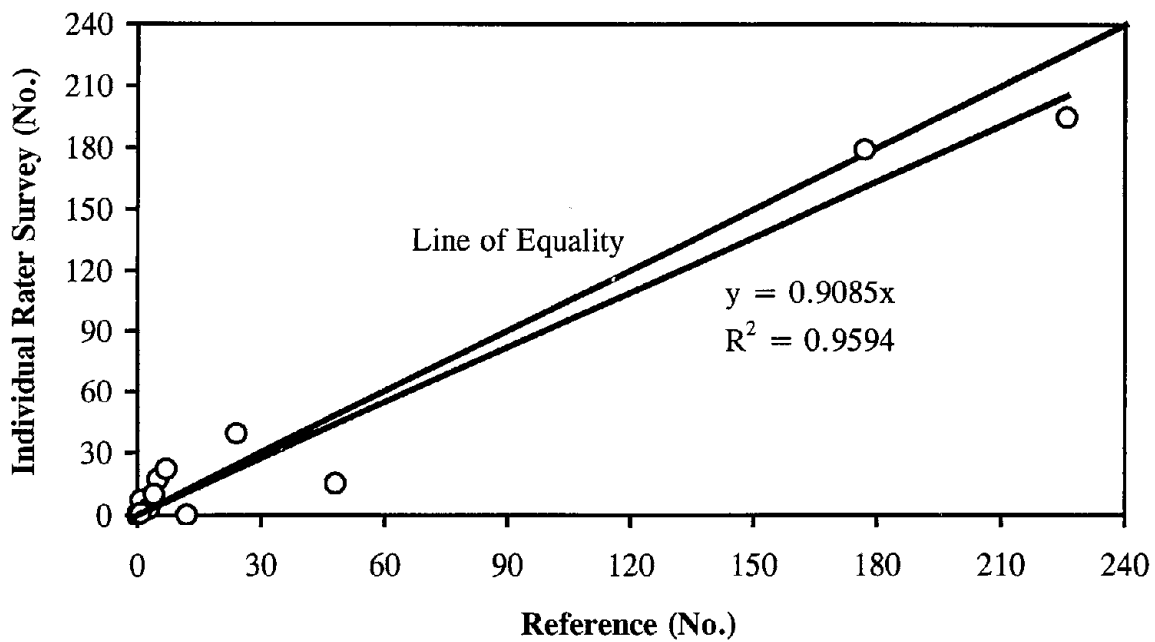
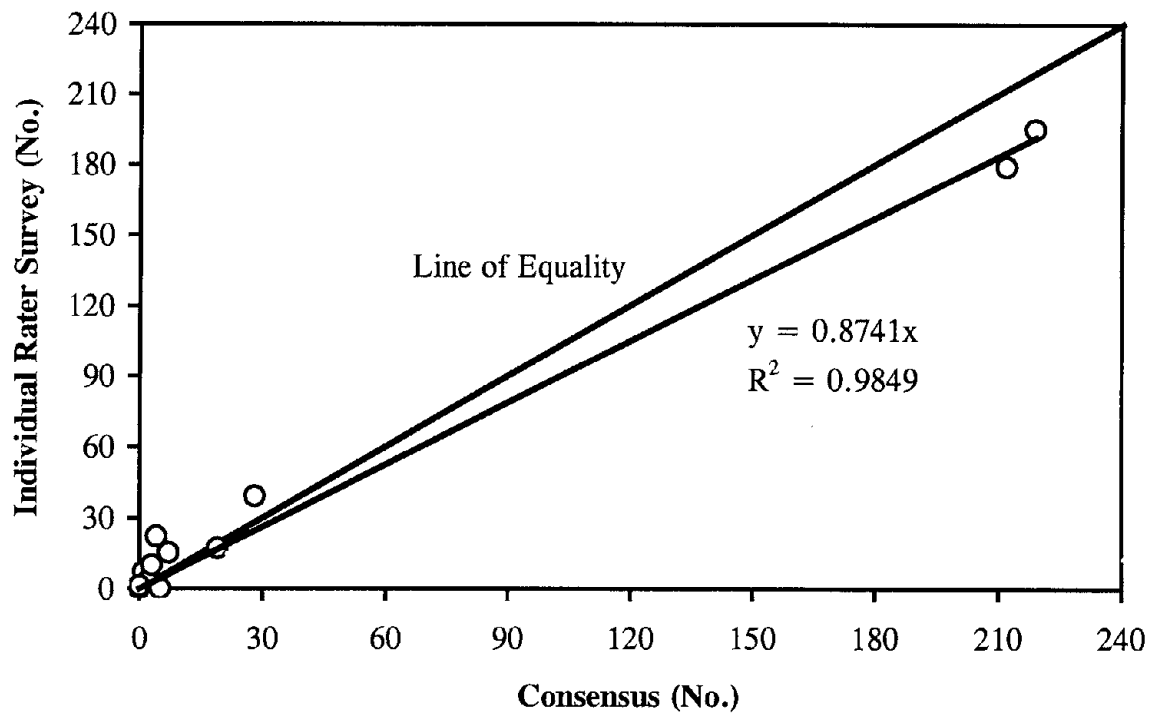


Figure 288. Individual Survey Vs. Reference and Consensus: Transverse Cracking (No.) of PCC Pavement, PASCO's Production Procedure.

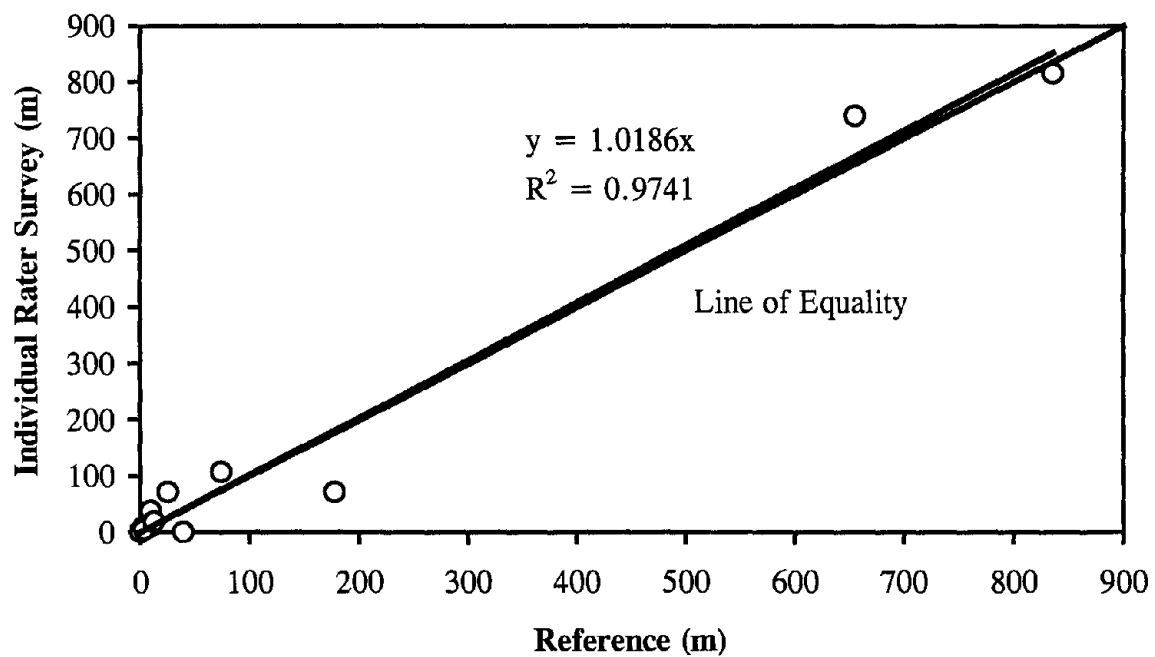
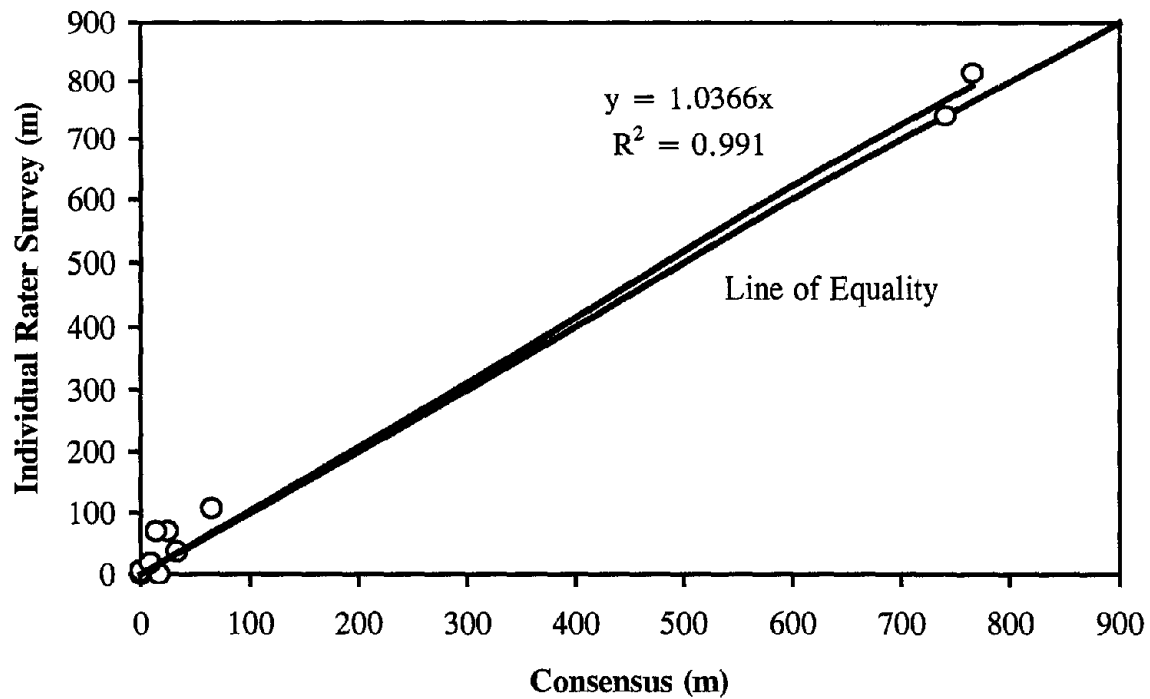


Figure 289. Individual Survey Vs. Reference and Consensus: Transverse Cracking (Meters) of PCC Pavement, PASCO's Production Procedure.

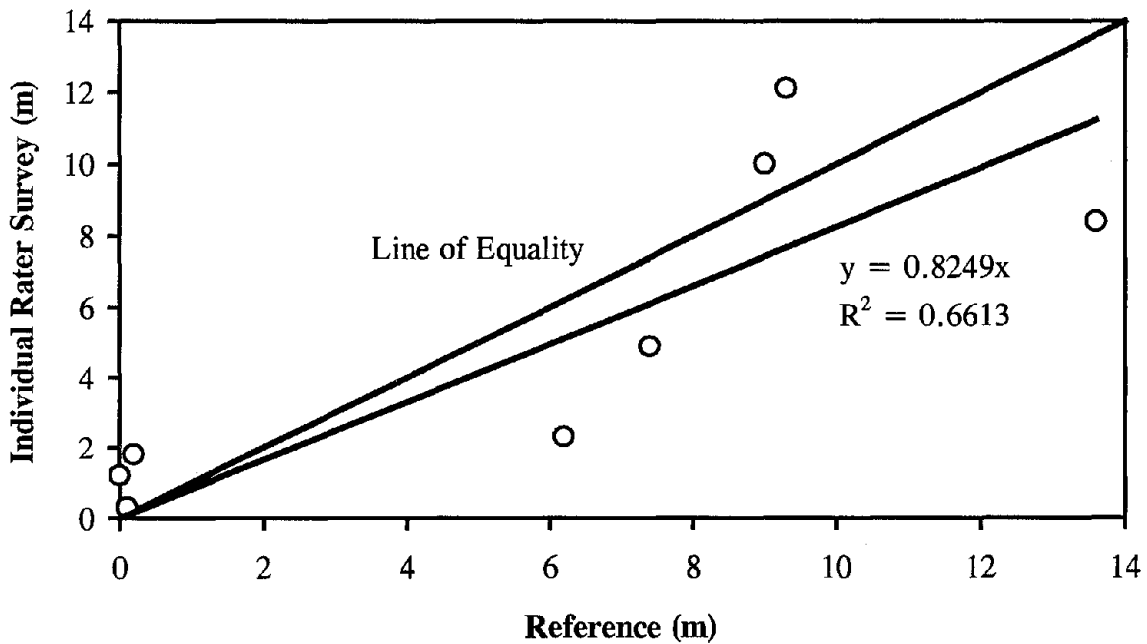
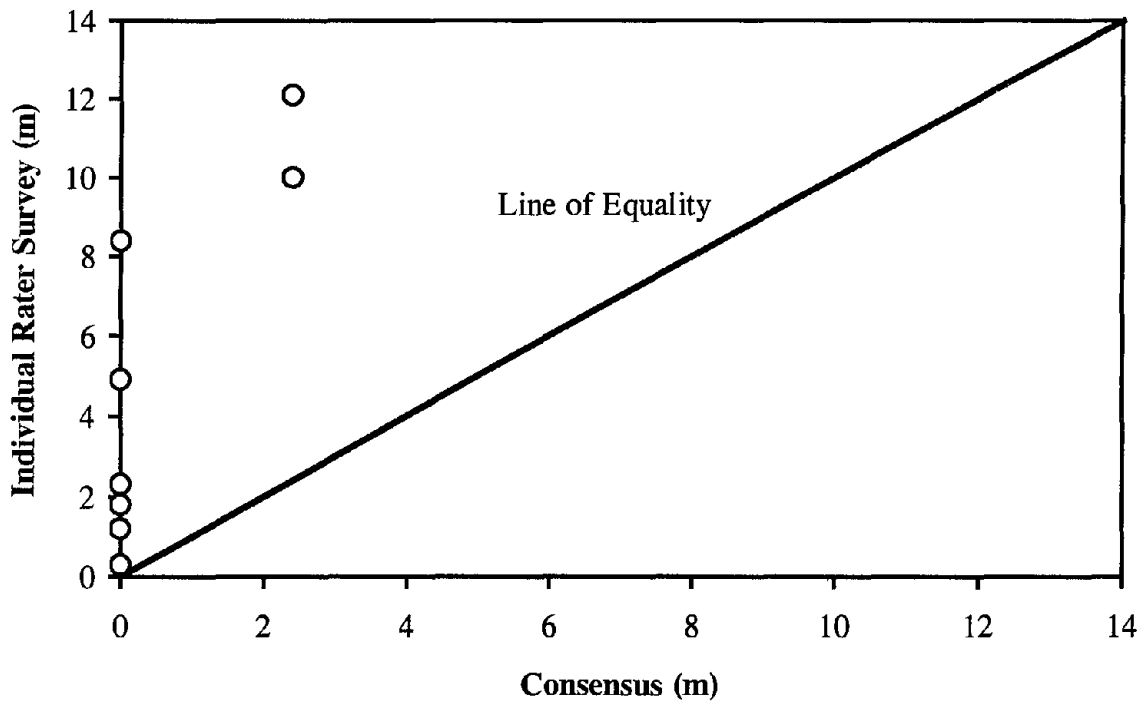


Figure 290. Individual Survey Vs. Reference and Consensus: Spalling of Longitudinal Joints of PCC Pavement, PASCO's Production Procedure.

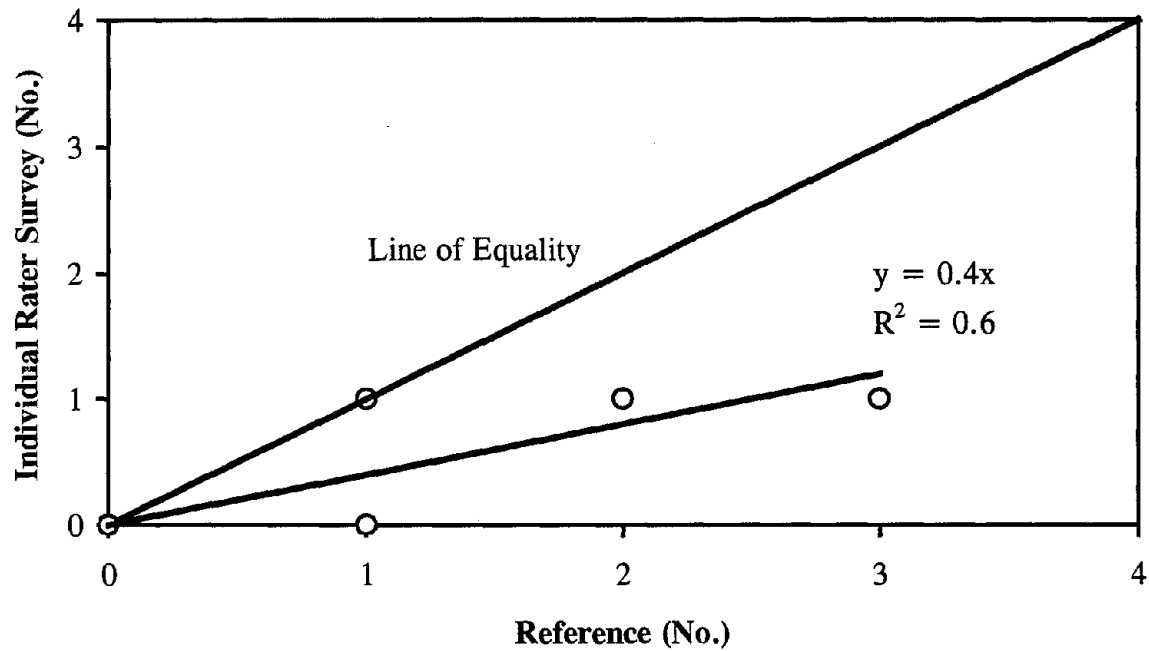
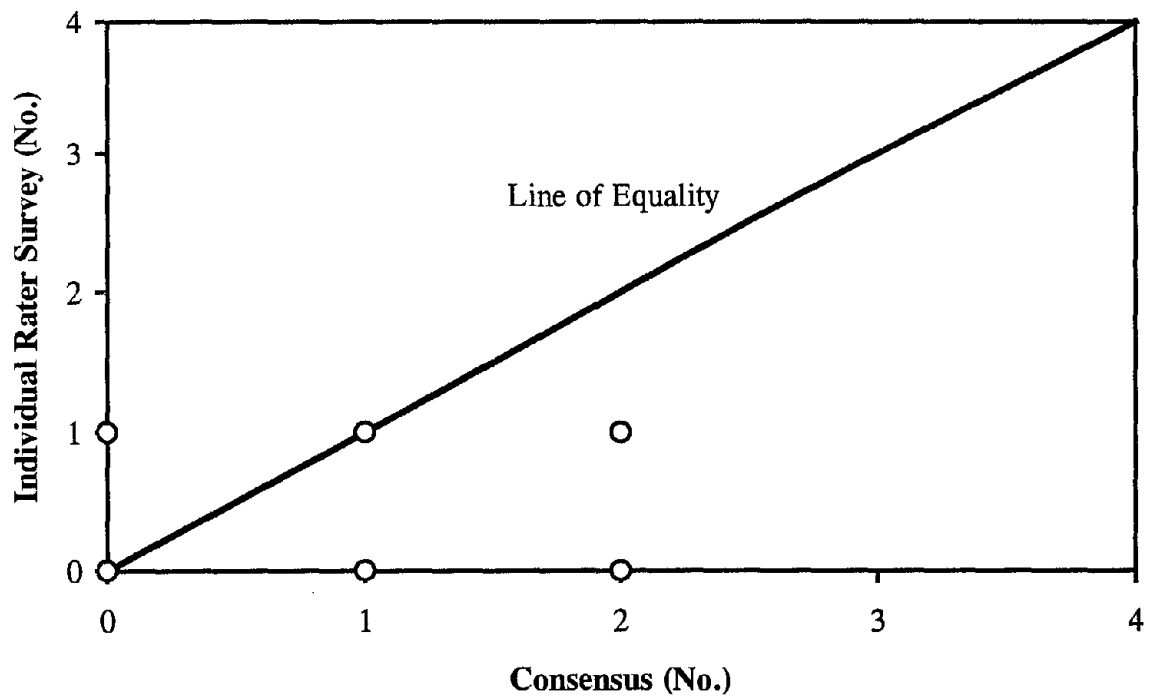


Figure 291. Individual Survey Vs. Reference and Consensus: Spalling of Transverse Joints (No.) of PCC Pavement, PASCO's Production Procedure.

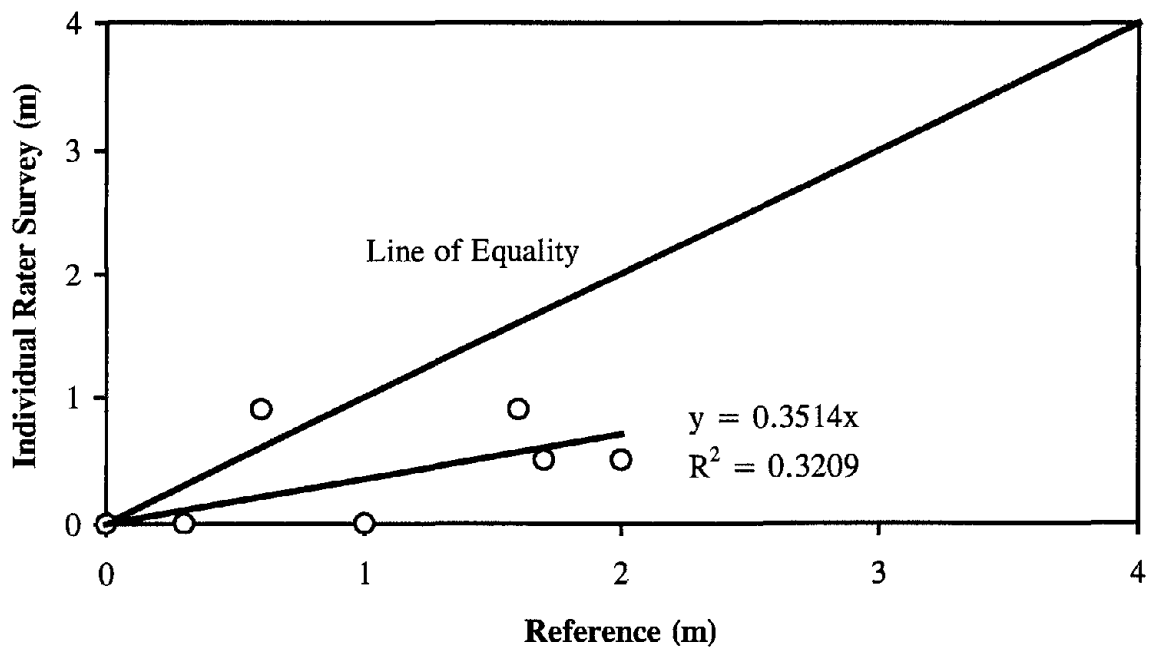
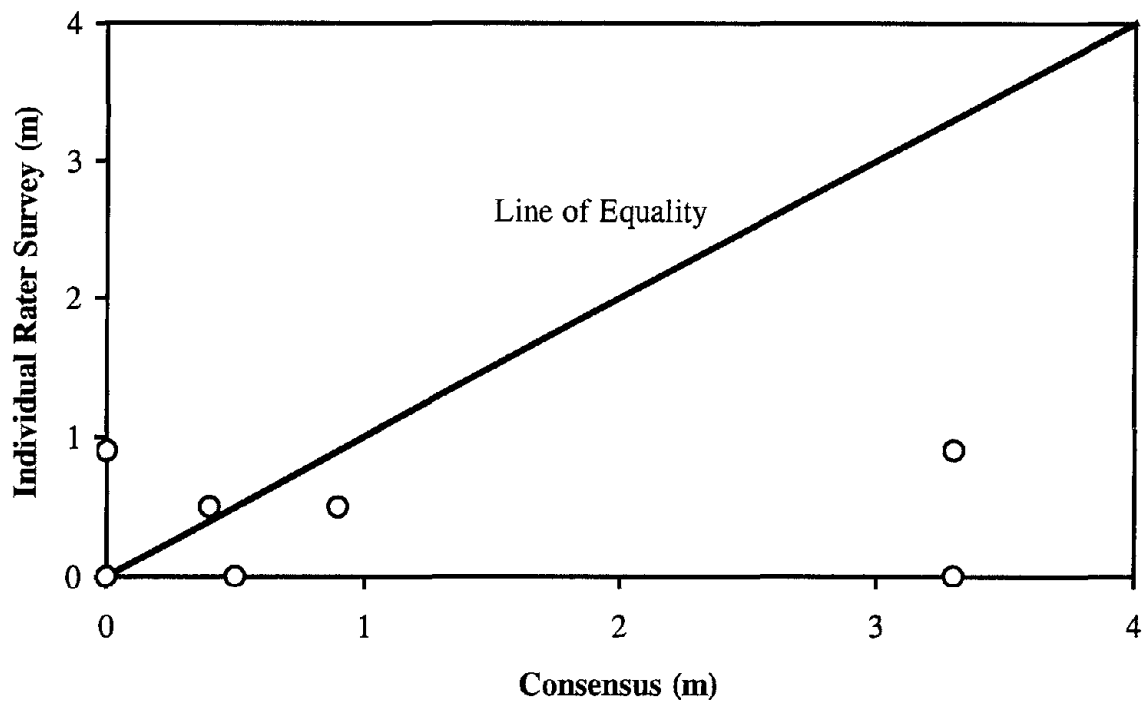


Figure 292. Individual Survey Vs. Reference and Consensus: Spalling of Transverse Joints (Meters) of PCC Pavement, PASCO's Production Procedure.

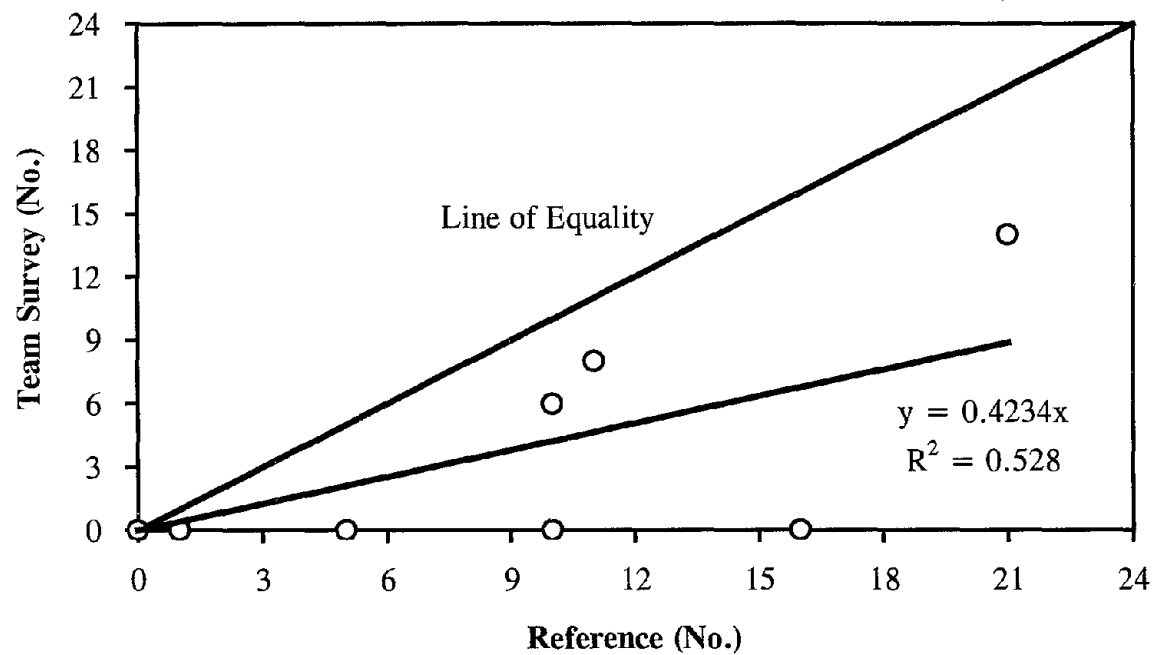
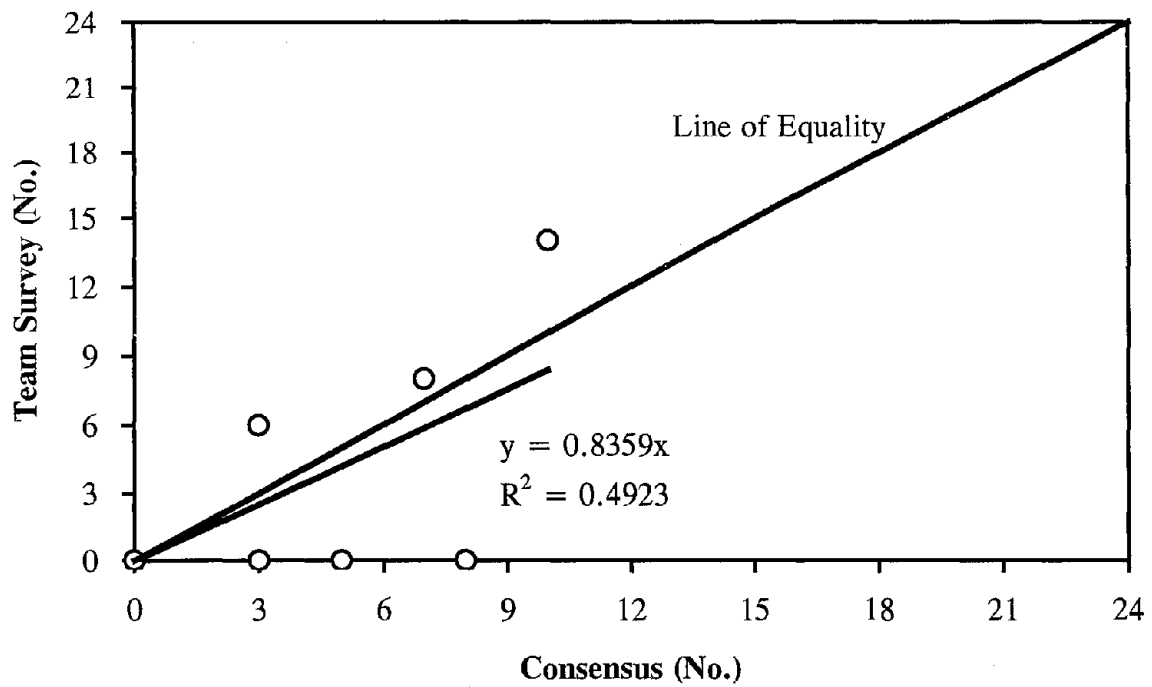


Figure 293. Team Survey Vs. Reference and Consensus: Corner Break of PCC Pavement, PASCO's Production Procedure.

