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Final Report

**SECOND PHASE STUDY OF CHANGES IN
IN-SERVICE ASPHALT
Volume II: Appendices**

**Khaled A. Galal
Thomas D. White
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Indiana
Department
of Transportation

Purdue
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**SECOND PHASE STUDY OF CHANGES IN IN-SERVICE ASPHALT
VOLUME II: APPENDICES**

By

Khaled A. Galal
Graduate Research Assistant

and

Thomas D. White*
Professor
and
Adam J. Hand
Assistant Professor

School of Civil Engineering
Purdue University

*Prof. White is now a faculty member at Mississippi State University

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APPENDICES

APPENDIX A

Stiffness of the Neat, RTFO, Mix, PAV, and In-service Asphalts

Table A-1 Neat, RTFO and Mix Stiffness Data for Project 14643

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	1.97E+05	5.12E+05
46	1.46E+04	1.48E+04	3.72E+04	4.51E+04	1.95E+05	1.93E+05
52	5.90E+03	5.85E+03	1.48E+04	1.81E+04	7.74E+04	7.90E+04
58	2.46E+03	2.53E+03	6.28E+03	7.15E+03	3.06E+04	3.20E+04
64	1.10E+03	1.10E+03	2.55E+03	3.18E+03	1.24E+04	1.36E+04
70	5.05E+02	5.07E+02	1.15E+03	1.33E+03	5.30E+03	5.93E+03
76	2.52E+02	2.53E+02	5.52E+02	6.05E+02	2.39E+03	2.71E+03
80	1.66E+02	1.66E+02	3.53E+02	3.85E+02	1.44E+03	1.59E+03

Table A-2 PAV and Average In-service Stiffness Data for Project 14643

Temp.	PAV			In-Service
	1	2	Average	Average
16	1.36E+07	1.54E+07	1.45E+07	1.75E+07
19	9.01E+06	1.01E+07	9.55E+06	1.28E+07
22	5.68E+06	6.55E+06	6.12E+06	8.71E+06
25	3.47E+06	4.04E+06	3.75E+06	5.72E+06
28	2.10E+06	2.49E+06	2.29E+06	3.69E+06
31	1.26E+06	1.55E+06	1.41E+06	2.36E+06

Table A-3 OWP In-service Stiffness Data for Project 14643

Temp.	In-service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	2.14E+07	2.26E+07	1.47E+07	1.54E+07
19	1.49E+07	1.57E+07	1.02E+07	1.07E+07
22	1.02E+07	1.08E+07	6.93E+06	7.26E+06
25	6.92E+06	7.19E+06	4.64E+06	4.81E+06
28	4.59E+06	4.72E+06	3.05E+06	3.12E+06
31	3.01E+06	3.06E+06	1.98E+06	2.01E+06

Table A-4 BWP In-service Stiffness Data for Project 14643

Temp.	In-service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	2.15E+06	2.25E+06	1.60E+07	1.65E+07
19	1.32E+06	1.39E+06	1.09E+07	1.15E+07
22	8.03E+05	8.34E+05	7.36E+06	7.69E+06
25	4.82E+05	4.95E+05	4.88E+06	5.04E+06
28	2.84E+05	2.90E+05	3.21E+06	3.27E+06
31	1.69E+05	1.72E+05	2.10E+06	2.13E+06

Table A-5 IWP In-service Stiffness Data for Project 14643

Temp.	In-service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	1.87E+07	1.94E+07	1.49E+07	1.51E+07
19	1.47E+07	1.55E+07	1.17E+07	1.21E+07
22	1.01E+07	1.06E+07	7.82E+06	8.29E+06
25	6.57E+06	6.91E+06	5.02E+06	5.25E+06
28	4.14E+06	4.30E+06	3.19E+06	3.30E+06
31	2.62E+06	2.69E+06	2.00E+06	2.04E+06

Table A-6 Neat, RTFO, and Mix Stiffness Data for Project 14643

	Neat	RTFO	Mix
Temp.	Average	Average	Average
40	-	-	3.55E+05
46	1.47E+04	4.12E+04	1.94E+05
52	5.88E+03	1.65E+04	7.82E+04
58	2.50E+03	6.72E+03	3.13E+04
64	1.10E+03	2.86E+03	1.30E+04
70	5.06E+02	1.24E+03	5.62E+03
76	2.53E+02	5.79E+02	2.55E+03
80	1.66E+02	3.69E+02	1.52E+03

Table A-7 Neat, RTFO and Mix Stiffness Data for Project 15165-a

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	-	-
46	-	-	-	-	1.79E+05	1.81E+05
52	8.84E+03	9.49E+03	2.25E+04	2.51E+04	6.88E+04	7.12E+04
58	3.95E+03	3.98E+03	9.75E+03	9.89E+03	2.68E+04	2.73E+04
64	1.79E+03	1.83E+03	4.67E+03	4.34E+03	1.06E+04	1.07E+04
70	8.55E+02	8.82E+02	2.23E+03	1.96E+03	4.48E+03	4.70E+03
76	-	-	-	-	2.02E+03	2.16E+03
80	-	-	-	-	-	-

Table A-8 PAV and Average In-service Stiffness Data for Project 15165-a

Temp.	PAV			In-service	
	1	2	3	Average	Average
16	8.28E+06	9.19E+06	6.37E+06	7.94E+06	4.20E+07
19	5.45E+06	6.07E+06	4.14E+06	5.22E+06	3.07E+07
22	3.53E+06	3.99E+06	2.71E+06	3.41E+06	2.23E+07
25	2.23E+06	2.57E+06	1.74E+06	2.18E+06	1.61E+07
28	1.44E+06	1.64E+06	1.10E+06	1.40E+06	1.14E+07
31	8.99E+05	1.04E+06	6.95E+05	8.80E+05	7.93E+06

Table A-9 OWP and In-service Stiffness Data for Project 15165-a

Temp.	In service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	4.22E+07	3.92E+07	7.66E+07	7.11E+07
19	3.07E+07	2.79E+07	5.72E+07	5.26E+07
22	2.19E+07	2.01E+07	4.27E+07	4.00E+07
25	1.54E+07	1.47E+07	3.14E+07	2.99E+07
28	1.06E+07	1.03E+07	2.28E+07	2.20E+07
31	7.38E+06	7.24E+06	1.63E+07	1.53E+07

Table A-10 BWP In-service Stiffness Data for Project 15165-a

Temp.	In service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	3.05E+07	2.92E+07	2.19E+07	2.14E+07
19	2.23E+07	2.11E+07	1.60E+07	1.55E+07
22	1.60E+07	1.54E+07	1.16E+07	1.13E+07
25	1.14E+07	1.11E+07	8.22E+06	8.02E+06
28	7.95E+06	7.62E+06	5.76E+06	5.77E+06
31	5.63E+06	5.34E+06	4.00E+06	4.07E+06

Table A-11 IWP In-service Stiffness Data for Project 15165-a

Temp.	In service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	5.41E+07	5.02E+07	3.55E+07	3.21E+07
19	3.90E+07	3.58E+07	2.56E+07	2.46E+07
22	2.78E+07	2.60E+07	1.82E+07	1.69E+07
25	1.95E+07	1.86E+07	1.28E+07	1.23E+07
28	1.35E+07	1.31E+07	8.87E+06	8.65E+06
31	9.21E+06	8.66E+06	6.07E+06	5.95E+06

Table A-12 Neat, RTFO, and Mix Stiffness Data for Project 15165-a

Temp.	Neat	RTFO	Mix
	Average	Average	Average
40	-	-	-
46	-	-	1.80E+05
52	9.16E+03	2.38E+04	7.00E+04
58	3.97E+03	9.82E+03	2.71E+04
64	1.81E+03	4.50E+03	1.07E+04
70	8.68E+02	2.10E+03	4.59E+03
76	-	-	2.09E+03
80	-	-	-

Table A-13 Neat, RTFO and Mix Stiffness Data for Project 15165-al

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	5.68E+05	3.83E+05
46	-	-	-	-	2.83E+05	2.36E+05
52	8.84E+03	9.49E+03	2.25E+04	2.51E+04	1.30E+05	1.06E+05
58	3.95E+03	3.98E+03	9.75E+03	9.89E+03	5.93E+04	4.74E+04
64	1.79E+03	1.83E+03	4.67E+03	4.34E+03	2.74E+04	2.14E+04
70	8.55E+02	8.82E+02	2.23E+03	1.96E+03	1.27E+04	9.79E+03
76	-	-	-	-	6.00E+03	4.63E+03
80	-	-	-	-	3.70E+03	2.87E+03

Table A-14 PAV Average In-service Stiffness Data for Project 15165-al

Temp.	PAV				In-service
	1	2	3	Average	Average
16	8.28E+06	9.19E+06	6.37E+06	7.94E+06	2.63E+07
19	5.45E+06	6.07E+06	4.14E+06	5.22E+06	1.96E+07
22	3.53E+06	3.99E+06	2.71E+06	3.41E+06	1.48E+07
25	2.23E+06	2.57E+06	1.74E+06	2.18E+06	1.06E+07
28	1.44E+06	1.64E+06	1.10E+06	1.40E+06	7.48E+06
31	8.99E+05	1.04E+06	6.95E+05	8.80E+05	5.16E+06

Table A-15 OWP In-service Stiffness Data for Project 15165-al

Temp.	In service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	4.71E+07	-	4.81E+07	-
19	3.44E+07	-	3.51E+07	-
22	2.49E+07	-	2.51E+07	-
25	1.78E+07	-	1.78E+07	-
28	1.24E+07	-	1.23E+07	-
31	8.59E+06	-	8.34E+06	-

Table A-16 BWP In-service Stiffness Data for Project 15165-al

Temp.	In service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	2.58E+07	-	1.11E+07	-
19	1.85E+07	-	7.79E+06	-
22	1.31E+07	-	5.39E+06	-
25	9.22E+06	-	3.71E+06	-
28	6.32E+06	-	2.57E+06	-
31	4.24E+06	-	1.76E+06	-

Table A-17 IWP In-service Stiffness Data for Project 15165-al

Temp.	In service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	1.53E+06	-	2.42E+07	-
19	4.22E+06	-	1.74E+07	-
22	7.86E+06	-	1.24E+07	-
25	6.85E+06	-	8.59E+06	-
28	5.38E+06	-	5.86E+06	-
31	4.13E+06	-	3.92E+06	-

Table A-18 Neat, RTFO, and Mix Stiffness Data for Project 15165-al

	Neat	RTFO	Mix
Temp.	Average	Average	Average
40	-	-	4.76E+05
46	-	-	2.59E+05
52	9.16E+03	2.38E+04	1.18E+05
58	3.97E+03	9.82E+03	5.33E+04
64	1.81E+03	4.50E+03	2.44E+04
70	8.68E+02	2.10E+03	1.12E+04
76	-	-	5.31E+03
80	-	-	3.28E+03

Table A-19 Neat, RTFO and Mix Stiffness Data for Project 15165-b

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	4.01E+05	-
46	-	-	-	-	1.74E+05	-
52	8.84E+03	9.49E+03	2.25E+04	2.51E+04	6.63E+04	-
58	3.95E+03	3.98E+03	9.75E+03	9.89E+03	2.65E+04	-
64	1.79E+03	1.83E+03	4.67E+03	4.34E+03	1.05E+04	-
70	8.55E+02	8.82E+02	2.23E+03	1.96E+03	4.43E+03	-
76	-	-	-	-	1.96E+03	-
80	-	-	-	-	1.30E+03	-

Table A-20 PAV and Average In-service Stiffness Data for Project 15165-b

Temp.	PAV				In-service
	1	2	3	Average	Average
16	8.28E+06	9.19E+06	6.37E+06	7.94E+06	4.35E+07
19	5.45E+06	6.07E+06	4.14E+06	5.22E+06	3.18E+07
22	3.53E+06	3.99E+06	2.71E+06	3.41E+06	2.30E+07
25	2.23E+06	2.57E+06	1.74E+06	2.18E+06	1.65E+07
28	1.44E+06	1.64E+06	1.10E+06	1.40E+06	1.16E+07
31	8.99E+05	1.04E+06	6.95E+05	8.80E+05	8.10E+06

Table A-21 OWP In-service Stiffness Data for Project 15165-b

Temp.	In service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	4.22E+07	-	7.66E+07	-
19	3.07E+07	-	5.72E+07	-
22	2.19E+07	-	4.27E+07	-
25	1.54E+07	-	3.14E+07	-
28	1.06E+07	-	2.28E+07	-
31	7.38E+06	-	1.63E+07	-

Table A-22 BWP In-service Stiffness Data for Project 15165-b

Temp.	In service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	5.41E+07	-	3.55E+07	-
19	3.90E+07	-	2.56E+07	-
22	2.78E+07	-	1.82E+07	-
25	1.95E+07	-	1.28E+07	-
28	1.35E+07	-	8.87E+06	-
31	9.21E+06	-	6.07E+06	-

Table A-23 BWP In-service Stiffness Data for Project 15165-b

Temp.	In service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	3.05E+07	-	2.19E+07	-
19	2.23E+07	-	1.60E+07	-
22	1.60E+07	-	1.16E+07	-
25	1.14E+07	-	8.22E+06	-
28	7.95E+06	-	5.76E+06	-
31	5.63E+06	-	4.00E+06	-

Table A-24 Neat, RTFO, and Mix Stiffness Data for Project 15165-b

	Neat	RTFO	Mix
Temp.	Average	Average	Average
40	-	-	4.01E+05
46	-	-	1.74E+05
52	9.16E+03	2.38E+04	6.63E+04
58	3.97E+03	9.82E+03	2.65E+04
64	1.81E+03	4.50E+03	1.05E+04
70	8.68E+02	2.10E+03	4.43E+03
76	-	-	1.96E+03
80	-	-	1.30E+03

Table A-25 Neat, RTFO and Mix Stiffness Data for Project 15165-b1

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	4.69E+05	4.63E+05
46	-	-	-	-	2.15E+05	2.27E+05
52	8.84E+03	9.49E+03	2.25E+04	2.51E+04	9.63E+04	1.02E+05
58	3.95E+03	3.98E+03	9.75E+03	9.89E+03	4.38E+04	4.57E+04
64	1.79E+03	1.83E+03	4.67E+03	4.34E+03	2.00E+04	2.05E+04
70	8.55E+02	8.82E+02	2.23E+03	1.96E+03	9.22E+03	9.40E+03
76	-	-	-	-	4.38E+03	4.41E+03
80	-	-	-	-	2.73E+03	2.74E+03

Table A-26 PAV and Average In-service Stiffness Data for Project 15165-b1

Temp.	PAV				In-service
	1	2	3	Average	Average
16	8.28E+06	9.19E+06	6.37E+06	7.94E+06	4.88E+07
19	5.45E+06	6.07E+06	4.14E+06	5.22E+06	3.57E+07
22	3.53E+06	3.99E+06	2.71E+06	3.41E+06	2.55E+07
25	2.23E+06	2.57E+06	1.74E+06	2.18E+06	1.79E+07
28	1.44E+06	1.64E+06	1.10E+06	1.40E+06	1.24E+07
31	8.99E+05	1.04E+06	6.95E+05	8.80E+05	8.36E+06

Table A-27 OWP In-service Stiffness Data for Project 15165-b1

Temp.	In service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	6.79E+07	-	5.37E+07	-
19	5.03E+07	-	3.97E+07	-
22	3.65E+07	-	2.82E+07	-
25	2.60E+07	-	1.97E+07	-
28	1.81E+07	-	1.36E+07	-
31	1.25E+07	-	9.13E+06	-

Table A-28 IWP In-service Stiffness Data for Project 15165-b1

Temp.	In service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	-	-	2.75E+07	-
19	-	-	2.00E+07	-
22	-	-	1.45E+07	-
25	-	-	1.00E+07	-
28	-	-	6.90E+06	-
31	-	-	4.59E+06	-

Table A-29 BWP In-service Stiffness Data for Project 15165-b1

Temp.	In service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	-	-	4.60E+07	-
19	-	-	3.30E+07	-
22	-	-	2.30E+07	-
25	-	-	1.60E+07	-
28	-	-	1.08E+07	-
31	-	-	7.17E+06	-

Table A-30 Neat, RTFO, and Mix Stiffness Data for Project 15165-b1

Temp.	Neat	RTFO	Mix
	Average	Average	Average
40	-	-	4.66E+05
46	-	-	2.21E+05
52	9.16E+03	2.38E+04	9.91E+04
58	3.97E+03	9.82E+03	4.47E+04
64	1.81E+03	4.50E+03	2.02E+04
70	8.68E+02	2.10E+03	9.31E+03
76	-	-	4.40E+03
80	-	-	2.73E+03

Table A-31 Neat, RTFO and Mix Stiffness Data for Project 15308

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	-	-
46	-	-	-	-	1.68E+05	1.74E+05
52	6.37E+03	6.69E+03	1.82E+04	1.91E+04	-	-
58	2.69E+03	2.83E+03	7.39E+03	7.77E+03	-	-
64	1.18E+03	1.22E+03	3.11E+03	3.27E+03	-	-
70	5.52E+02	5.68E+02	1.34E+03	1.41E+03	-	-
76	-	-	-	-	1.50E+03	1.52E+03
80	-	-	-	-	-	-

Table A-32 PAV and Average In-service Stiffness Data for Project 15308

Temp.	PAV		Average	In service
	1	2		
			Average	Average
16	2.37E+07	2.16E+07	2.27E+07	4.69E+07
19	1.61E+07	1.47E+07	1.54E+07	3.46E+07
22	1.07E+07	9.75E+06	1.02E+07	2.51E+07
25	7.09E+06	6.49E+06	6.79E+06	1.80E+07
28	4.56E+06	4.17E+06	4.36E+06	1.27E+07
31	2.87E+06	2.63E+06	2.75E+06	8.84E+06

Table A-33 OWP In-service Stiffness Data for Project 15308

Temp.	In service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	4.55E+07	4.78E+07	5.39E+07	5.71E+07
19	3.29E+07	3.46E+07	4.12E+07	4.31E+07
22	2.39E+07	2.48E+07	2.99E+07	3.09E+07
25	1.67E+07	1.72E+07	2.24E+07	2.29E+07
28	1.15E+07	1.17E+07	1.67E+07	1.69E+07
31	7.81E+06	7.92E+06	1.20E+07	1.21E+07