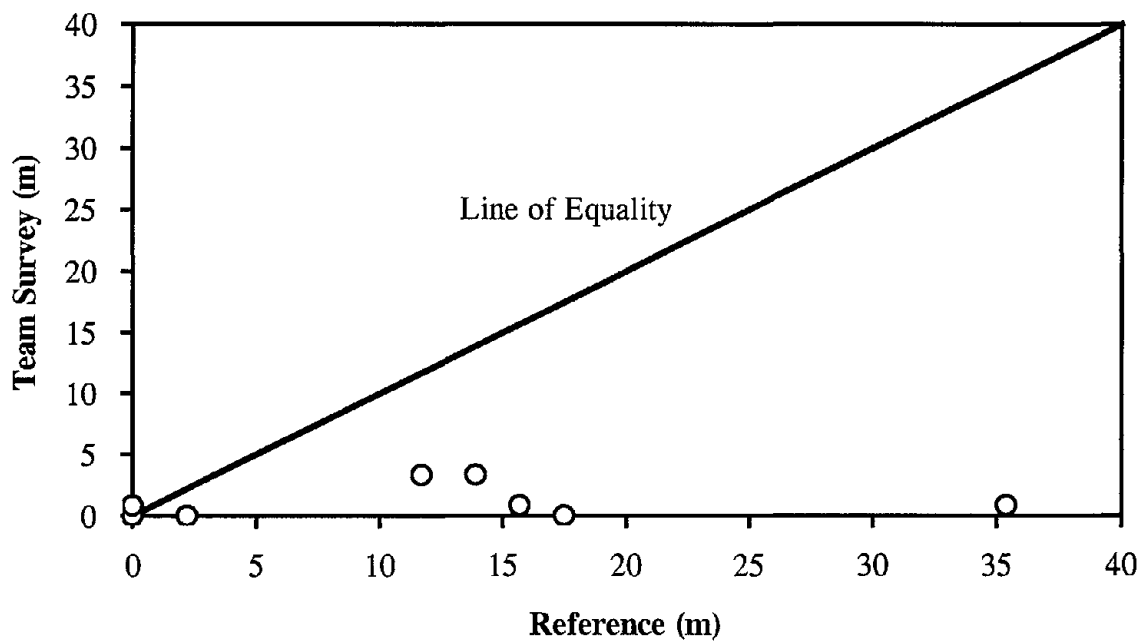
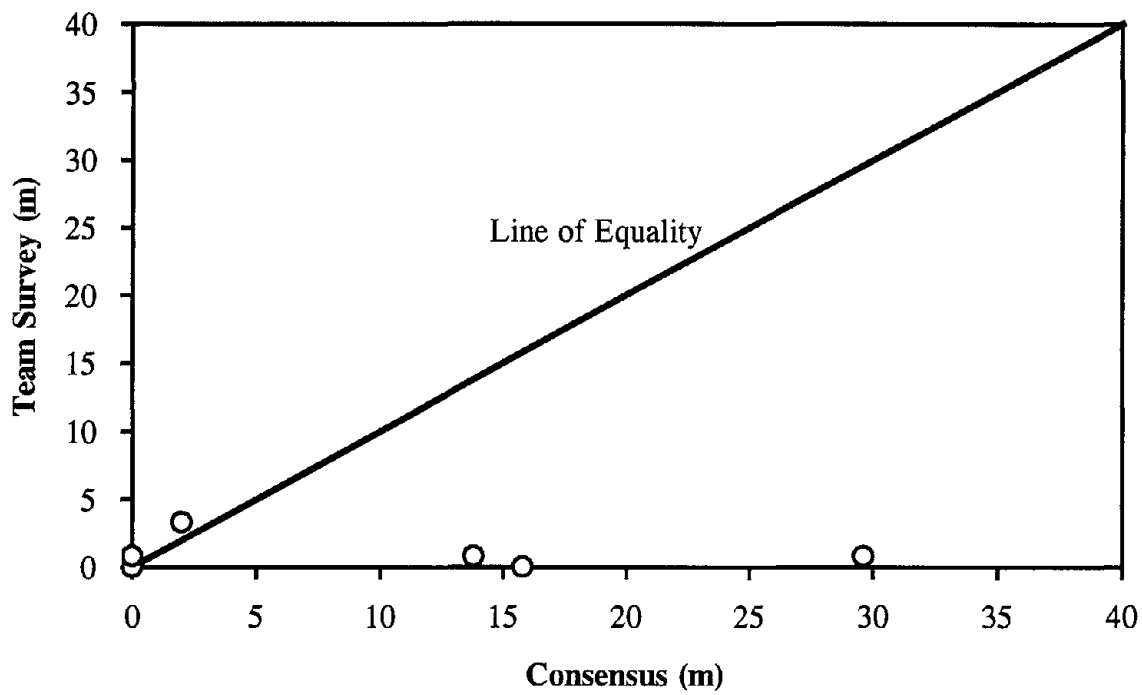


Figure 294. Team Survey Vs. Reference and Consensus: Longitudinal Cracking of PCC Pavement, PASCO's Production Procedure.

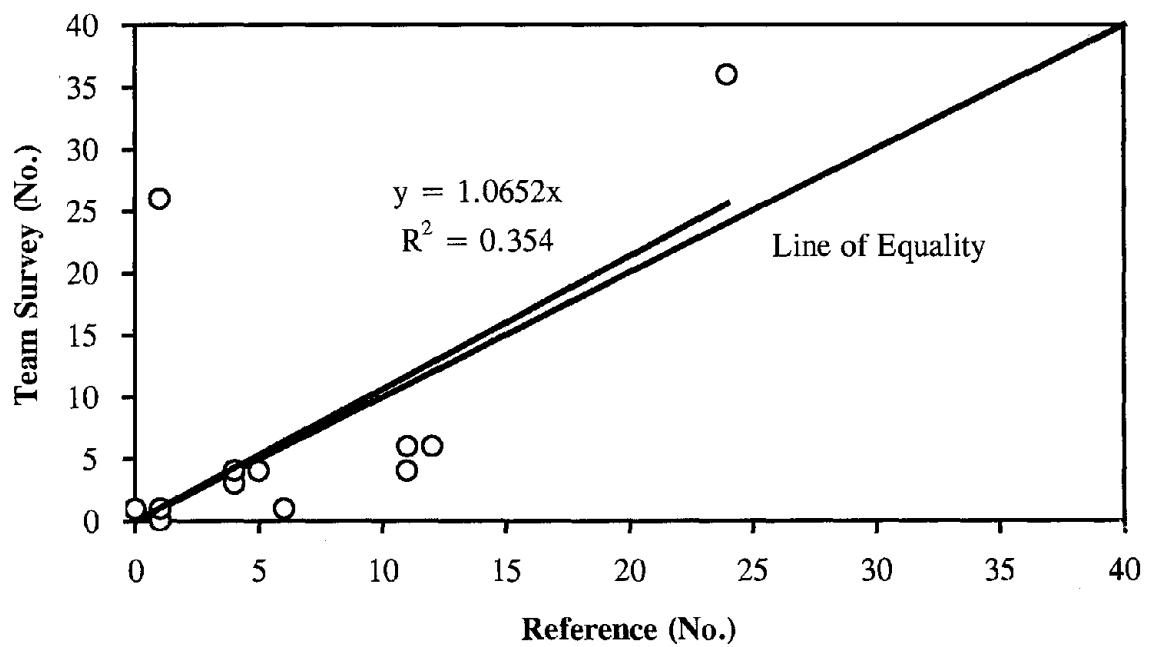
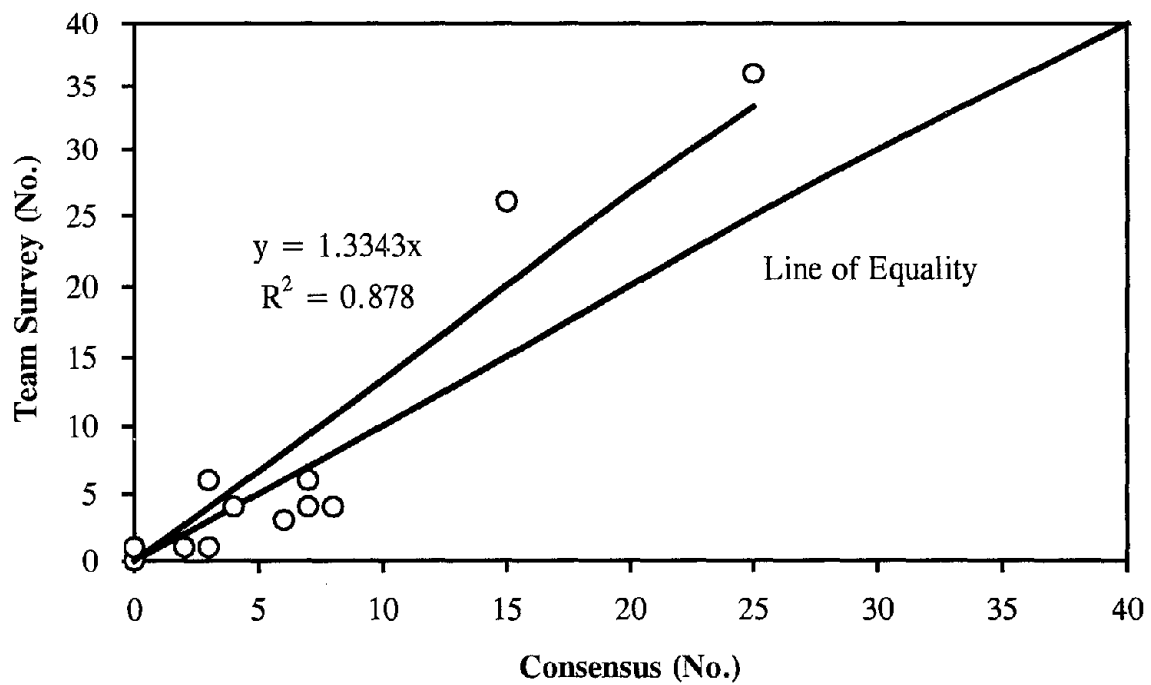


Figure 295. Team Survey Vs. Reference and Consensus: Transverse Cracking (No.) of PCC Pavement, PASCO's Production Procedure.

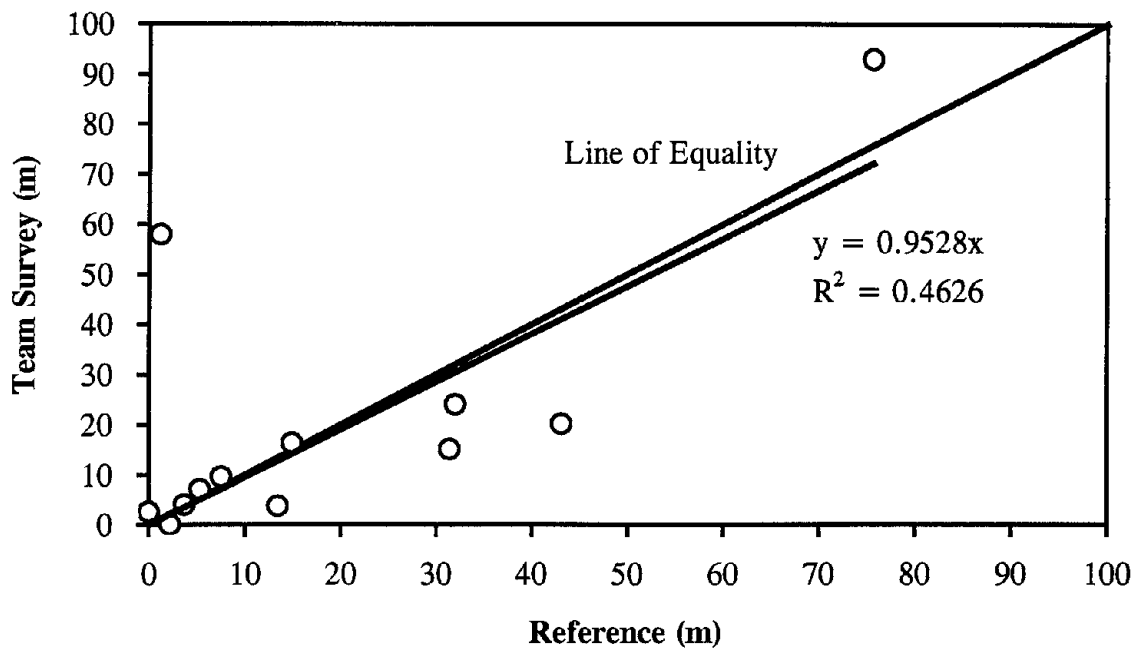
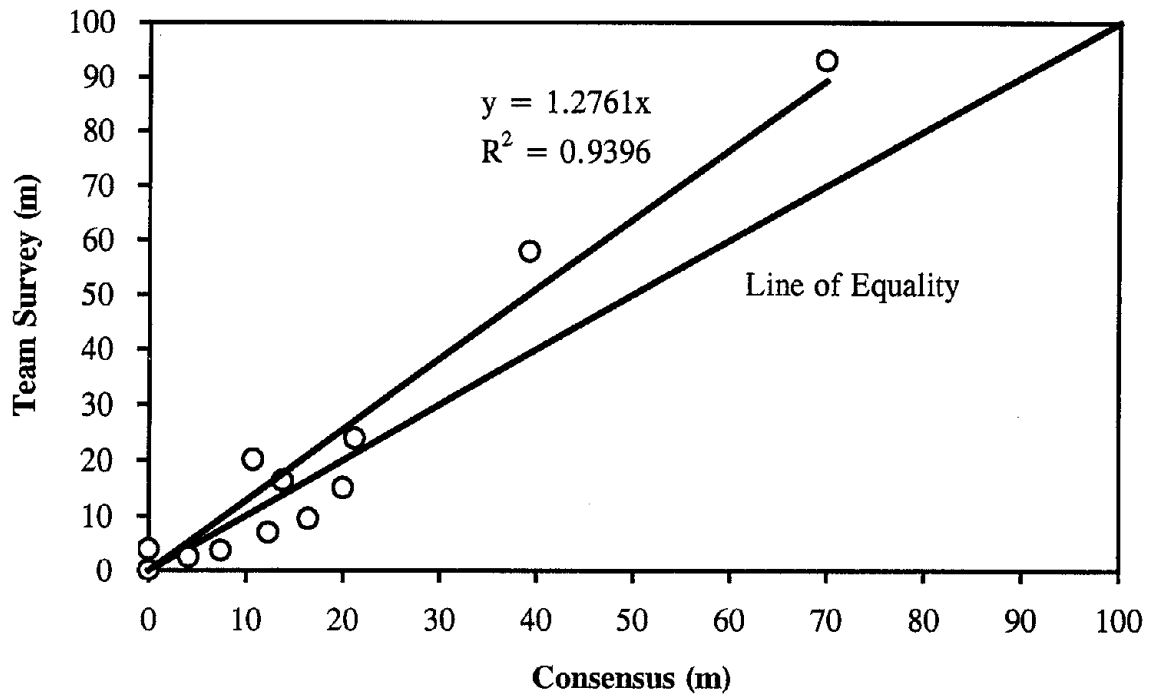


Figure 296. Team Survey Vs. Reference and Consensus: Transverse Cracking (Meters) of PCC Pavement, PASCO's Production Procedure.

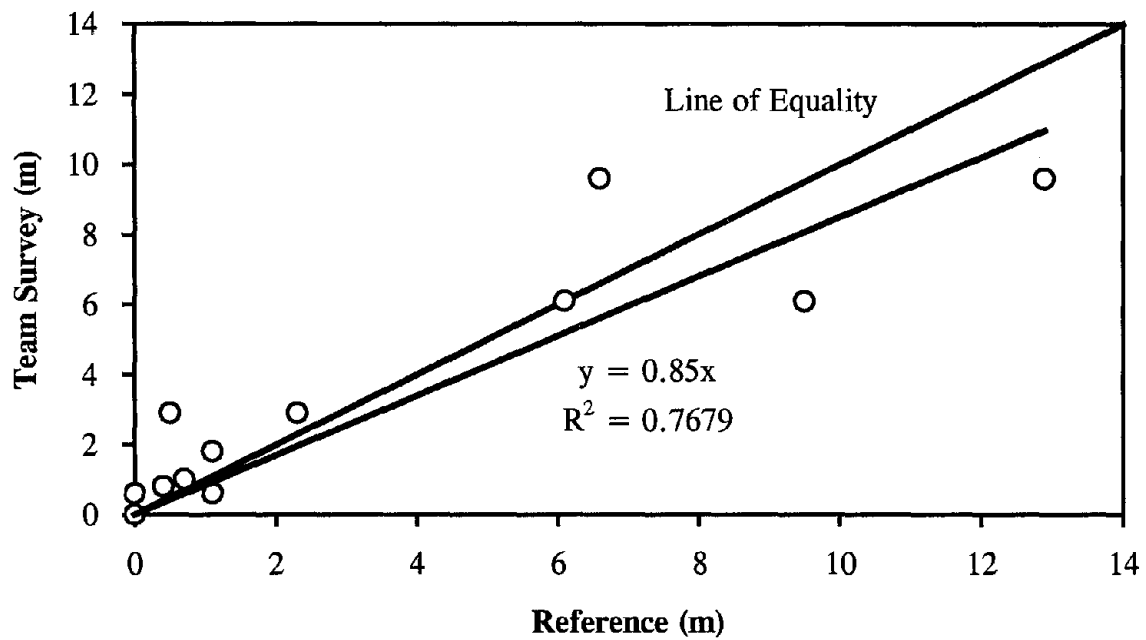
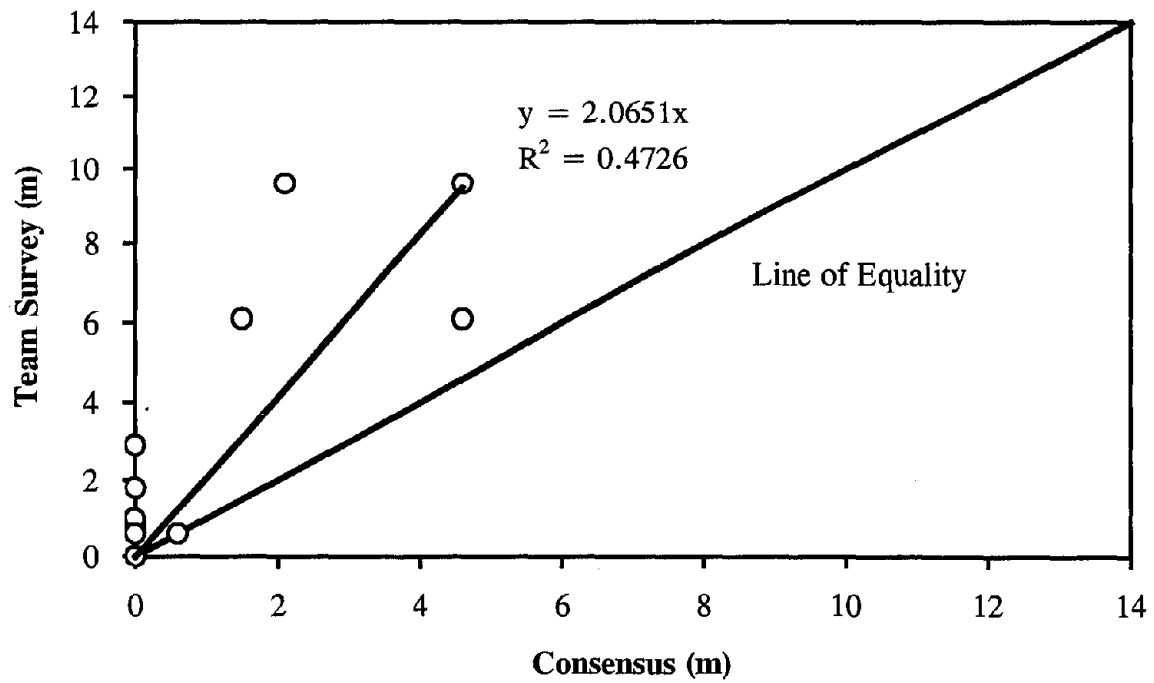


Figure 297. Team Survey Vs. Reference and Consensus: Spalling of Longitudinal Joints of PCC Pavement, PASCO's Production Procedure.

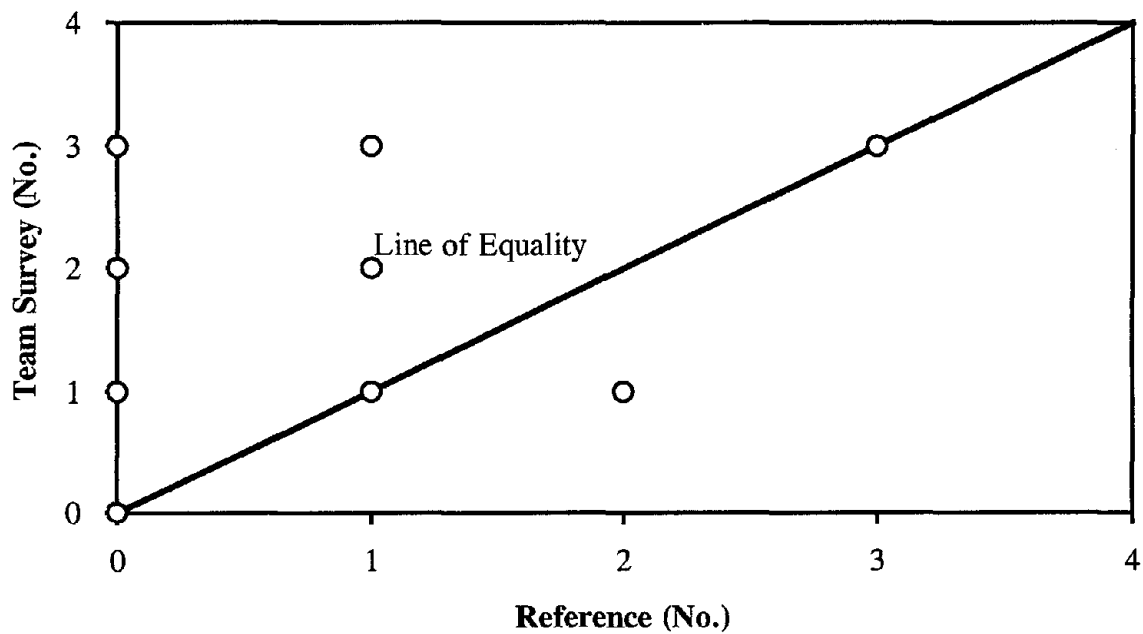
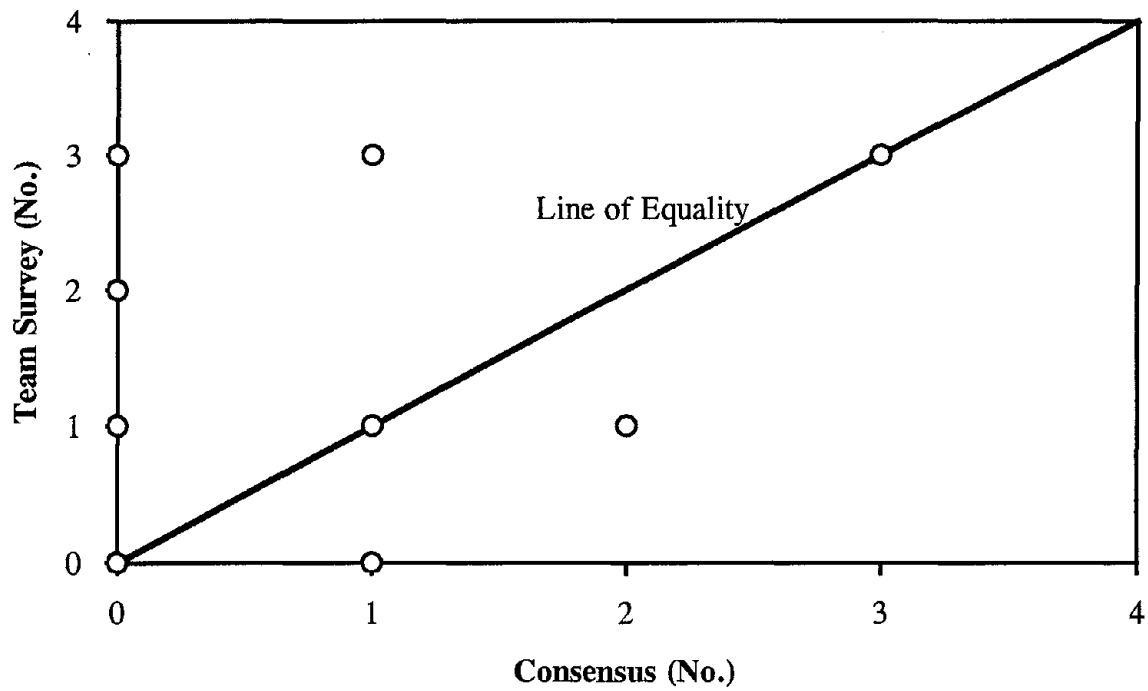


Figure 298. Team Survey Vs. Reference and Consensus: Spalling of Transverse Joints (No.) of PCC Pavement, PASCO's Production Procedure.

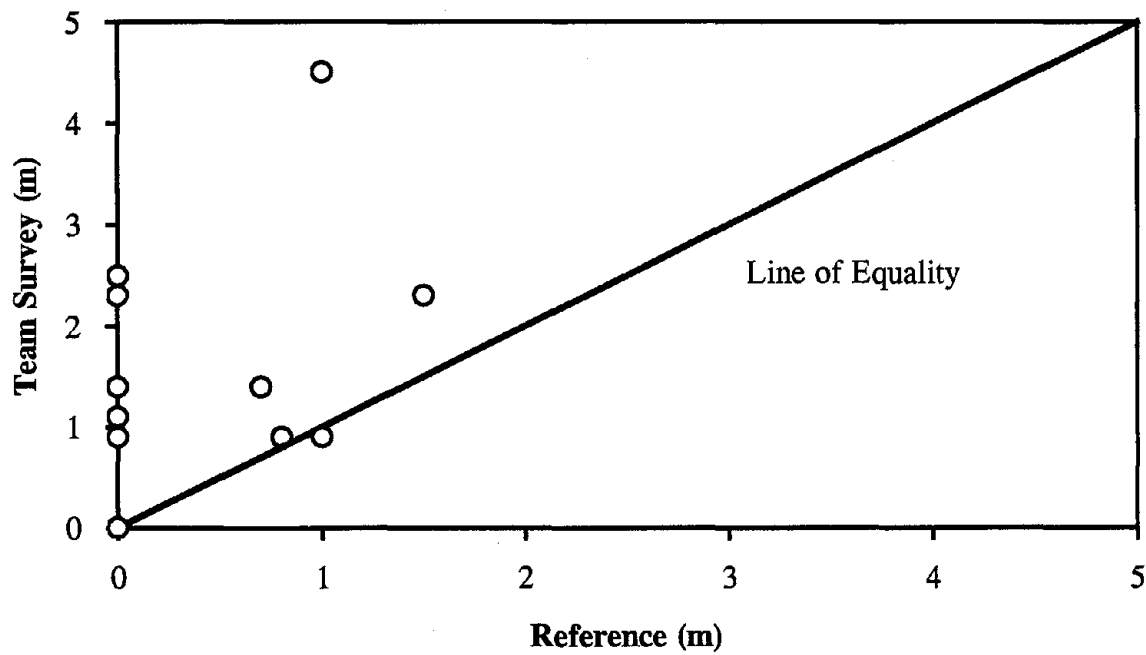
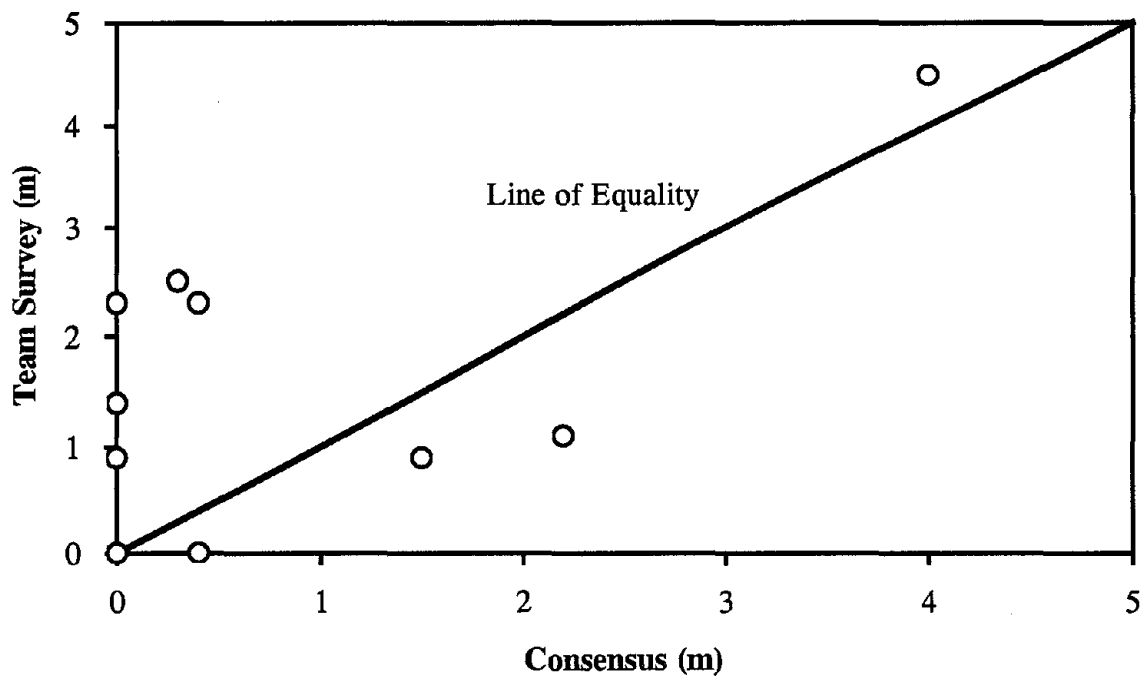


Figure 299. Team Survey Vs. Reference and Consensus: Spalling of Transverse Joints (Meters) of PCC Pavement, PASCO's Production Procedure.