Table A-34 IWP In-service Stiffness Data for Project 15308

Temp.	In service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	4.20E+07	4.45E+07	3.67E+07	3.85E+07
19	3.05E+07	3.19E+07	2.59E+07	2.72E+07
22	2.19E+07	2.26E+07	1.86E+07	1.93E+07
25	1.53E+07	1.56E+07	1.35E+07	1.39E+07
28	1.04E+07	1.06E+07	9.29E+06	9.46E+06
31	7.04E+06	7.11E+06	6.71E+06	6.81E+06

Table A-35 BWP In-service Stiffness Data for Project 15308

Temp.	In service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	3.86E+07	4.06E+07	5.74E+07	6.04E+07
19	2.82E+07	2.97E+07	4.38E+07	4.60E+07
22	2.02E+07	2.12E+07	3.28E+07	3.44E+07
25	1.42E+07	1.47E+07	2.42E+07	2.51E+07
28	9.81E+06	1.00E+07	1.76E+07	1.80E+07
31	6.62E+06	6.75E+06	1.25E+07	1.27E+07

Table A-36 Neat, RTFO, and Mix Stiffness Data for Project 15308

	Neat	RTFO	Mix
Temp.	Average	Average	Average
40	-	-	-
46	-	-	1.71E+05
52	6.53E+03	1.87E+04	6.01E+04
58	2.76E+03	7.58E+03	2.21E+04
64	1.20E+03	3.19E+03	9.06E+03
70	5.60E+02	1.37E+03	3.50E+03
76	-	-	1.51E+03
80	-	-	-

Table A-37 Neat, RTFO and Mix Stiffness Data for Project 15502

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	4.09E+05	3.39E+05
46	-	-	-	-	1.41E+05	1.58E+05
52	6.74E+03	6.89E+03	1.54E+04	1.41E+04	4.95E+04	4.60E+04
58	2.73E+03	2.83E+03	6.11E+03	5.84E+03	1.85E+04	1.79E+04
64	1.20E+03	1.31E+03	2.40E+03	2.36E+03	7.18E+03	6.97E+03
70	5.63E+02	5.92E+02	1.09E+03	1.12E+03	2.86E+03	2.76E+03
76	-	-	-	-	1.26E+03	1.26E+03
80	-	-	-	-	7.39E+02	5.99E+02

Table A-38 PAV and Average In-service Stiffness Data for Project 15502

Temp.	PAV			In service
	1	2		
			Average	Average
16	1.33E+07	1.20E+07	1.26E+07	2.82E+07
19	8.41E+06	8.20E+06	8.31E+06	2.12E+07
22	5.22E+06	5.10E+06	5.16E+06	1.60E+07
25	3.05E+06	2.93E+06	2.99E+06	1.22E+07
28	1.79E+06	1.67E+06	1.73E+06	8.28E+06
31	1.02E+06	9.85E+05	1.00E+06	5.50E+06

Table A-39 OWP In-service Stiffness Data for Project 15502

Temp.	In service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	2.19E+07	2.45E+07	3.29E+07	3.52E+07
19	1.60E+07	1.81E+07	3.03E+07	3.24E+07
22	1.09E+07	1.23E+07	2.65E+07	2.86E+07
25	9.28E+06	1.05E+07	2.09E+07	2.24E+07
28	6.44E+06	7.44E+06	1.49E+07	1.59E+07
31	4.23E+06	4.96E+06	1.03E+07	1.10E+07

Table A-40 IWP In-service Stiffness Data for Project 15502

Temp.	In service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	1.75E+07	1.93E+07	2.62E+07	3.16E+07
19	1.27E+07	1.43E+07	1.88E+07	2.27E+07
22	8.91E+06	1.01E+07	1.33E+07	1.64E+07
25	6.24E+06	7.10E+06	9.29E+06	1.14E+07
28	4.24E+06	4.87E+06	6.45E+06	7.75E+06
31	2.86E+06	3.32E+06	4.36E+06	5.30E+06

Table A-41 BWP In-service Stiffness Data for Project 15502

Temp.	In service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	3.45E+07	3.83E+07	1.12E+07	1.21E+07
19	2.25E+07	2.47E+07	8.02E+06	8.32E+06
22	1.54E+07	1.73E+07	4.04E+06	5.18E+06
25	1.15E+07	1.30E+07	1.49E+06	2.99E+06
28	6.97E+06	7.87E+06	1.31E+06	1.68E+06
31	4.09E+06	4.66E+06	8.36E+05	9.94E+05

Table A-42 Neat, RTFO, and Mix Stiffness Data for Project 15502

Temp.	Neat	RTFO	Mix
	Average	Average	Average
40	-	-	3.74E+05
46	-	-	1.49E+05
52	6.82E+03	1.48E+04	4.78E+04
58	2.78E+03	5.98E+03	1.82E+04
64	1.26E+03	2.38E+03	7.07E+03
70	5.78E+02	1.11E+03	2.81E+03
76	-	-	1.26E+03
80	-	-	6.69E+02

Table A-43 Neat, RTFO and Mix Stiffness Data for Project 15404

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	5.60E+04	5.53E+04	-	-	2.12E+05	2.17E+05
46	2.13E+04	2.10E+04	-	-	9.99E+04	9.91E+04
52	8.55E+03	8.40E+03	2.51E+04	2.66E+04	4.32E+04	4.29E+04
58	3.69E+03	3.65E+03	9.89E+03	1.03E+04	1.88E+04	1.87E+04
64	1.63E+03	1.61E+03	4.34E+03	4.58E+03	8.26E+03	8.23E+03
70	7.39E+02	7.26E+02	1.96E+03	2.06E+03	3.78E+03	3.77E+03
76	3.63E+02	3.58E+02	-	-	1.82E+03	1.82E+03
80	2.33E+02	2.31E+02	-	-	1.14E+03	1.15E+03

Table A-44 PAV and Average In-service Stiffness Data for Project 15404

Temp.	PAV			In service
	1	2	Average	Average
16	1.64E+07	1.36E+07	1.50E+07	2.63E+07
19	1.16E+07	9.44E+06	1.05E+07	2.01E+07
22	7.90E+06	6.41E+06	7.16E+06	1.49E+07
25	5.36E+06	4.35E+06	4.85E+06	1.10E+07
28	3.60E+06	2.90E+06	3.25E+06	7.69E+06
31	2.36E+06	1.90E+06	2.13E+06	5.44E+06

Table-A-45 OWP In-service Stiffness Data for Project 15404

Temp.	In service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	2.31E+07	2.59E+07	3.19E+07	3.36E+07
19	1.95E+07	2.17E+07	2.25E+07	2.36E+07
22	1.54E+07	1.69E+07	1.57E+07	1.65E+07
25	1.10E+07	1.22E+07	1.08E+07	1.12E+07
28	7.78E+06	8.44E+06	7.32E+06	7.48E+06
31	5.51E+06	6.01E+06	4.81E+06	4.90E+06

Table A-46 IWP In-service Stiffness Data for Project 15404

Temp.	In service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	2.94E+07	3.23E+07	2.43E+07	2.66E+07
19	2.07E+07	2.26E+07	1.94E+07	2.06E+07
22	1.45E+07	1.57E+07	1.40E+07	1.54E+07
25	9.94E+06	1.08E+07	1.01E+07	1.08E+07
28	6.75E+06	7.22E+06	6.12E+06	6.84E+06
31	4.43E+06	4.76E+06	4.83E+06	5.46E+06

Table A-47 IWP In-service Stiffness Data for Project 15404

Temp.	In service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	2.14E+07	2.39E+07	2.09E+07	2.27E+07
19	1.78E+07	1.97E+07	1.61E+07	1.75E+07
22	1.43E+07	1.60E+07	1.17E+07	1.28E+07
25	1.15E+07	1.31E+07	9.84E+06	1.08E+07
28	8.92E+06	1.00E+07	7.38E+06	7.98E+06
31	6.63E+06	7.37E+06	4.97E+06	5.55E+06

Table A-48 Neat, RTFO, and Mix Stiffness Data for Project 15404

	Neat	RTFO	Mix
Temp.	Avg	Avg	Avg
40	5.56E+04	-	2.14E+05
46	2.11E+04	-	9.95E+04
52	8.47E+03	2.59E+04	4.30E+04
58	3.67E+03	1.01E+04	1.87E+04
64	1.62E+03	4.46E+03	8.24E+03
70	7.32E+02	2.01E+03	3.77E+03
76	3.60E+02	-	1.82E+03
80	2.32E+02	-	1.15E+03

Table A-49 Neat, RTFO and Mix Stiffness Data for Project 15630

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	3.48E+05	4.10E+05
46	-	-	-	-	1.45E+05	1.85E+05
52	5.67E+03	5.73E+03	1.89E+04	1.75E+04	5.51E+04	7.92E+04
58	2.49E+03	2.60E+03	8.67E+03	8.57E+03	2.33E+04	3.37E+04
64	1.12E+03	1.17E+03	3.63E+03	3.23E+03	1.11E+04	1.46E+04
70	5.44E+02	5.48E+02	1.74E+03	1.70E+03	5.04E+03	6.64E+03
76	-	-	-	-	2.33E+03	3.10E+03
80	-	-	-	-	-	-

Table A-50 PAV and Average In-service Stiffness Data for Project 15630

Temp.	PAV			In service
	1	2		
			Average	Average
16	1.37E+07	1.22E+07	1.29E+07	1.98E+07
19	9.67E+06	8.51E+06	9.09E+06	1.38E+07
22	6.68E+06	5.73E+06	6.20E+06	9.78E+06
25	4.48E+06	3.77E+06	4.12E+06	6.81E+06
28	2.96E+06	2.52E+06	2.74E+06	4.70E+06
31	1.93E+06	1.65E+06	1.79E+06	3.21E+06

Table-A-51 OWP In-service Stiffness Data for Project 15630

Temp.	In service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	2.58E+07	2.72E+07	1.40E+07	1.48E+07
19	1.86E+07	1.96E+07	9.34E+06	9.71E+06
22	1.36E+07	1.41E+07	6.30E+06	6.55E+06
25	9.75E+06	9.94E+06	4.16E+06	4.32E+06
28	6.94E+06	7.01E+06	2.70E+06	2.78E+06
31	4.84E+06	4.89E+06	1.72E+06	1.76E+06

Table A-52 IWP In-service Stiffness Data for Project 15630

Temp.	In service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	2.08E+07	2.19E+07	1.87E+07	1.98E+07
19	1.48E+07	1.54E+07	1.28E+07	1.34E+07
22	1.06E+07	1.11E+07	8.84E+06	9.20E+06
25	7.53E+06	7.76E+06	6.06E+06	6.28E+06
28	5.25E+06	5.41E+06	4.12E+06	4.26E+06
31	3.64E+06	3.71E+06	2.79E+06	2.89E+06

Table A-53 BWP In-service Stiffness Data for Project 15630

Temp.	In service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	1.46E+07	1.55E+07	1.62E+07	1.71E+07
19	1.03E+07	1.09E+07	1.10E+07	1.15E+07
22	7.33E+06	7.63E+06	7.51E+06	7.83E+06
25	5.12E+06	5.33E+06	5.06E+06	5.23E+06
28	3.54E+06	3.68E+06	3.35E+06	3.48E+06
31	2.40E+06	2.45E+06	2.21E+06	2.26E+06

Table A-54 Neat, RTFO, and Mix Stiffness Data for Project 15630

Temp.	Neat	RTFO	Mix
	Avg	Avg	Avg
40	-	-	3.79E+05
46	-	-	1.65E+05
52	5.70E+03	1.82E+04	6.71E+04
58	2.54E+03	8.62E+03	2.85E+04
64	1.14E+03	3.43E+03	1.29E+04
70	5.46E+02	1.72E+03	5.84E+03
76	-	-	2.71E+03
80	-	-	-

Table A-55 Neat, RTFO and Mix Stiffness Data for Project 15173

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	4.86E+05	-
46	7.16E+04	5.53E+04	-	-	2.01E+05	-
52	2.52E+04	2.01E+04	3.83E+04	-	8.14E+04	-
58	9.56E+03	7.43E+03	1.48E+04	-	3.36E+04	-
64	3.85E+03	2.89E+03	5.51E+03	-	1.36E+04	-
70	1.22E+03	1.22E+03	2.36E+03	-	5.73E+03	-
76	5.67E+02	5.67E+02	-	-	2.53E+03	-
80	-	-	-	-	1.47E+03	-

Table A-56 PAV and Average In-service Stiffness Data for Project 15173

Temp.	PAV			In service
	1	2	Average	Average
16	1.30E+07	-	1.30E+07	1.83E+07
19	9.28E+06	-	9.28E+06	1.28E+07
22	6.52E+06	-	6.52E+06	9.03E+06
25	4.49E+06	-	4.49E+06	6.28E+06
28	3.04E+06	-	3.04E+06	4.32E+06
31	1.99E+06	-	1.99E+06	2.93E+06

Table-A-57 OWP In-service Stiffness Data for Project 15173

Temp.	In service			
	OWP (6 inch)			
	TOP		BOTTOM	
16	2.58E+07	-	1.40E+07	-
19	1.86E+07	-	9.34E+06	-
22	1.36E+07	-	6.30E+06	-
25	9.75E+06	-	4.16E+06	-
28	6.94E+06	-	2.70E+06	-
31	4.84E+06	-	1.72E+06	-

Table A-58 BWP In-service Stiffness Data for Project 15173

Temp.	In service			
	BWP (6 feet)			
	TOP		BOTTOM	
16	1.46E+07	-	1.62E+07	-
19	1.03E+07	-	1.10E+07	-
22	7.33E+06	-	7.51E+06	-
25	5.12E+06	-	5.06E+06	-
28	3.54E+06	-	3.35E+06	-
31	2.40E+06	-	2.21E+06	-

Table A-59 IWP In-service Stiffness Data for Project 15173

Temp.	In service			
	IWP (2 feet)			
	TOP		BOTTOM	
16	2.08E+07	-	1.87E+07	-
19	1.48E+07	-	1.28E+07	-
22	1.06E+07	-	8.84E+06	-
25	7.53E+06	-	6.06E+06	-
28	5.25E+06	-	4.12E+06	-
31	3.64E+06	-	2.79E+06	-

Table A-60 Neat, RTFO, and Mix Stiffness Data for Project 15173

Temp.	Neat	RTFO	Mix
	Average	Average	Average
40	-	-	4.86E+05
46	6.35E+04	-	2.01E+05
52	2.27E+04	3.83E+04	8.14E+04
58	8.50E+03	1.48E+04	3.36E+04
64	3.37E+03	5.51E+03	1.36E+04
70	1.22E+03	2.36E+03	5.73E+03
76	5.67E+02	-	2.53E+03
80	-	-	1.47E+03

Table A-61 Neat, RTFO, and Mix Stiffness Data for Project 15174

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	-	-
46	1.94E+04	2.18E+04	-	-	-	-
52	8.03E+03	8.12E+03	-	-	5.63E+04	4.15E+04
58	3.40E+03	3.48E+03	3.81E+03	8.75E+03	2.21E+04	1.52E+04
64	1.54E+03	1.45E+03	3.71E+03	1.59E+03	8.50E+03	6.02E+03
70	7.04E+02	6.68E+02	6.87E+02	1.66E+03	3.50E+03	2.55E+03
76	3.52E+02	3.27E+02	7.94E+02	3.26E+02	1.48E+03	1.12E+03
80	-	-	-	-	-	-

Table A-62 PAV and Average In-service Stiffness Data for Project 15174

Temp.	PAV			In service
	1	2	Average	Average
16	1.21E+07	1.22E+07	1.21E+07	4.24E+07
19	8.22E+06	8.50E+06	8.22E+06	3.40E+07
22	5.13E+06	5.72E+06	5.13E+06	2.76E+07
25	2.95E+06	3.69E+06	2.95E+06	2.14E+07
28	1.69E+06	2.50E+06	1.69E+06	1.65E+07
31	9.87E+05	1.63E+05	9.87E+05	1.26E+07

Table A-63 OWP In service Stiffness Data for Project 15174

Temp	In service			
	OWP (6inch)			
	Top		Bottom	
16	-	-	-	-
19	-	-	-	-
22	-	-	-	-
25	-	-	-	-
28	-	-	-	-
31	-	-	-	-

Table A-64 IWP In-service Stiffness Data for Project 15174

Temp	In service			
	IWP (2ft)			
	Top		Bottom	
16	3.91E+07	3.71E+07	4.22E+07	4.02E+07
19	3.06E+07	3.01E+07	3.30E+07	3.20E+07
22	2.39E+07	2.46E+07	2.58E+07	2.68E+07
25	1.83E+07	1.83E+07	1.98E+07	2.04E+07
28	1.38E+07	1.43E+07	1.50E+07	1.55E+07
31	1.02E+07	1.15E+07	1.12E+07	1.23E+07

Table A-65 BWP In-service Stiffness Data for Project 15174

Temp	In service			
	BWP (6ft)			
	Top		Bottom	
16	4.52E+07	4.49E+07	4.50E+07	4.56E+07
19	3.68E+07	3.67E+07	3.61E+07	3.69E+07
22	3.12E+07	3.02E+07	2.90E+07	2.94E+07
25	2.48E+07	2.36E+07	2.26E+07	2.33E+07
28	1.92E+07	1.84E+07	1.74E+07	1.78E+07
31	1.45E+07	1.36E+07	1.33E+07	1.41E+07

Table A-66 Neat, RTFO, and Mix Stiffness Data for Project 15174

Temp.	Neat	RTFO	Mix
	Average	Average	Average
40	-	-	-
46	2.06E+04	-	-
52	8.08E+03	-	4.89E+04
58	3.44E+03	6.28E+03	1.87E+04
64	1.50E+03	2.65E+03	7.26E+03
70	6.86E+02	1.17E+03	3.03E+03
76	3.40E+02	5.60E+02	1.30E+03
80	-	-	-

Table A-67 Neat, RTFO Stiffness Data for Project 15309

Temp.	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	-	-	-	-	-	-
46	-	-	-	-	-	-
52	6.39E+03	6.39E+03	1.72E+04	-	4.48E+04	4.75E+04
58	2.85E+03	2.71E+03	7.58E+03	-	2.25E+04	1.60E+04
64	1.21E+03	1.28E+03	3.51E+03	-	9.98E+03	6.96E+03
70	5.79E+02	6.11E+02	1.57E+03	-	4.89E+03	2.41E+03
76	-	-	-	-	-	-
80	-	-	-	-	-	-