APPENDIX C **FIGURES FOR COMPARISON OF MANUAL** **AND PASCO/PADIAS DISTRESS DATA**

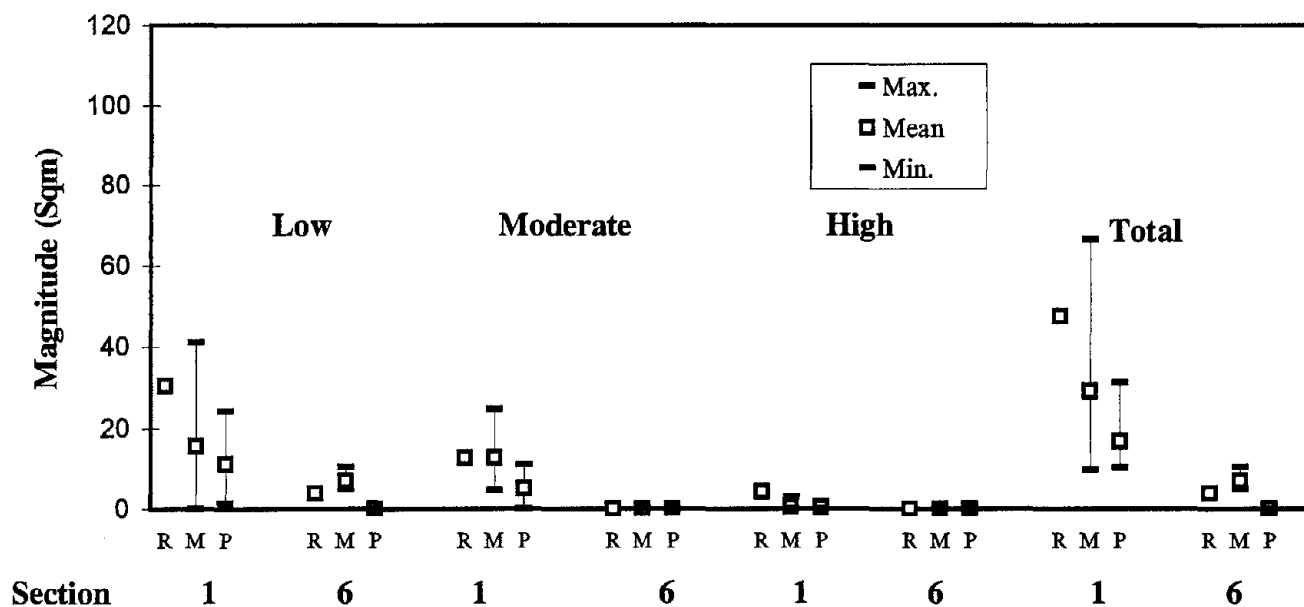


Figure 300. Fatigue Cracking (Sq. Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

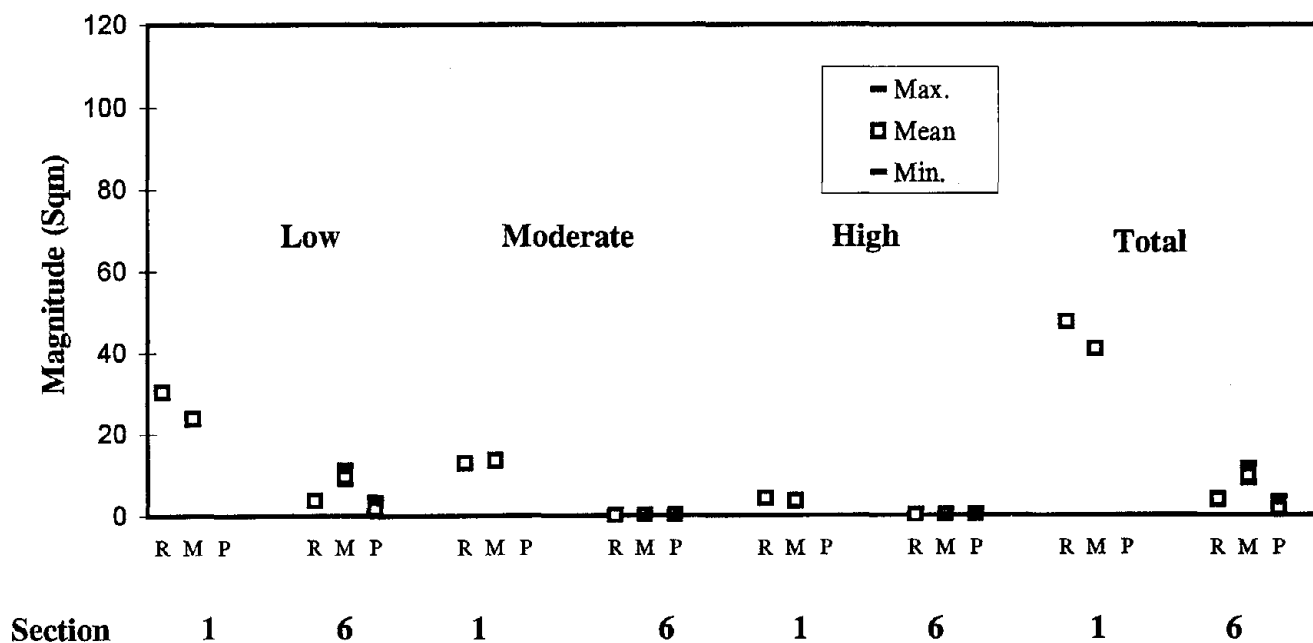


Figure 301. Fatigue Cracking (Sq. Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

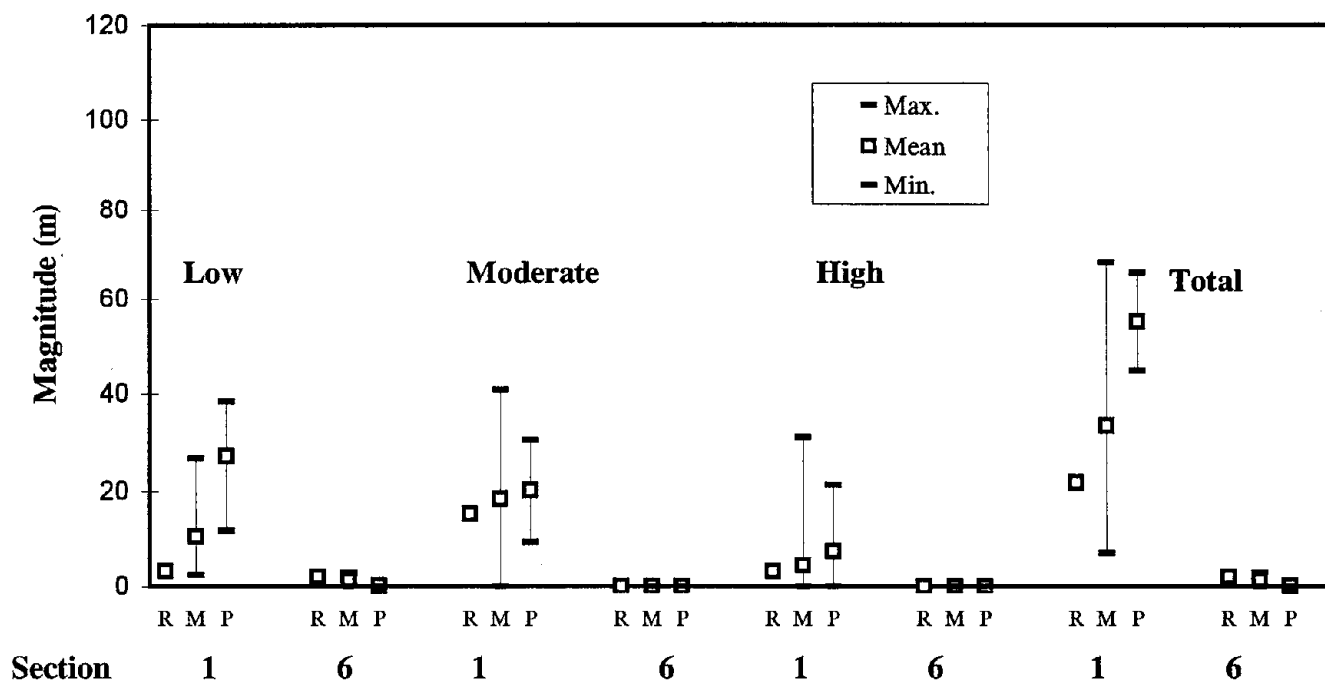


Figure 302. Longitudinal cracking WP (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

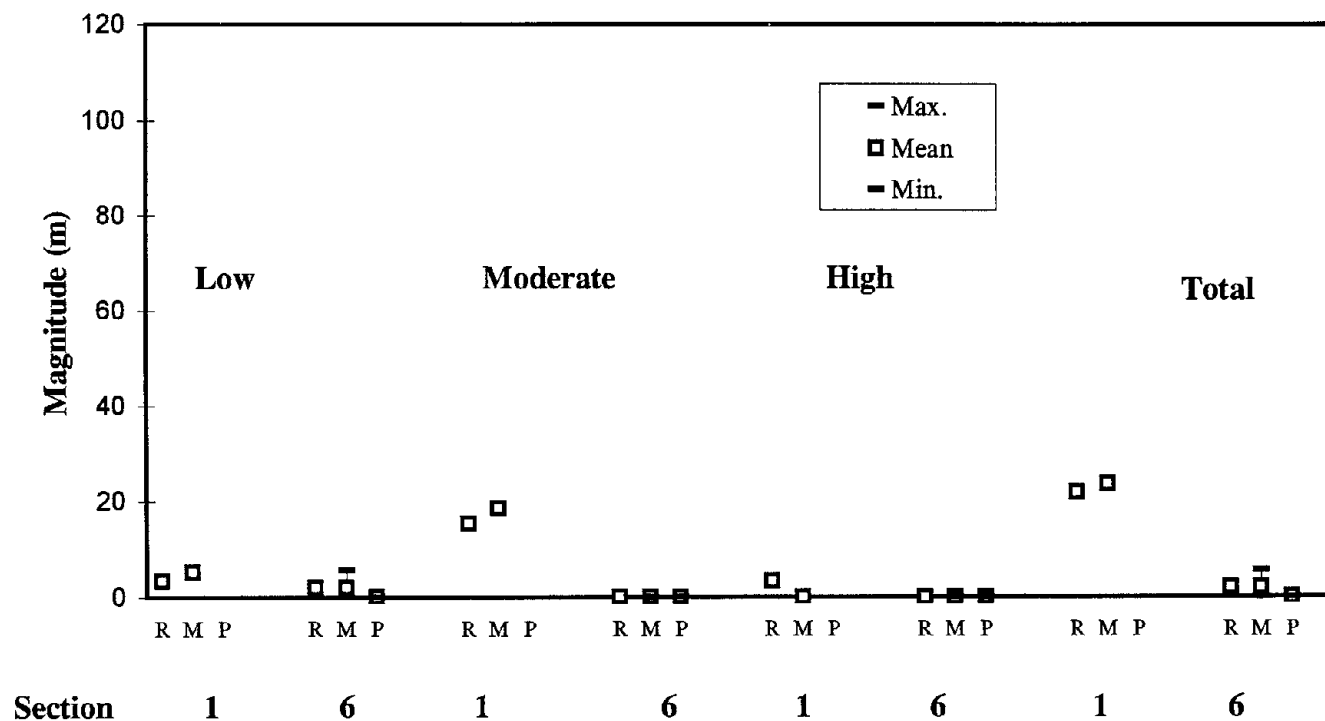


Figure 303. Longitudinal Cracking WP (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

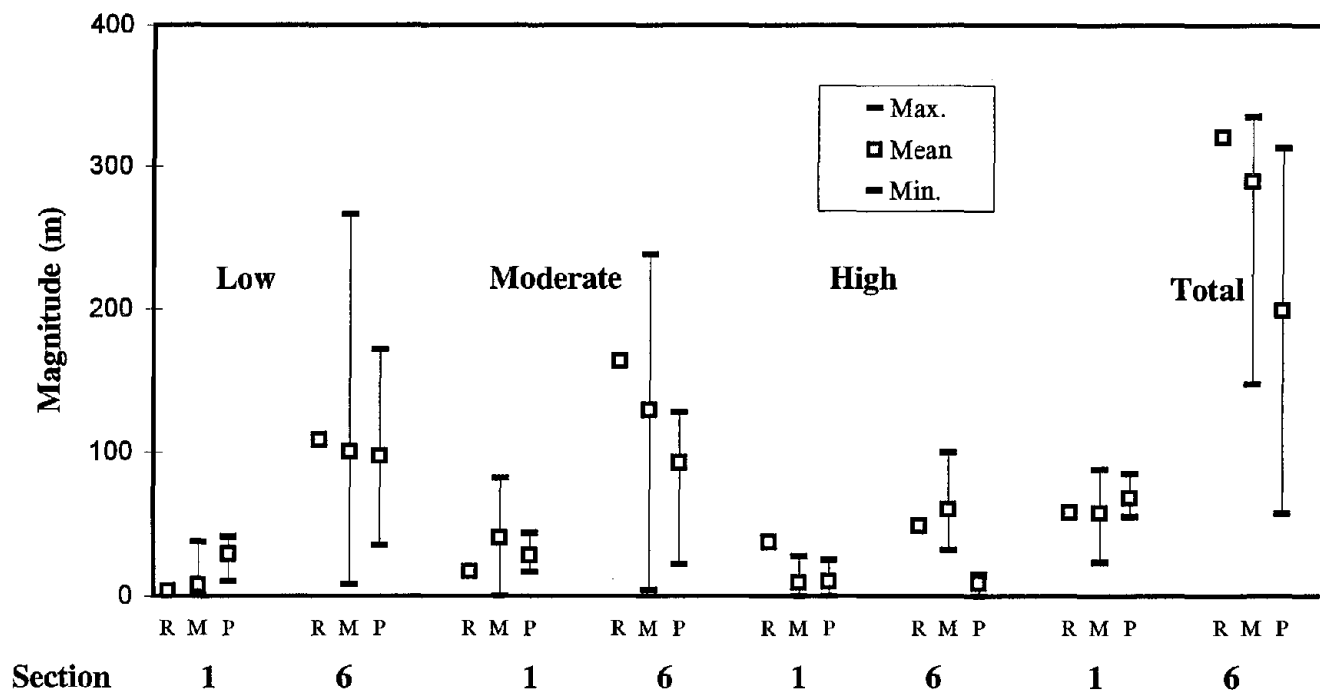


Figure 304. Longitudinal Cracking NWP (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

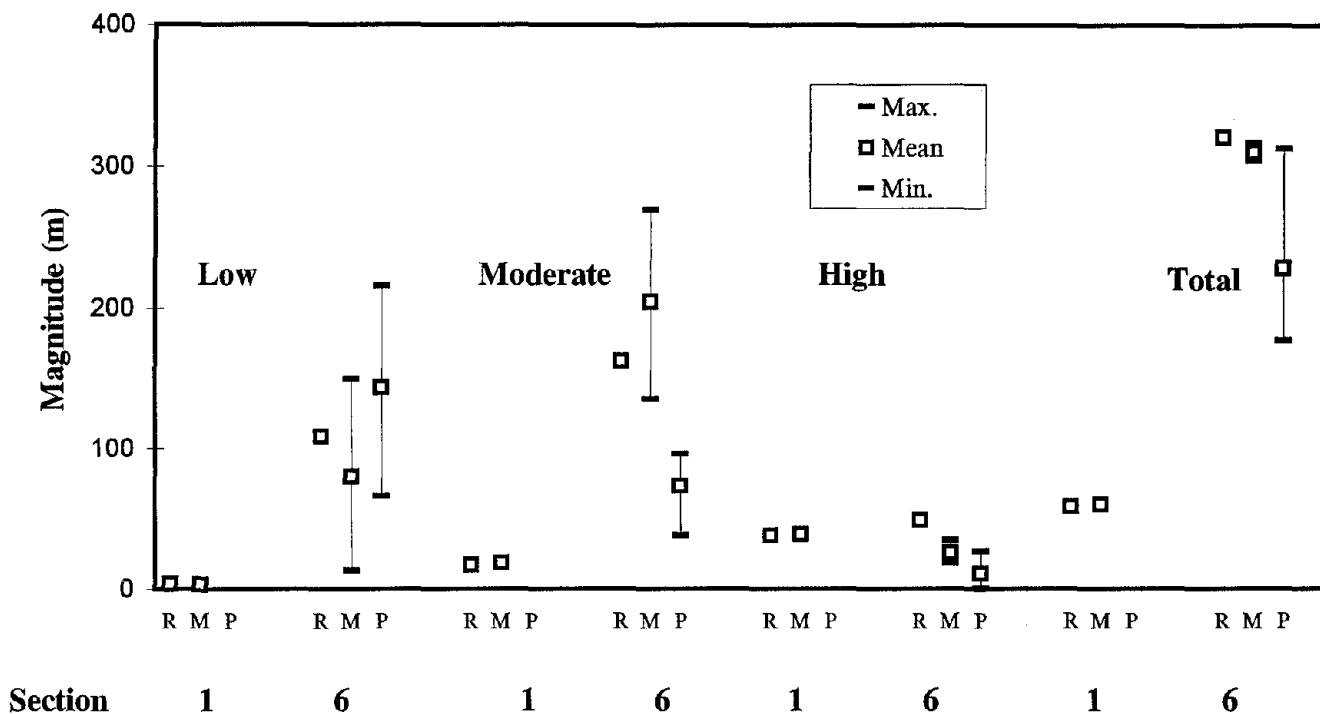


Figure 305. Longitudinal Cracking NWP (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

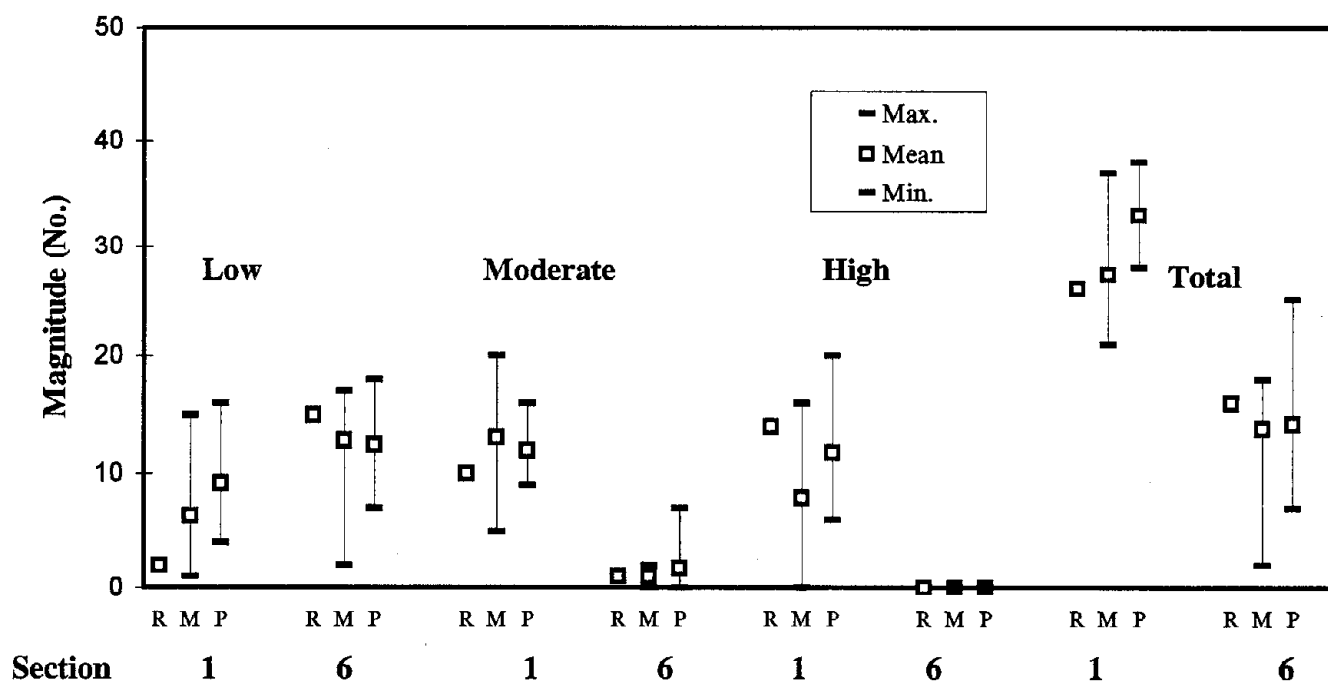


Figure 306. Transverse Cracking (No.) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

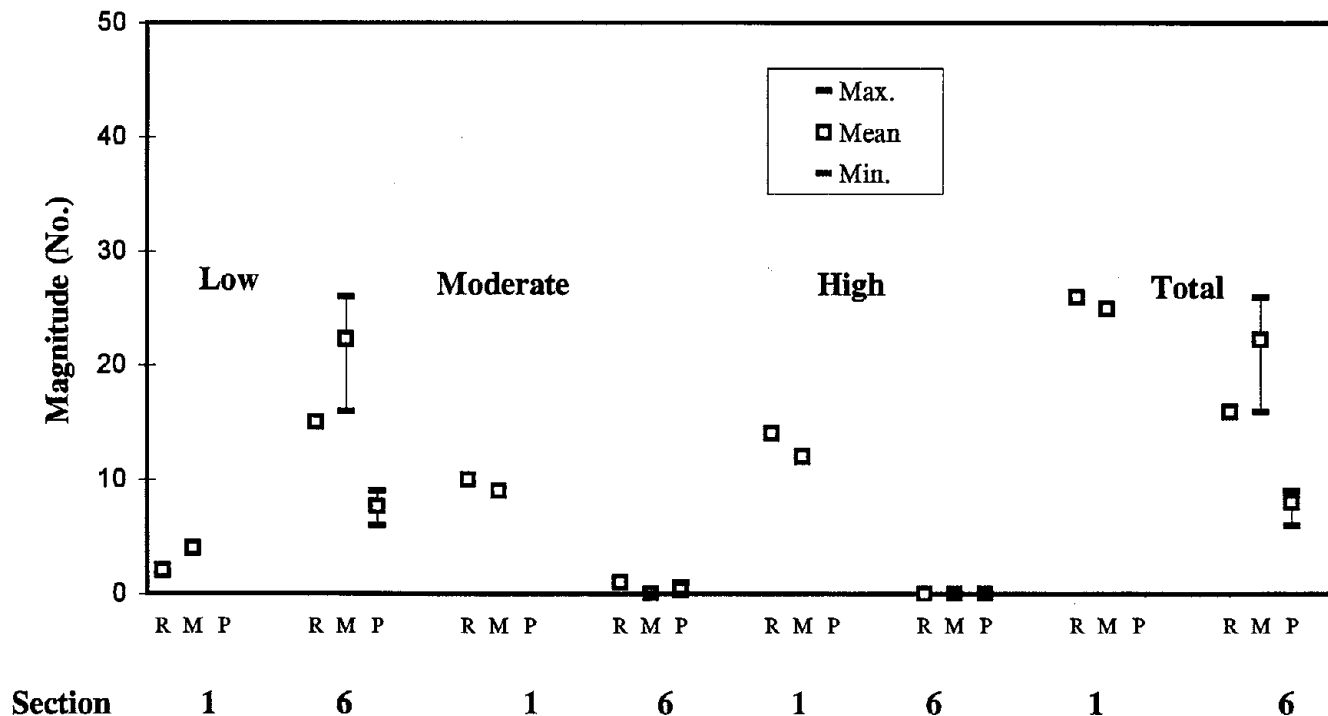


Figure 307. Transverse Cracking (No.) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

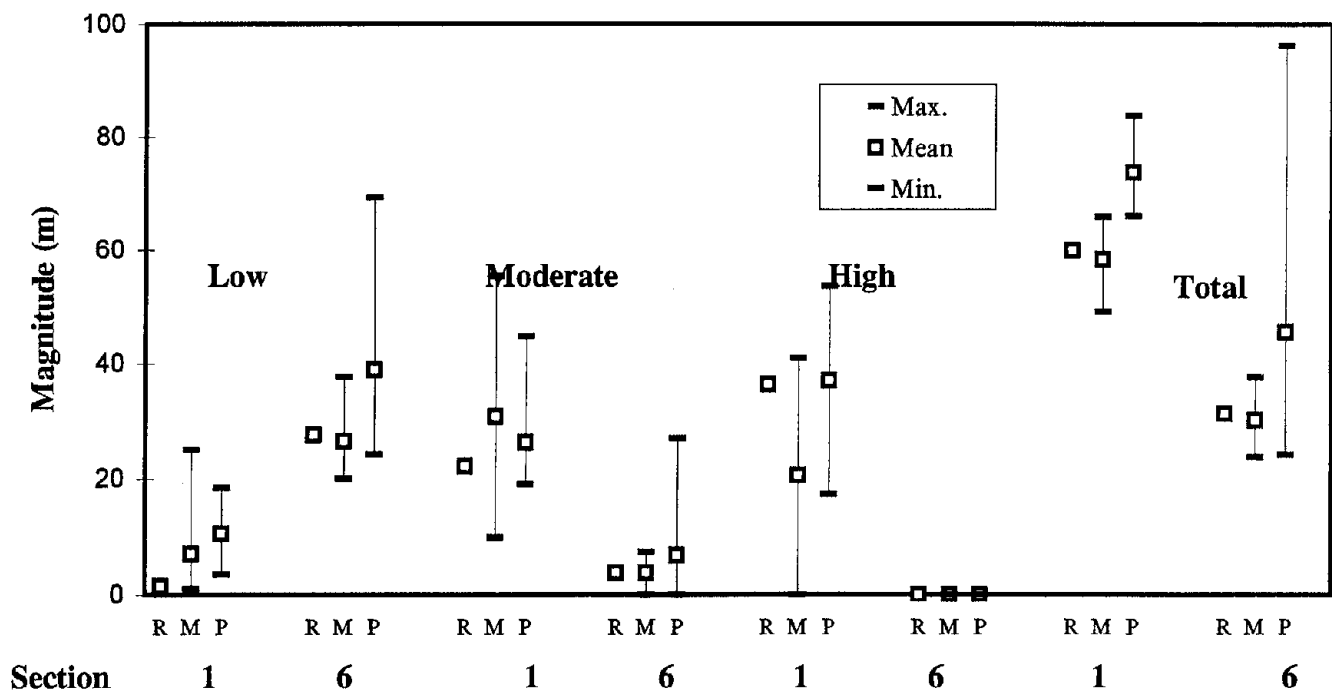


Figure 308. Transverse Cracking (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

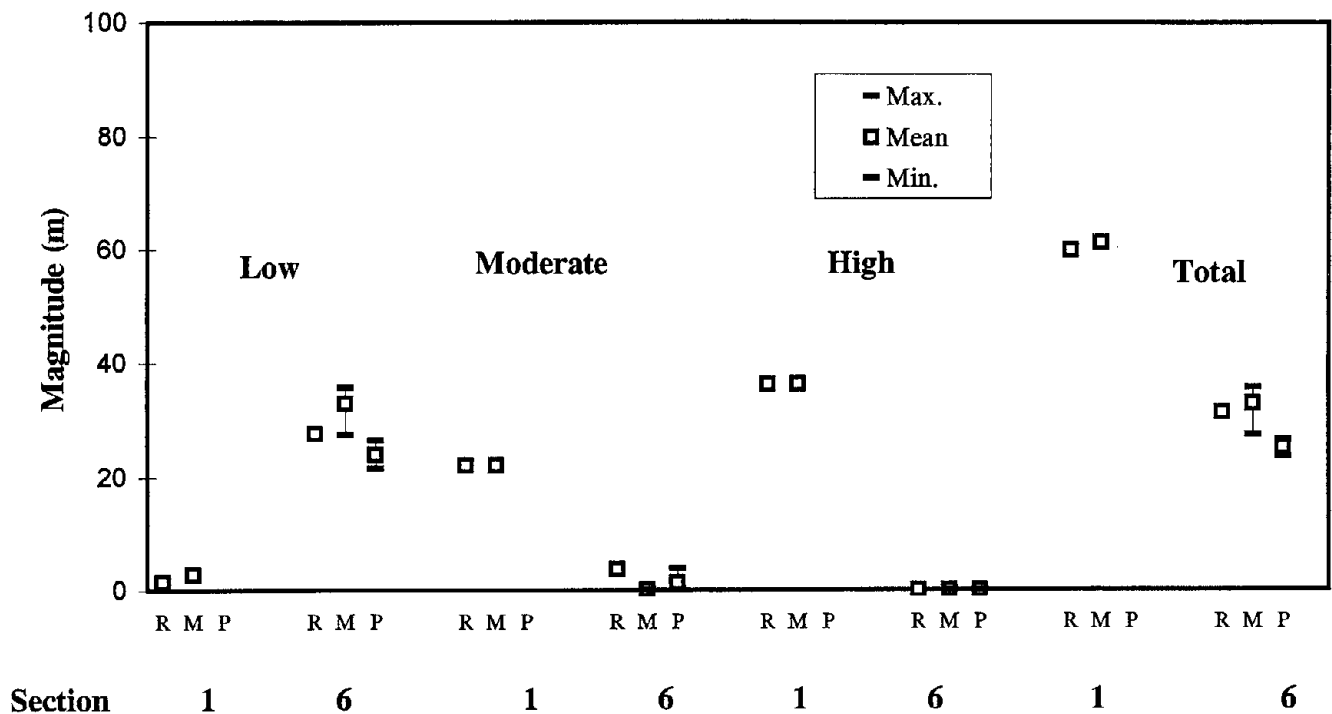


Figure 309. Transverse Cracking (Meters) - AC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