Table A-68 PAV and Average In-service Stiffness Data for Project 15309

Temp.	PAV		In service	
	1	2	Average	Average
16	8.14E+06	8.07E+06	8.11E+06	1.83E+07
19	4.24E+06	5.49E+06	4.87E+06	1.28E+07
22	3.61E+06	3.38E+06	3.50E+06	9.03E+06
25	2.30E+06	2.11E+06	2.21E+06	6.28E+06
28	1.34E+06	1.44E+06	1.39E+06	4.32E+06
31	-	-	-	2.93E+06

Table A-69 OWP In service Stiffness Data for Project 15309

Temp.	In service			
	OWP (6inch)			
	Top		Bottom	
16	2.58E+07	-	1.40E+07	-
19	1.86E+07	-	9.33E+06	-
22	1.36E+07	-	6.29E+06	-
25	9.74E+06	-	4.15E+06	-
28	6.93E+06	-	2.70E+06	-
31	4.84E+06	-	1.72E+06	-

Table A-70 IWP In-service Stiffness Data for Project 15309

Temp.	In service			
	IWP (2ft)			
	Top		Bottom	
16	2.08E+07	-	1.87E+07	-
19	1.48E+07	-	1.28E+07	-
22	1.06E+07	-	8.84E+06	-
25	7.53E+06	-	6.06E+06	-
28	5.25E+06	-	4.12E+06	-
31	3.64E+06	-	2.79E+06	-

Table A-71 BWP In-service Stiffness for Project 15309

Temp.	In service			
	BWP (6ft)			
	Top		Bottom	
16	1.46E+07	-	1.62E+07	-
19	1.03E+07	-	1.10E+07	-
22	7.33E+06	-	7.51E+06	-
25	5.12E+06	-	5.06E+06	-
28	3.54E+06	-	3.35E+06	-
31	2.40E+06	-	2.21E+06	-

Table A-72 Neat, RTFO, and Mix Stiffness Data for Project 14643

Temp.	Neat	RTFO	Mix
	Average	Average	Average
40	-	-	-
46	-	-	-
52	6.39E+03	1.72E+04	4.62E+04
58	2.78E+03	7.58E+03	1.93E+04
64	1.25E+03	3.51E+03	8.47E+03
70	5.95E+02	1.57E+03	3.65E+03
76	-	-	-
80	-	-	-

Table A-73 Neat, RTFO and Mix Stiffness Data for Project 15617

Temp	Neat		RTFO		Mix	
	1	2	1	2	1	2
40	6.37E+04	-	-	-	-	-
46	2.33E+04	-	-	-	-	-
52	5.41E+03	8.79E+03	1.36E+04	-	-	-
58	3.57E+03	1.25E+03	6.33E+03	-	-	-
64	5.95E+02	1.44E+03	3.60E+03	-	-	-
70	6.25E+02	-	1.54E+03	-	-	-
76	2.87E+02	-	-	-	-	-
80	1.76E+02	-	-	-	-	-

Table A-74 PAV and Average In-service Stiffness Data for Project 14643

Temp	PAV			In service
	1	2	Average	Average
16	1.38E+07	1.27E+06	1.38E+07	1.64E+07
19	9.04E+06	8.34E+06	9.04E+06	1.14E+07
22	5.73E+06	5.21E+06	5.73E+06	7.77E+06
25	3.51E+06	3.11E+06	3.51E+06	5.19E+06
28	2.15E+06	1.79E+06	2.15E+06	3.42E+06
31	1.34E+06	1.11E+06	1.34E+06	2.14E+06

Table A-75 OWP In-service Stiffness Data for Project 15617

Temp	In service			
	OWP (6inch)			
	Top		Bottom	
16	1.25E+07	-	2.87E+07	-
19	8.22E+06	-	2.07E+07	-
22	5.35E+06	-	1.45E+07	-
25	3.41E+06	-	9.94E+06	-
28	2.16E+06	-	6.63E+06	-
31	1.36E+06	-	4.30E+06	-

Table A-76 IWP In-service Stiffness Data for Project 15617

	In service			
Temp.	IWP (2ft)			
	Top		Bottom	
16	1.37E+07	-	2.43E+07	-
19	9.11E+06	-	1.69E+07	-
22	5.91E+06	-	1.16E+07	-
25	3.81E+06	-	7.68E+06	-
28	2.42E+06	-	5.02E+06	-
31	1.55E+06	-	2.79E+06	-

Table A-77 BWP In-service Stiffness Data for Project 15617

	In service			
Temp.	BWP (6ft)			
	Top		Bottom	
16	1.46E+07	-	4.80E+06	-
19	1.03E+07	-	3.09E+06	-
22	7.33E+06	-	1.94E+06	-
25	5.12E+06	-	1.21E+06	-
28	3.54E+06	-	7.43E+05	-
31	2.40E+06	-	4.41E+05	-

APPENDIX B

Statistical Analysis for RTFO and Mixes

```

options ls=72;
data ana;
input proj sample group temp stiff;
lstiff=log10(stiff);
label=group;
cards;
14643      1      1  46  1.46E+04
14643      1      1  52  5.90E+03
14643      1      1  58  2.46E+03
14643      1      1  64  1.10E+03
14643      1      1  70  5.05E+02
14643      1      1  76  2.52E+02
14643      2      1  46  1.48E+04
14643      2      1  52  5.85E+03
14643      2      1  58  2.53E+03
14643      2      1  64  1.10E+03
14643      2      1  70  5.07E+02
14643      2      1  76  2.53E+02
14643      1      2  46  3.72E+04
14643      1      2  52  1.48E+04
14643      1      2  58  6.28E+03
14643      1      2  64  2.55E+03
14643      1      2  70  1.15E+03
14643      1      2  76  5.52E+02
14643      2      2  46  4.51E+04
14643      2      2  52  1.81E+04
14643      2      2  58  7.15E+03
14643      2      2  64  3.18E+03
14643      2      2  70  1.33E+03
14643      2      2  76  6.05E+02
14643      1      3  46  1.95E+05
14643      1      3  52  7.74E+04
14643      1      3  58  3.06E+04
14643      1      3  64  1.24E+04
14643      1      3  70  5.30E+03
14643      1      3  76  2.39E+03
14643      2      3  46  1.93E+05
14643      2      3  52  7.90E+04
14643      2      3  58  3.20E+04
14643      2      3  64  1.36E+04
14643      2      3  70  5.93E+03
14643      2      3  76  2.71E+03
151651     1      1  46  .
151651     1      1  52  8.84E+03
151651     1      1  58  3.95E+03
151651     1      1  64  1.79E+03
151651     1      1  70  8.55E+02
151651     1      1  76  .
151651     2      1  46  .
151651     2      1  52  9.49E+03
151651     2      1  58  3.98E+03
151651     2      1  64  1.83E+03
151651     2      1  70  8.82E+02

```

151651	2	1	76	.
151651	1	2	46	.
151651	1	2	52	2.25E+04
151651	1	2	58	9.75E+03
151651	1	2	64	4.67E+03
151651	1	2	70	2.23E+03
151651	1	2	76	.
151651	2	2	46	.
151651	2	2	52	2.51E+04
151651	2	2	58	9.89E+03
151651	2	2	64	4.34E+03
151651	2	2	70	1.96E+03
151651	2	2	76	.
151651	1	3	46	1.79E+05
151651	1	3	52	6.88E+04
151651	1	3	58	2.68E+04
151651	1	3	64	1.06E+04
151651	1	3	70	4.48E+03
151651	1	3	76	2.02E+03
151651	2	3	46	1.81E+05
151651	2	3	52	7.12E+04
151651	2	3	58	2.73E+04
151651	2	3	64	1.07E+04
151651	2	3	70	4.70E+03
151651	2	3	76	2.16E+03
1516511	1	1	46	.
1516511	1	1	52	8.84E+03
1516511	1	1	58	3.95E+03
1516511	1	1	64	1.79E+03
1516511	1	1	70	8.55E+02
1516511	1	1	76	.
1516511	2	1	46	.
1516511	2	1	52	9.49E+03
1516511	2	1	58	3.98E+03
1516511	2	1	64	1.83E+03
1516511	2	1	70	8.82E+02
1516511	2	1	76	.
1516511	1	2	46	.
1516511	1	2	52	2.25E+04
1516511	1	2	58	9.75E+03
1516511	1	2	64	4.67E+03
1516511	1	2	70	2.23E+03
1516511	1	2	76	.
1516511	2	2	46	.
1516511	2	2	52	2.51E+04
1516511	2	2	58	9.89E+03
1516511	2	2	64	4.34E+03
1516511	2	2	70	1.96E+03
1516511	2	2	76	.
1516511	1	3	46	2.83E+05
1516511	1	3	52	1.30E+05
1516511	1	3	58	5.93E+04
1516511	1	3	64	2.74E+04

1516511	1	3	70	1.27E+04
1516511	1	3	76	6.00E+03
1516511	2	3	46	2.36E+05
1516511	2	3	52	1.06E+05
1516511	2	3	58	4.74E+04
1516511	2	3	64	2.14E+04
1516511	2	3	70	9.79E+03
1516511	2	3	76	4.63E+03
151652	1	1	46	.
151652	1	1	52	8.84E+03
151652	1	1	58	3.95E+03
151652	1	1	64	1.79E+03
151652	1	1	70	8.55E+02
151652	1	1	76	.
151652	2	1	46	.
151652	2	1	52	9.49E+03
151652	2	1	58	3.98E+03
151652	2	1	64	1.83E+03
151652	2	1	70	8.82E+02
151652	2	1	76	.
151652	1	2	46	.
151652	1	2	52	2.25E+04
151652	1	2	58	9.75E+03
151652	1	2	64	4.67E+03
151652	1	2	70	2.23E+03
151652	1	2	76	.
151652	2	2	46	.
151652	2	2	52	2.51E+04
151652	2	2	58	9.89E+03
151652	2	2	64	4.34E+03
151652	2	2	70	1.96E+03
151652	2	2	76	.
151652	1	3	46	1.74E+05
151652	1	3	52	6.63E+04
151652	1	3	58	2.65E+04
151652	1	3	64	1.05E+04
151652	1	3	70	4.43E+03
151652	1	3	76	1.96E+03
151652	2	3	46	.
151652	2	3	52	.
151652	2	3	58	.
151652	2	3	64	.
151652	2	3	70	.
151652	2	3	76	.
1516521	1	1	46	.
1516521	1	1	52	8.84E+03
1516521	1	1	58	3.95E+03
1516521	1	1	64	1.79E+03
1516521	1	1	70	8.55E+02
1516521	1	1	76	.
1516521	2	1	46	.
1516521	2	1	52	9.49E+03
1516521	2	1	58	3.98E+03

1516521	2	1	64	1.83E+03
1516521	2	1	70	8.82E+02
1516521	2	1	76	.
1516521	1	2	46	.
1516521	1	2	52	2.25E+04
1516521	1	2	58	9.75E+03
1516521	1	2	64	4.67E+03
1516521	1	2	70	2.23E+03
1516521	1	2	76	.
1516521	2	2	46	.
1516521	2	2	52	2.51E+04
1516521	2	2	58	9.89E+03
1516521	2	2	64	4.34E+03
1516521	2	2	70	1.96E+03
1516521	2	2	76	.
1516521	1	3	46	2.15E+05
1516521	1	3	52	9.63E+04
1516521	1	3	58	4.38E+04
1516521	1	3	64	2.00E+04
1516521	1	3	70	9.22E+03
1516521	1	3	76	4.38E+03
1516521	2	3	46	2.27E+05
1516521	2	3	52	1.02E+05
1516521	2	3	58	4.57E+04
1516521	2	3	64	2.05E+04
1516521	2	3	70	9.40E+03
1516521	2	3	76	4.41E+03
15308	1	1	46	.
15308	1	1	52	6.37E+03
15308	1	1	58	2.69E+03
15308	1	1	64	1.18E+03
15308	1	1	70	5.52E+02
15308	1	1	76	.
15308	2	1	46	.
15308	2	1	52	6.69E+03
15308	2	1	58	2.83E+03
15308	2	1	64	1.22E+03
15308	2	1	70	5.68E+02
15308	2	1	76	.
15308	1	2	46	.
15308	1	2	52	1.82E+04
15308	1	2	58	7.39E+03
15308	1	2	64	3.11E+03
15308	1	2	70	1.34E+03
15308	1	2	76	.
15308	2	2	46	.
15308	2	2	52	1.91E+04
15308	2	2	58	7.77E+03
15308	2	2	64	3.27E+03
15308	2	2	70	1.41E+03
15308	2	2	76	.
15308	1	3	46	1.68E+05
15308	1	3	52	6.01E+04

15308	1	3	58	2.21E+04
15308	1	3	64	9.06E+03
15308	1	3	70	3.50E+03
15308	1	3	76	1.50E+03
15308	2	3	46	1.74E+05
15308	2	3	52	6.36E+04
15308	2	3	58	2.31E+04
15308	2	3	64	9.37E+03
15308	2	3	70	3.57E+03
15308	2	3	76	1.52E+03
15502	1	1	46	-
15502	1	1	52	6.74E+03
15502	1	1	58	2.73E+03
15502	1	1	64	1.20E+03
15502	1	1	70	5.63E+02
15502	1	1	76	-
15502	2	1	46	-
15502	2	1	52	6.89E+03
15502	2	1	58	2.83E+03
15502	2	1	64	1.31E+03
15502	2	1	70	5.92E+02
15502	2	1	76	-
15502	1	2	46	-
15502	1	2	52	1.54E+04
15502	1	2	58	6.11E+03
15502	1	2	64	2.40E+03
15502	1	2	70	1.09E+03
15502	1	2	76	-
15502	2	2	46	-
15502	2	2	52	1.41E+04
15502	2	2	58	5.84E+03
15502	2	2	64	2.36E+03
15502	2	2	70	1.12E+03
15502	2	2	76	-
15502	1	3	46	1.41E+05
15502	1	3	52	4.95E+04
15502	1	3	58	1.85E+04
15502	1	3	64	7.18E+03
15502	1	3	70	2.86E+03
15502	1	3	76	1.26E+03
15502	2	3	46	1.58E+05
15502	2	3	52	4.60E+04
15502	2	3	58	1.79E+04
15502	2	3	64	6.97E+03
15502	2	3	70	2.76E+03
15502	2	3	76	1.26E+03
154041	1	1	46	2.13E+04
154041	1	1	52	8.55E+03
154041	1	1	58	3.69E+03
154041	1	1	64	1.63E+03
154041	1	1	70	7.39E+02
154041	1	1	76	3.63E+02
154041	2	1	46	2.10E+04

154041	2	1	52	8.40E+03
154041	2	1	58	3.65E+03
154041	2	1	64	1.61E+03
154041	2	1	70	7.26E+02
154041	2	1	76	3.58E+02
154041	1	2	46	.
154041	1	2	52	2.51E+04
154041	1	2	58	9.89E+03
154041	1	2	64	4.34E+03
154041	1	2	70	1.96E+03
154041	1	2	76	.
154041	2	2	46	.
154041	2	2	52	2.66E+04
154041	2	2	58	1.03E+04
154041	2	2	64	4.58E+03
154041	2	2	70	2.06E+03
154041	2	2	76	.
154041	1	3	46	9.99E+04
154041	1	3	52	4.32E+04
154041	1	3	58	1.88E+04
154041	1	3	64	8.26E+03
154041	1	3	70	3.78E+03
154041	1	3	76	1.82E+03
154041	2	3	46	9.91E+04
154041	2	3	52	4.29E+04
154041	2	3	58	1.87E+04
154041	2	3	64	8.23E+03
154041	2	3	70	3.77E+03
154041	2	3	76	1.82E+03
15630	1	1	46	.
15630	1	1	52	5.67E+03
15630	1	1	58	2.49E+03
15630	1	1	64	1.12E+03
15630	1	1	70	5.44E+02
15630	1	1	76	.
15630	2	1	46	.
15630	2	1	52	5.73E+03
15630	2	1	58	2.60E+03
15630	2	1	64	1.17E+03
15630	2	1	70	5.48E+02
15630	2	1	76	.
15630	1	2	46	.
15630	1	2	52	1.89E+04
15630	1	2	58	8.67E+03
15630	1	2	64	3.63E+03
15630	1	2	70	1.74E+03
15630	1	2	76	.
15630	2	2	46	.
15630	2	2	52	1.75E+04
15630	2	2	58	8.57E+03
15630	2	2	64	3.23E+03
15630	2	2	70	1.70E+03
15630	2	2	76	.