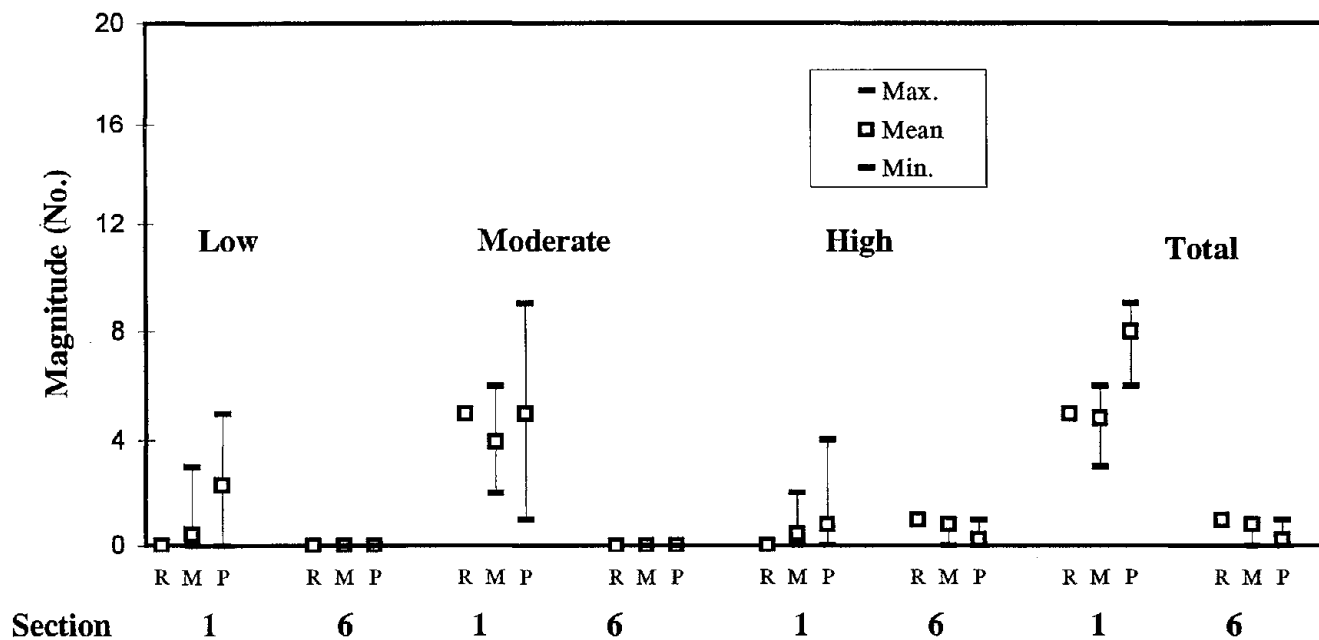


Figure 310. Corner Breaks (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

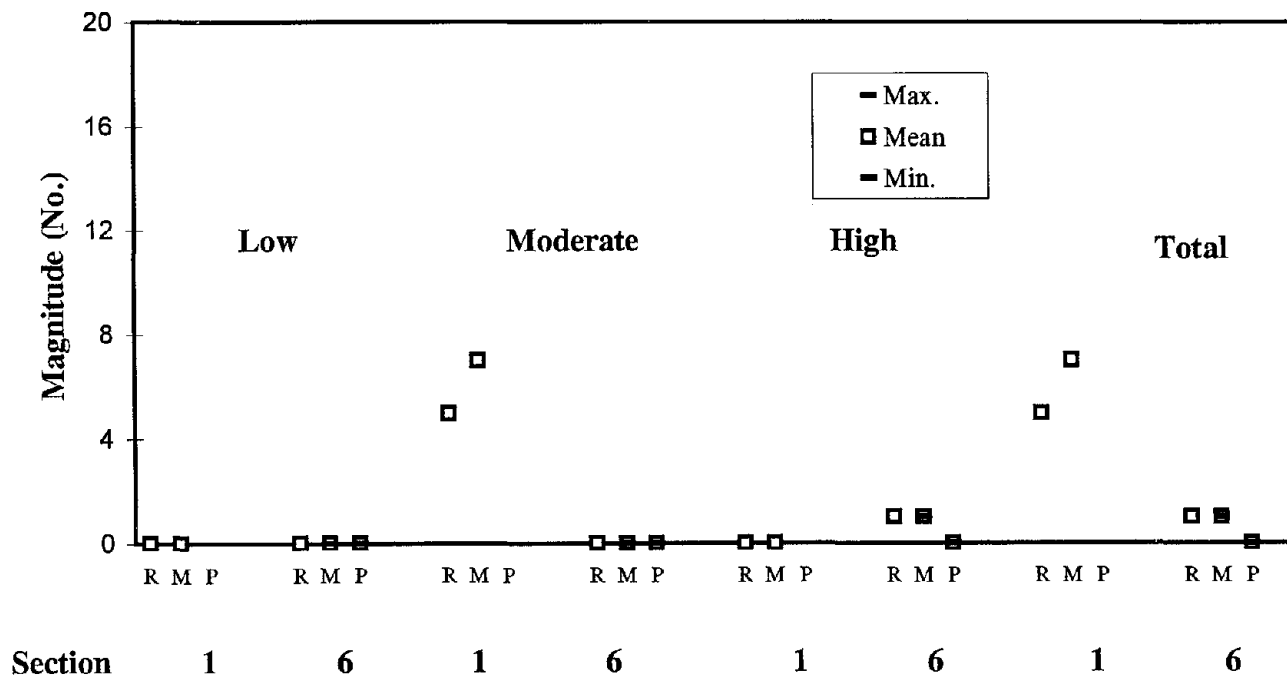


Figure 311. Corner Breaks (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

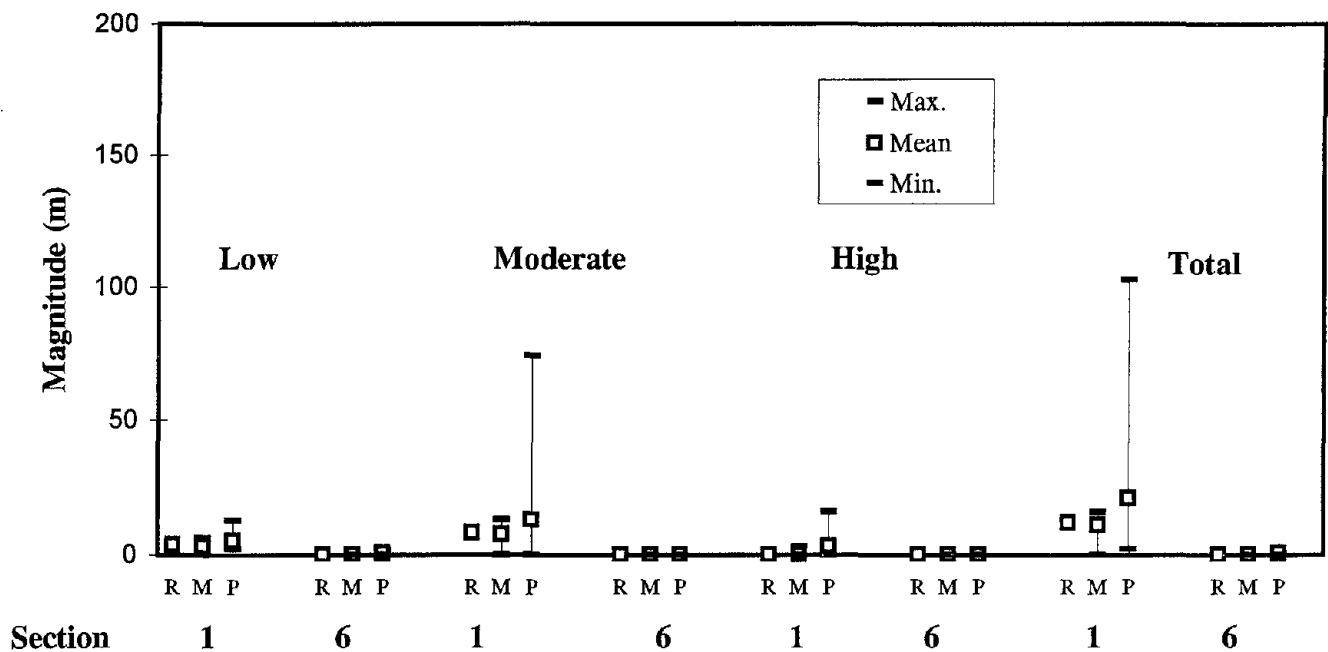


Figure 312. Longitudinal Cracking (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

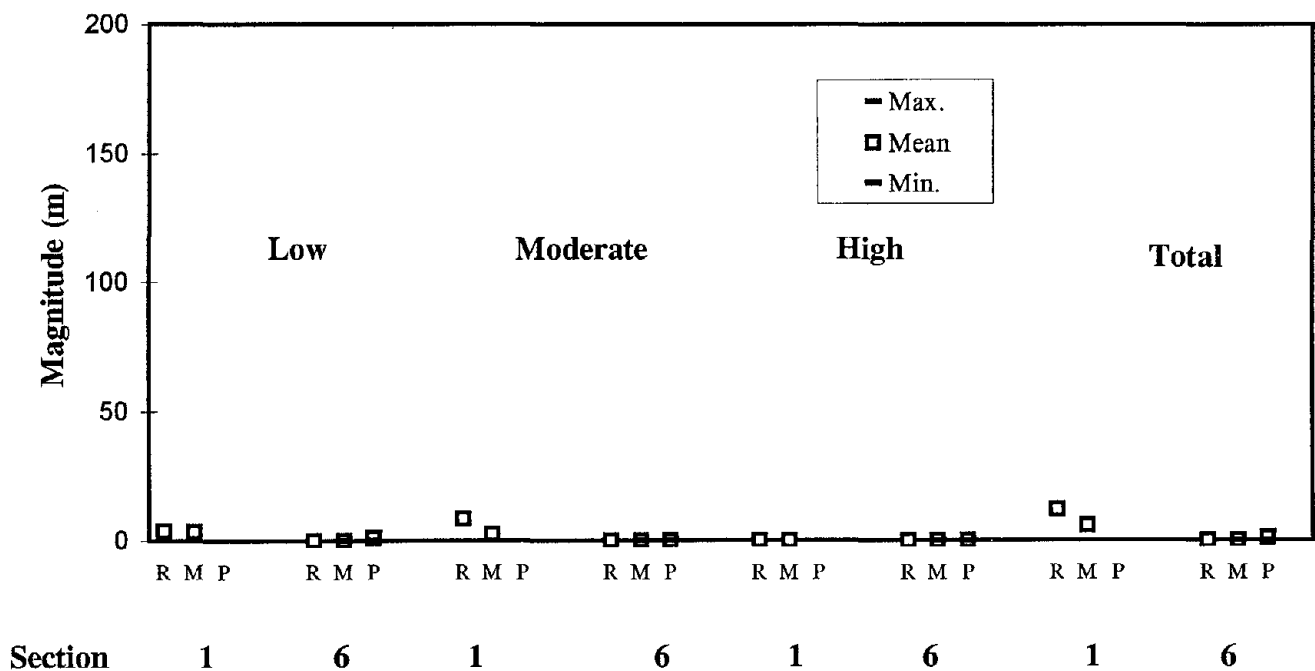


Figure 313. Longitudinal Cracking (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

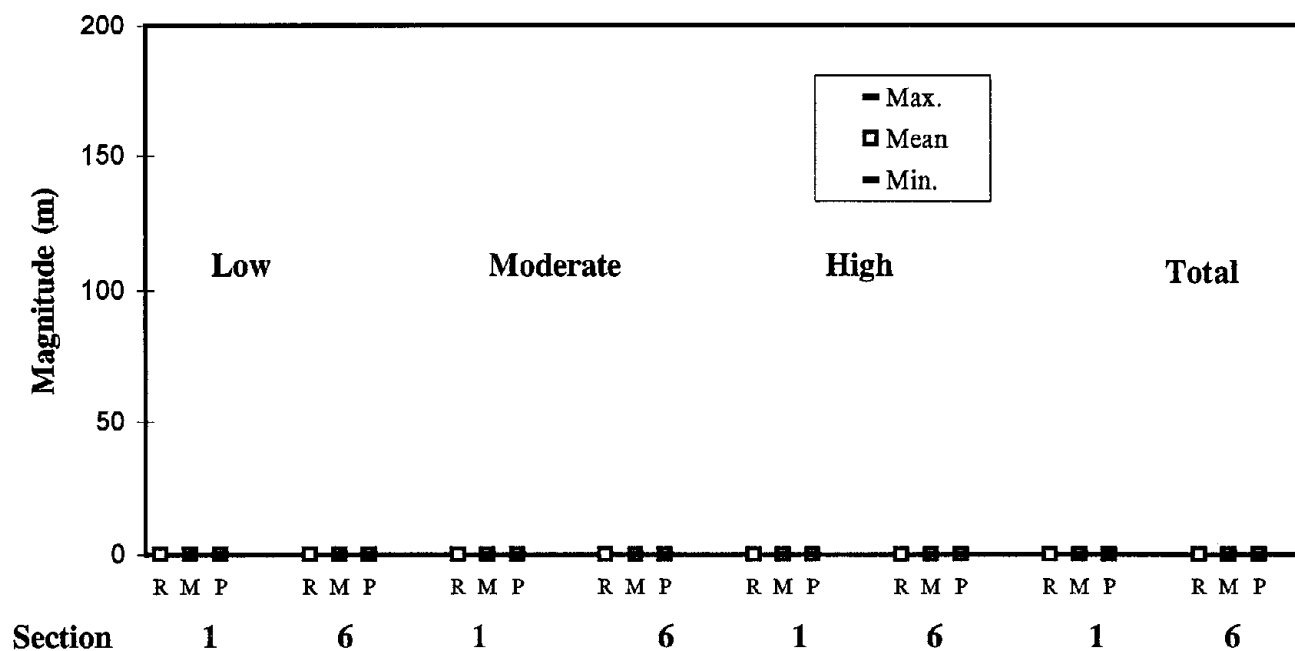


Figure 314. Longitudinal Cracking Well Sealed (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

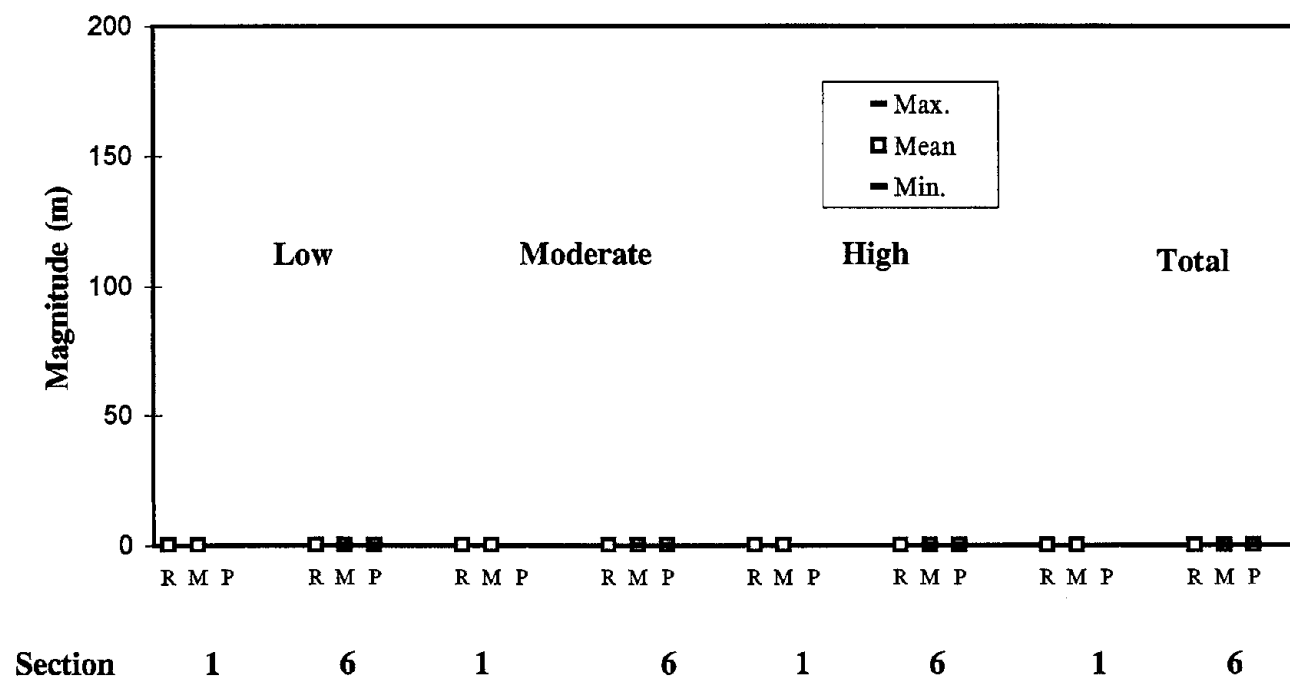


Figure 315. Longitudinal Cracking Well Sealed (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

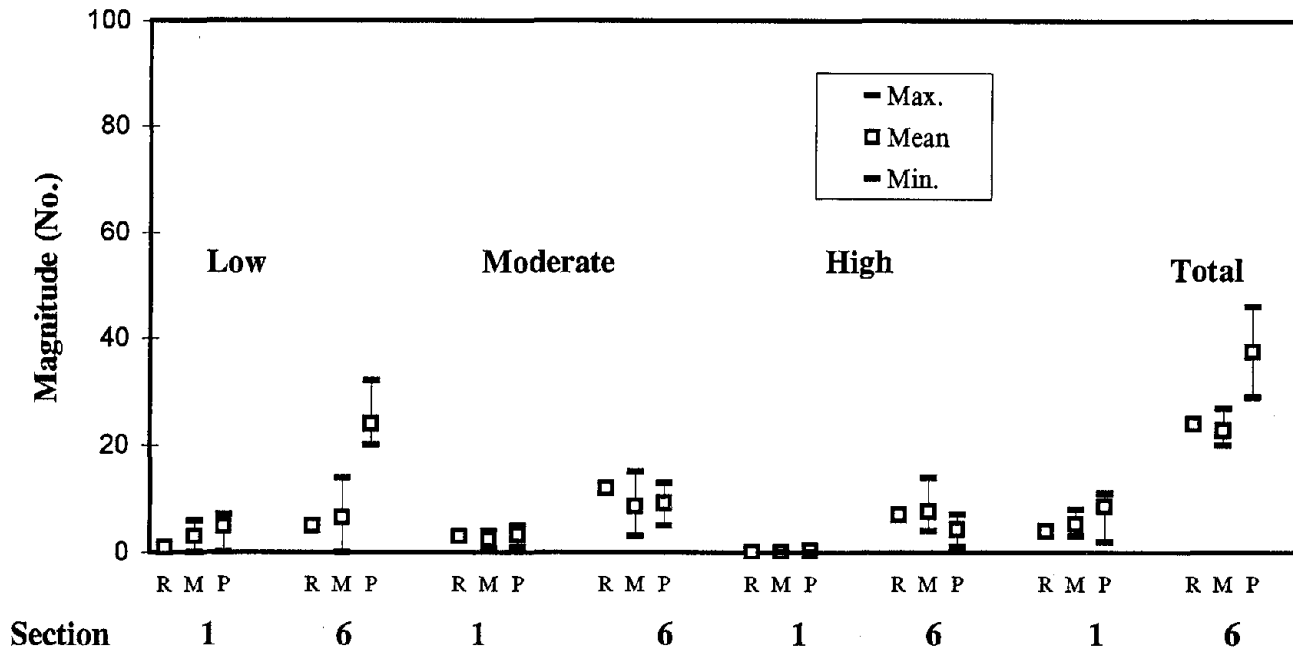


Figure 316. Transverse Cracking (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

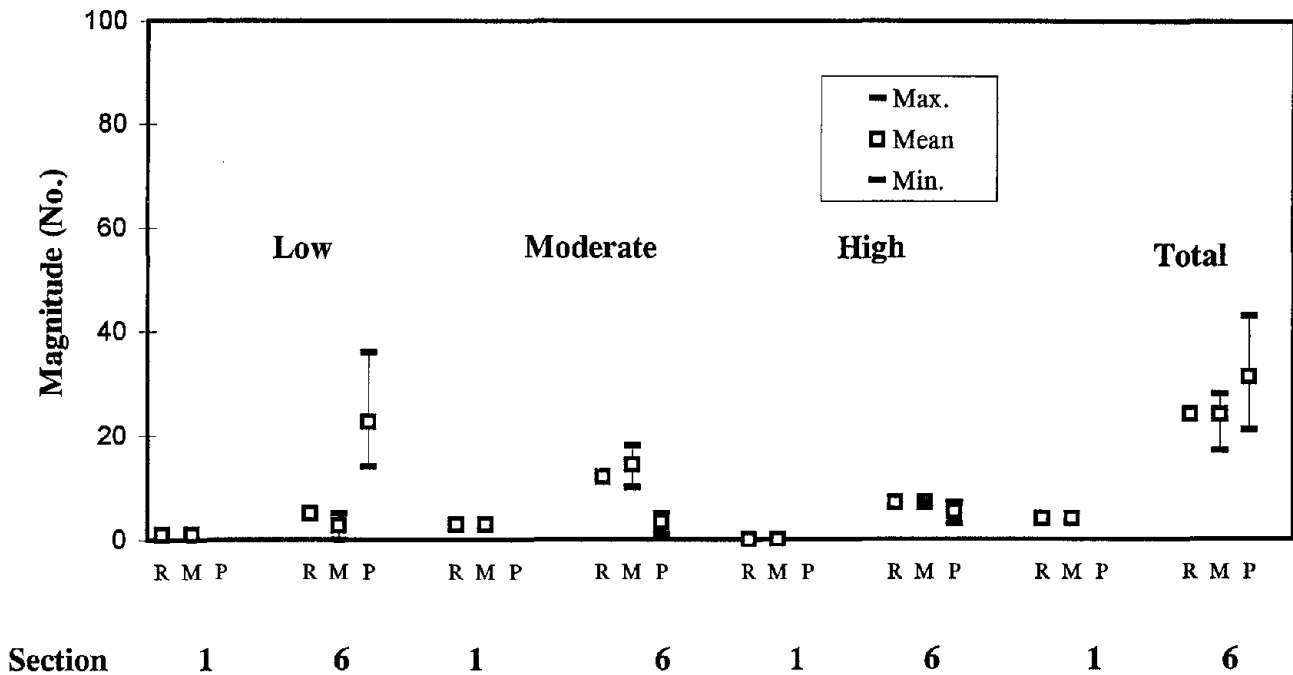


Figure 317. Transverse Cracking (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

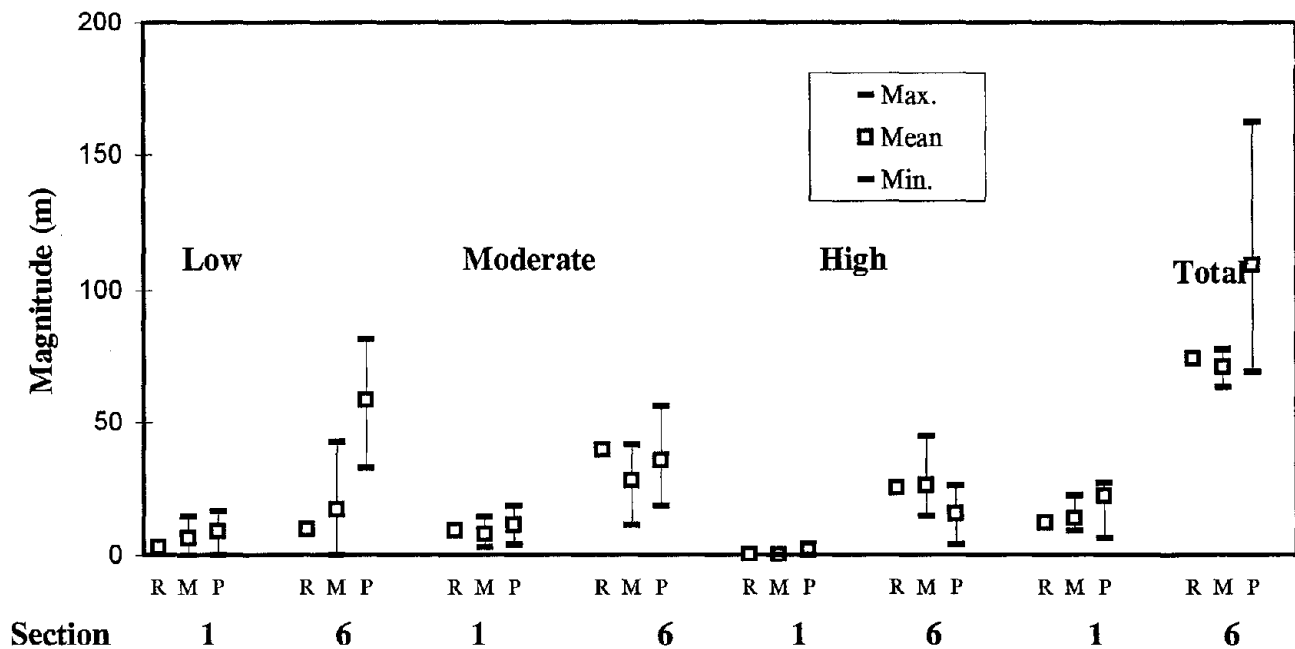


Figure 318. Transverse Cracking (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

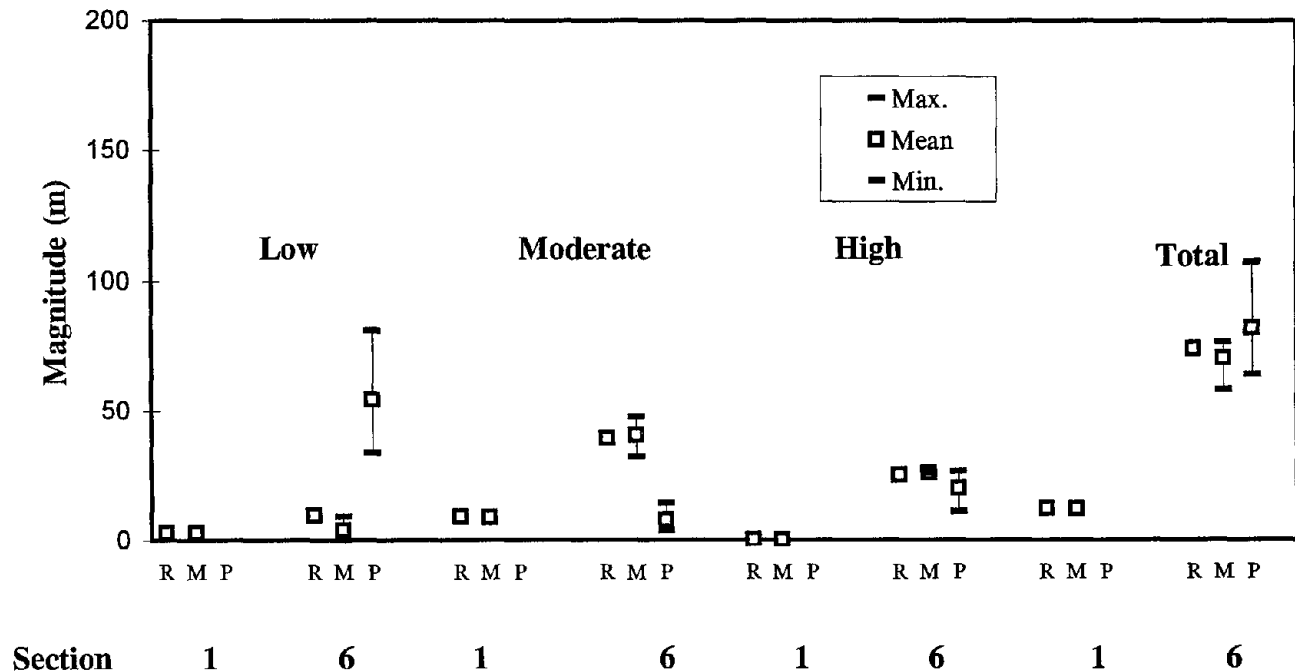


Figure 319. Transverse Cracking (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

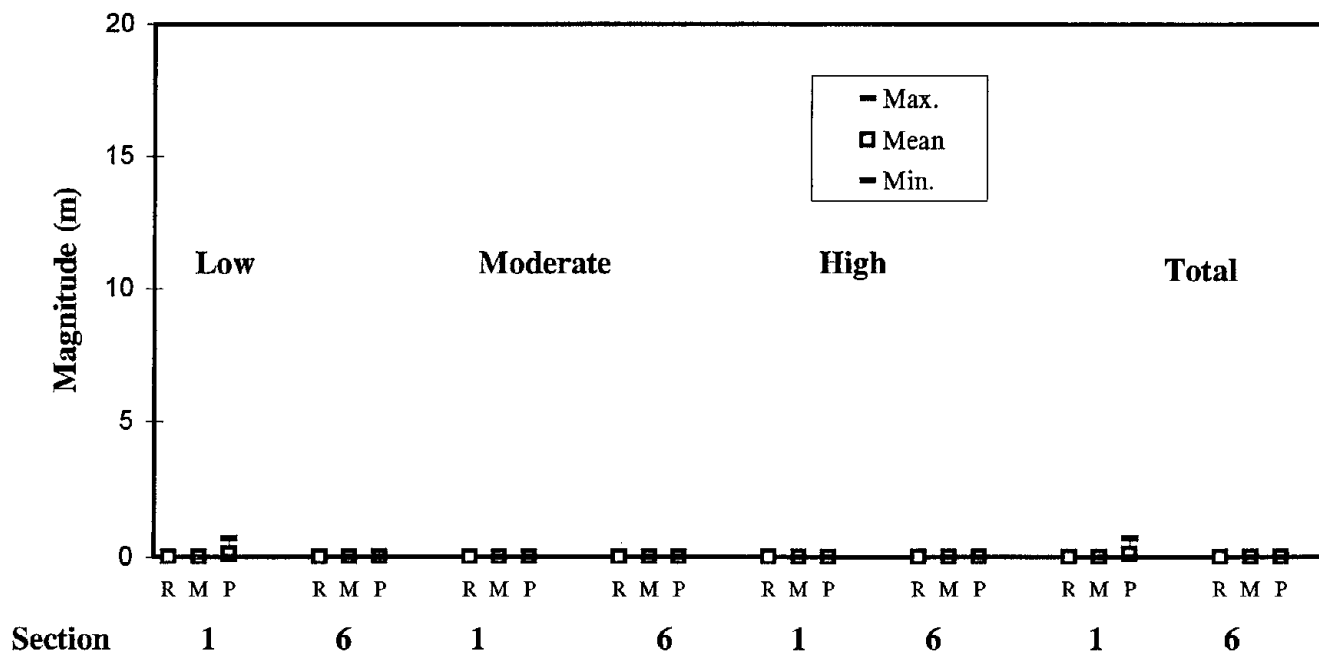


Figure 320. Transverse Cracking Well Sealed (M) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

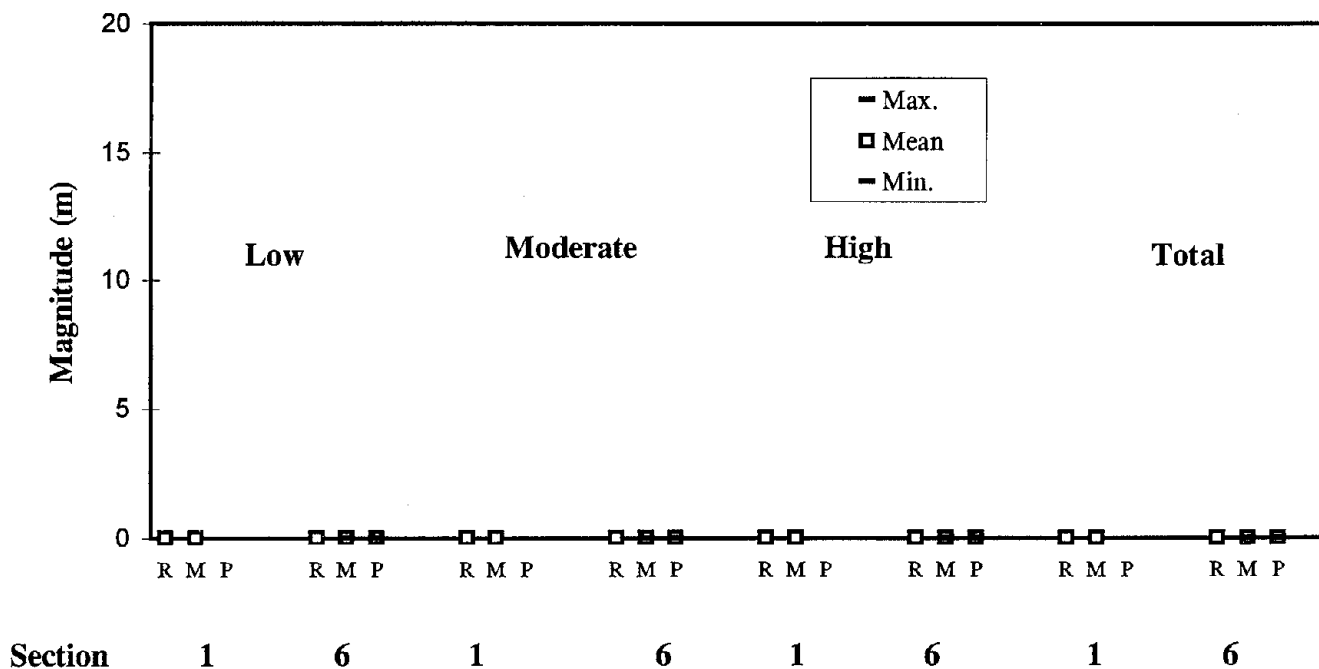


Figure 321. Transverse Cracking Well Sealed (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