15630	1	3	46	1.45E+05
15630	1	3	52	5.51E+04
15630	1	3	58	2.33E+04
15630	1	3	64	1.11E+04
15630	1	3	70	5.04E+03
15630	1	3	76	2.33E+03
15630	2	3	46	1.85E+05
15630	2	3	52	7.92E+04
15630	2	3	58	3.37E+04
15630	2	3	64	1.46E+04
15630	2	3	70	6.64E+03
15630	2	3	76	3.10E+03
15173	1	1	46	7.16E+04
15173	1	1	52	2.52E+04
15173	1	1	58	9.56E+03
15173	1	1	64	3.85E+03
15173	1	1	70	1.22E+03
15173	1	1	76	5.67E+02
15173	2	1	46	5.53E+04
15173	2	1	52	2.01E+04
15173	2	1	58	7.43E+03
15173	2	1	64	2.89E+03
15173	2	1	70	1.22E+03
15173	2	1	76	5.67E+02
15173	1	2	46	.
15173	1	2	52	3.83E+04
15173	1	2	58	1.48E+04
15173	1	2	64	5.51E+03
15173	1	2	70	2.36E+03
15173	1	2	76	.
15173	2	2	46	.
15173	2	2	52	.
15173	2	2	58	.
15173	2	2	64	.
15173	2	2	70	.
15173	2	2	76	.
15173	1	3	46	2.01E+05
15173	1	3	52	8.14E+04
15173	1	3	58	3.36E+04
15173	1	3	64	1.36E+04
15173	1	3	70	5.73E+03
15173	1	3	76	2.53E+03
15173	2	3	46	.
15173	2	3	52	.
15173	2	3	58	.
15173	2	3	64	.
15173	2	3	70	.
15173	2	3	76	.
15174	1	1	46	1.94E+04
15174	1	1	52	8.03E+03
15174	1	1	58	3.40E+03
15174	1	1	64	1.54E+03
15174	1	1	70	7.04E+02

15174	1	1	76	3.52E+02
15174	2	1	46	2.18E+04
15174	2	1	52	8.12E+03
15174	2	1	58	3.48E+03
15174	2	1	64	1.45E+03
15174	2	1	70	6.68E+02
15174	2	1	76	3.27E+02
15174	1	2	46	.
15174	1	2	52	.
15174	1	2	58	3.81E+03
15174	1	2	64	3.71E+03
15174	1	2	70	6.87E+02
15174	1	2	76	7.94E+02
15174	2	2	46	.
15174	2	2	52	.
15174	2	2	58	8.75E+03
15174	2	2	64	1.59E+03
15174	2	2	70	1.66E+03
15174	2	2	76	3.26E+02
15174	1	3	46	.
15174	1	3	52	5.63E+04
15174	1	3	58	2.21E+04
15174	1	3	64	8.50E+03
15174	1	3	70	3.50E+03
15174	1	3	76	1.48E+03
15174	2	3	46	.
15174	2	3	52	4.15E+04
15174	2	3	58	1.52E+04
15174	2	3	64	6.02E+03
15174	2	3	70	2.55E+03
15174	2	3	76	1.12E+03
15309	1	1	46	.
15309	1	1	52	6.39E+03
15309	1	1	58	2.85E+03
15309	1	1	64	1.21E+03
15309	1	1	70	5.79E+02
15309	1	1	76	.
15309	2	1	46	.
15309	2	1	52	6.39E+03
15309	2	1	58	2.71E+03
15309	2	1	64	1.28E+03
15309	2	1	70	6.11E+02
15309	2	1	76	.
15309	1	2	46	.
15309	1	2	52	1.72E+04
15309	1	2	58	7.58E+03
15309	1	2	64	3.51E+03
15309	1	2	70	1.57E+03
15309	1	2	76	.
15309	2	2	46	.
15309	2	2	52	.
15309	2	2	58	.
15309	2	2	64	.

```

15309 2 2 70 .
15309 2 2 76 .
15309 1 3 46 .
15309 1 3 52 4.48E+04
15309 1 3 58 2.25E+04
15309 1 3 64 9.98E+03
15309 1 3 70 4.89E+03
15309 1 3 76 .
15309 2 3 46 .
15309 2 3 52 4.75E+04
15309 2 3 58 1.60E+04
15309 2 3 64 6.96E+03
15309 2 3 70 2.41E+03
15309 2 3 76 .
15617 1 1 46 2.33E+04
15617 1 1 52 5.41E+03
15617 1 1 58 3.57E+03
15617 1 1 64 5.95E+02
15617 1 1 70 6.25E+02
15617 1 1 76 2.87E+02
15617 2 1 46 -
15617 2 1 52 8.79E+03
15617 2 1 58 1.25E+03
15617 2 1 64 1.44E+03
15617 2 1 70 .
15617 2 1 76 .
15617 1 2 46 .
15617 1 2 52 1.36E+04
15617 1 2 58 6.33E+03
15617 1 2 64 3.60E+03
15617 1 2 70 1.54E+03
15617 1 2 76 .
15617 2 2 46 .
15617 2 2 52 .
15617 2 2 58 .
15617 2 2 64 .
15617 2 2 70 .
15617 2 2 76 .
15617 1 3 46 .
15617 1 3 52 .
15617 1 3 58 .
15617 1 3 64 .
15617 1 3 70 .
15617 1 3 76 .
15617 2 3 46 .
15617 2 3 52 .
15617 2 3 58 .
15617 2 3 64 .
15617 2 3 70 .
15617 2 3 76 .
;
proc glm;
class label;

```

```
model lstiff=proj label sample temp;  
run;
```

```
proc glm;  
class label;  
model lstiff=label temp;  
where temp EQ 64;  
estimate 'label 1 vs label 2' label 1 -1 0;  
estimate 'label 1 vs label 3' label 1 0 -1;  
estimate 'label 2 vs label 3' label 0 1 -1;  
contrast 'label 1 vs label 2' label 1 -1 0;  
contrast 'label 1 vs label 3' label 1 0 -1;  
contrast 'label 2 vs label 3' label 0 1 -1;  
run;
```

The SAS System

1

22:01 Friday, July 9, 1999

General Linear Models Procedure
Class Level Information

Class	Levels	Values

LABEL	3	1 2 3

Number of observations in data set = 468

NOTE: Due to missing values, only 343 observations can be used in this analysis.

The SAS System

2

22:01 Friday, July 9, 1999

General Linear Models Procedure

Dependent Variable: LSTIFF

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	148.59943	29.71989	1600.50	0.0001
Error	337	6.25778	0.01857		
Corrected Total	342	154.85722			

R-Square	C.V.	Root MSE	LSTIFF Mean
0.959590	3.591911	0.1363	3.7938

Source	DF	Type I SS	Mean Square	F Value	Pr > F
PROJ	1	3.60794	3.60794	194.30	0.0001
LABEL	2	44.45377	22.22689	1196.98	0.0001
SAMPLE	1	0.01358	0.01358	0.73	0.3931
TEMP	1	100.52414	100.52414	5413.52	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
PROJ	1	1.74079	1.74079	93.75	0.0001
LABEL	2	46.15805	23.07902	1242.87	0.0001
SAMPLE	1	0.01271	0.01271	0.68	0.4086
TEMP	1	100.52414	100.52414	5413.52	0.0001

The SAS System 3
22:01 Friday, July 9, 1999

General Linear Models Procedure
Class Level Information

Class Levels Values

LABEL 3 1 2 3

Number of observations in data set = 78

NOTE: Due to missing values, only 71 observations can be used in this analysis.

The SAS System 4
22:01 Friday, July 9, 1999

General Linear Models Procedure

Dependent Variable: LSTIFF

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	9.0662428	4.5331214	194.62	0.0001
Error	68	1.5838779	0.0232923		
Corrected Total	70	10.6501207			

R-Square	C.V.	Root MSE	LSTIFF Mean
0.851281	4.275033	0.1526	3.5700

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LABEL	2	9.0662428	4.5331214	194.62	0.0001
TEMP	0	0.0000000	.	.	.

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LABEL	2	9.0662428	4.5331214	194.62	0.0001
TEMP	0	0.0000000	.	.	.

Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
label 1 vs label 2	1	1.8068095	1.8068095	77.57	0.0001
label 1 vs label 3	1	9.0627775	9.0627775	389.09	0.0001
label 2 vs label 3	1	2.6701389	2.6701389	114.64	0.0001

Parameter	T for H0: Estimate	Pr > T Parameter=0	Std Error of Estimate
label 1 vs label 2			
-0.38477215	-8.81	0.0001	0.04368716
label 1 vs label 3			
-0.87207385	-19.73	0.0001	0.04421086
label 2 vs label 3			
-0.48730170	-10.71	0.0001	0.04551320

Table B-1 RTFO/Mix t-statistics for Project 14643

RTFO	MIX	t-Test: Paired Two Sample for Means	
3.72E+04	1.95E+05		
1.48E+04	7.74E+04		
6.28E+03	3.06E+04		
2.55E+03	1.24E+04		
1.15E+03	5.30E+03		
5.52E+02	2.39E+03		
3.53E+02	1.44E+03		
4.51E+04	1.93E+05		
1.81E+04	7.90E+04		
7.15E+03	3.20E+04		
3.18E+03	1.36E+04		
1.33E+03	5.93E+03		
6.05E+02	2.71E+03		
3.85E+02	1.59E+03		
		<i>RTFO</i>	<i>MIX</i>
		Mean	9909.28571 46597.1428
		Variance	207766444.7 457597236
		Observations	14 14
		Pearson Correlation	0.99269502
		Hypothesized Mean Difference	0
		df	13
		t Stat	-2.57232627
		P(T<=t) one-tail	0.01159569
		t Critical one-tail	1.77093170
		P(T<=t) two-tail	0.02319138
		t Critical two-tail	2.16036824

Table B-2 RTFO/Mix t statistic at 64C for Project 14643

RTFO@64	MIX@64	t-Test: Paired Two Sample for Means	
2.55E+03	1.24E+04		
3.18E+03	1.36E+04		
		<i>RTFO@64</i>	<i>MIX@64</i>
		Mean	2862.5 13000
		Variance	195312.5 720000
		Observations	2 2
		Pearson Correlation	1
		Hypothesized Mean Difference	0
		df	1
		t Stat	-35.26086957
		P(T<=t) one-tail	0.009024865
		t Critical one-tail	6.313748599
		P(T<=t) two-tail	0.01804973
		t Critical two-tail	12.7061503

Table B-3 RTFO/Mix t-Statistics for Project 15165a

RTFO	MIX	t-Test: Paired Two Sample for Means	
2.25E+04	6.88E+04		
9.75E+03	2.68E+04		
4.67E+03	1.06E+04		
2.23E+03	4.48E+03		
2.51E+04	7.12E+04		
9.89E+03	2.73E+04		
4.34E+03	1.07E+04		
1.96E+03	4.70E+03		
		<i>RTFO</i>	<i>MIX</i>
Mean		10055.0875	28083.0306
Variance		81467078.65	746416977.9
Observations		8	8
Pearson Correlation		0.998194381	
Hypothesized Mean Difference		0	
df		7	
t Stat		-2.783481827	
P(T<=t) one-tail		0.013580909	
t Critical one-tail		1.894577508	
P(T<=t) two-tail		0.027161818	
t Critical two-tail		2.36462256	

Table B-4 RTFO/Mix Statistics at 64C for Project 15165a

RTFO@64	MIX@64	t-Test: Paired Two Sample for Means	
4.67E+03	1.06E+04		
4.34E+03	1.07E+04		
		<i>RTFO@64</i>	<i>MIX@64</i>
Mean		4502.45	10690.80891
Variance		55078.805	6000.726503
Observations		2	2
Pearson Correlation		-1	
Hypothesized Mean Difference		0	
df		1	
t Stat		-28.03644	
P(T<=t) one-tail		0.0113486	
t Critical one-tail		6.3137486	
P(T<=t) two-tail		0.0226972	
t Critical two-tail		12.70615	

Table B-5 RTFO/Mix t-Statistics for Project 15165a1

RTFO	MIX	t-Test: Paired Two Sample for Means	
2.25E+04	6.88E+04		
9.75E+03	2.68E+04		
4.67E+03	1.06E+04		
2.23E+03	4.48E+03		
2.51E+04	7.12E+04		
9.89E+03	2.73E+04		
4.34E+03	1.07E+04		
1.96E+03	4.70E+03		
		<i>RTFO</i>	<i>MIX</i>
Mean		10055.0875	28083.0306
Variance		81467078.65	746416977.9
Observations		8	8
Pearson Correlation		0.998194381	
Hypothesized Mean Difference		0	
df		7	
t Stat		-2.783481827	
P(T<=t) one-tail		0.013580909	
t Critical one-tail		1.894577508	
P(T<=t) two-tail		0.027161818	
t Critical two-tail		2.36462256	

Table B-6 RTFO/Mix t-Statistics at 64C for Project 15165a1

RTFO@64	MIX@64	t-Test: Paired Two Sample for Means	
4.67E+03	1.06E+04		
4.34E+03	1.07E+04		
		<i>RTFO@64</i>	<i>MIX@64</i>
Mean		4502.45	10690.80891
Variance		55078.805	6000.726503
Observations		2	2
Pearson Correlation		-1	
Hypothesized Mean Difference		0	
df		1	
t Stat		-28.03644	
P(T<=t) one-tail		0.0113486	
t Critical one-tail		6.3137486	
P(T<=t) two-tail		0.0226972	
t Critical two-tail		12.70615	

Table B-7 RTFO/Mix t-Statistics for Project 15165b

RTFO	MIX	t-Test: Paired Two Sample for Means	
2.25E+04	6.88E+04		
9.75E+03	2.68E+04		
4.67E+03	1.06E+04		
2.23E+03	4.48E+03		
2.51E+04	7.12E+04		
9.89E+03	2.73E+04		
4.34E+03	1.07E+04		
1.96E+03	4.70E+03		
		<i>RTFO</i>	<i>MIX</i>
Mean		10055.0875	28083.0306
Variance		81467078.65	746416977.9
Observations		8	8
Pearson Correlation		0.998194381	
Hypothesized Mean Difference		0	
df		7	
t Stat		-2.783481827	
P(T<=t) one-tail		0.013580909	
t Critical one-tail		1.894577508	
P(T<=t) two-tail		0.027161818	
t Critical two-tail		2.36462256	

Table B-8 RTFO/Mix Statistics at 64C for Project 15165b

RTFO@64	MIX@64	t-Test: Paired Two Sample for Means	
4.67E+03	1.06E+04		
4.34E+03	1.07E+04		
		<i>RTFO@64</i>	<i>MIX@64</i>
Mean		4502.45	10690.80891
Variance		55078.805	6000.726503
Observations		2	2
Pearson Correlation		-1	
Hypothesized Mean Difference		0	
df		1	
t Stat		-28.03644	
P(T<=t) one-tail		0.0113486	
t Critical one-tail		6.3137486	
P(T<=t) two-tail		0.0226972	
t Critical two-tail		12.70615	

Table B-9 RTFO/Mix t-Statistics for Project 15165b1

RTFO	MIX	t-Test: Paired Two Sample for Means	
2.25E+04	6.88E+04		
9.75E+03	2.68E+04		
4.67E+03	1.06E+04		
2.23E+03	4.48E+03		
2.51E+04	7.12E+04		
9.89E+03	2.73E+04		
4.34E+03	1.07E+04		
1.96E+03	4.70E+03		
		<i>RTFO</i>	<i>MIX</i>
Mean		10055.0875	28083.0306
Variance		81467078.65	746416977.9
Observations		8	8
Pearson Correlation		0.998194381	
Hypothesized Mean Difference		0	
df		7	
t Stat		-2.783481827	
P(T<=t) one-tail		0.013580909	
t Critical one-tail		1.894577508	
P(T<=t) two-tail		0.027161818	
t Critical two-tail		2.36462256	

Table B-10 RTFO/Mix Statistics at 64C for Project 15165b1

RTFO@64	MIX@64	t-Test: Paired Two Sample for Means	
4.67E+03	1.06E+04		
4.34E+03	1.07E+04		
		<i>RTFO@64</i>	<i>MIX@64</i>
Mean		4502.45	10690.80891
Variance		55078.805	6000.726503
Observations		2	2
Pearson Correlation		-1	
Hypothesized Mean Difference		0	
df		1	
t Stat		-28.03644	
P(T<=t) one-tail		0.0113486	
t Critical one-tail		6.3137486	
P(T<=t) two-tail		0.0226972	
t Critical two-tail		12.70615	

Table B-11 RTFO/Mix t-Statistics for Project 15308

RTFO	MIX	t-Test: Paired Two Sample for Means	
1.82E+0	6.01E+04		
7.39E+0	2.21E+04		
3.11E+0	9.06E+03		
1.34E+0	3.50E+03		
1.91E+0	6.36E+04		
7.77E+0	2.31E+04		
3.27E+0	9.37E+03		
1.41E+0	3.57E+03		
		<i>RTFO</i>	<i>MIX</i>
		Mean	7702.188 24309.34
		Variance	51657113.0 593404477.7
		Observations	8 8
		Pearson Correlation	0.999439
		Hypothesized Mean Difference	0
		df	7
		t Stat	-2.734383
		P(T<=t) one-tail	0.014576
		t Critical one-tail	1.894577
		P(T<=t) two-tail	0.029153
		t Critical two-tail	2.364622

Table B-12 RTFO/Mix Statistics at 64C for Project 15308

RTFO@64	MIX@64	t-Test: Paired Two Sample for Means	
3.11E+03	9.06E+03		
3.27E+03	9.37E+03		
		<i>RTFO@64</i>	<i>MIX@64</i>
		Mean	3193.3224 9213.8166
		Variance	13096.87 47442.2262
		Observations	2 2
		Pearson Correlation	1
		Hypothesized Mean Difference	0
		df	1
		t Stat	-82.366237
		P(T<=t) one-tail	0.0038644
		t Critical one-tail	6.3137486
		P(T<=t) two-tail	0.0077288
		t Critical two-tail	12.70615

Table B-13 RTFO/Mix t-Statistics for Project 15502

RTFO	MIX
1.54E+04	4.95E+04
6.11E+03	1.85E+04
2.40E+03	7.18E+03
1.09E+03	2.86E+03
1.41E+04	4.60E+04
5.84E+03	1.79E+04
2.36E+03	6.97E+03
1.12E+03	2.76E+03

t-Test: Paired Two Sample for Means

	<i>RTFO</i>	<i>MIX</i>
Mean	6052.5	18970.113
Variance	32588250	353178324
Observations	8	8
Pearson Correlation	0.9997846	
Hypothesized Mean Difference	0	
df	7	
t Stat	-2.7919904	
P(T<=t) one-tail	0.0134157	
t Critical one-tail	1.8945775	
P(T<=t) two-tail	0.0268314	
t Critical two-tail	2.3646226	

Table B-14 RTFO/Mix t-Statistics at 64C for Project 15502

RTFO@64	MIX@64
2.40E+03	7.18E+03
2.36E+03	6.97E+03

t-Test: Paired Two Sample for Means

	<i>RTFO@64</i>	<i>MIX@64</i>
Mean	2380	7074.56604
Variance	800	21067.4595
Observations	2	2
Pearson Correlation	1	
Hypothesized Mean Difference	0	
df	1	
t Stat	-56.811583	
P(T<=t) one-tail	0.0056023	
t Critical one-tail	6.3137486	
P(T<=t) two-tail	0.0112047	
t Critical two-tail	12.70615	

Table B-15 RTFO/Mix t-Statistics for Project 15404a

RTFO	MIX
2.51E+04	4.32E+04
9.89E+03	1.88E+04
4.34E+03	8.26E+03
1.96E+03	3.78E+03
2.66E+04	4.29E+04
1.03E+04	1.87E+04
4.58E+03	8.23E+03
2.06E+03	3.77E+03

t-Test: Paired Two Sample for Means

	<i>RTFO</i>	<i>MIX</i>
Mean	10611.7541	18441.76813
Variance	98714045.1	263729412.9
Observations	8	8
Pearson Correlation	0.9979194	
Hypothesized Mean Difference	0	
df	7	
t Stat	-3.4836628	
P(T<=t) one-tail	0.00510781	
t Critical one-tail	1.89457751	
P(T<=t) two-tail	0.01021563	
t Critical two-tail	2.36462256	

Table B-16 RTFO/Mix t-Statistics at 64C for Project 15404a

RTFO@64	MIX@64
4.34E+03	8.26E+03
4.58E+03	8.23E+03

t-Test: Paired Two Sample for Means

	<i>RTFO@64</i>	<i>MIX@64</i>
Mean	4459.09286	8242.882778
Variance	30058.0162	481.8097803
Observations	2	2
Pearson Correlation	-1	
Hypothesized Mean Difference	0	
df	1	
t Stat	-27.396143	
P(T<=t) one-tail	0.01161363	
t Critical one-tail	6.3137486	
P(T<=t) two-tail	0.02322726	
t Critical two-tail	12.7061503	

Table B-17 RTFO/Mix t-Statistics for Project 15630

RTFO	MIX
1.89E+04	5.51E+04
8.67E+03	2.33E+04
3.63E+03	1.11E+04
1.74E+03	5.04E+03
1.75E+04	7.92E+04
8.57E+03	3.37E+04
3.23E+03	1.46E+04
1.70E+03	6.64E+03

t-Test: Paired Two Sample for Means

	<i>RTFO</i>	<i>MIX</i>
Mean	7984.9375	28591.2201
Variance	47058686	693581688
Observations	8	8
Pearson Correlation	0.9451471	
Hypothesized Mean Difference	0	
df	7	
t Stat	-2.917326	
P(T<=t) one-tail	0.0112126	
t Critical one-tail	1.8945775	
P(T<=t) two-tail	0.0224253	
t Critical two-tail	2.3646226	

Table B-18 RTFO/Mix t-Statistics at 64C for Project 15630

RTFO@64	MIX@64
3.63E+03	1.11E+04
3.23E+03	1.46E+04

t-Test: Paired Two Sample for Means

	<i>RTFO@64</i>	<i>MIX@64</i>
Mean	3427.45	12860.7556
Variance	79560.605	6363567.76
Observations	2	2
Pearson Correlation	-1	
Hypothesized Mean Difference	0	
df	1	
t Stat	-4.756595	
P(T<=t) one-tail	0.0659591	
t Critical one-tail	6.3137486	
P(T<=t) two-tail	0.1319183	
t Critical two-tail	12.70615	

Table B-19 RTFO/Mix t-Statistics for Project 15174

RTFO	MIX
3.81E+03	2.21E+04
3.71E+03	8.50E+03
6.87E+02	3.50E+03
7.94E+02	1.48E+03
8.75E+03	1.52E+04
1.59E+03	6.02E+03
1.66E+03	2.55E+03
3.26E+02	1.12E+03

t-Test: Paired Two Sample for Means

	RTFO	MIX
Mean	2665.88	7558.75
Variance	7782852	56151441
Observations	8	8
Pearson Correlation	0.71945	
Hypothesized Mean Difference	0	
df	7	
t Stat	-2.3785	
P(T<=t) one-tail	0.0245	
t Critical one-tail	1.89458	
P(T<=t) two-tail	0.04899	
t Critical two-tail	2.36462	

Table B-20 RTFO/Mix t-Statistics at 64C for Project 15174

RTFO@64	MIX@64
3.71E+03	8.50E+03
1.59E+03	6.02E+03

t-Test: Paired Two Sample for Means

	RTFO@64	MIX@64
Mean	2650	7260
Variance	2247200	3075200
Observations	2	2
Pearson Correlation	1	
Hypothesized Mean Difference	0	
df	1	
t Stat	-25.611	
P(T<=t) one-tail	0.01242	
t Critical one-tail	6.31375	
P(T<=t) two-tail	0.02484	
t Critical two-tail	12.7062	

Table B-21 RTFO and Mix Project Data Summary Included in the Analysis

Temp.	Project 14643		Project 15165-a		Project 15165-a1	
	RTFO	Mix	RTFO	Mix	RTFO	Mix
52	1.65E+04	7.82E+04	2.38E+04	7.00E+04	2.38E+04	1.18E+05
58	6.72E+03	3.13E+04	9.82E+03	2.71E+04	9.82E+03	5.33E+04
64	2.86E+03	1.30E+04	4.50E+03	1.07E+04	4.50E+03	2.44E+04
70	1.24E+03	5.62E+03	2.10E+03	4.59E+03	2.10E+03	1.12E+04

Table B-22 RTFO and Mix Project Data Summary Included in the Analysis

Temp.	Project 15308		Project 15165-b		Project 15165-b1	
	RTFO	Mix	RTFO	Mix	RTFO	Mix
52	1.87E+04	6.19E+04	2.38E+04	6.63E+04	2.38E+04	9.91E+04
58	7.58E+03	2.26E+04	9.82E+03	2.65E+04	9.82E+03	4.47E+04
64	3.19E+03	9.21E+03	4.50E+03	1.05E+04	4.50E+03	2.02E+04
70	1.37E+03	3.53E+03	2.10E+03	4.43E+03	2.10E+03	9.31E+03

Table B-23 RTFO and Mix Project Data Summary Included in the Analysis

Temp.	Project 15502		Project 15404a		Project 15630	
	RTFO	Mix	RTFO	Mix	RTFO	Mix
52	1.48E+04	4.78E+04	2.59E+04	4.30E+04	1.82E+04	6.71E+04
58	5.98E+03	1.82E+04	1.01E+04	1.87E+04	8.62E+03	2.85E+04
64	2.38E+03	7.07E+03	4.46E+03	8.24E+03	3.43E+03	1.29E+04
70	1.11E+03	2.81E+03	2.01E+03	3.77E+03	1.72E+03	5.84E+03

Table B-24 RTFO and Mix Project Data Summary Included in the Analysis

Temp.	Project 15173		Project 15174		Project 15309		Project 15617	
	RTFO	Mix	RTFO	Mix	RTFO	Mix	RTFO	Mix
52	3.83E+04	8.14E+04	-	4.89E+04	1.72E+04	4.62E+04	1.36E+04	-
58	1.48E+04	3.36E+04	6.28E+03	1.87E+04	7.58E+03	1.93E+04	6.33E+03	-
64	5.51E+03	1.36E+04	2.65E+03	7.26E+03	3.51E+03	8.47E+03	3.60E+03	-
70	2.36E+03	5.73E+03	1.17E+03	3.03E+03	1.57E+03	3.65E+03	1.54E+03	-

Table B-25 RTFO/MIX t-statistic at 64C for all Projects

RTFO@64C	MIX@64C	t-Test: Paired Two Sample for Means		
2.86E+03	1.30E+04			
4.50E+03	1.07E+04		<i>RTFO@64C</i>	<i>MIX@64C</i>
4.50E+03	2.44E+04	Mean	3833.51377	12132.13582
4.50E+03	1.05E+04	Variance	920684.254	28258653.85
4.50E+03	2.02E+04	Observations	12	12
3.19E+03	9.21E+03	Pearson Correlation	0.47563833	
2.38E+03	7.07E+03	Hypothesized Mean Difference	0	
4.46E+03	8.24E+03	df	11	
3.43E+03	1.29E+04	t Stat	-5.82842246	
5.51E+03	1.36E+04	P(T<=t) one-tail	5.7217E-05	
2.65E+03	7.26E+03	t Critical one-tail	1.79588369	
3.51E+03	8.47E+03	P(T<=t) two-tail	0.00011443	
3.60E+03	-	t Critical two-tail	2.20098627	

APPENDIX C

Statistical Analysis for PAV and In-service Asphalts as well as Variability Analysis
due to Pavement Transverse Locations

```

options ls=72;

data analysis;

input proj sample loc tb temp stiff;

lstiff=log10(stiff);

```

```
cards;
```

14643	1	0	0	16	1.36E+07
14643	1	0	0	19	9.01E+06
14643	1	0	0	22	5.68E+06
14643	1	0	0	25	3.47E+06
14643	1	0	0	28	2.10E+06
14643	1	0	0	31	1.26E+06
14643	2	0	0	16	1.54E+07
14643	2	0	0	19	1.01E+07
14643	2	0	0	22	6.55E+06
14643	2	0	0	25	4.04E+06
14643	2	0	0	28	2.49E+06
14643	2	0	0	31	1.55E+06
14643	1	1	1	16	2.14E+07
14643	1	1	1	19	1.49E+07
14643	1	1	1	22	1.02E+07
14643	1	1	1	25	6.92E+06
14643	1	1	1	28	4.59E+06
14643	1	1	1	31	3.01E+06
14643	2	1	1	16	2.26E+07
14643	2	1	1	19	1.57E+07
14643	2	1	1	22	1.08E+07
14643	2	1	1	25	7.19E+06
14643	2	1	1	28	4.72E+06
14643	2	1	1	31	3.06E+06
14643	1	1	2	16	1.47E+07
14643	1	1	2	19	1.02E+07
14643	1	1	2	22	6.93E+06
14643	1	1	2	25	4.64E+06
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14643	2	1	2	28	3.12E+06
14643	2	1	2	31	2.01E+06
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14643	1	2	1	22	1.01E+07
14643	1	2	1	25	6.57E+06
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14643	2	2	1	25	6.91E+06
14643	2	2	1	28	4.30E+06
14643	2	2	1	31	2.69E+06
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14643	1	2	2	22	7.82E+06
14643	1	2	2	25	5.02E+06
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14643	2	2	2	31	2.04E+06
14643	1	3	1	16	2.15E+06
14643	1	3	1	19	1.32E+06
14643	1	3	1	22	8.03E+05
14643	1	3	1	25	4.82E+05
14643	1	3	1	28	2.84E+05
14643	1	3	1	31	1.69E+05
14643	2	3	1	16	2.25E+06
14643	2	3	1	19	1.39E+06
14643	2	3	1	22	8.34E+05
14643	2	3	1	25	4.95E+05
14643	2	3	1	28	2.90E+05
14643	2	3	1	31	1.72E+05
14643	1	3	2	16	1.60E+07
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14643	1	3	2	25	4.88E+06
14643	1	3	2	28	3.21E+06
14643	1	3	2	31	2.10E+06
14643	2	3	2	16	1.65E+07
14643	2	3	2	19	1.15E+07
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14643	2	3	2	25	5.04E+06
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14643	2	3	2	31	2.13E+06
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151651	1	0	0	25	2.23E+06
151651	1	0	0	28	1.44E+06
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151651	2	0	0	31	6.95E+05
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151651	1	1	1	25	1.54E+07
151651	1	1	1	28	1.06E+07
151651	1	1	1	31	7.38E+06
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151651	2	1	1	31	7.24E+06
151651	1	1	2	16	7.66E+07
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151651	1	1	2	25	3.14E+07
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151651	2	1	2	19	5.26E+07
151651	2	1	2	22	4.00E+07
151651	2	1	2	25	2.99E+07
151651	2	1	2	28	2.20E+07
151651	2	1	2	31	1.53E+07
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151651	1	3	1	31	5.63E+06
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151651	2	3	2	31	4.07E+06
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1516511	1	0	0	19	5.45E+06
1516511	1	0	0	22	3.53E+06
1516511	1	0	0	25	2.23E+06
1516511	1	0	0	28	1.44E+06
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1516511	2	0	0	22	2.71E+06
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1516511	2	0	0	31	6.95E+05
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1516511	1	1	1	19	3.44E+07
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1516511	1	1	1	28	1.24E+07
1516511	1	1	1	31	8.59E+06
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1516511	2	1	1	22	.
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1516511	2	1	1	28	.
1516511	2	1	1	31	.
1516511	1	1	2	16	4.81E+07
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1516511	1	1	2	25	1.78E+07
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1516511	1	1	2	31	8.34E+06
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1516511	2	1	2	22	.
1516511	2	1	2	25	.
1516511	2	1	2	28	.
1516511	2	1	2	31	.
1516511	1	2	1	16	1.53E+06

1516511	1	2	1	19	4.22E+06
1516511	1	2	1	22	7.86E+06
1516511	1	2	1	25	6.85E+06
1516511	1	2	1	28	5.38E+06
1516511	1	2	1	31	4.13E+06
1516511	2	2	1	16	.
1516511	2	2	1	19	.
1516511	2	2	1	22	.
1516511	2	2	1	25	.
1516511	2	2	1	28	.
1516511	2	2	1	31	.
1516511	1	2	2	16	2.42E+07
1516511	1	2	2	19	1.74E+07
1516511	1	2	2	22	1.24E+07
1516511	1	2	2	25	8.59E+06
1516511	1	2	2	28	5.86E+06
1516511	1	2	2	31	3.92E+06
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1516511	2	2	2	22	.
1516511	2	2	2	25	.
1516511	2	2	2	28	.
1516511	2	2	2	31	.
1516511	1	3	1	16	2.58E+07
1516511	1	3	1	19	1.85E+07
1516511	1	3	1	22	1.31E+07
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1516511	1	3	1	28	6.32E+06
1516511	1	3	1	31	4.24E+06
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1516511	2	3	1	22	.
1516511	2	3	1	25	.
1516511	2	3	1	28	.
1516511	2	3	1	31	.
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1516511	1	3	2	19	7.79E+06
1516511	1	3	2	22	5.39E+06
1516511	1	3	2	25	3.71E+06
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1516511	1	3	2	31	1.76E+06
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1516511	2	3	2	19	.
1516511	2	3	2	22	.
1516511	2	3	2	25	.
1516511	2	3	2	28	.
1516511	2	3	2	31	.
151652	1	0	0	16	8.28E+06
151652	1	0	0	19	5.45E+06
151652	1	0	0	22	3.53E+06
151652	1	0	0	25	2.23E+06
151652	1	0	0	28	1.44E+06
151652	1	0	0	31	8.99E+05
151652	2	0	0	16	6.37E+06

151652	2	0	0	19	4.14E+06
151652	2	0	0	22	2.71E+06
151652	2	0	0	25	1.74E+06
151652	2	0	0	28	1.10E+06
151652	2	0	0	31	6.95E+05
151652	1	1	1	16	4.22E+07
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151652	1	1	1	28	1.06E+07
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151652	2	1	1	22	.
151652	2	1	1	25	.
151652	2	1	1	28	.
151652	2	1	1	31	.
151652	1	1	2	16	7.66E+07
151652	1	1	2	19	5.72E+07
151652	1	1	2	22	4.27E+07
151652	1	1	2	25	3.14E+07
151652	1	1	2	28	2.28E+07
151652	1	1	2	31	1.63E+07
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151652	2	1	2	22	.
151652	2	1	2	25	.
151652	2	1	2	28	.
151652	2	1	2	31	.
151652	1	2	1	16	5.41E+07
151652	1	2	1	19	3.90E+07
151652	1	2	1	22	2.78E+07
151652	1	2	1	25	1.95E+07
151652	1	2	1	28	1.35E+07
151652	1	2	1	31	9.21E+06
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151652	2	2	1	19	.
151652	2	2	1	22	.
151652	2	2	1	25	.
151652	2	2	1	28	.
151652	2	2	1	31	.
151652	1	2	2	16	3.55E+07
151652	1	2	2	19	2.56E+07
151652	1	2	2	22	1.82E+07
151652	1	2	2	25	1.28E+07
151652	1	2	2	28	8.87E+06
151652	1	2	2	31	6.07E+06
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151652	2	2	2	19	.
151652	2	2	2	22	.
151652	2	2	2	25	.
151652	2	2	2	28	.
151652	2	2	2	31	.
151652	1	3	1	16	3.05E+07

151652	1	3	1	19	2.23E+07
151652	1	3	1	22	1.60E+07
151652	1	3	1	25	1.14E+07
151652	1	3	1	28	7.95E+06
151652	1	3	1	31	5.63E+06
151652	2	3	1	16	.
151652	2	3	1	19	.
151652	2	3	1	22	.
151652	2	3	1	25	.
151652	2	3	1	28	.
151652	2	3	1	31	.
151652	1	3	2	16	2.19E+07
151652	1	3	2	19	1.60E+07
151652	1	3	2	22	1.16E+07
151652	1	3	2	25	8.22E+06
151652	1	3	2	28	5.76E+06
151652	1	3	2	31	4.00E+06
151652	2	3	2	16	.
151652	2	3	2	19	.
151652	2	3	2	22	.
151652	2	3	2	25	.
151652	2	3	2	28	.
151652	2	3	2	31	.
1516521	1	0	0	16	8.28E+06
1516521	1	0	0	19	5.45E+06
1516521	1	0	0	22	3.53E+06
1516521	1	0	0	25	2.23E+06
1516521	1	0	0	28	1.44E+06
1516521	1	0	0	31	8.99E+05
1516521	2	0	0	16	6.37E+06
1516521	2	0	0	19	4.14E+06
1516521	2	0	0	22	2.71E+06
1516521	2	0	0	25	1.74E+06
1516521	2	0	0	28	1.10E+06
1516521	2	0	0	31	6.95E+05
1516521	1	1	1	16	6.79E+07
1516521	1	1	1	19	5.03E+07
1516521	1	1	1	22	3.65E+07
1516521	1	1	1	25	2.60E+07
1516521	1	1	1	28	1.81E+07
1516521	1	1	1	31	1.25E+07
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1516521	2	1	1	22	.
1516521	2	1	1	25	.
1516521	2	1	1	28	.
1516521	2	1	1	31	.
1516521	1	1	2	16	5.37E+07
1516521	1	1	2	19	3.97E+07
1516521	1	1	2	22	2.82E+07
1516521	1	1	2	25	1.97E+07
1516521	1	1	2	28	1.36E+07
1516521	1	1	2	31	9.13E+06
1516521	2	1	2	16	.