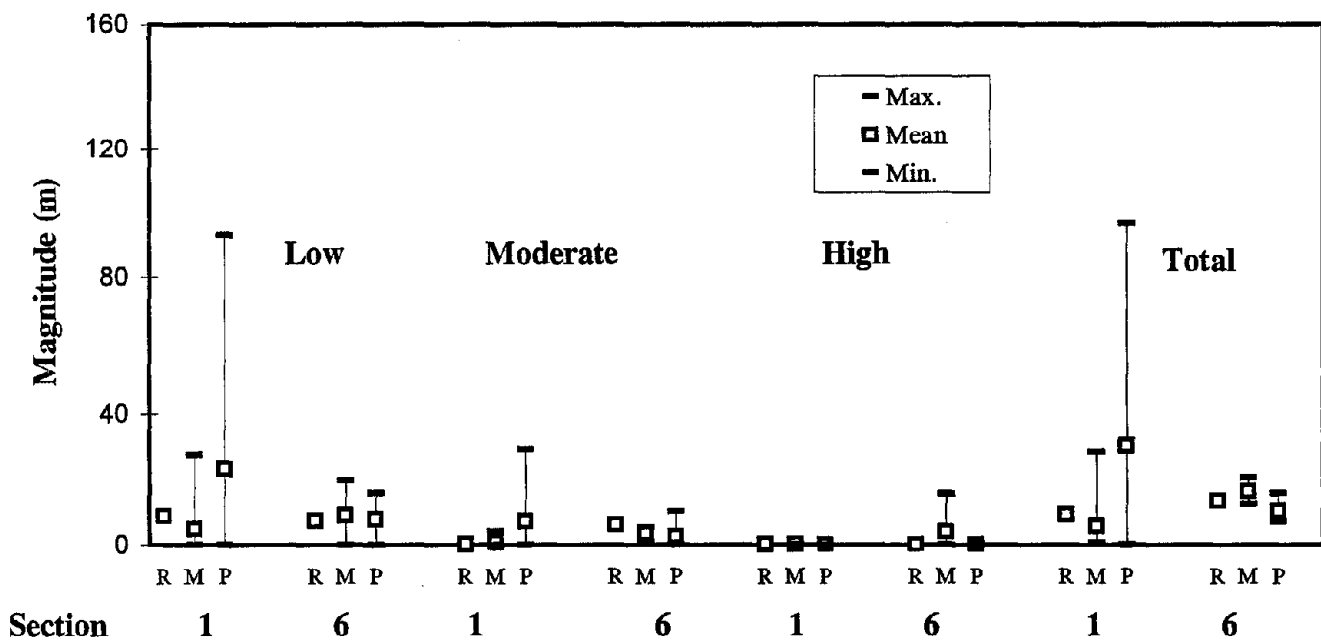


Figure 322. Spalling of Longitudinal Joints (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

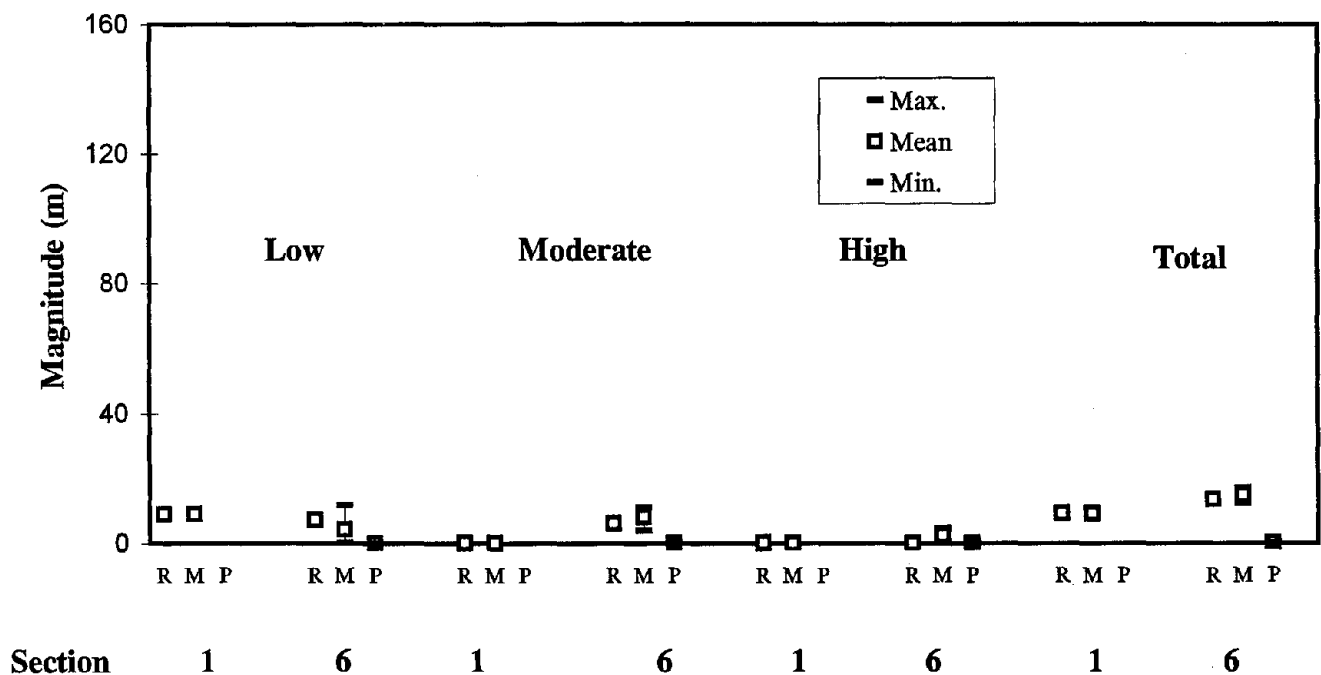


Figure 323. Spalling of Longitudinal Joints (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

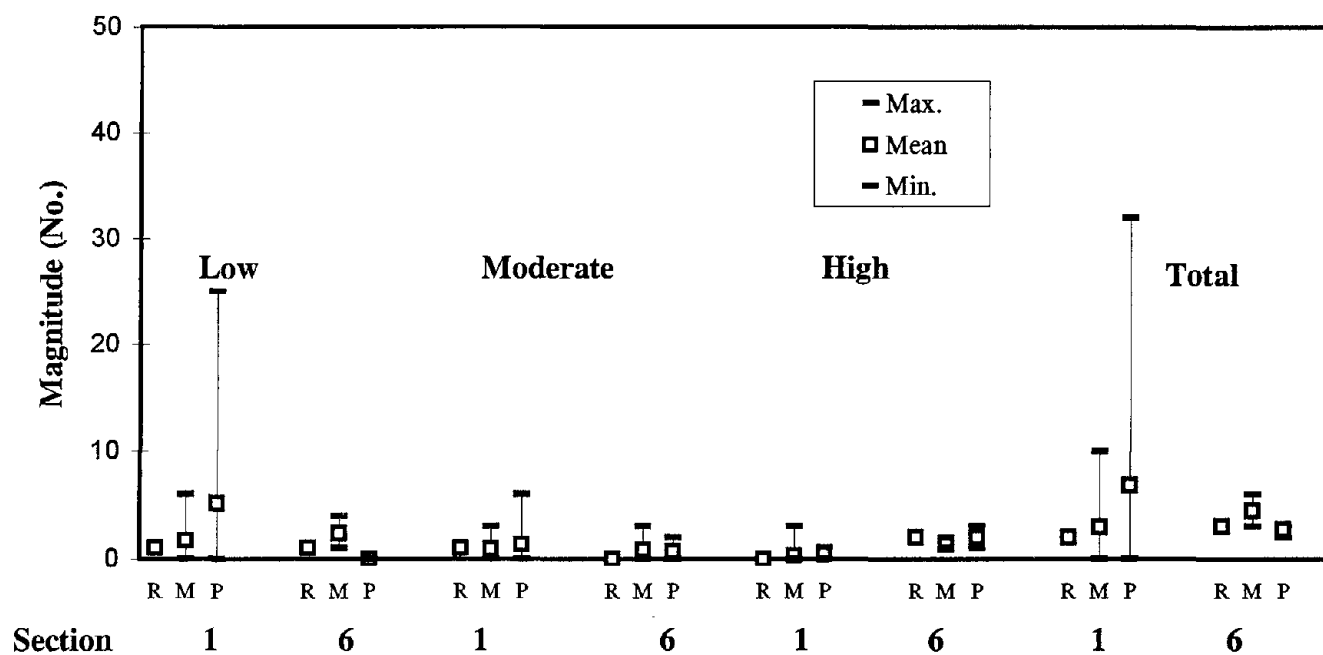


Figure 324. Spalling of Transverse Joints (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

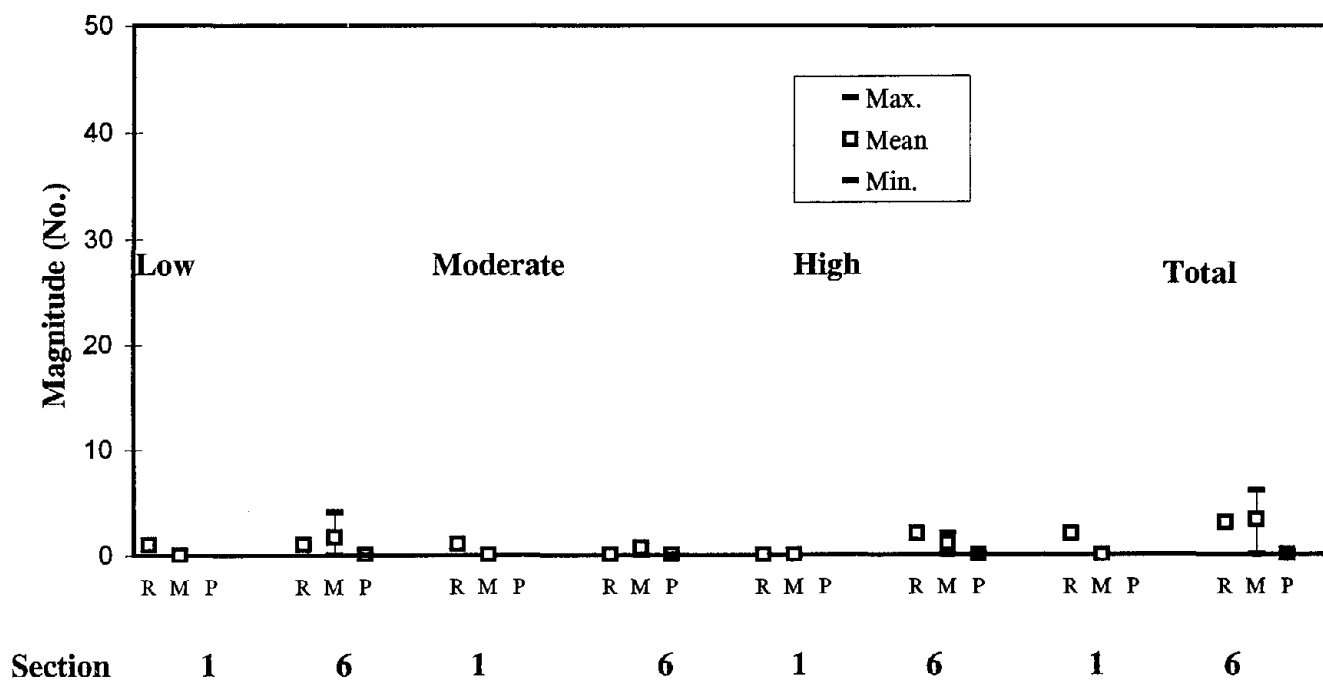


Figure 325. Spalling of Transverse Joints (No.) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

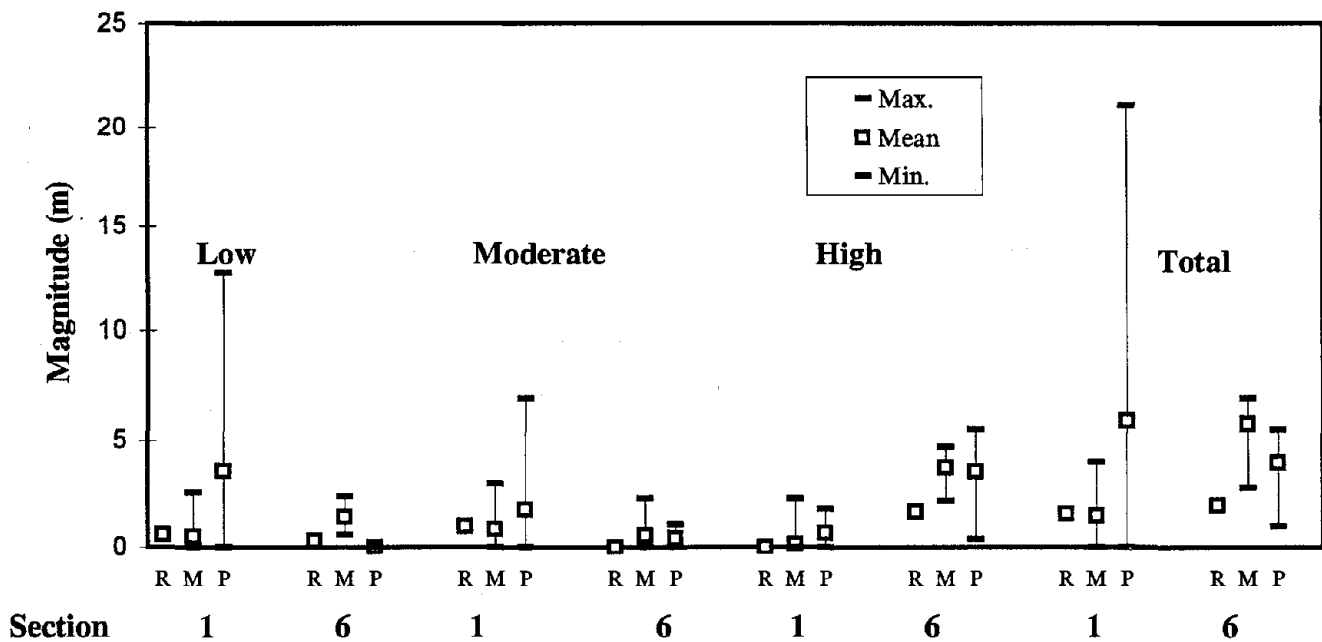


Figure 326. Spalling of Transverse Joints (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Individual Surveys for Manual and PASCO/PADIAS.

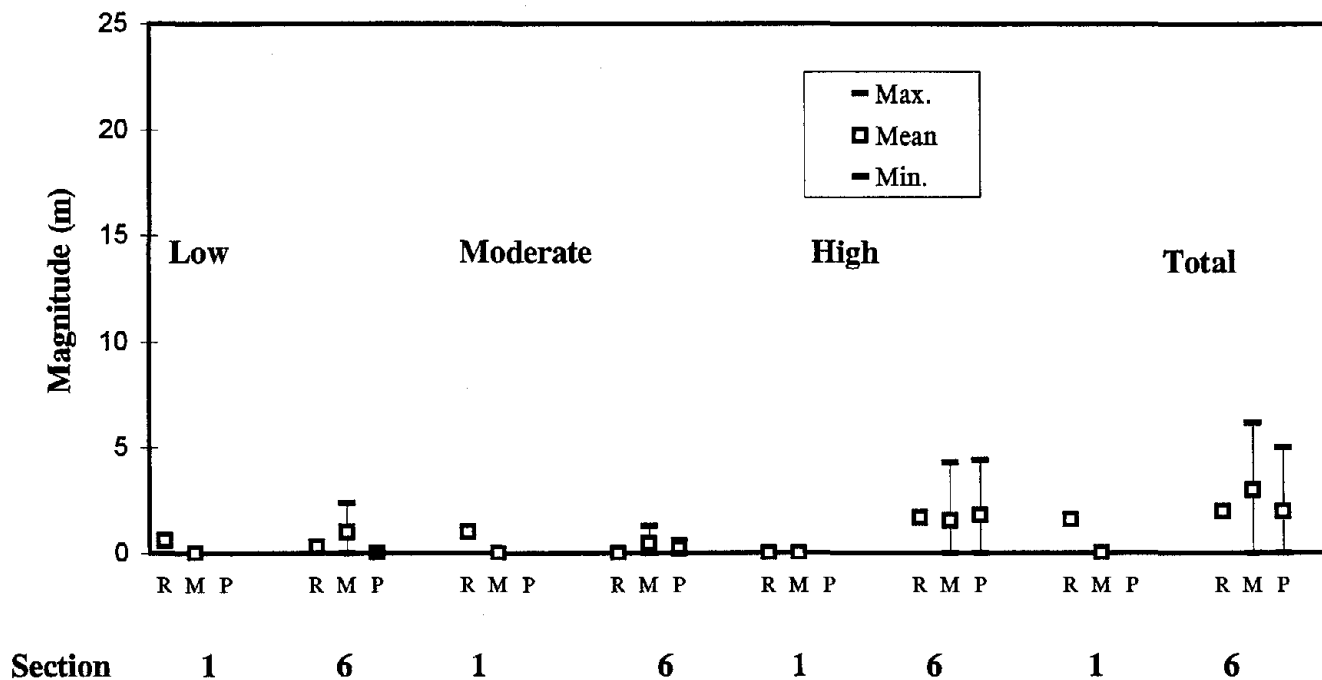


Figure 327. Spalling of Transverse Joints (Meters) - PCC Pavements: Reference, Minimum, Mean, and Maximum Values of Team Surveys for Manual and PASCO/PADIAS.

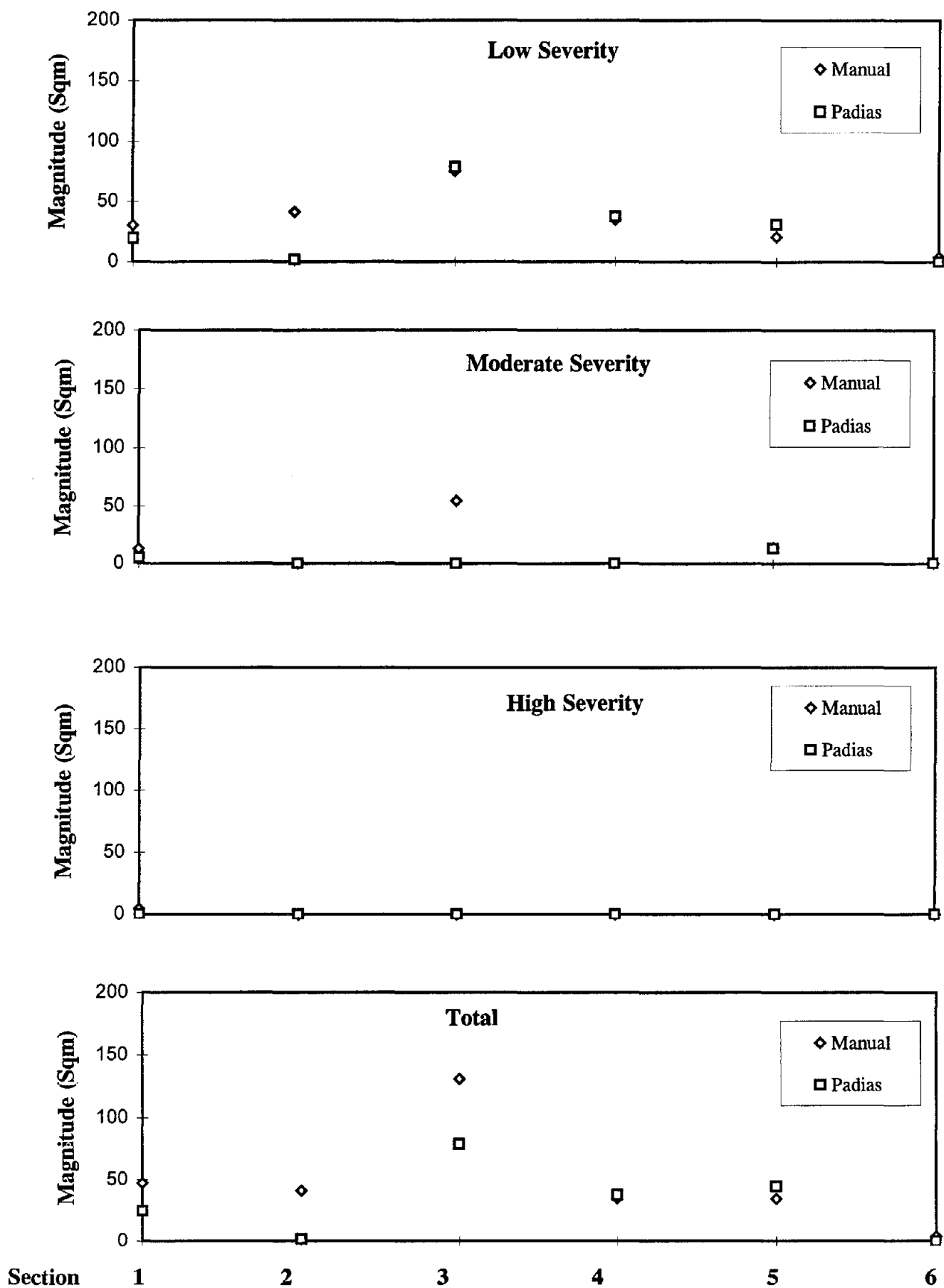


Figure 328. Fatigue Cracking (Sq. Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

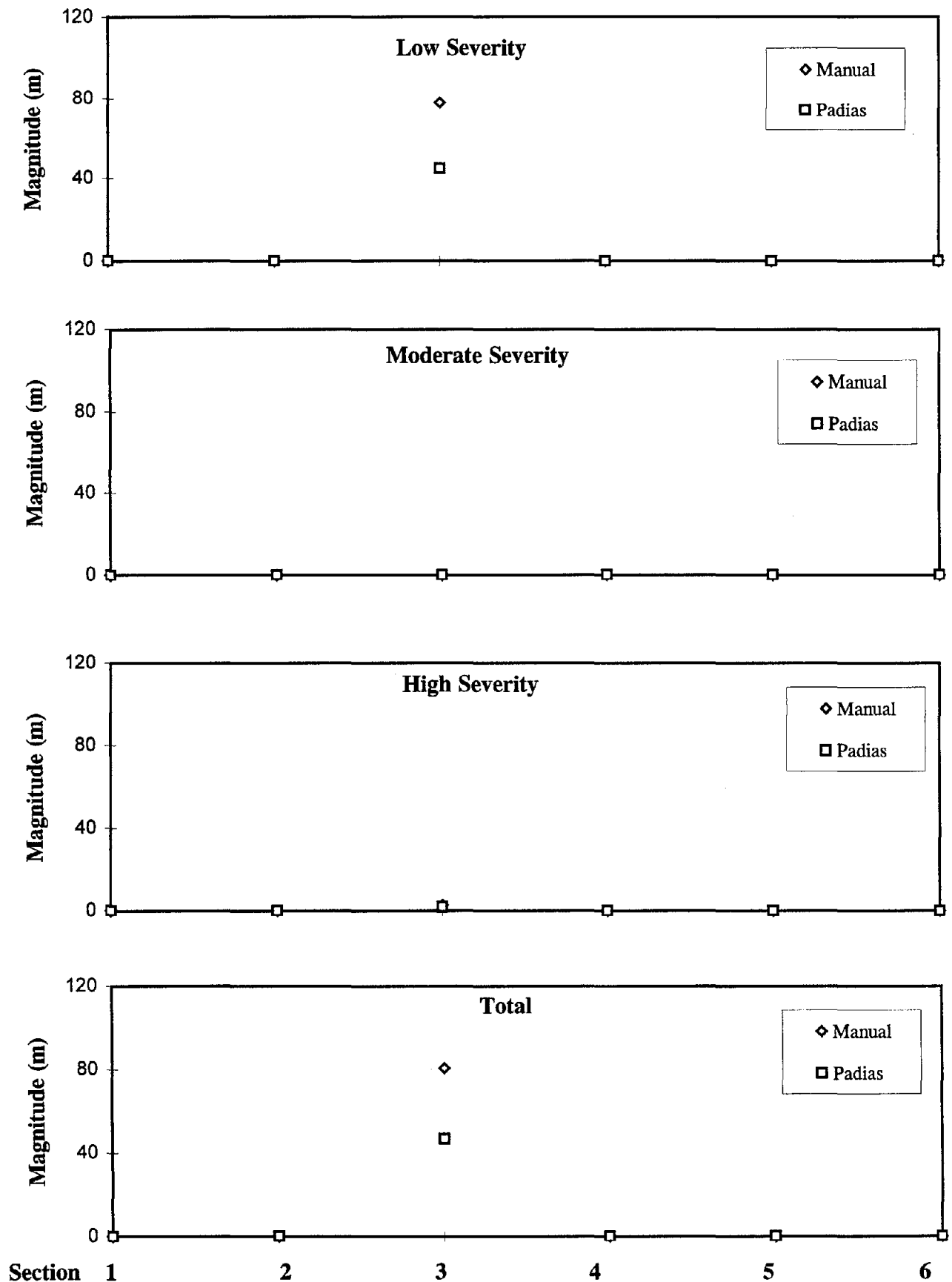


Figure 329. Edge Cracking (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

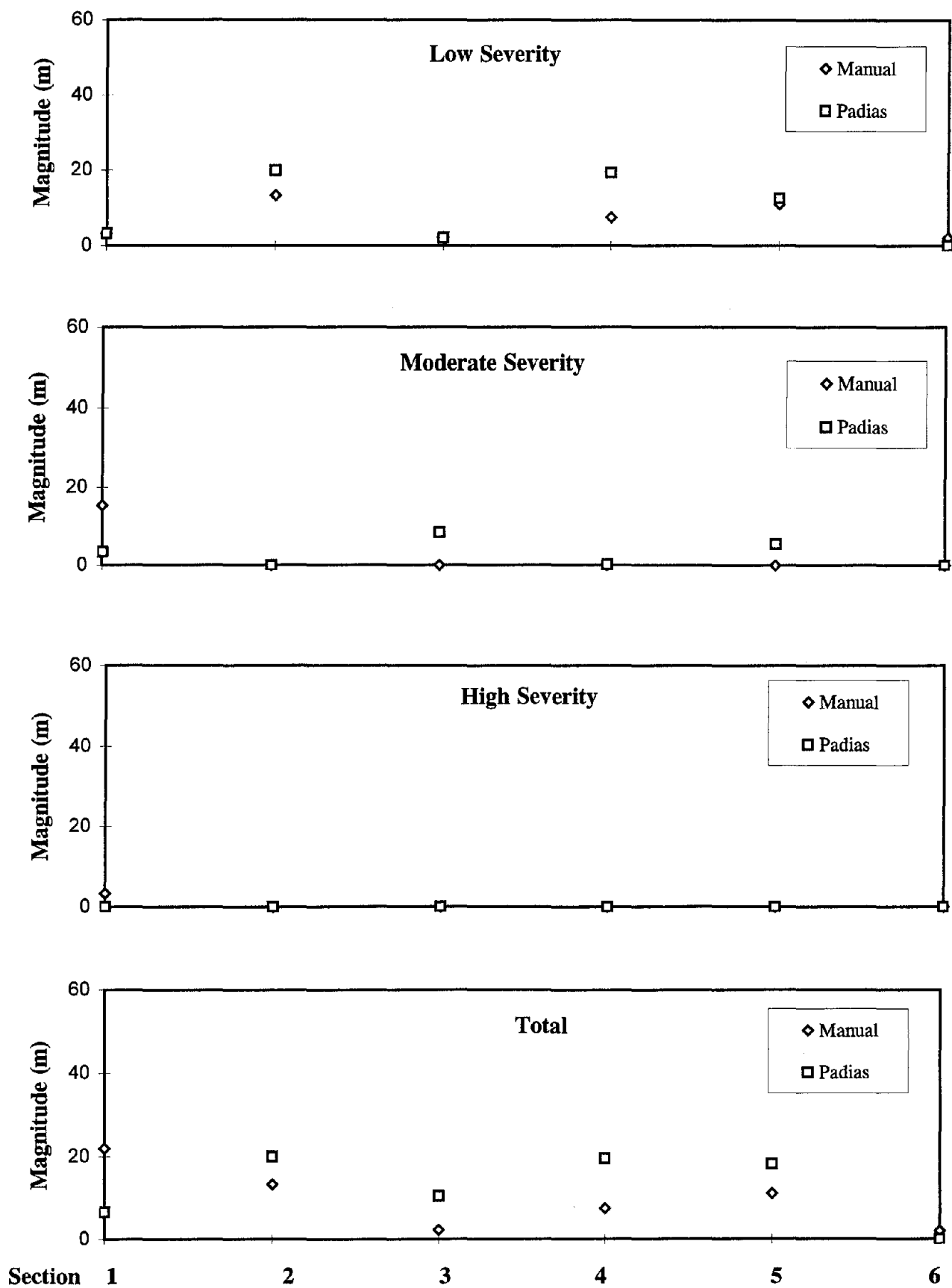


Figure 330. Longitudinal Cracking WP (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