1516521	2	1	2	19	.
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1516521	2	1	2	31	.
1516521	1	2	1	16	.
1516521	1	2	1	19	.
1516521	1	2	1	22	.
1516521	1	2	1	25	.
1516521	1	2	1	28	.
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1516521	2	2	1	16	.
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1516521	2	2	1	22	.
1516521	2	2	1	25	.
1516521	2	2	1	28	.
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1516521	1	2	2	16	2.75E+07
1516521	1	2	2	19	2.00E+07
1516521	1	2	2	22	1.45E+07
1516521	1	2	2	25	1.00E+07
1516521	1	2	2	28	6.90E+06
1516521	1	2	2	31	4.59E+06
1516521	2	2	2	16	.
1516521	2	2	2	19	.
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1516521	2	3	1	22	.
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1516521	2	3	1	28	.
1516521	2	3	1	31	.
1516521	1	3	2	16	4.60E+07
1516521	1	3	2	19	3.30E+07
1516521	1	3	2	22	2.30E+07
1516521	1	3	2	25	1.60E+07
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1516521	1	3	2	31	7.17E+06
1516521	2	3	2	16	.
1516521	2	3	2	19	.
1516521	2	3	2	22	.
1516521	2	3	2	25	.
1516521	2	3	2	28	.
1516521	2	3	2	31	.
15308	1	0	0	16	2.37E+07

15308	1	0	0	19	1.61E+07
15308	1	0	0	22	1.07E+07
15308	1	0	0	25	7.09E+06
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15308	1	0	0	31	2.87E+06
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15308	2	0	0	19	1.47E+07
15308	2	0	0	22	9.75E+06
15308	2	0	0	25	6.49E+06
15308	2	0	0	28	4.17E+06
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15308	1	2	2	25	1.35E+07
15308	1	2	2	28	9.29E+06
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15502	2	3	2	28	1.68E+06
15502	2	3	2	31	9.94E+05
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154041	2	2	1	31	4.76E+06
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154041	1	2	2	31	4.83E+06
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15630	1	0	0	22	6.68E+06
15630	1	0	0	25	4.48E+06
15630	1	0	0	28	2.96E+06
15630	1	0	0	31	1.93E+06
15630	2	0	0	16	1.22E+07
15630	2	0	0	19	8.51E+06
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15630	2	0	0	25	3.77E+06
15630	2	0	0	28	2.52E+06
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15630	1	1	1	31	4.84E+06
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15630	2	1	1	19	1.96E+07
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15630	2	1	1	25	9.94E+06
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15630	2	1	1	31	4.89E+06
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15630	2	2	2	16	1.98E+07
15630	2	2	2	19	1.34E+07
15630	2	2	2	22	9.20E+06
15630	2	2	2	25	6.28E+06
15630	2	2	2	28	4.26E+06
15630	2	2	2	31	2.89E+06
15630	1	3	1	16	1.46E+07
15630	1	3	1	19	1.03E+07
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15630	1	3	1	25	5.12E+06
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15630	2	3	1	31	2.45E+06
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15630	1	3	2	19	1.10E+07
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15630	1	3	2	25	5.06E+06
15630	1	3	2	28	3.35E+06
15630	1	3	2	31	2.21E+06
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15630	2	3	2	19	1.15E+07
15630	2	3	2	22	7.83E+06
15630	2	3	2	25	5.23E+06
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15630	2	3	2	31	2.26E+06
15173	1	0	0	16	1.30E+07
15173	1	0	0	19	9.28E+06
15173	1	0	0	22	6.52E+06
15173	1	0	0	25	4.49E+06
15173	1	0	0	28	3.04E+06
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15173	2	0	0	28	.
15173	2	0	0	31	.
15173	1	1	1	16	2.58E+07
15173	1	1	1	19	1.86E+07
15173	1	1	1	22	1.36E+07
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15173	2	1	2	31	.
15173	1	2	1	16	2.08E+07
15173	1	2	1	19	1.48E+07
15173	1	2	1	22	1.06E+07
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15173	2	2	2	19	.
15173	2	2	2	22	.
15173	2	2	2	25	.
15173	2	2	2	28	.
15173	2	2	2	31	.
15173	1	3	1	16	1.46E+07
15173	1	3	1	19	1.03E+07
15173	1	3	1	22	7.33E+06
15173	1	3	1	25	5.12E+06
15173	1	3	1	28	3.54E+06
15173	1	3	1	31	2.40E+06
15173	2	3	1	16	.
15173	2	3	1	19	.
15173	2	3	1	22	.
15173	2	3	1	25	.
15173	2	3	1	28	.
15173	2	3	1	31	.
15173	1	3	2	16	1.62E+07
15173	1	3	2	19	1.10E+07
15173	1	3	2	22	7.51E+06
15173	1	3	2	25	5.06E+06
15173	1	3	2	28	3.35E+06
15173	1	3	2	31	2.21E+06
15173	2	3	2	16	.
15173	2	3	2	19	.
15173	2	3	2	22	.
15173	2	3	2	25	.
15173	2	3	2	28	.
15173	2	3	2	31	.
15174	1	0	0	16	1.21E+07
15174	1	0	0	19	8.22E+06
15174	1	0	0	22	5.13E+06
15174	1	0	0	25	2.95E+06
15174	1	0	0	28	1.69E+06
15174	1	0	0	31	9.87E+05
15174	2	0	0	16	1.22E+07
15174	2	0	0	19	8.50E+06
15174	2	0	0	22	5.72E+06
15174	2	0	0	25	3.69E+06
15174	2	0	0	28	2.50E+06
15174	2	0	0	31	1.63E+05
15174	1	1	1	16	.

15174	1	1	1	19	.
15174	1	1	1	22	.
15174	1	1	1	25	.
15174	1	1	1	28	.
15174	1	1	1	31	.
15174	2	1	1	16	.
15174	2	1	1	19	.
15174	2	1	1	22	.
15174	2	1	1	25	.
15174	2	1	1	28	.
15174	2	1	1	31	.
15174	1	1	2	16	.
15174	1	1	2	19	.
15174	1	1	2	22	.
15174	1	1	2	25	.
15174	1	1	2	28	.
15174	1	1	2	31	.
15174	2	1	2	16	.
15174	2	1	2	19	.
15174	2	1	2	22	.
15174	2	1	2	25	.
15174	2	1	2	28	.
15174	2	1	2	31	.
15174	1	2	1	16	3.91E+07
15174	1	2	1	19	3.06E+07
15174	1	2	1	22	2.39E+07
15174	1	2	1	25	1.83E+07
15174	1	2	1	28	1.38E+07
15174	1	2	1	31	1.02E+07
15174	2	2	1	16	3.71E+07
15174	2	2	1	19	3.01E+07
15174	2	2	1	22	2.46E+07
15174	2	2	1	25	1.83E+07
15174	2	2	1	28	1.43E+07
15174	2	2	1	31	1.15E+07
15174	1	2	2	16	4.22E+07
15174	1	2	2	19	3.30E+07
15174	1	2	2	22	2.58E+07
15174	1	2	2	25	1.98E+07
15174	1	2	2	28	1.50E+07
15174	1	2	2	31	1.12E+07
15174	2	2	2	16	4.02E+07
15174	2	2	2	19	3.20E+07
15174	2	2	2	22	2.68E+07
15174	2	2	2	25	2.04E+07
15174	2	2	2	28	1.55E+07
15174	2	2	2	31	1.23E+07
15174	1	3	1	16	4.52E+07
15174	1	3	1	19	3.68E+07
15174	1	3	1	22	3.12E+07
15174	1	3	1	25	2.48E+07
15174	1	3	1	28	1.92E+07
15174	1	3	1	31	1.45E+07
15174	2	3	1	16	4.49E+07

15174	2	3	1	19	3.67E+07
15174	2	3	1	22	3.02E+07
15174	2	3	1	25	2.36E+07
15174	2	3	1	28	1.84E+07
15174	2	3	1	31	1.36E+07
15174	1	3	2	16	4.50E+07
15174	1	3	2	19	3.61E+07
15174	1	3	2	22	2.90E+07
15174	1	3	2	25	2.26E+07
15174	1	3	2	28	1.74E+07
15174	1	3	2	31	1.33E+07
15174	2	3	2	16	4.56E+07
15174	2	3	2	19	3.69E+07
15174	2	3	2	22	2.94E+07
15174	2	3	2	25	2.33E+07
15174	2	3	2	28	1.78E+07
15174	2	3	2	31	1.41E+07
15309	1	0	0	16	8.14E+06
15309	1	0	0	19	4.24E+06
15309	1	0	0	22	3.61E+06
15309	1	0	0	25	2.30E+06
15309	1	0	0	28	1.34E+06
15309	1	0	0	31	.
15309	2	0	0	16	8.07E+06
15309	2	0	0	19	5.49E+06
15309	2	0	0	22	3.38E+06
15309	2	0	0	25	2.11E+06
15309	2	0	0	28	1.44E+06
15309	2	0	0	31	.
15309	1	1	1	16	2.58E+07
15309	1	1	1	19	1.86E+07
15309	1	1	1	22	1.36E+07
15309	1	1	1	25	9.74E+06
15309	1	1	1	28	6.93E+06
15309	1	1	1	31	4.84E+06
15309	2	1	1	16	.
15309	2	1	1	19	.
15309	2	1	1	22	.
15309	2	1	1	25	.
15309	2	1	1	28	.
15309	2	1	1	31	.
15309	1	1	2	16	1.40E+07
15309	1	1	2	19	9.33E+06
15309	1	1	2	22	6.29E+06
15309	1	1	2	25	4.15E+06
15309	1	1	2	28	2.70E+06
15309	1	1	2	31	1.72E+06
15309	2	1	2	16	.
15309	2	1	2	19	.
15309	2	1	2	22	.
15309	2	1	2	25	.
15309	2	1	2	28	.
15309	2	1	2	31	.
15309	1	2	1	16	2.08E+07

15309	1	2	1	19	1.48E+07
15309	1	2	1	22	1.06E+07
15309	1	2	1	25	7.53E+06
15309	1	2	1	28	5.25E+06
15309	1	2	1	31	3.64E+06
15309	2	2	1	16	.
15309	2	2	1	19	.
15309	2	2	1	22	.
15309	2	2	1	25	.
15309	2	2	1	28	.
15309	2	2	1	31	.
15309	1	2	2	16	1.87E+07
15309	1	2	2	19	1.28E+07
15309	1	2	2	22	8.84E+06
15309	1	2	2	25	6.06E+06
15309	1	2	2	28	4.12E+06
15309	1	2	2	31	2.79E+06
15309	2	2	2	16	.
15309	2	2	2	19	.
15309	2	2	2	22	.
15309	2	2	2	25	.
15309	2	2	2	28	.
15309	2	2	2	31	.
15309	1	3	1	16	1.46E+07
15309	1	3	1	19	1.03E+07
15309	1	3	1	22	7.33E+06
15309	1	3	1	25	5.12E+06
15309	1	3	1	28	3.54E+06
15309	1	3	1	31	2.40E+06
15309	2	3	1	16	.
15309	2	3	1	19	.
15309	2	3	1	22	.
15309	2	3	1	25	.
15309	2	3	1	28	.
15309	2	3	1	31	.
15309	1	3	2	16	1.62E+07
15309	1	3	2	19	1.10E+07
15309	1	3	2	22	7.51E+06
15309	1	3	2	25	5.06E+06
15309	1	3	2	28	3.35E+06
15309	1	3	2	31	2.21E+06
15309	2	3	2	16	.
15309	2	3	2	19	.
15309	2	3	2	22	.
15309	2	3	2	25	.
15309	2	3	2	28	.
15309	2	3	2	31	.
15617	1	0	0	16	1.38E+07
15617	1	0	0	19	9.04E+06
15617	1	0	0	22	5.73E+06
15617	1	0	0	25	3.51E+06
15617	1	0	0	28	2.15E+06
15617	1	0	0	31	1.34E+06
15617	2	0	0	16	1.27E+06

15617	2	0	0	19	8.34E+06
15617	2	0	0	22	5.21E+06
15617	2	0	0	25	3.11E+06
15617	2	0	0	28	1.79E+06
15617	2	0	0	31	1.11E+06
15617	1	1	1	16	1.25E+07
15617	1	1	1	19	8.22E+06
15617	1	1	1	22	5.35E+06
15617	1	1	1	25	3.41E+06
15617	1	1	1	28	2.16E+06
15617	1	1	1	31	1.36E+06
15617	2	1	1	16	.
15617	2	1	1	19	.
15617	2	1	1	22	.
15617	2	1	1	25	.
15617	2	1	1	28	.
15617	2	1	1	31	.
15617	1	1	2	16	2.87E+07
15617	1	1	2	19	2.07E+07
15617	1	1	2	22	1.45E+07
15617	1	1	2	25	9.94E+06
15617	1	1	2	28	6.63E+06
15617	1	1	2	31	4.30E+06
15617	2	1	2	16	.
15617	2	1	2	19	.
15617	2	1	2	22	.
15617	2	1	2	25	.
15617	2	1	2	28	.
15617	2	1	2	31	.
15617	1	2	1	16	1.37E+07
15617	1	2	1	19	9.11E+06
15617	1	2	1	22	5.91E+06
15617	1	2	1	25	3.81E+06
15617	1	2	1	28	2.42E+06
15617	1	2	1	31	1.55E+06
15617	2	2	1	16	.
15617	2	2	1	19	.
15617	2	2	1	22	.
15617	2	2	1	25	.
15617	2	2	1	28	.
15617	2	2	1	31	.
15617	1	2	2	16	2.43E+07
15617	1	2	2	19	1.69E+07
15617	1	2	2	22	1.16E+07
15617	1	2	2	25	7.68E+06
15617	1	2	2	28	5.02E+06
15617	1	2	2	31	2.79E+06
15617	2	2	2	16	.
15617	2	2	2	19	.
15617	2	2	2	22	.
15617	2	2	2	25	.
15617	2	2	2	28	.
15617	2	2	2	31	.
15617	1	3	1	16	1.46E+07

```

15617      1      3      1      19      1.03E+07
15617      1      3      1      22      7.33E+06
15617      1      3      1      25      5.12E+06
15617      1      3      1      28      3.54E+06
15617      1      3      1      31      2.40E+06
15617      2      3      1      16      .
15617      2      3      1      19      .
15617      2      3      1      22      .
15617      2      3      1      25      .
15617      2      3      1      28      .
15617      2      3      1      31      .
15617      1      3      2      16      4.80E+06
15617      1      3      2      19      3.09E+06
15617      1      3      2      22      1.94E+06
15617      1      3      2      25      1.21E+06
15617      1      3      2      28      7.43E+05
15617      1      3      2      31      4.41E+05
15617      2      3      2      16      .
15617      2      3      2      19      .
15617      2      3      2      22      .
15617      2      3      2      25      .
15617      2      3      2      28      .
15617      2      3      2      31      .
;
proc glm;
class proj sample loc tb;
where temp eq 16;
model lstiff= Proj loc proj*loc sample(proj*loc) tb tb*proj tb*loc
tb*proj*loc sample*tb(proj*loc);
test h=proj e=sample(proj*loc);
test h=loc e=sample(proj*loc);
test h=loc*tb e=sample(proj*loc);
test h=tb e=tb*sample(proj*loc);
test h=tb*proj e=tb*sample(proj*loc);
test h=tb*loc e=tb*sample(proj*loc);
test h= tb*proj*loc e=tb*sample(proj*loc);
output out=new p=p r=r;
proc print data=new;
run;

```

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General Linear Models Procedure
Class Level Information

Class	Levels	Values
PROJ	13	14643 15173 15174 15308 15309 15502 15617 15630 151651 151652 154041 1516511 1516521

SAMPLE	2	1 2
LOC	4	0 1 2 3
TB	3	0 1 2

Number of observations in data set = 182

NOTE: Due to missing values, only 139 observations can be used in this analysis.

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General Linear Models Procedure

Dependent Variable: LSTIFF

Source	DF	Sum of Squares	Mean Square	F Value	Pr
> F					
Model	138	13.734127	0.099523	.	.
Error	0	.	.		
Corrected Total	138	13.734127			

	R-Square	C.V.	Root MSE	LSTIFF
Mean				
	1.000000	0	0	
7.3269				

Source	DF	Type I SS	Mean Square	F Value	Pr
> F					
PROJ	12	4.1888756	0.3490730	.	.
LOC	3	3.8298387	1.2766129	.	.
PROJ*LOC	35	2.6235878	0.0749597	.	.
SAMPLE (PROJ*LOC)	32	0.5894403	0.0184200	.	.
TB	1	0.0094739	0.0094739	.	.
PROJ*Tb	12	0.3045783	0.0253815	.	.
LOC*Tb	2	0.0072481	0.0036240	.	.
PROJ*LOC*Tb	21	2.1802356	0.1038207	.	.
SAMPLE*Tb (PROJ*LOC)	20	0.0008489	0.0000424	.	.

Source > F	DF	Type III SS	Mean Square	F Value	Pr
PROJ	12	3.5378388	0.2948199	.	.
LOC	2	0.7258597	0.3629299	.	.
PROJ*LOC	23	1.3590096	0.0590874	.	.
SAMPLE (PROJ*LOC)	32	0.5894403	0.0184200	.	.
TB	1	0.0064905	0.0064905	.	.
PROJ*TB	12	0.3050802	0.0254234	.	.
LOC*TB	2	0.0302894	0.0151447	.	.
PROJ*LOC*TB	21	2.1802356	0.1038207	.	.
SAMPLE*TB (PROJ*LOC)	20	0.0008489	0.0000424	.	.

Tests of Hypotheses using the Type III MS for
SAMPLE (PROJ*LOC) as an error term

Source > F	DF	Type III SS	Mean Square	F Value	Pr
PROJ	12	3.5378388	0.2948199	16.01	
0.0001					

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General Linear Models Procedure

Dependent Variable: LSTIFF

Tests of Hypotheses using the Type III MS for
SAMPLE (PROJ*LOC) as an error term

Source > F	DF	Type III SS	Mean Square	F Value	Pr
LOC	2	0.7258597	0.3629299	19.70	
0.0001					

Tests of Hypotheses using the Type III MS for
SAMPLE (PROJ*LOC) as an error term

Source > F	DF	Type III SS	Mean Square	F Value	Pr
LOC*TB	2	0.0302894	0.0151447	0.82	
0.4485					

Tests of Hypotheses using the Type III MS for
SAMPLE*TB (PROJ*LOC) as an error term

Source > F	DF	Type III SS	Mean Square	F Value	Pr

TB	1	0.0064905	0.0064905	152.91
0.0001				

Tests of Hypotheses using the Type III MS for
SAMPLE*TB(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
PROJ*TB	12	0.3050802	0.0254234	598.95	
0.0001					

Tests of Hypotheses using the Type III MS for
SAMPLE*TB(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
LOC*TB	2	0.0302894	0.0151447	356.80	
0.0001					

Tests of Hypotheses using the Type III MS for
SAMPLE*TB(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
PROJ*LOC*TB	21	2.1802356	0.1038207	2445.92	
0.0001					

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OBS	PROJ	SAMPLE	LOC	TB	TEMP	STIFF	LSTIFF	P	R
1	14643	1	0	0	16	13600000	7.13354	7.13354	1.77636E-15
2	14643	2	0	0	16	15400000	7.18752	7.18752	2.66454E-15
3	14643	1	1	1	16	21400000	7.33041	7.33041	1.77636E-15
4	14643	2	1	1	16	22600000	7.35411	7.35411	2.66454E-15
5	14643	1	1	2	16	14700000	7.16732	7.16732	3.55271E-15
6	14643	2	1	2	16	15400000	7.18752	7.18752	1.77636E-15
7	14643	1	2	1	16	18700000	7.27184	7.27184	1.77636E-15
8	14643	2	2	1	16	19400000	7.28780	7.28780	3.55271E-15
9	14643	1	2	2	16	14900000	7.17319	7.17319	2.66454E-15
10	14643	2	2	2	16	15100000	7.17898	7.17898	4.44089E-15
11	14643	1	3	1	16	2150000	6.33244	6.33244	1.77636E-15
12	14643	2	3	1	16	2250000	6.35218	6.35218	8.88178E-16
13	14643	1	3	2	16	16000000	7.20412	7.20412	3.55271E-15
14	14643	2	3	2	16	16500000	7.21748	7.21748	-5.3291E-15
15	151651	1	0	0	16	8280000	6.91803	6.91803	1.77636E-15

16	151651	2	0	0	16	63700000	6.80414	6.80414	8.88178E-16
17	151651	1	1	1	16	42200000	7.62531	7.62531	2.66454E-15
18	151651	2	1	1	16	39200000	7.59329	7.59329	3.55271E-15
19	151651	1	1	2	16	76600000	7.88423	7.88423	2.66454E-15
20	151651	2	1	2	16	71100000	7.85187	7.85187	2.66454E-15
21	151651	1	2	1	16	54100000	7.73320	7.73320	1.77636E-15
22	151651	2	2	1	16	50200000	7.70070	7.70070	8.88178E-16
23	151651	1	2	2	16	35500000	7.55023	7.55023	2.66454E-15
24	151651	2	2	2	16	32100000	7.50651	7.50651	2.66454E-15
25	151651	1	3	1	16	30500000	7.48430	7.48430	1.77636E-15
26	151651	2	3	1	16	29200000	7.46538	7.46538	8.88178E-16
27	151651	1	3	2	16	21900000	7.34044	7.34044	3.55271E-15
28	151651	2	3	2	16	21400000	7.33041	7.33041	-7.9936E-15
29	1516511	1	0	0	16	8280000	6.91803	6.91803	1.77636E-15
30	1516511	2	0	0	16	6370000	6.80414	6.80414	8.88178E-16
31	1516511	1	1	1	16	47100000	7.67302	7.67302	-1.2079E-13
32	1516511	2	1	1	16	.	.	.	.
33	1516511	1	1	2	16	48100000	7.68215	7.68215	1.24345E-13
34	1516511	2	1	2	16	.	.	.	.
35	1516511	1	2	1	16	1530000	6.18469	6.18469	-2.3093E-14
36	1516511	2	2	1	16	.	.	.	.
37	1516511	1	2	2	16	24200000	7.38382	7.38382	2.66454E-14
38	1516511	2	2	2	16	.	.	.	.
39	1516511	1	3	1	16	25800000	7.41162	7.41162	1.51879E-13
40	1516511	2	3	1	16	.	.	.	.
41	1516511	1	3	2	16	11100000	7.04532	7.04532	-1.501E-13
42	1516511	2	3	2	16	.	.	.	.
43	151652	1	0	0	16	8280000	6.91803	6.91803	1.77636E-15
44	151652	2	0	0	16	6370000	6.80414	6.80414	8.88178E-16
45	151652	1	1	1	16	42200000	7.62531	7.62531	2.66454E-15
46	151652	2	1	1	16	.	.	.	.
47	151652	1	1	2	16	76600000	7.88423	7.88423	1.77636E-15
48	151652	2	1	2	16	.	.	.	.
49	151652	1	2	1	16	54100000	7.73320	7.73320	2.66454E-15
50	151652	2	2	1	16	.	.	.	.

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OBS	PROJ	SAMPLE	LOC	TB	TEMP	STIFF	LSTIFF	P	R
51	151652	1	2	2	16	35500000	7.55023	7.55023	2.66454E-15
52	151652	2	2	2	16	.	.	.	.
53	151652	1	3	1	16	30500000	7.48430	7.48430	0
54	151652	2	3	1	16	.	.	.	.
55	151652	1	3	2	16	21900000	7.34044	7.34044	1.77636E-15
56	151652	2	3	2	16	.	.	.	.
57	1516521	1	0	0	16	8280000	6.91803	6.91803	1.77636E-15
58	1516521	2	0	0	16	6370000	6.80414	6.80414	-2.0428E-14
59	1516521	1	1	1	16	67900000	7.83187	7.83187	1.27898E-13
60	1516521	2	1	1	16	.	.	.	.
61	1516521	1	1	2	16	53700000	7.72997	7.72997	-6.4837E-14
62	1516521	2	1	2	16	.	.	.	.

63	1516521	1	2	1	16	.	.	.	.
64	1516521	2	2	1	16	.	.	.	.
65	1516521	1	2	2	16	275000000	7.43933	7.43933	-5.7732E-14
66	1516521	2	2	2	16	.	.	.	.
67	1516521	1	3	1	16	.	.	.	.
68	1516521	2	3	1	16	.	.	.	.
69	1516521	1	3	2	16	460000000	7.66276	7.66276	1.74083E-13
70	1516521	2	3	2	16	.	.	.	.
71	15308	1	0	0	16	237000000	7.37475	7.37475	1.77636E-15
72	15308	2	0	0	16	216000000	7.33445	7.33445	1.77636E-15
73	15308	1	1	1	16	455000000	7.65801	7.65801	2.66454E-15
74	15308	2	1	1	16	478000000	7.67943	7.67943	3.55271E-15
75	15308	1	1	2	16	539000000	7.73159	7.73159	1.77636E-15
76	15308	2	1	2	16	571000000	7.75664	7.75664	8.88178E-16
77	15308	1	2	1	16	420000000	7.62325	7.62325	2.66454E-15
78	15308	2	2	1	16	445000000	7.64836	7.64836	2.66454E-15
79	15308	1	2	2	16	367000000	7.56467	7.56467	8.88178E-16
80	15308	2	2	2	16	385000000	7.58546	7.58546	3.55271E-15
81	15308	1	3	1	16	386000000	7.58659	7.58659	2.66454E-15
82	15308	2	3	1	16	406000000	7.60853	7.60853	3.55271E-15
83	15308	1	3	2	16	574000000	7.75891	7.75891	3.55271E-15
84	15308	2	3	2	16	604000000	7.78104	7.78104	8.88178E-15
85	15502	1	0	0	16	133000000	7.12385	7.12385	2.66454E-15
86	15502	2	0	0	16	120000000	7.07918	7.07918	2.66454E-15
87	15502	1	1	1	16	219000000	7.34044	7.34044	2.66454E-15
88	15502	2	1	1	16	245000000	7.38917	7.38917	3.55271E-15
89	15502	1	1	2	16	329000000	7.51720	7.51720	2.66454E-15
90	15502	2	1	2	16	352000000	7.54654	7.54654	8.88178E-16
91	15502	1	2	1	16	175000000	7.24304	7.24304	2.66454E-15
92	15502	2	2	1	16	193000000	7.28556	7.28556	1.77636E-15
93	15502	1	2	2	16	262000000	7.41830	7.41830	1.77636E-15
94	15502	2	2	2	16	316000000	7.49969	7.49969	1.77636E-15
95	15502	1	3	1	16	345000000	7.53782	7.53782	2.66454E-15
96	15502	2	3	1	16	383000000	7.58320	7.58320	1.77636E-15
97	15502	1	3	2	16	112000000	7.04922	7.04922	2.66454E-15
98	15502	2	3	2	16	121000000	7.08279	7.08279	7.99361E-15
99	154041	1	0	0	16	164000000	7.21484	7.21484	1.77636E-15
100	154041	2	0	0	16	136000000	7.13354	7.13354	1.77636E-15

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OBS	PROJ	SAMPLE	LOC	TB	TEMP	STIFF	LSTIFF	P	R
101	154041	1	1	1	16	231000000	7.36361	7.36361	2.66454E-15
102	154041	2	1	1	16	259000000	7.41330	7.41330	1.77636E-15
103	154041	1	1	2	16	319000000	7.50379	7.50379	3.55271E-15
104	154041	2	1	2	16	336000000	7.52634	7.52634	2.66454E-15
105	154041	1	2	1	16	294000000	7.46835	7.46835	2.66454E-15
106	154041	2	2	1	16	323000000	7.50920	7.50920	2.66454E-15
107	154041	1	2	2	16	243000000	7.38561	7.38561	1.77636E-15
108	154041	2	2	2	16	266000000	7.42488	7.42488	4.44089E-15
109	154041	1	3	1	16	214000000	7.33041	7.33041	1.77636E-15

110	154041	2	3	1	16	23900000	7.37840	7.37840	-2.6645E-15
111	154041	1	3	2	16	20900000	7.32015	7.32015	1.77636E-15
112	154041	2	3	2	16	22700000	7.35603	7.35603	-6.2172E-15
113	15630	1	0	0	16	13700000	7.13672	7.13672	1.77636E-15
114	15630	2	0	0	16	12200000	7.08636	7.08636	2.66454E-15
115	15630	1	1	1	16	25800000	7.41162	7.41162	2.66454E-15
116	15630	2	1	1	16	27200000	7.43457	7.43457	2.66454E-15
117	15630	1	1	2	16	14000000	7.14613	7.14613	3.55271E-15
118	15630	2	1	2	16	14800000	7.17026	7.17026	8.88178E-16
119	15630	1	2	1	16	20800000	7.31806	7.31806	2.66454E-15
120	15630	2	2	1	16	21900000	7.34044	7.34044	3.55271E-15
121	15630	1	2	2	16	18700000	7.27184	7.27184	3.55271E-15
122	15630	2	2	2	16	19800000	7.29667	7.29667	1.77636E-15
123	15630	1	3	1	16	14600000	7.16435	7.16435	2.66454E-15
124	15630	2	3	1	16	15500000	7.19033	7.19033	3.55271E-15
125	15630	1	3	2	16	16200000	7.20952	7.20952	1.77636E-15
126	15630	2	3	2	16	17100000	7.23300	7.23300	-2.0428E-14
127	15173	1	0	0	16	13000000	7.11394	7.11394	1.77636E-15
128	15173	2	0	0	16	.	.	.	.
129	15173	1	1	1	16	25800000	7.41162	7.41162	2.66454E-15
130	15173	2	1	1	16	.	.	.	.
131	15173	1	1	2	16	14000000	7.14613	7.14613	3.55271E-15
132	15173	2	1	2	16	.	.	.	.
133	15173	1	2	1	16	20800000	7.31806	7.31806	2.66454E-15
134	15173	2	2	1	16	.	.	.	.
135	15173	1	2	2	16	18700000	7.27184	7.27184	2.66454E-15
136	15173	2	2	2	16	.	.	.	.
137	15173	1	3	1	16	14600000	7.16435	7.16435	4.44089E-15
138	15173	2	3	1	16	.	.	.	.
139	15173	1	3	2	16	16200000	7.20952	7.20952	-3.5527E-15
140	15173	2	3	2	16	.	.	.	.
141	15174	1	0	0	16	12100000	7.08279	7.08279	1.77636E-15
142	15174	2	0	0	16	12200000	7.08636	7.08636	8.88178E-16
143	15174	1	1	1	16	.	.	.	.
144	15174	2	1	1	16	.	.	.	.
145	15174	1	1	2	16	.	.	.	.
146	15174	2	1	2	16	.	.	.	.
147	15174	1	2	1	16	39100000	7.59218	7.59218	1.77636E-15
148	15174	2	2	1	16	37100000	7.56937	7.56937	8.88178E-16
149	15174	1	2	2	16	42200000	7.62531	7.62531	1.77636E-15
150	15174	2	2	2	16	40200000	7.60423	7.60423	3.55271E-15

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OBS	PROJ	SAMPLE	LOC	TB	TEMP	STIFF	LSTIFF	P	R
151	15174	1	3	1	16	45200000	7.65514	7.65514	2.66454E-15
152	15174	2	3	1	16	44900000	7.65225	7.65225	8.88178E-16
153	15174	1	3	2	16	45000000	7.65321	7.65321	1.77636E-15
154	15174	2	3	2	16	45600000	7.65896	7.65896	1.59872E-14
155	15309	1	0	0	16	8140000	6.91062	6.91062	1.77636E-15
156	15309	2	0	0	16	8070000	6.90687	6.90687	1.77636E-15

157	15309	1	1	1	16	25800000	7.41162	7.41162	3.55271E-15
158	15309	2	1	1	16	.	.	.	.
159	15309	1	1	2	16	14000000	7.14613	7.14613	3.55271E-15
160	15309	2	1	2	16	.	.	.	.
161	15309	1	2	1	16	20800000	7.31806	7.31806	2.66454E-15
162	15309	2	2	1	16	.	.	.	.
163	15309	1	2	2	16	18700000	7.27184	7.27184	3.55271E-15
164	15309	2	2	2	16	.	.	.	.
165	15309	1	3	1	16	14600000	7.16435	7.16435	3.55271E-15
166	15309	2	3	1	16	.	.	.	.
167	15309	1	3	2	16	16200000	7.20952	7.20952	8.88178E-16
168	15309	2	3	2	16	.	.	.	.
169	15617	1	0	0	16	13800000	7.13988	7.13988	1.77636E-15
170	15617	2	0	0	16	1270000	6.10380	6.10380	1.77636E-15
171	15617	1	1	1	16	12500000	7.09691	7.09691	2.66454E-15
172	15617	2	1	1	16	.	.	.	.
173	15617	1	1	2	16	28700000	7.45788	7.45788	2.66454E-15
174	15617	2	1	2	16	.	.	.	.
175	15617	1	2	1	16	13700000	7.13672	7.13672	1.77636E-15
176	15617	2	2	1	16	.	.	.	.
177	15617	1	2	2	16	24300000	7.38561	7.38561	1.77636E-15
178	15617	2	2	2	16	.	.	.	.
179	15617	1	3	1	16	14600000	7.16435	7.16435	2.66454E-15
180	15617	2	3	1	16	.	.	.	.
181	15617	1	3	2	16	4800000	6.68124	6.68124	-5.3291E-15
182	15617	2	3	2	16	.	.	.	.


```

options ls=72;
data analysis;
input proj sample loc tb temp stiff;
lstiff=log10(stiff);
cards;

```

"SAME DATA USED IN THE PREVIOUS PROGRAM"

```

;
proc glm;
class proj sample loc tb;
model lstiff= Proj loc proj*loc sample(proj*loc) tb tb*proj tb*loc
tb*proj*loc sample*tb(proj*loc) temp;
means proj Loc tb/snk;
output out=a;
run;

```

The SAS System

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General Linear Models Procedure Class Level Information

Class	Levels	Values
PROJ	13	14643 15173 15174 15308 15309 15502 15617 15630 151651 151652 154041 1516511 1516521
SAMPLE	2	1 2
LOC	4	0 1 2 3
TB	3	0 1 2

Number of observations in data set = 1092

NOTE: Due to missing values, only 832 observations can be used in
this
analysis.

The SAS System

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General Linear Models Procedure

Dependent Variable: LSTIFF

Sum of

Mean

Source > F	DF	Squares	Square	F Value	Pr
Model 0.0001	139	155.69061	1.12008	159.03	
Error	692	4.87384	0.00704		
Corrected Total	831	160.56446			
Mean	R-Square	C.V.	Root MSE	LSTIFF	
6.9505	0.969646	1.207444	0.0839		

Source > F	DF	Type I SS	Mean Square	F Value	Pr
PROJ 0.0001	12	29.351779	2.445982	347.29	
LOC 0.0001	3	31.507983	10.502661	1491.19	
PROJ*LOC 0.0001	35	17.934935	0.512427	72.76	
SAMPLE (PROJ*LOC) 0.0002	32	0.500513	0.015641	2.22	
TB 0.6169	1	0.001765	0.001765	0.25	
PROJ*TB 0.0001	12	1.999390	0.166616	23.66	
LOC*TB 0.0075	2	0.069447	0.034723	4.93	
PROJ*LOC*TB 0.0001	21	13.092419	0.623449	88.52	
SAMPLE*TB (PROJ*LOC) 1.0000	20	0.009886	0.000494	0.07	
TEMP 0.0001	1	61.222498	61.222498	8692.52	

Source > F	DF	Type III SS	Mean Square	F Value	Pr
PROJ 0.0001	12	24.276512	2.023043	287.24	
LOC 0.0001	2	5.415015	2.707508	384.42	
PROJ*LOC 0.0001	23	6.742716	0.293162	41.62	
SAMPLE (PROJ*LOC) 0.0002	32	0.500513	0.015641	2.22	
TB 0.0297	1	0.033423	0.033423	4.75	

PROJ*TB	12	2.029204	0.169100	24.01
0.0001				
LOC*TB	2	0.131961	0.065980	9.37
0.0001				
PROJ*LOC*TB	21	13.092419	0.623449	88.52
0.0001				
SAMPLE*TB (PROJ*LOC)	20	0.009886	0.000494	0.07
1.0000				
TEMP	1	61.222498	61.222498	8692.52
0.0001				

The SAS System

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General Linear Models Procedure

Student-Newman-Keuls test for variable: LSTIFF

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 692 MSE= 0.007043

WARNING: Cell sizes are not equal.

Harmonic Mean of cell sizes= 58.05602

Number of Means	2	3	4	5
Critical Range	0.0305832	0.0365859	0.0401151	0.0426023

Number of Means	6	7	8	9
Critical Range	0.0445139	0.0460608	0.0473564	0.0484687

Number of Means	10	11	12	13
Critical Range	0.0494417	0.0503052	0.0510807	0.0517838

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	PROJ
A	7.25106	84	15308
B	7.20358	60	15174
C	7.11090	84	151651
D	7.04309	84	154041
D			
D	7.02821	48	151652
E	6.99200	36	1516521

F	6.93534	84	15502
G	6.84158	48	1516511
G			
G	6.83833	84	15630
G			
G	6.83530	42	15173
H	6.78243	46	15309
I	6.66647	48	15617
I			
I	6.65545	84	14643

The SAS System

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General Linear Models Procedure

Student-Newman-Keuls test for variable: LSTIFF

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 692 MSE= 0.007043

WARNING: Cell sizes are not equal.