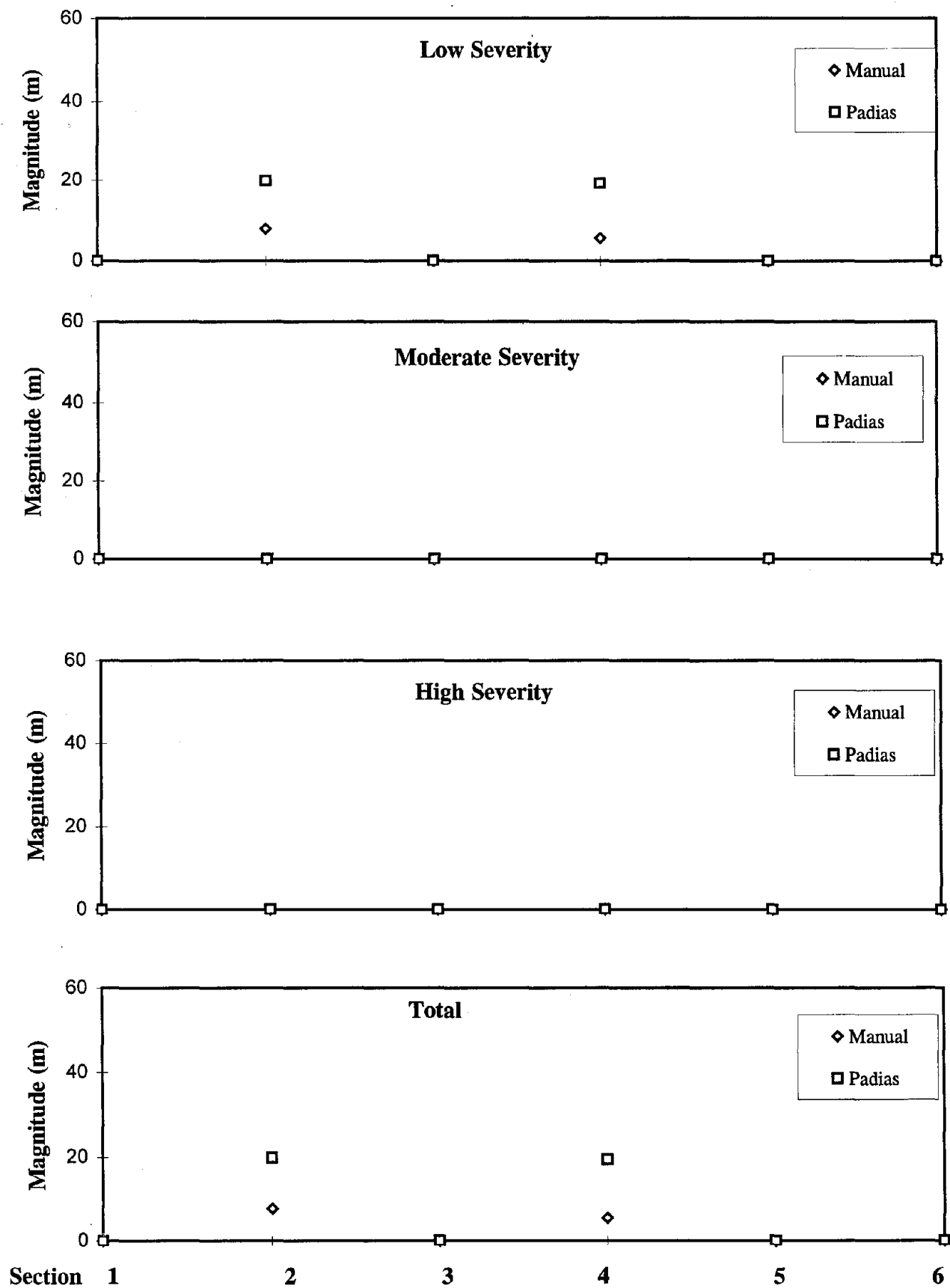


Figure 331. Longitudinal Cracking WP Sealed (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

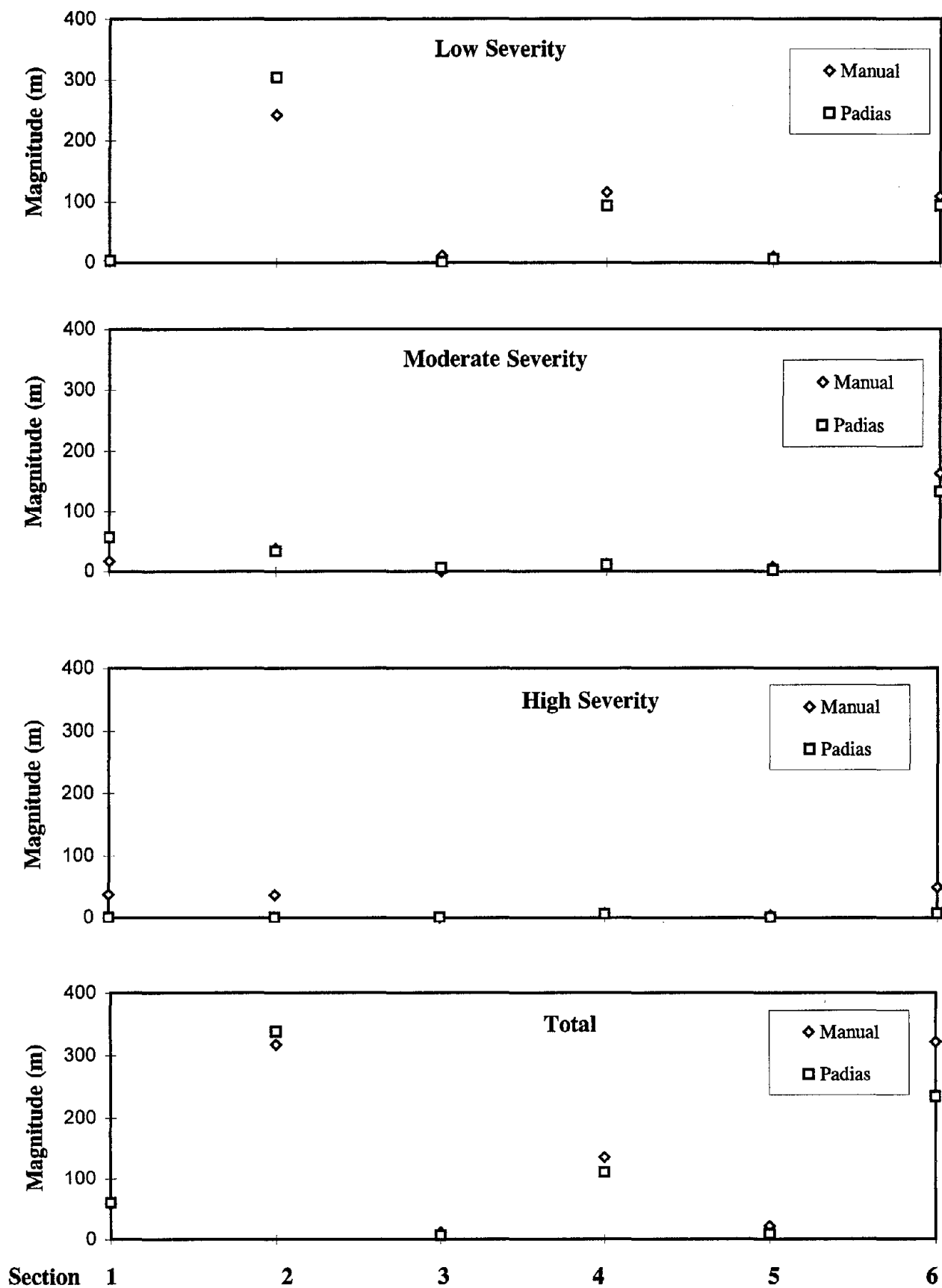


Figure 332. Longitudinal Cracking NWP (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

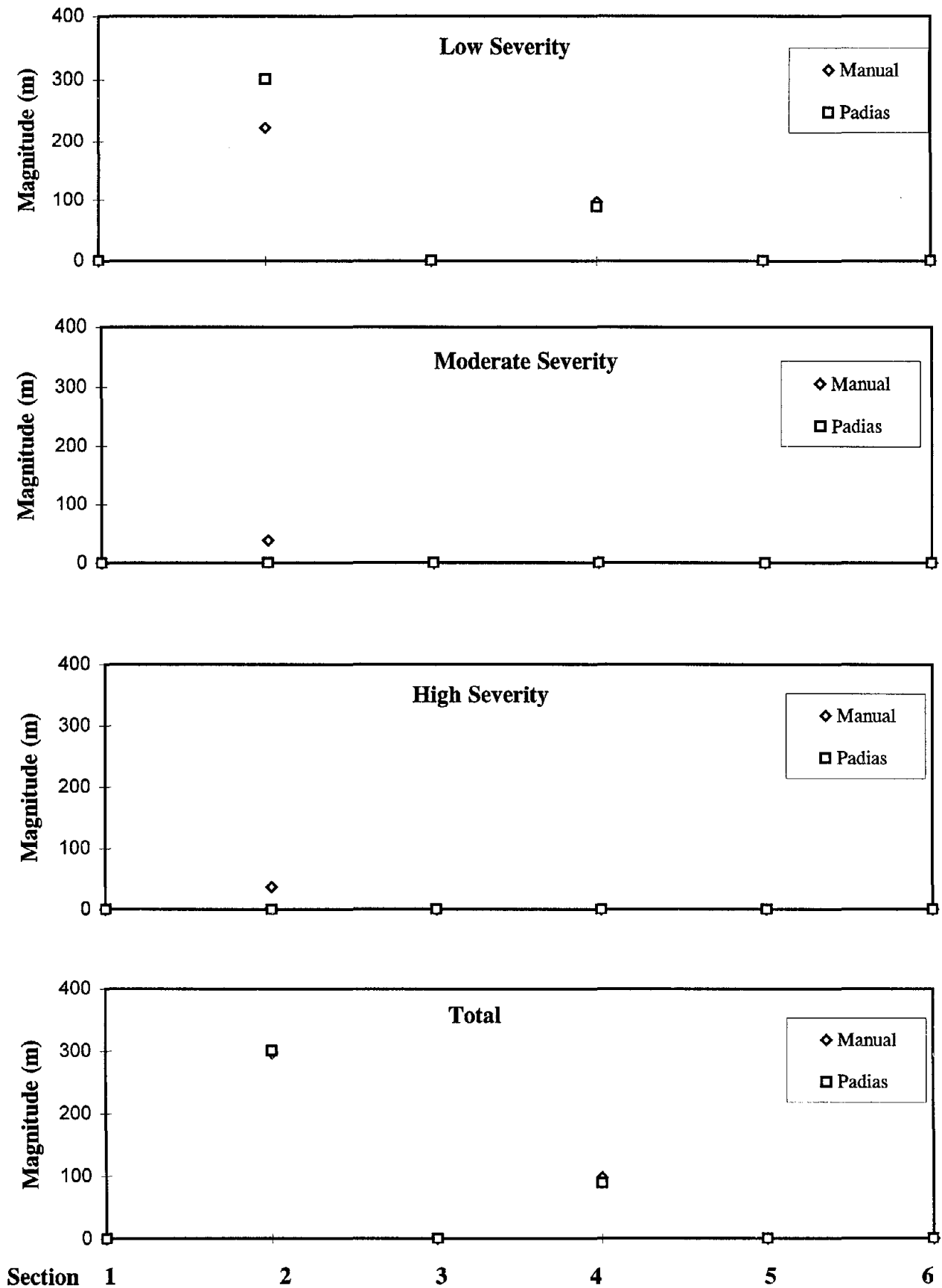


Figure 333. Longitudinal Cracking NWP Sealed (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

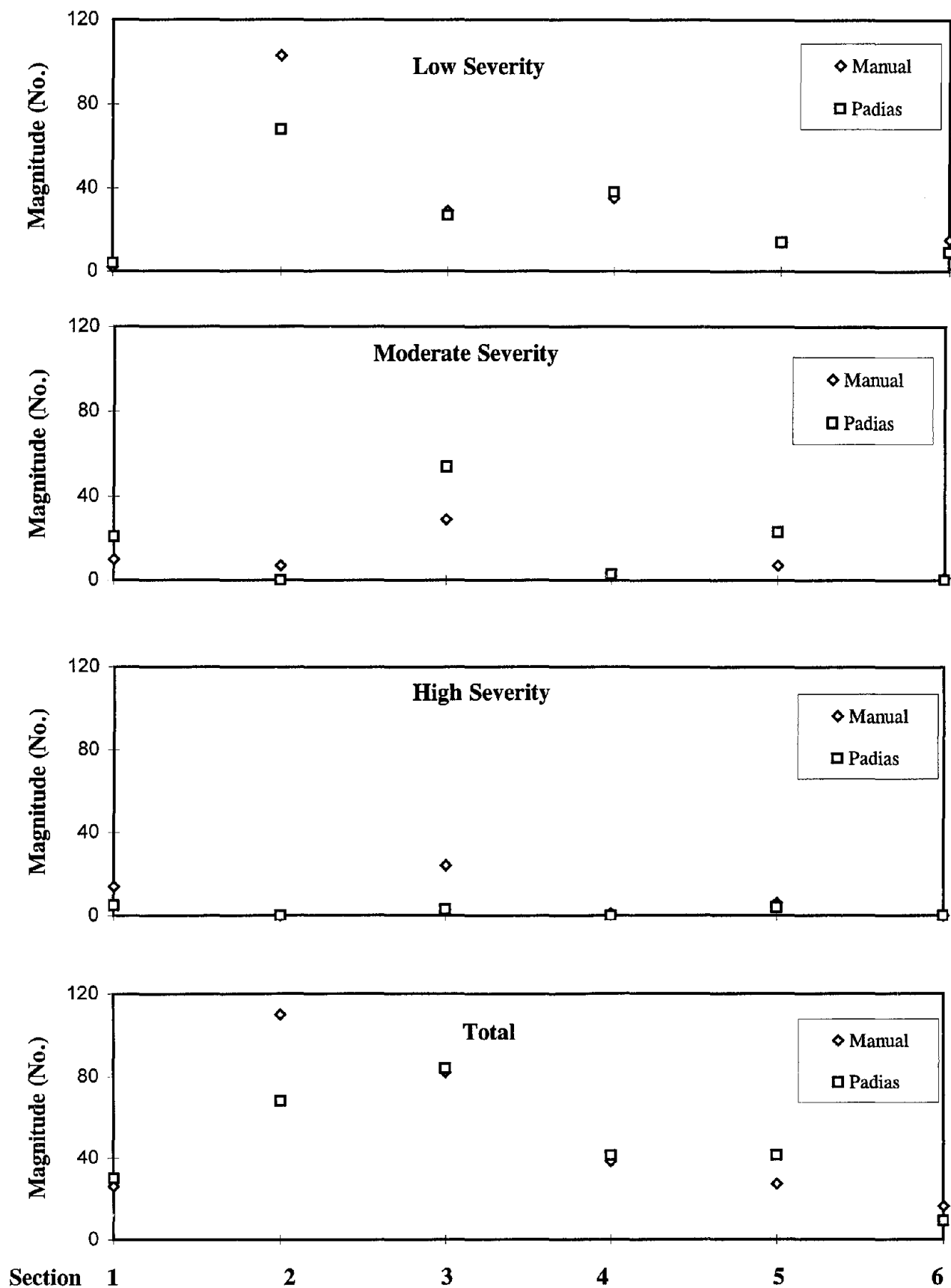


Figure 334. Transverse Cracking (No.) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

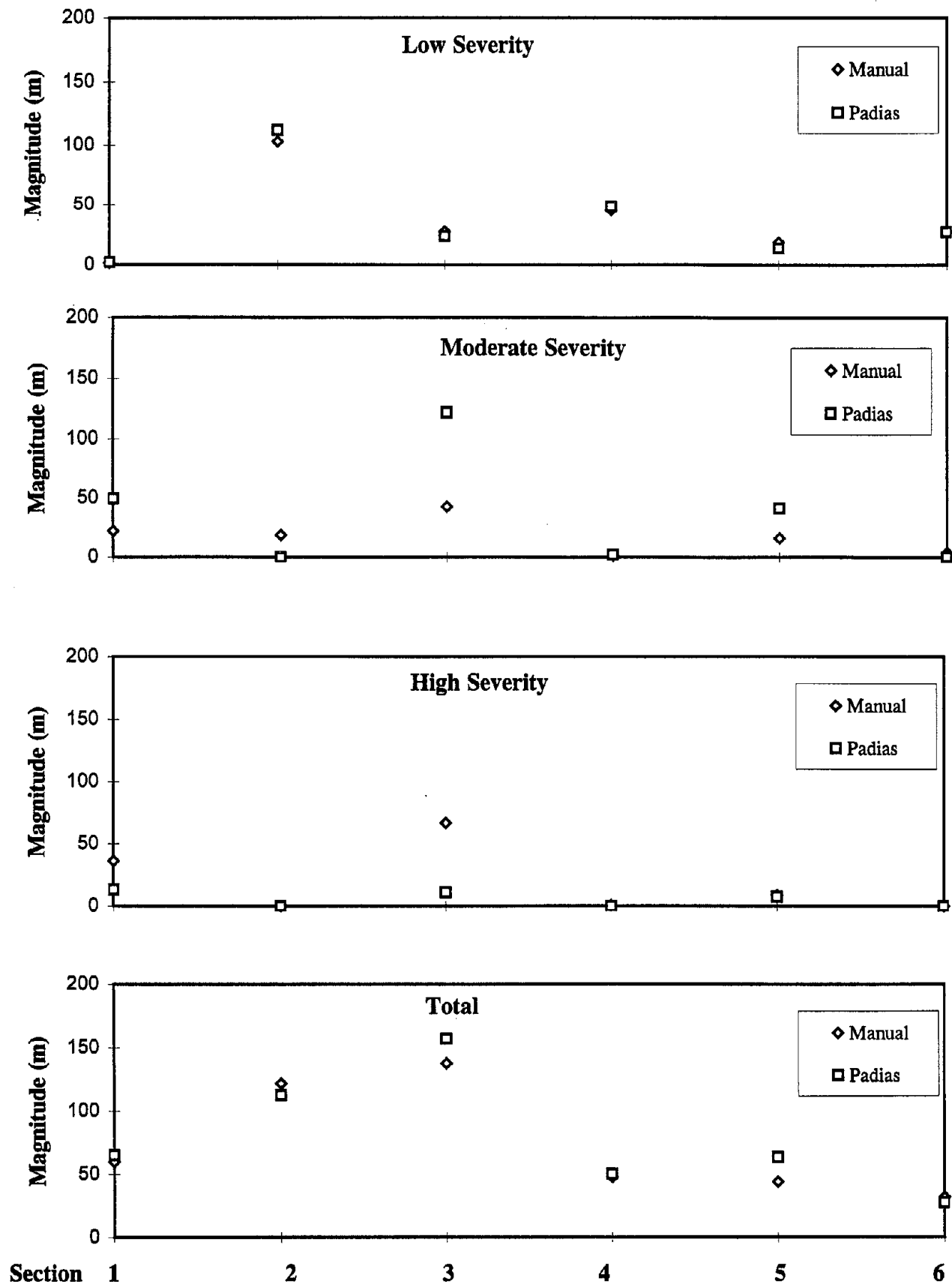


Figure 335. Transverse Cracking (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

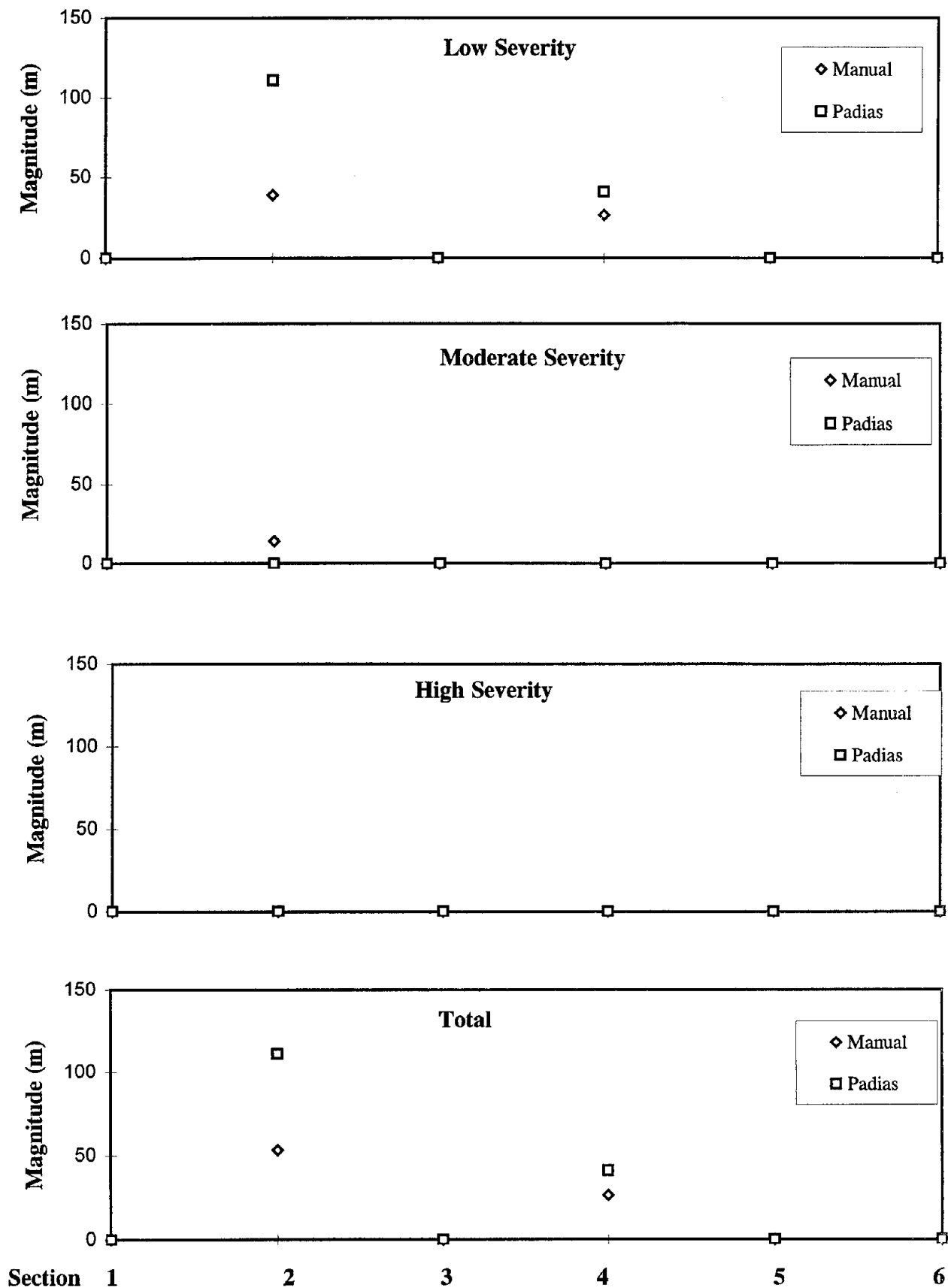


Figure 336. Transverse Cracking Sealed (Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

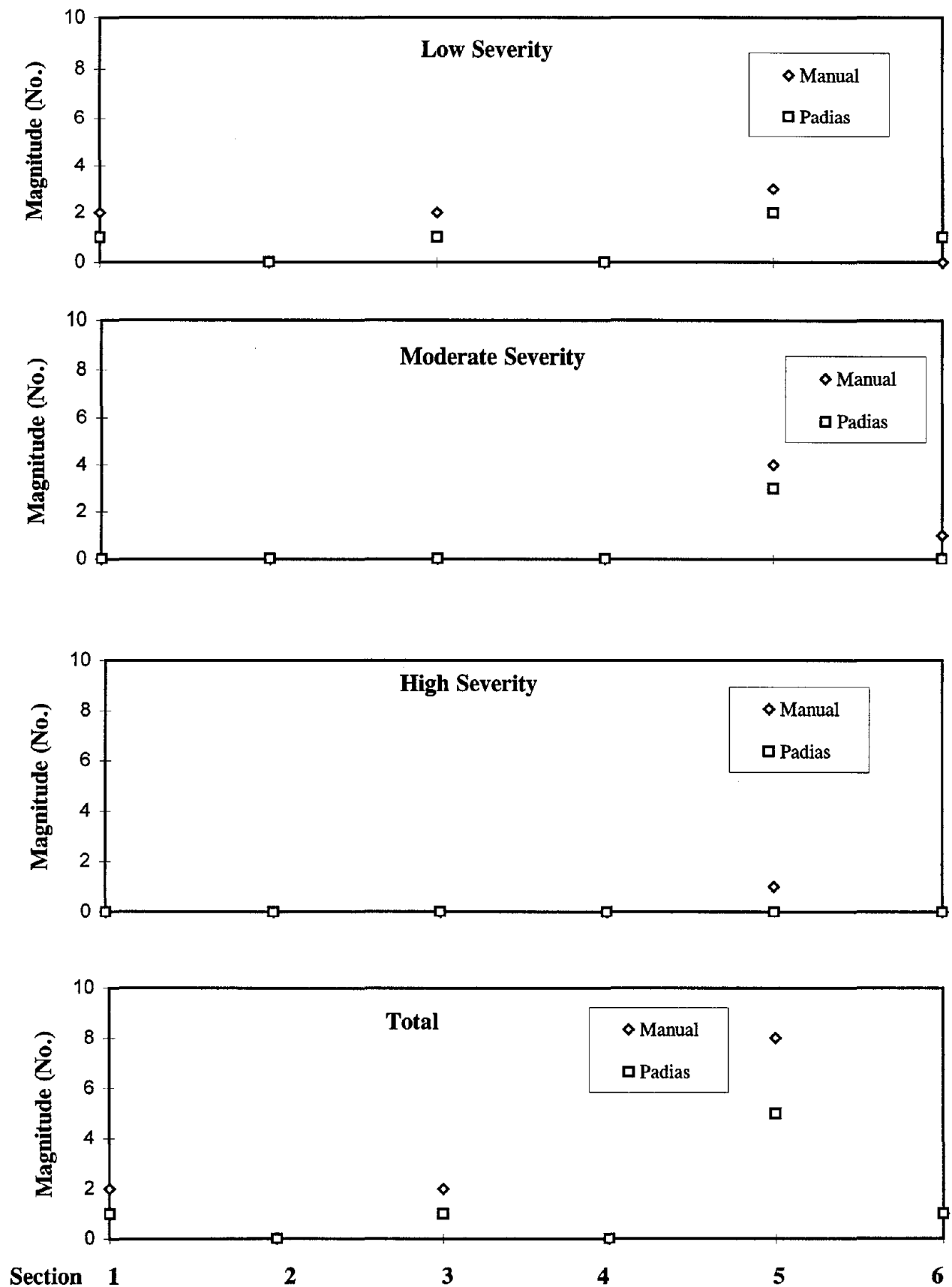
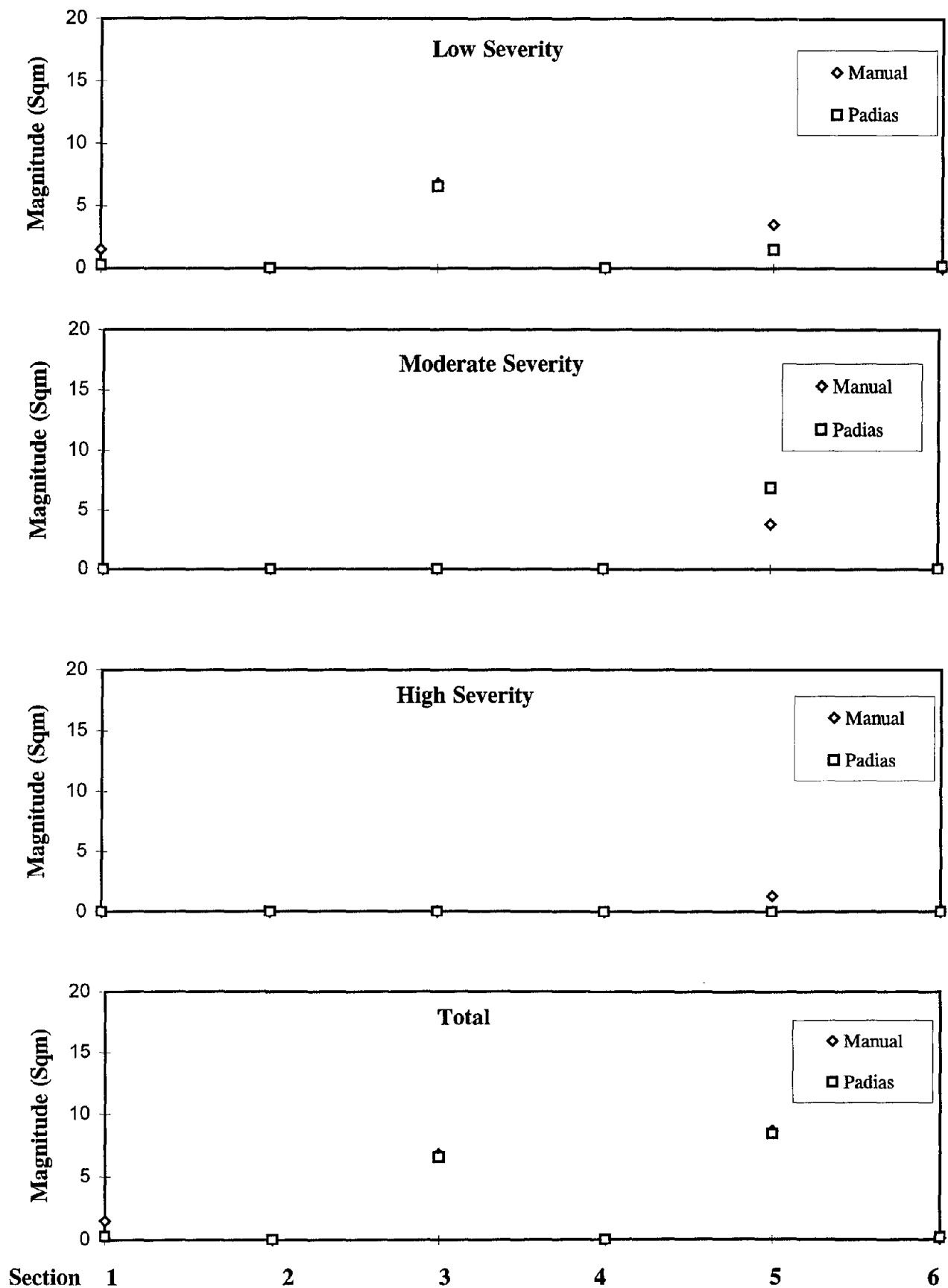


Figure 337. Patch/Patch Deterioration (No.) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).



**Figure 338. Patch/Patch Deterioration (Sq. Meters) - AC Pavements:
Manual (Reference) and PASCO/PADIAS (Consensus).**

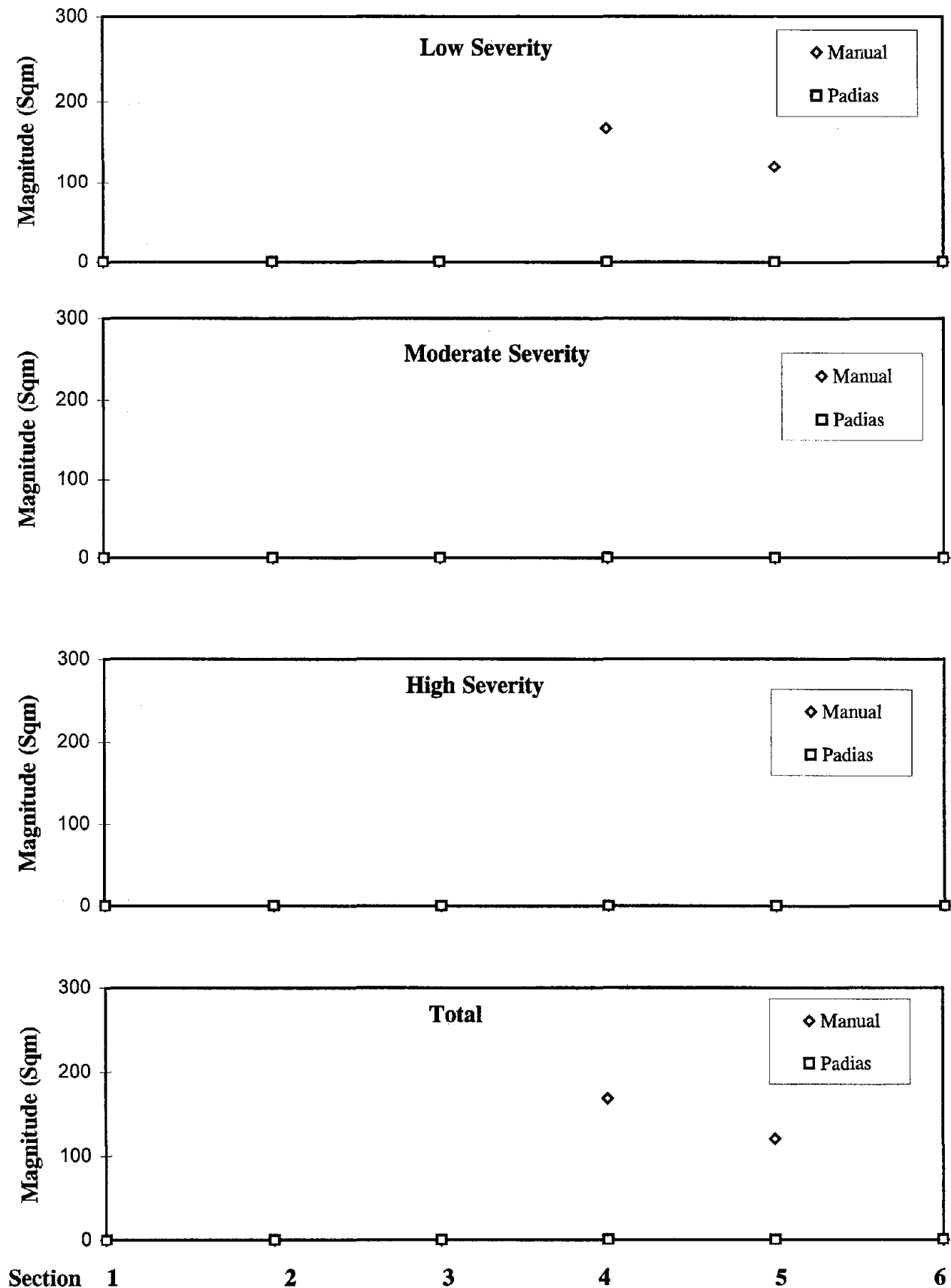


Figure 339. Bleeding (Sq. Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

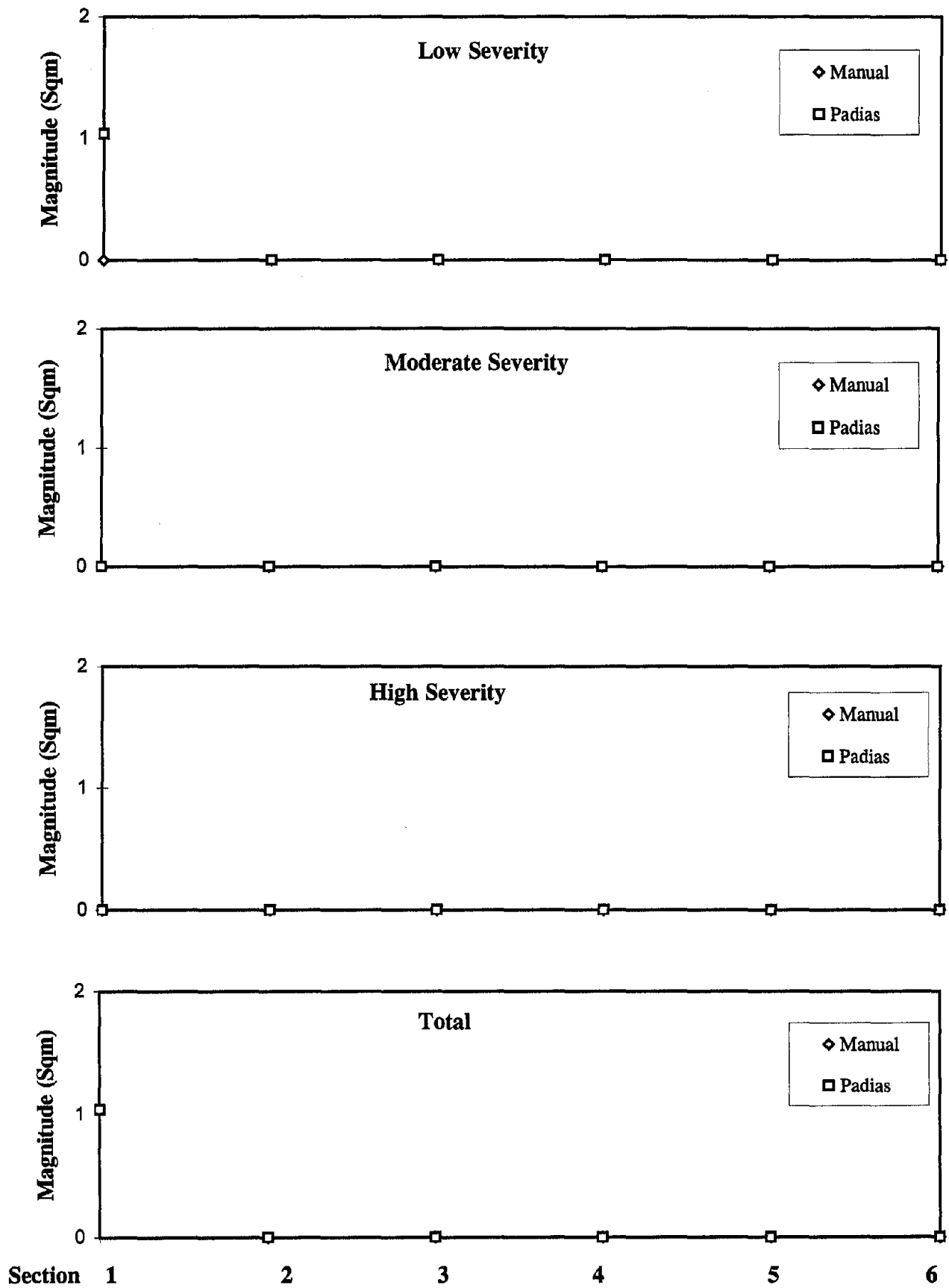
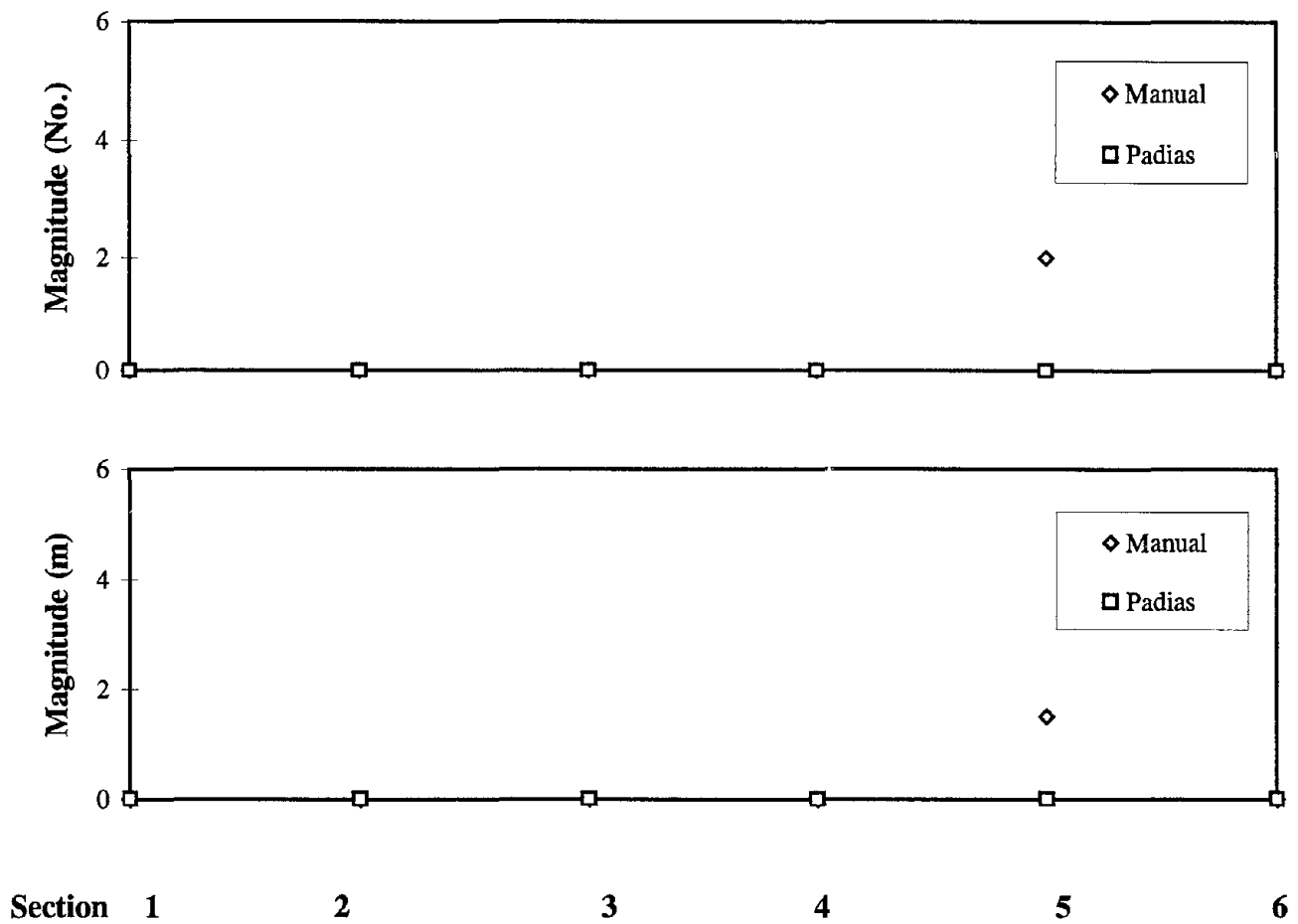


Figure 340. Raveling (Sq. Meters) - AC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).



**Figure 341. Water Bleeding and Pumping - AC Pavements:
Manual (Reference) and PASCO/PADIAS (Consensus).**

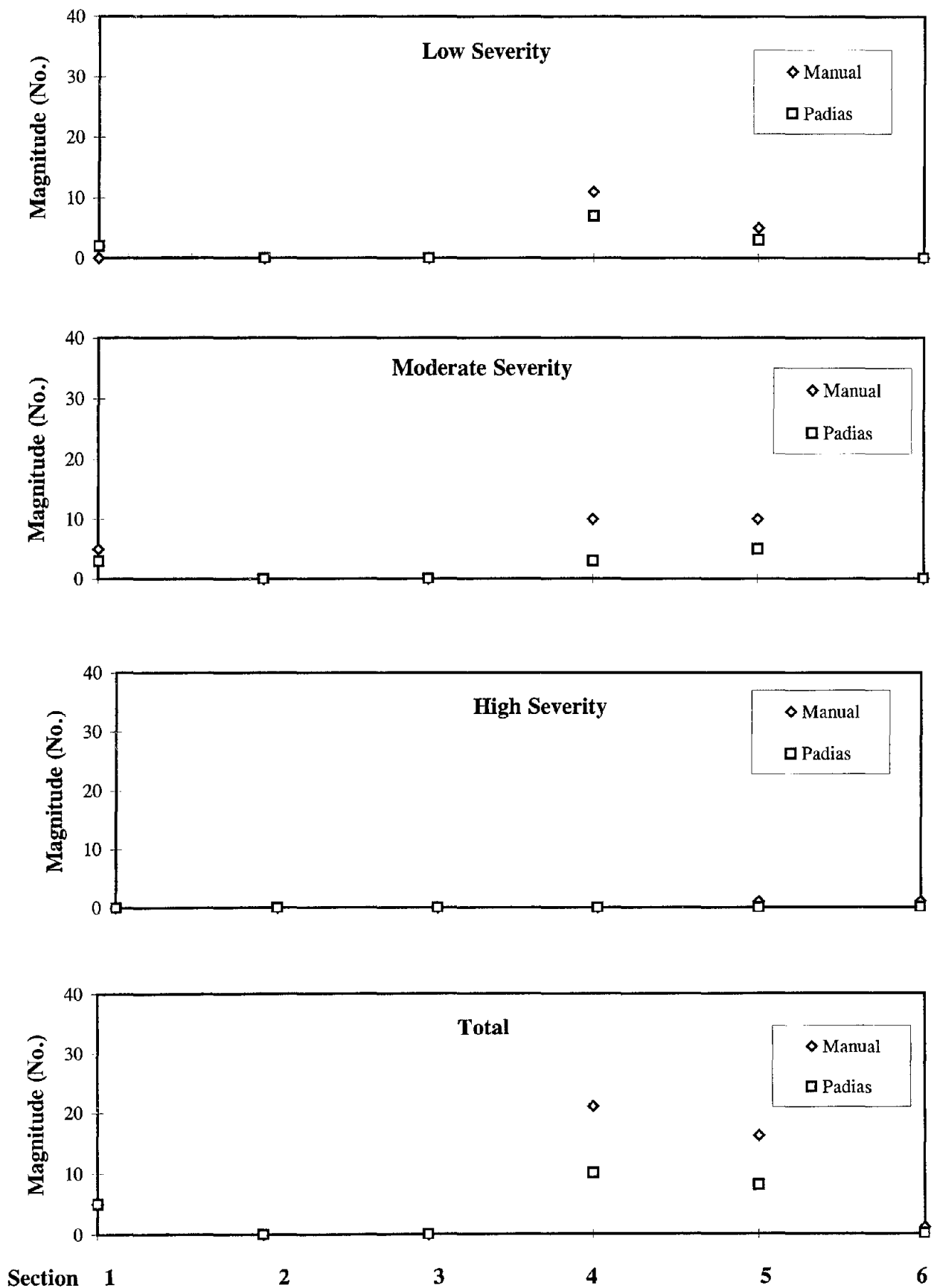


Figure 342. Corner Breaks (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

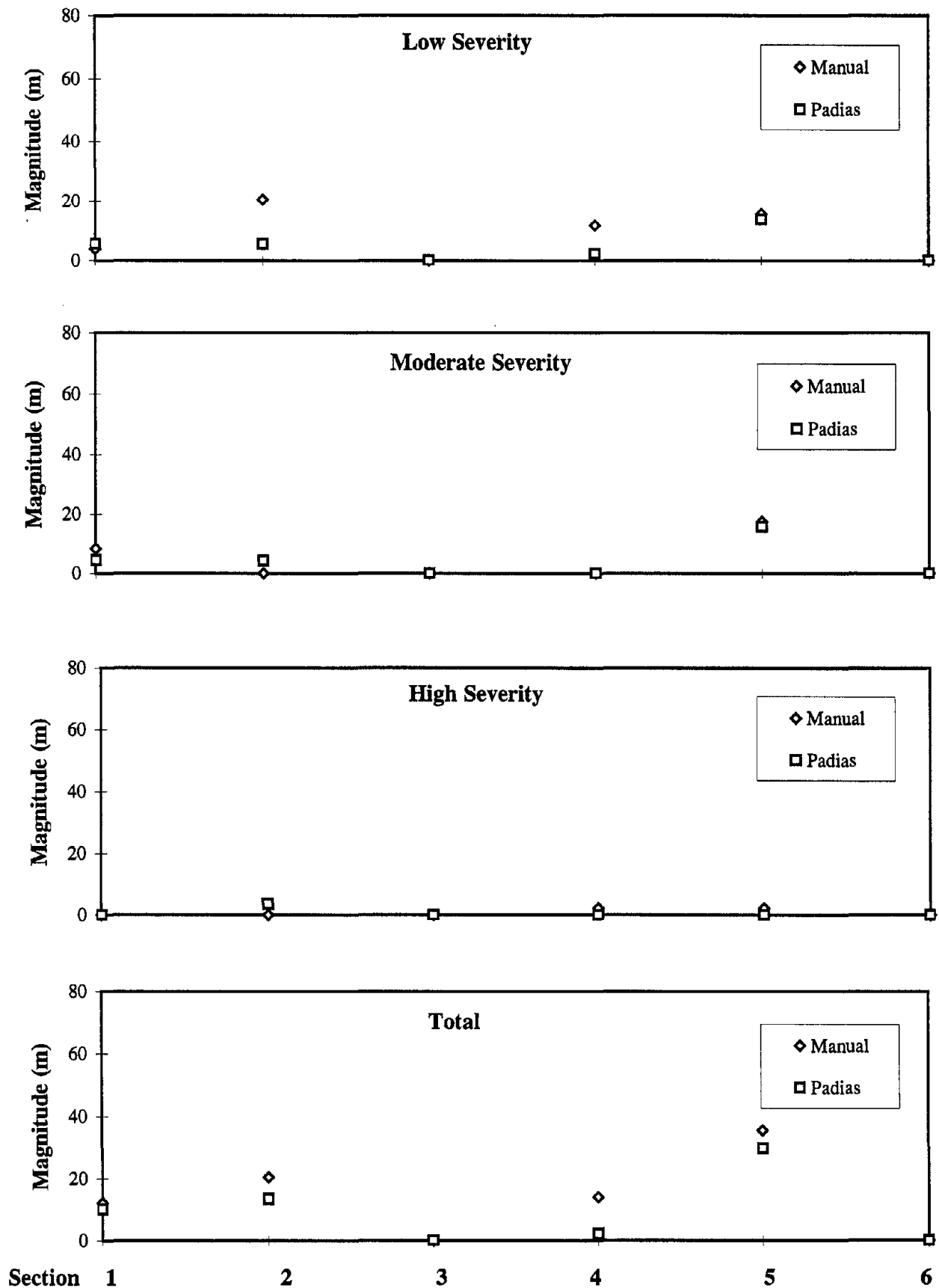


Figure 343. Longitudinal Cracking (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

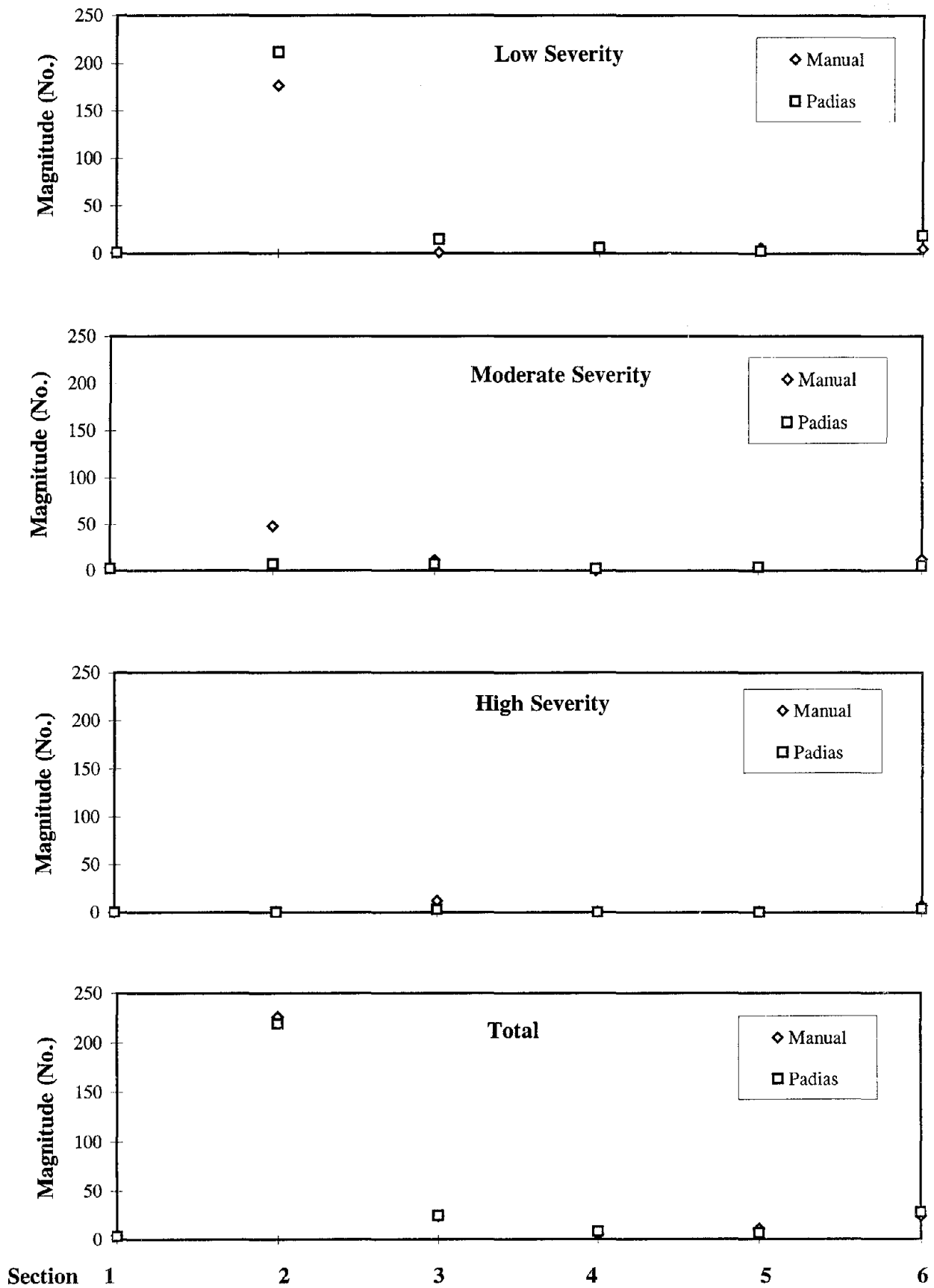


Figure 344. Transverse Cracking (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

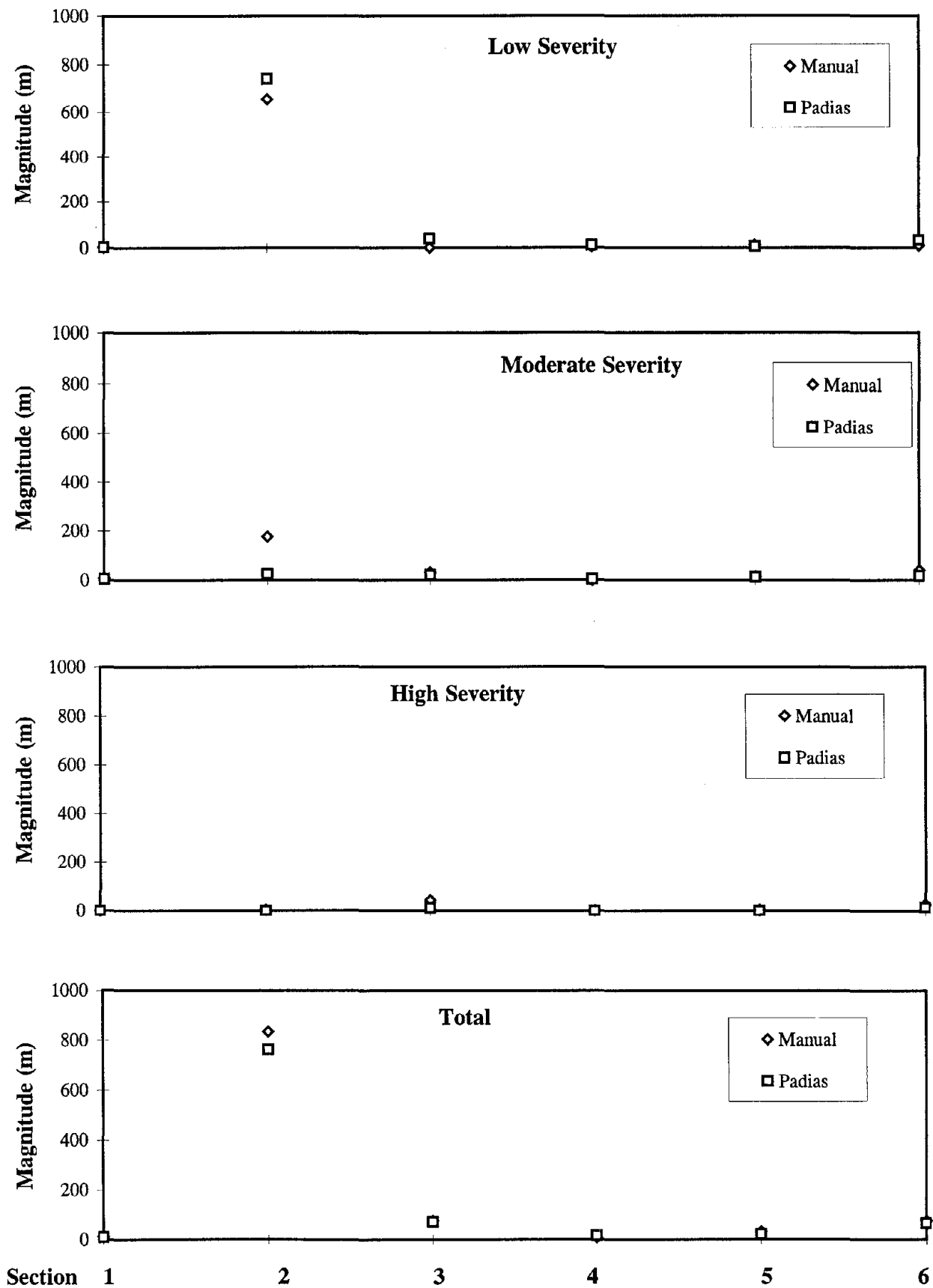


Figure 345. Transverse Cracking (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

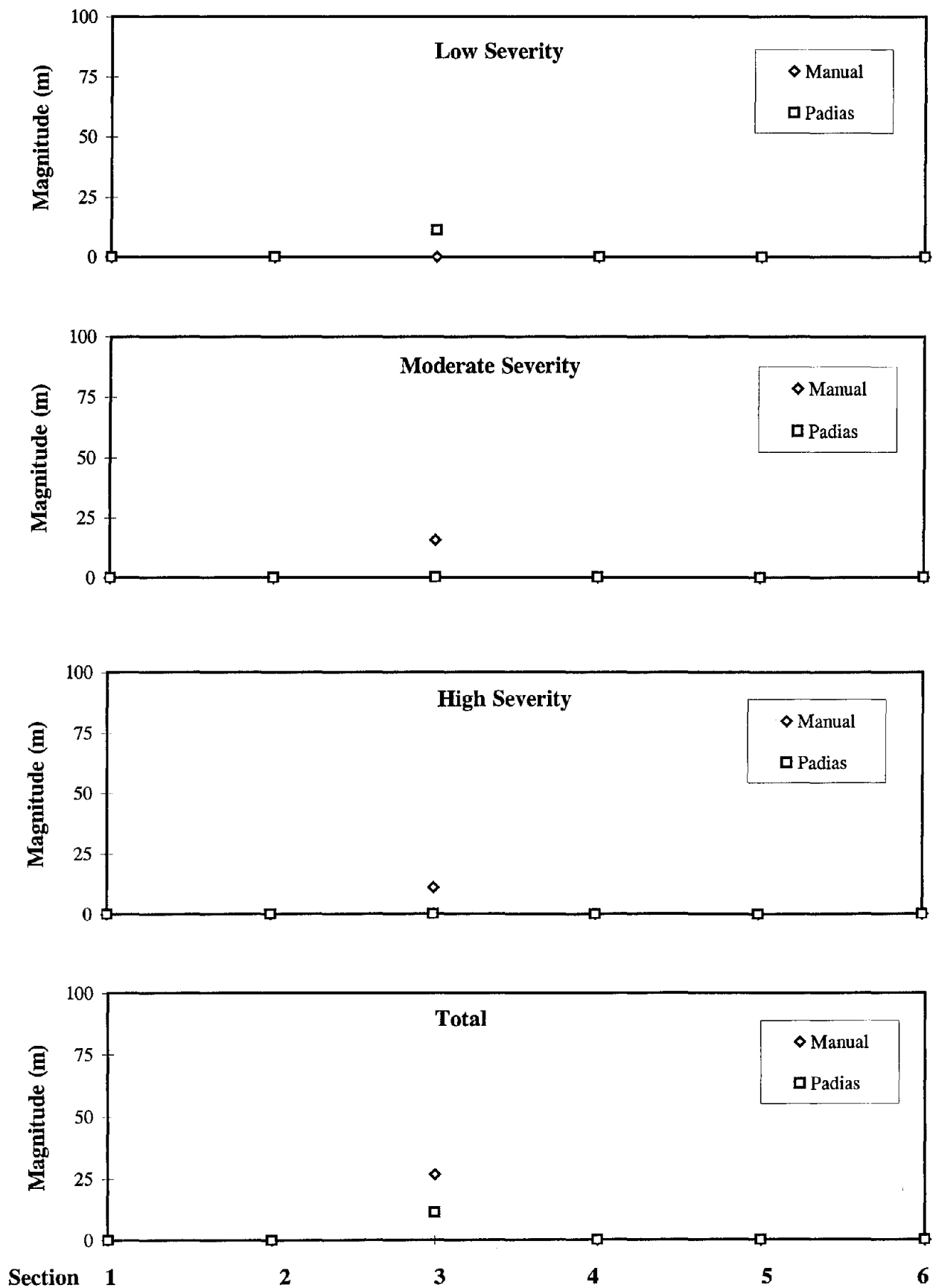


Figure 346. Transverse Cracking Sealed (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

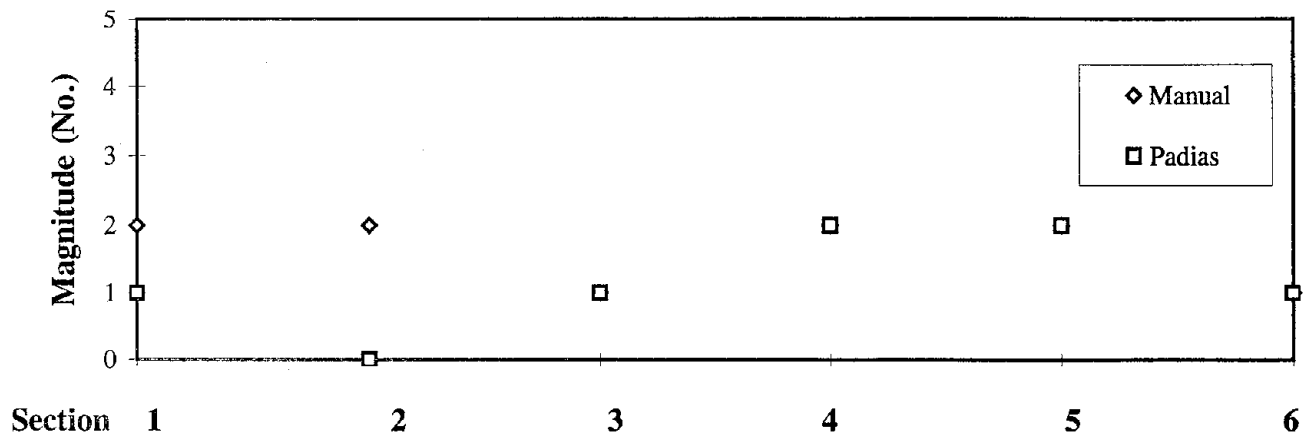


Figure 347. Longitudinal Joint Seal Damage (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

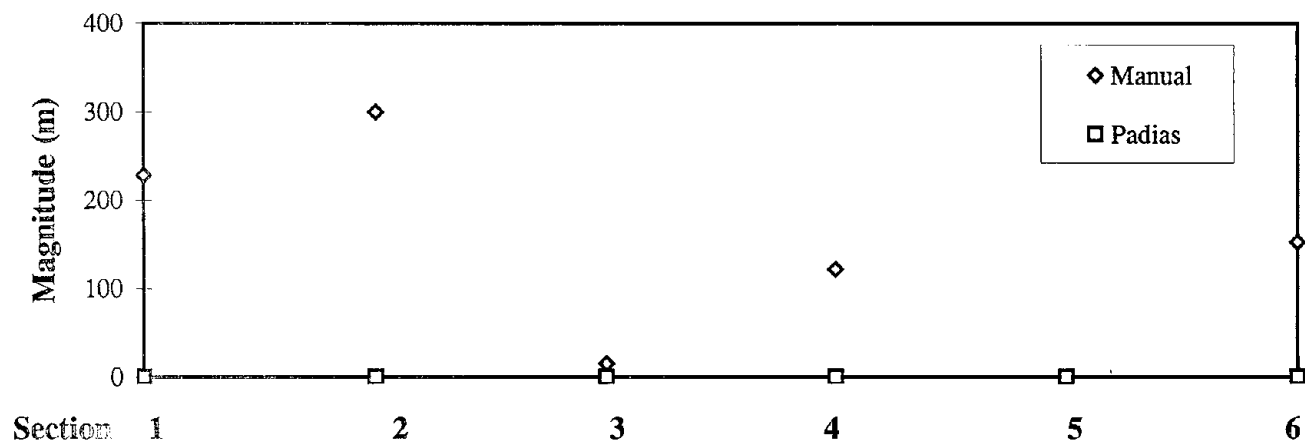


Figure 348. Longitudinal Joint Seal Damage (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

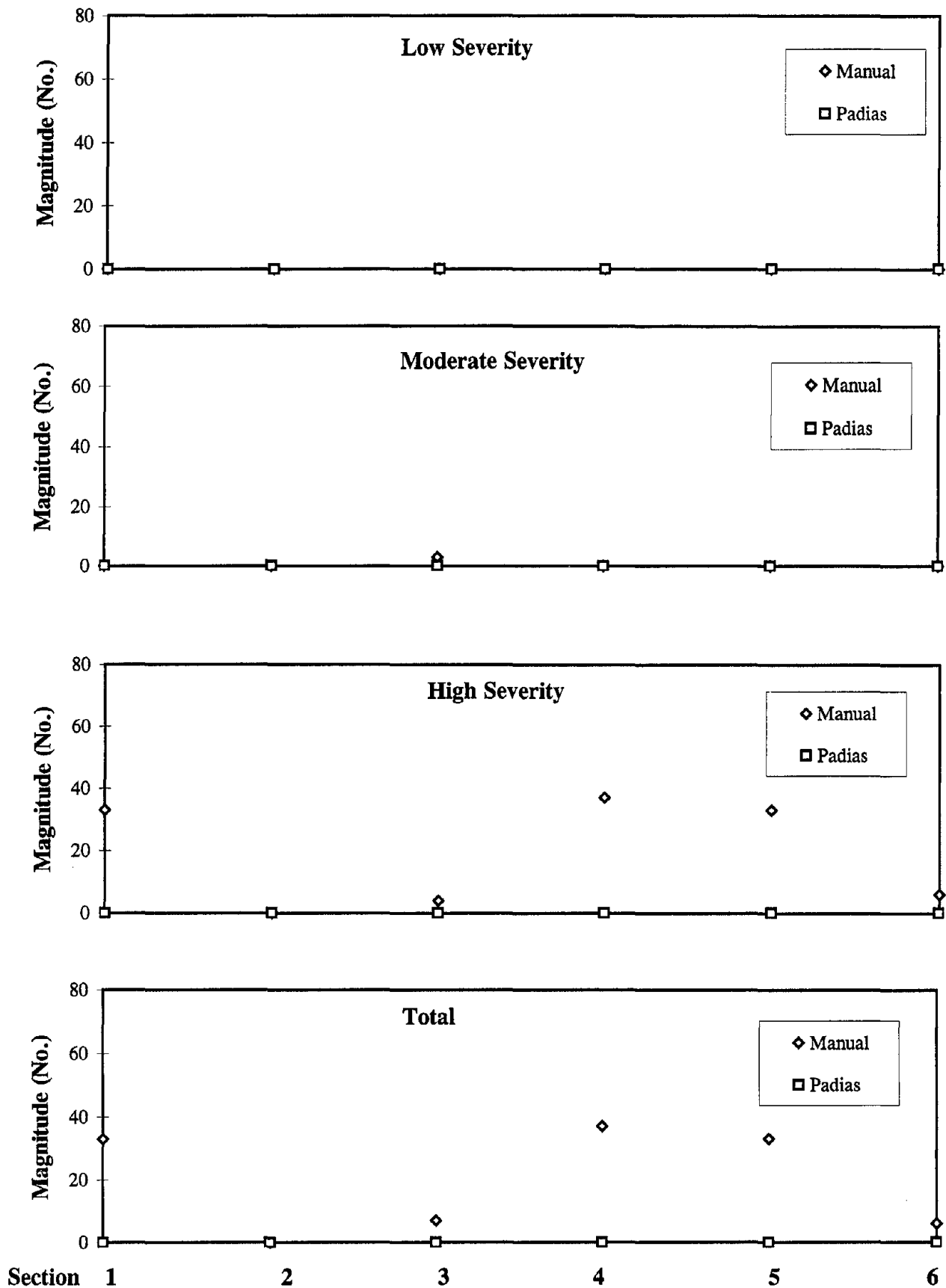


Figure 349. Transverse Joint Seal Damage (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

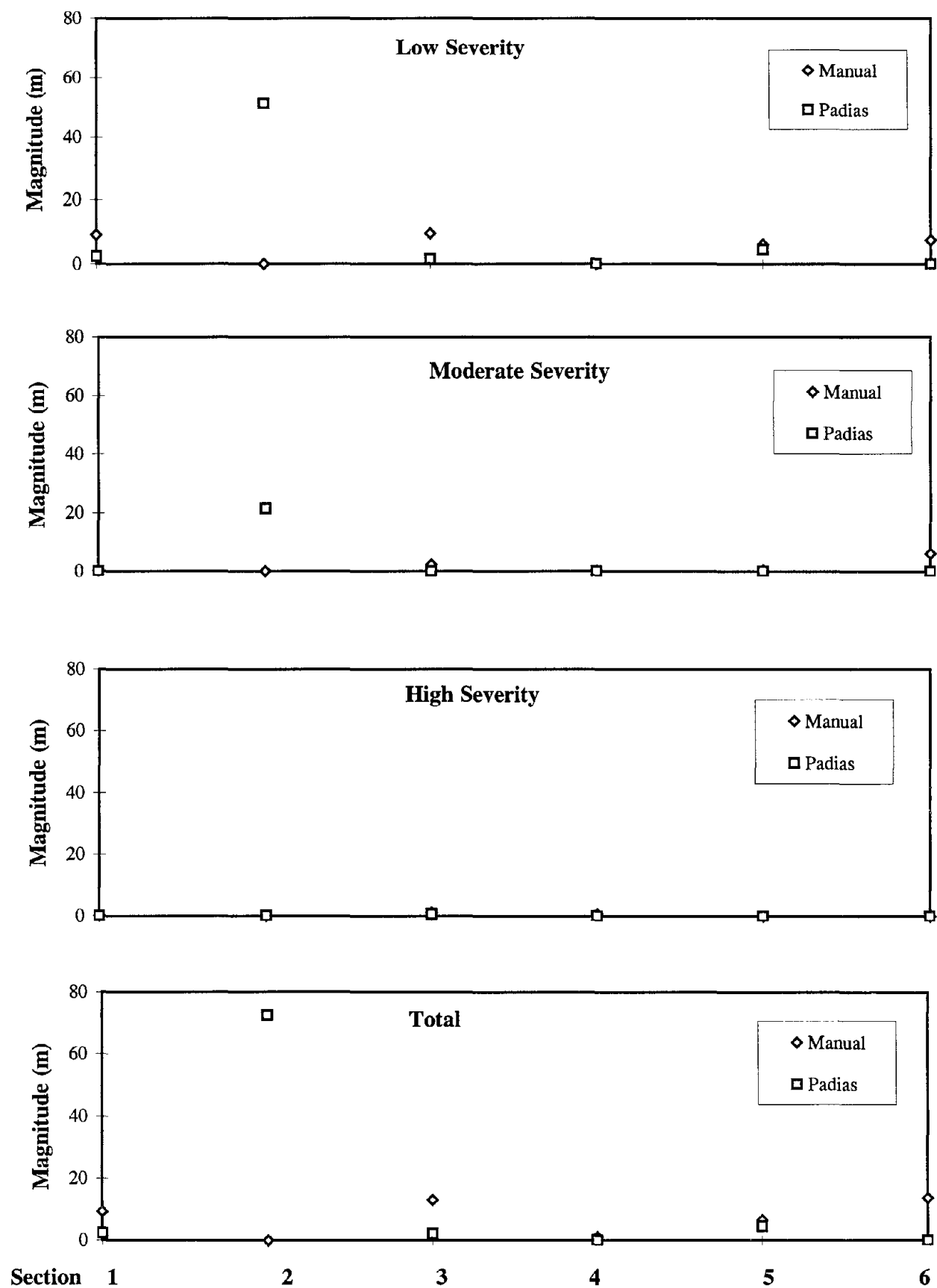


Figure 350. Spalling of Longitudinal Joints (Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).



Figure 351. Map Cracking (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

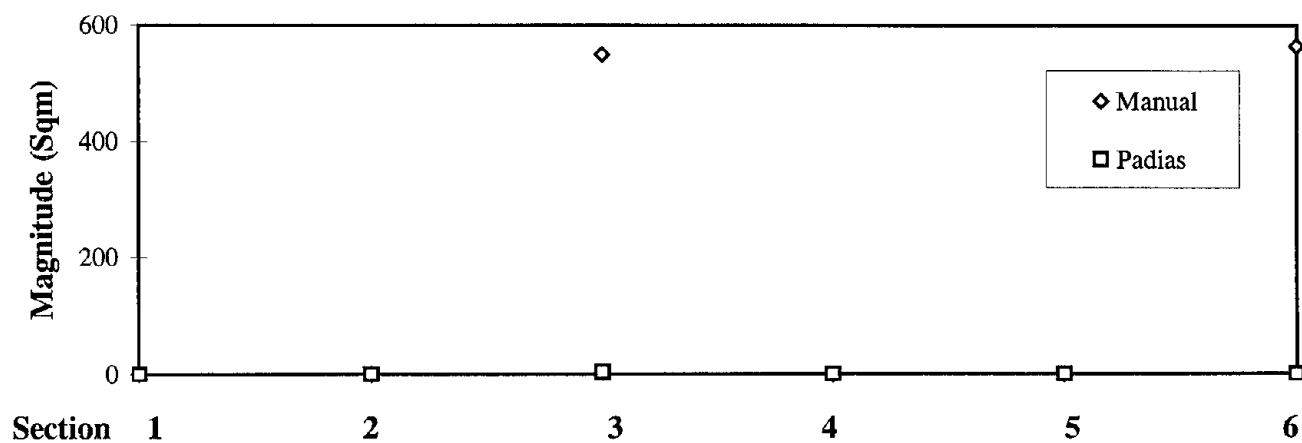


Figure 352. Map Cracking (Sq. Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

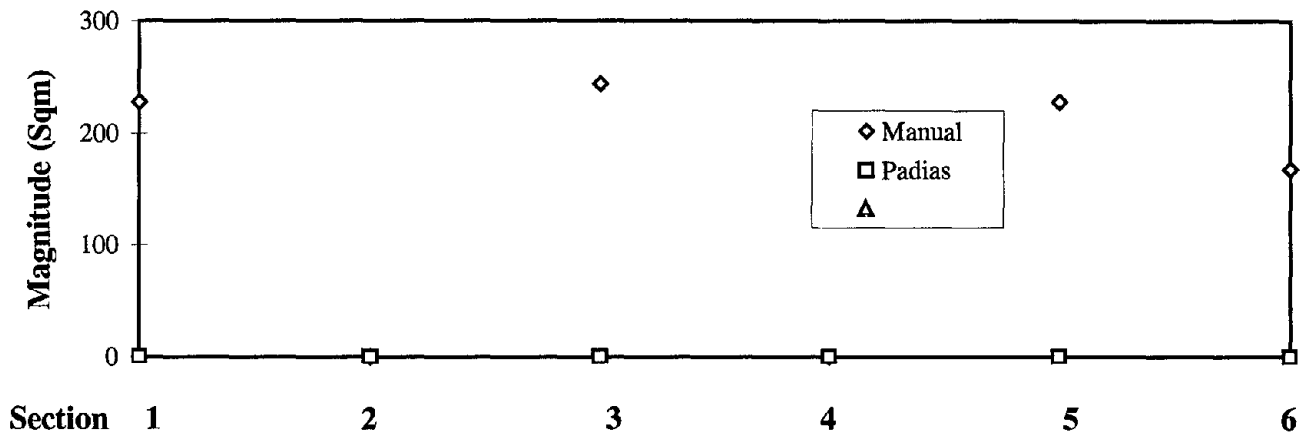


Figure 353. Polished Aggregates (Sq. Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).

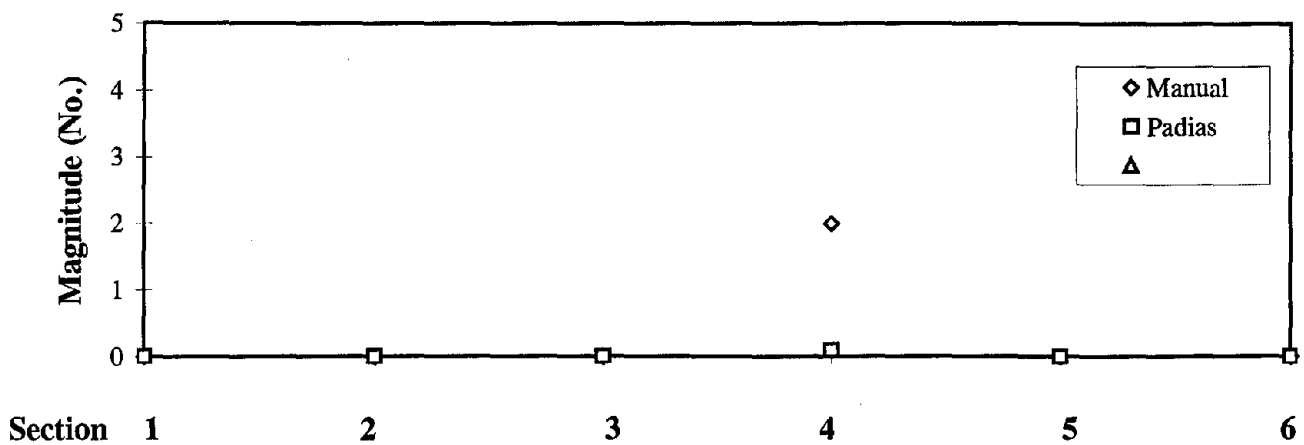
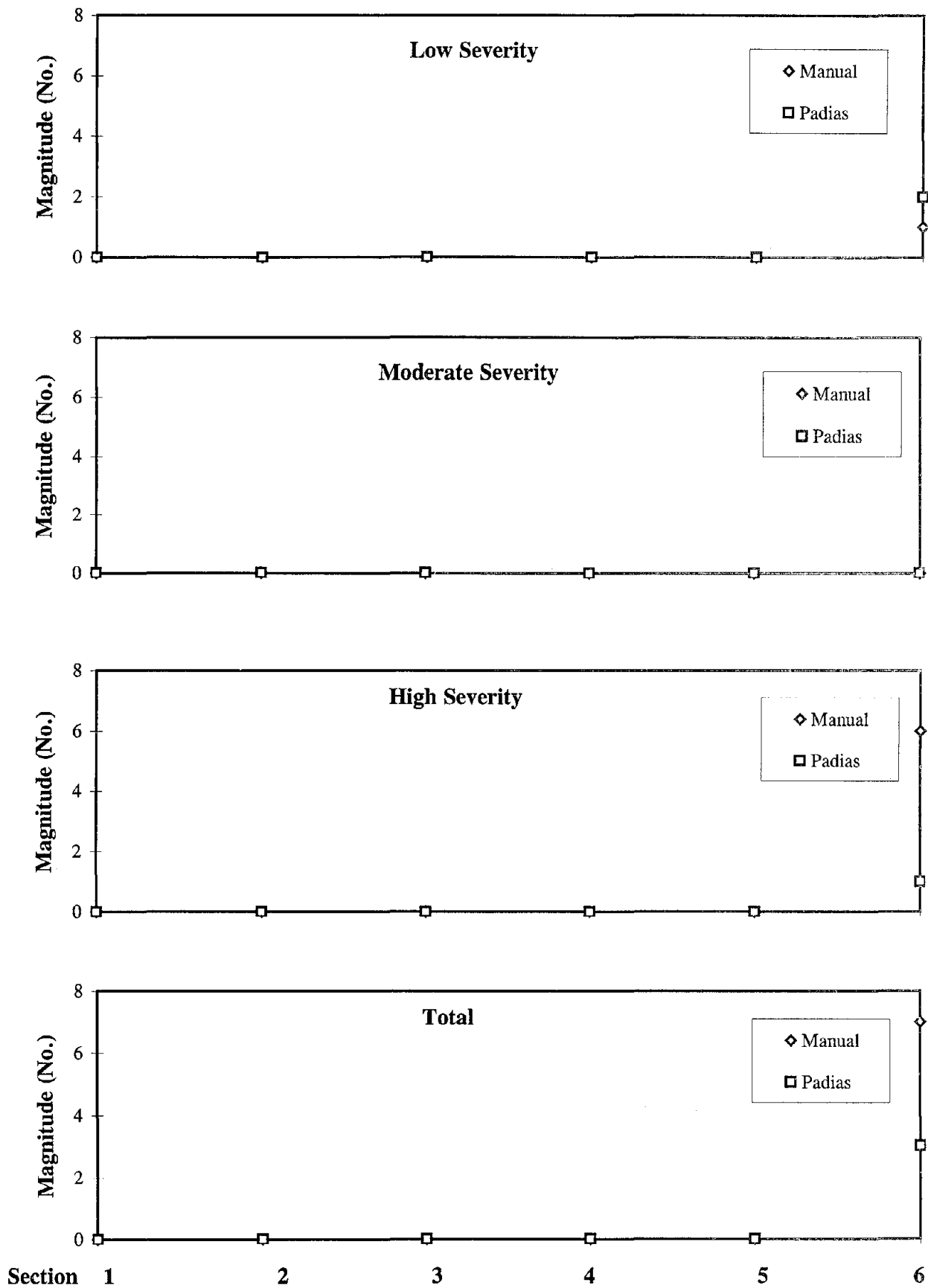


Figure 354. Popouts (No.) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).



**Figure 355. Patch/Patch Deterioration, Flexible (No.) - PCC Pavements:
Manual (Reference) and PASCO/PADIAS (Consensus).**

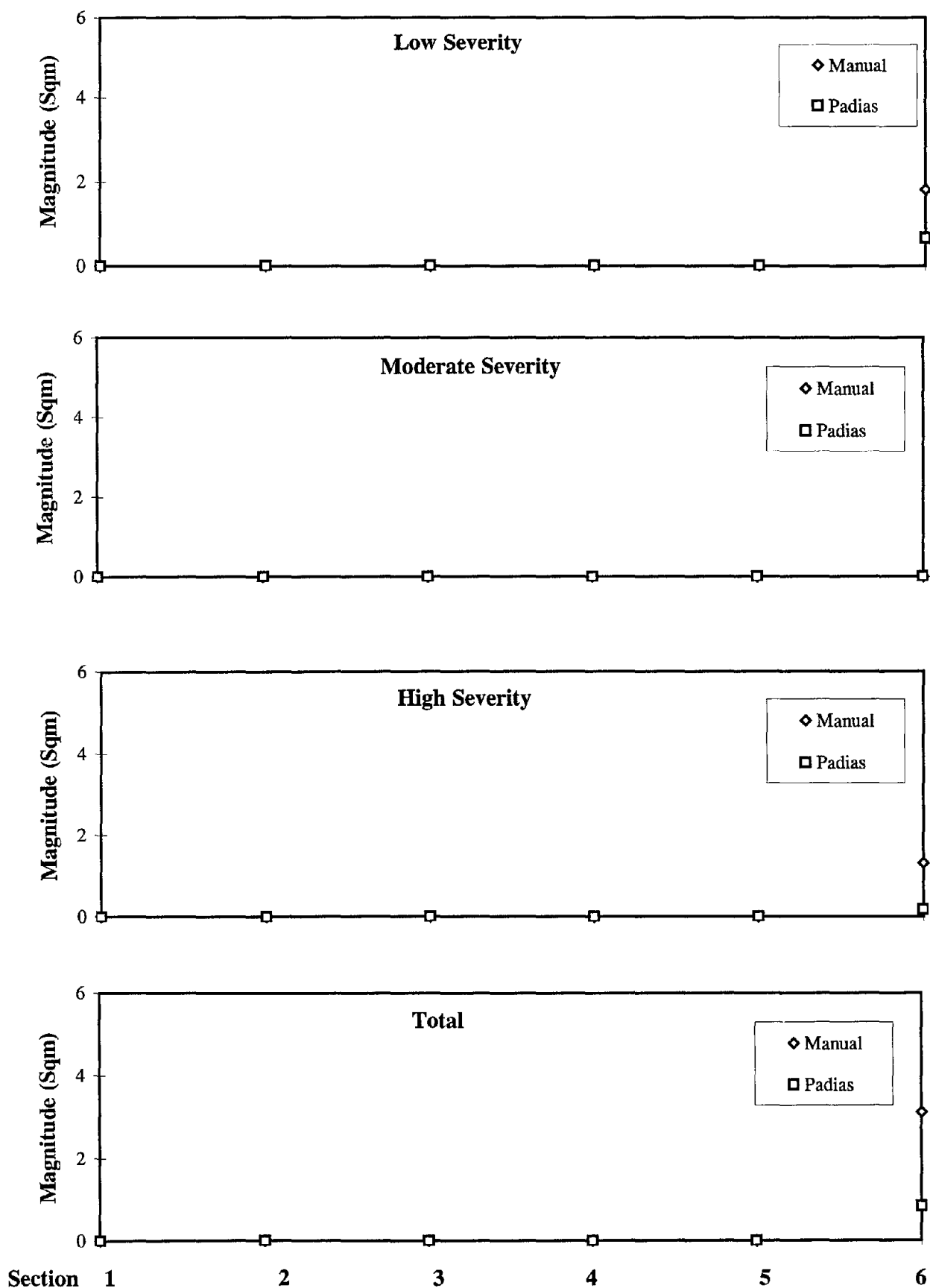
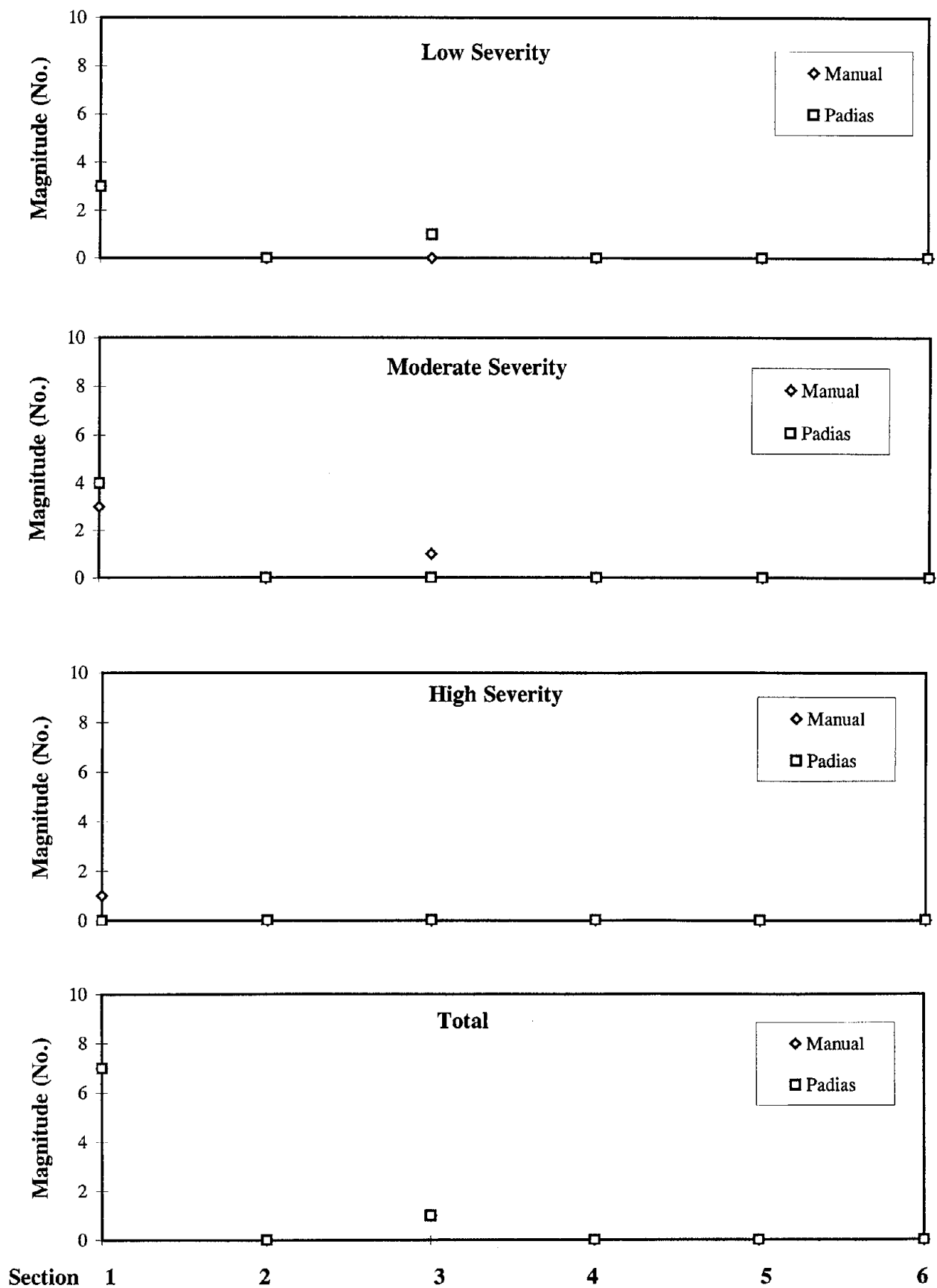
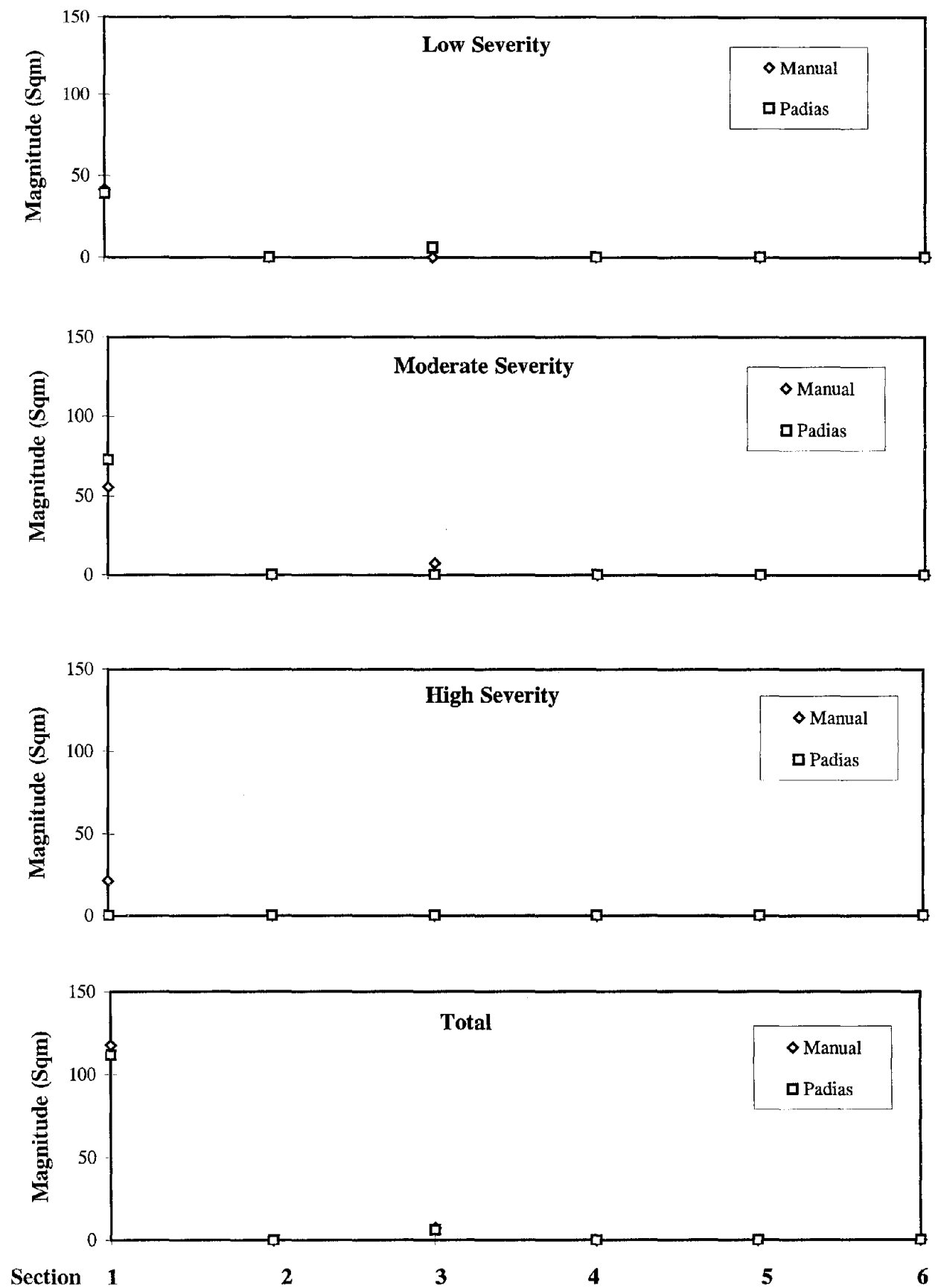


Figure 356. Patch/Patch Deterioration, Flexible (Sq. Meters) - PCC Pavements: Manual (Reference) and PASCO/PADIAS (Consensus).



**Figure 357. Patch/Patch Deterioration, Rigid (No.) - PCC Pavements:
Manual (Reference) and PASCO/PADIAS (Consensus).**



**Figure 358. Patch/Patch Deterioration, Rigid (Sq. Meters) - PCC Pavements:
Manual (Reference) and PASCO/PADIAS (Consensus).**