Harmonic Mean of cell sizes= 200.6683

Number of Means	2	3	4
Critical Range	0.01645	0.0196788	0.0215771

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	LOC
A	7.125986	216	1
B	7.051418	234	2
C	6.929110	234	3
D	6.568618	148	0

The SAS System

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General Linear Models Procedure

Student-Newman-Keuls test for variable: LSTIFF

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 692 MSE= 0.007043
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 237.9723

Number of Means   2   3
 Critical Range   0.0151058 0.0180707

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TB
A	7.033917	348	2
A			
A	7.032302	336	1
B	6.568618	148	0

The SAS System

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General Linear Models Procedure

Class Level Information

Class	Levels	Values
PROJ	13	14643 15173 15174 15308 15309 15502 15617 15630 151651 151652 154041 1516511 1516521
SAMPLE	2	1 2
LOC	4	0 1 2 3
TB	3	0 1 2

Number of observations in data set = 182

NOTE: Due to missing values, only 139 observations can be used in this analysis.

The SAS System

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1999

General Linear Models Procedure

Dependent Variable: LSTIFF

Source	DF	Sum of Squares	Mean Square	F Value	Pr
> F					
Model	138	19.153587	0.138794	.	.
Error	0	.	.		
Corrected Total	138	19.153587			
	R-Square	C.V.	Root MSE	LSTIFF	
Mean					
	1.000000	0	0		
6.7128					

Source	DF	Type I SS	Mean Square	F Value	Pr
> F					
PROJ	12	6.1164845	0.5097070	.	.
LOC	3	6.5114021	2.1704674	.	.
PROJ*LOC	35	3.4642957	0.0989799	.	.
SAMPLE(PROJ*LOC)	32	0.0752677	0.0023521	.	.
TB	1	0.0061582	0.0061582	.	.
PROJ*TB	12	0.4721208	0.0393434	.	.
LOC*TB	2	0.0196529	0.0098265	.	.
PROJ*LOC*TB	21	2.4864080	0.1184004	.	.
SAMPLE*TB(PROJ*LOC)	20	0.0017973	0.0000899	.	.

Source	DF	Type III SS	Mean Square	F Value	Pr
> F					

PROJ	12	5.0323086	0.4193591	.	.
LOC	2	1.0077095	0.5038548	.	.
PROJ*LOC	23	1.3467805	0.0585557	.	.
SAMPLE(PROJ*LOC)	32	0.0752677	0.0023521	.	.
TB	1	0.0226107	0.0226107	.	.
PROJ*TB	12	0.4797047	0.0399754	.	.
LOC*TB	2	0.0292258	0.0146129	.	.
PROJ*LOC*TB	21	2.4864080	0.1184004	.	.
SAMPLE*TB(PROJ*LOC)	20	0.0017973	0.0000899	.	.

Tests of Hypotheses using the Type III MS for
SAMPLE(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
> F					
PROJ	12	5.0323086	0.4193591	178.29	
0.0001					

The SAS System

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General Linear Models Procedure

Dependent Variable: LSTIFF

Tests of Hypotheses using the Type III MS for
SAMPLE(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
> F					
LOC	2	1.0077095	0.5038548	214.21	
0.0001					

Tests of Hypotheses using the Type III MS for
SAMPLE(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
> F					

LOC*TB	2	0.0292258	0.0146129	6.21
0.0053				

Tests of Hypotheses using the Type III MS for
SAMPLE*TB(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
> F					
TB	1	0.0226107	0.0226107	251.61	
0.0001					

Tests of Hypotheses using the Type III MS for
SAMPLE*TB(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
> F					
PROJ*TB	12	0.4797047	0.0399754	444.85	
0.0001					

Tests of Hypotheses using the Type III MS for
SAMPLE*TB(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
> F					
LOC*TB	2	0.0292258	0.0146129	162.61	
0.0001					

Tests of Hypotheses using the Type III MS for
SAMPLE*TB(PROJ*LOC) as an error term

Source	DF	Type III SS	Mean Square	F Value	Pr
> F					
PROJ*LOC*TB	21	2.4864080	0.1184004	1317.56	
0.0001					

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OBS	PROJ	SAMPLE	LOC	TB	TEMP	STIFF	LSTIFF	P	R
1	14643	1	0	0	28	2100000	6.32222	6.32222	-8.8818E-16
2	14643	2	0	0	28	2490000	6.39620	6.39620	-8.8818E-16
3	14643	1	1	1	28	4590000	6.66181	6.66181	0
4	14643	2	1	1	28	4720000	6.67394	6.67394	8.88178E-16
5	14643	1	1	2	28	3050000	6.48430	6.48430	8.88178E-16
6	14643	2	1	2	28	3120000	6.49415	6.49415	-1.7764E-15
7	14643	1	2	1	28	4140000	6.61700	6.61700	-8.8818E-16
8	14643	2	2	1	28	4300000	6.63347	6.63347	0
9	14643	1	2	2	28	3190000	6.50379	6.50379	8.88178E-16
10	14643	2	2	2	28	3300000	6.51851	6.51851	0
11	14643	1	3	1	28	284000	5.45332	5.45332	-8.8818E-16
12	14643	2	3	1	28	290000	5.46240	5.46240	5.32907E-15
13	14643	1	3	2	28	3210000	6.50651	6.50651	-8.8818E-16
14	14643	2	3	2	28	3270000	6.51455	6.51455	-1.8652E-14
15	151651	1	0	0	28	1440000	6.15836	6.15836	-8.8818E-16
16	151651	2	0	0	28	1100000	6.04139	6.04139	-1.7764E-15
17	151651	1	1	1	28	10600000	7.02531	7.02531	0
18	151651	2	1	1	28	10300000	7.01284	7.01284	0
19	151651	1	1	2	28	22800000	7.35793	7.35793	0
20	151651	2	1	2	28	22000000	7.34242	7.34242	-1.7764E-15
21	151651	1	2	1	28	13500000	7.13033	7.13033	-8.8818E-16
22	151651	2	2	1	28	13100000	7.11727	7.11727	-1.7764E-15
23	151651	1	2	2	28	8870000	6.94792	6.94792	0
24	151651	2	2	2	28	8650000	6.93702	6.93702	0
25	151651	1	3	1	28	7950000	6.90037	6.90037	-8.8818E-16
26	151651	2	3	1	28	7620000	6.88195	6.88195	-7.1054E-15
27	151651	1	3	2	28	5760000	6.76042	6.76042	-8.8818E-16
28	151651	2	3	2	28	5770000	6.76118	6.76118	8.88178E-15
29	1516511	1	0	0	28	1440000	6.15836	6.15836	-8.8818E-16
30	1516511	2	0	0	28	1100000	6.04139	6.04139	-1.7764E-15
31	1516511	1	1	1	28	12400000	7.09342	7.09342	6.83897E-14
32	1516511	2	1	1	28	.	.	.	.
33	1516511	1	1	2	28	12300000	7.08991	7.08991	-7.0166E-14
34	1516511	2	1	2	28	.	.	.	.
35	1516511	1	2	1	28	5380000	6.73078	6.73078	-1.7764E-14
36	1516511	2	2	1	28	.	.	.	.
37	1516511	1	2	2	28	5860000	6.76790	6.76790	1.68754E-14
38	1516511	2	2	2	28	.	.	.	.
39	1516511	1	3	1	28	6320000	6.80072	6.80072	-5.3291E-14

40	1516511	2	3	1	28	.	.	.	.
41	1516511	1	3	2	28	2570000	6.40993	6.40993	5.59552E-14
42	1516511	2	3	2	28	.	.	.	.
43	151652	1	0	0	28	1440000	6.15836	6.15836	-8.8818E-16
44	151652	2	0	0	28	1100000	6.04139	6.04139	-1.7764E-15
45	151652	1	1	1	28	10600000	7.02531	7.02531	0
46	151652	2	1	1	28	.	.	.	.
47	151652	1	1	2	28	22800000	7.35793	7.35793	0
48	151652	2	1	2	28	.	.	.	.
49	151652	1	2	1	28	13500000	7.13033	7.13033	-8.8818E-16
50	151652	2	2	1	28	.	.	.	.

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OBS	PROJ	SAMPLE	LOC	TB	TEMP	STIFF	LSTIFF	P	R
51	151652	1	2	2	28	8870000	6.94792	6.94792	-8.8818E-16
52	151652	2	2	2	28	.	.	.	.
53	151652	1	3	1	28	7950000	6.90037	6.90037	8.88178E-16
54	151652	2	3	1	28	.	.	.	.
55	151652	1	3	2	28	5760000	6.76042	6.76042	-1.7764E-15
56	151652	2	3	2	28	.	.	.	.
57	1516521	1	0	0	28	1440000	6.15836	6.15836	-8.8818E-16
58	1516521	2	0	0	28	1100000	6.04139	6.04139	1.5099E-14
59	1516521	1	1	1	28	18100000	7.25768	7.25768	-8.5265E-14
60	1516521	2	1	1	28	.	.	.	.
61	1516521	1	1	2	28	13600000	7.13354	7.13354	9.14824E-14
62	1516521	2	1	2	28	.	.	.	.
63	1516521	1	2	1	28	.	.	.	.
64	1516521	2	2	1	28	.	.	.	.
65	1516521	1	2	2	28	6900000	6.83885	6.83885	7.10543E-15
66	1516521	2	2	2	28	.	.	.	.
67	1516521	1	3	1	28	.	.	.	.
68	1516521	2	3	1	28	.	.	.	.
69	1516521	1	3	2	28	10800000	7.03342	7.03342	-2.3626E-13
70	1516521	2	3	2	28	.	.	.	.
71	15308	1	0	0	28	4560000	6.65896	6.65896	-8.8818E-16
72	15308	2	0	0	28	4170000	6.62014	6.62014	-8.8818E-16
73	15308	1	1	1	28	11500000	7.06070	7.06070	0
74	15308	2	1	1	28	11700000	7.06819	7.06819	-8.8818E-16
75	15308	1	1	2	28	16700000	7.22272	7.22272	0
76	15308	2	1	2	28	16900000	7.22789	7.22789	1.77636E-15

77	15308	1	2	1	28	10400000	7.01703	7.01703	-8.8818E-16
78	15308	2	2	1	28	10600000	7.02531	7.02531	0
79	15308	1	2	2	28	9290000	6.96802	6.96802	0
80	15308	2	2	2	28	9460000	6.97589	6.97589	0
81	15308	1	3	1	28	9810000	6.99167	6.99167	0
82	15308	2	3	1	28	10000000	7.00000	7.00000	-8.8818E-16
83	15308	1	3	2	28	17600000	7.24551	7.24551	-8.8818E-16
84	15308	2	3	2	28	18000000	7.25527	7.25527	-1.954E-14
85	15502	1	0	0	28	1790000	6.25285	6.25285	-8.8818E-16
86	15502	2	0	0	28	1670000	6.22272	6.22272	-1.7764E-15
87	15502	1	1	1	28	6440000	6.80889	6.80889	-8.8818E-16
88	15502	2	1	1	28	7440000	6.87157	6.87157	0
89	15502	1	1	2	28	14900000	7.17319	7.17319	0
90	15502	2	1	2	28	15900000	7.20140	7.20140	0
91	15502	1	2	1	28	4240000	6.62737	6.62737	-8.8818E-16
92	15502	2	2	1	28	4870000	6.68753	6.68753	-8.8818E-16
93	15502	1	2	2	28	6450000	6.80956	6.80956	-8.8818E-16
94	15502	2	2	2	28	7750000	6.88930	6.88930	1.77636E-15
95	15502	1	3	1	28	6970000	6.84323	6.84323	-8.8818E-16
96	15502	2	3	1	28	7870000	6.89597	6.89597	-1.7764E-15
97	15502	1	3	2	28	1310000	6.11727	6.11727	-8.8818E-16
98	15502	2	3	2	28	1680000	6.22531	6.22531	-1.7764E-15
99	154041	1	0	0	28	3600000	6.55630	6.55630	-8.8818E-16
100	154041	2	0	0	28	2900000	6.46240	6.46240	-8.8818E-16

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OBS	PROJ	SAMPLE	LOC	TB	TEMP	STIFF	LSTIFF	P	R
101	154041	1	1	1	28	7780000	6.89098	6.89098	0
102	154041	2	1	1	28	8440000	6.92634	6.92634	0
103	154041	1	1	2	28	7320000	6.86451	6.86451	0
104	154041	2	1	2	28	7480000	6.87390	6.87390	-1.7764E-15
105	154041	1	2	1	28	6750000	6.82930	6.82930	-8.8818E-16
106	154041	2	2	1	28	7220000	6.85854	6.85854	0
107	154041	1	2	2	28	6120000	6.78675	6.78675	0
108	154041	2	2	2	28	6840000	6.83506	6.83506	0
109	154041	1	3	1	28	8920000	6.95036	6.95036	-8.8818E-16
110	154041	2	3	1	28	10000000	7.00000	7.00000	-3.5527E-15
111	154041	1	3	2	28	7380000	6.86806	6.86806	-1.7764E-15
112	154041	2	3	2	28	7980000	6.90200	6.90200	8.88178E-15
113	15630	1	0	0	28	2960000	6.47129	6.47129	-8.8818E-16

114	15630	2	0	0	28	2520000	6.40140	6.40140	-1.7764E-15
115	15630	1	1	1	28	6940000	6.84136	6.84136	-8.8818E-16
116	15630	2	1	1	28	7010000	6.84572	6.84572	-1.7764E-15
117	15630	1	1	2	28	2700000	6.43136	6.43136	-8.8818E-16
118	15630	2	1	2	28	2780000	6.44404	6.44404	0
119	15630	1	2	1	28	5250000	6.72016	6.72016	-8.8818E-16
120	15630	2	2	1	28	5410000	6.73320	6.73320	0
121	15630	1	2	2	28	4120000	6.61490	6.61490	-1.7764E-15
122	15630	2	2	2	28	4260000	6.62941	6.62941	0
123	15630	1	3	1	28	3540000	6.54900	6.54900	-8.8818E-16
124	15630	2	3	1	28	3680000	6.56585	6.56585	0
125	15630	1	3	2	28	3350000	6.52504	6.52504	-1.7764E-15
126	15630	2	3	2	28	3480000	6.54158	6.54158	-1.2434E-14
127	15173	1	0	0	28	3040000	6.48287	6.48287	-8.8818E-16
128	15173	2	0	0	28	.	.	.	.
129	15173	1	1	1	28	6940000	6.84136	6.84136	0
130	15173	2	1	1	28	.	.	.	.
131	15173	1	1	2	28	2700000	6.43136	6.43136	0
132	15173	2	1	2	28	.	.	.	.
133	15173	1	2	1	28	5250000	6.72016	6.72016	0
134	15173	2	2	1	28	.	.	.	.
135	15173	1	2	2	28	4120000	6.61490	6.61490	-1.7764E-15
136	15173	2	2	2	28	.	.	.	.
137	15173	1	3	1	28	3540000	6.54900	6.54900	-8.8818E-16
138	15173	2	3	1	28	.	.	.	.
139	15173	1	3	2	28	3350000	6.52504	6.52504	2.66454E-15
140	15173	2	3	2	28	.	.	.	.
141	15174	1	0	0	28	1690000	6.22789	6.22789	-8.8818E-16
142	15174	2	0	0	28	2500000	6.39794	6.39794	-8.8818E-16
143	15174	1	1	1	28	.	.	.	.
144	15174	2	1	1	28	.	.	.	.
145	15174	1	1	2	28	.	.	.	.
146	15174	2	1	2	28	.	.	.	.
147	15174	1	2	1	28	13800000	7.13988	7.13988	-8.8818E-16
148	15174	2	2	1	28	14300000	7.15534	7.15534	-8.8818E-16
149	15174	1	2	2	28	15000000	7.17609	7.17609	-8.8818E-16
150	15174	2	2	2	28	15500000	7.19033	7.19033	8.88178E-16

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OBS	PROJ	SAMPLE	LOC	TB	TEMP	STIFF	LSTIFF	P	R

151	15174	1	3	1	28	19200000	7.28330	7.28330	0
152	15174	2	3	1	28	18400000	7.26482	7.26482	-8.8818E-16
153	15174	1	3	2	28	17400000	7.24055	7.24055	0
154	15174	2	3	2	28	17800000	7.25042	7.25042	1.77636E-15
155	15309	1	0	0	28	1340000	6.12710	6.12710	-8.8818E-16
156	15309	2	0	0	28	1440000	6.15836	6.15836	-8.8818E-16
157	15309	1	1	1	28	6930000	6.84073	6.84073	0
158	15309	2	1	1	28	.	.	.	.
159	15309	1	1	2	28	2700000	6.43136	6.43136	-8.8818E-16
160	15309	2	1	2	28	.	.	.	.
161	15309	1	2	1	28	5250000	6.72016	6.72016	0
162	15309	2	2	1	28	.	.	.	.
163	15309	1	2	2	28	4120000	6.61490	6.61490	-8.8818E-16
164	15309	2	2	2	28	.	.	.	.
165	15309	1	3	1	28	3540000	6.54900	6.54900	-2.6645E-15
166	15309	2	3	1	28	.	.	.	.
167	15309	1	3	2	28	3350000	6.52504	6.52504	4.44089E-15
168	15309	2	3	2	28	.	.	.	.
169	15617	1	0	0	28	2150000	6.33244	6.33244	-8.8818E-16
170	15617	2	0	0	28	1790000	6.25285	6.25285	0
171	15617	1	1	1	28	2160000	6.33445	6.33445	0
172	15617	2	1	1	28	.	.	.	.
173	15617	1	1	2	28	6630000	6.82151	6.82151	-8.8818E-16
174	15617	2	1	2	28	.	.	.	.
175	15617	1	2	1	28	2420000	6.38382	6.38382	-8.8818E-16
176	15617	2	2	1	28	.	.	.	.
177	15617	1	2	2	28	5020000	6.70070	6.70070	0
178	15617	2	2	2	28	.	.	.	.
179	15617	1	3	1	28	3540000	6.54900	6.54900	0
180	15617	2	3	1	28	.	.	.	.
181	15617	1	3	2	28	743000	5.87099	5.87099	5.32907E-15
182	15617	2	3	2	28	.	.	.	.

APPENDIX D

Storage Time Effect on Stiffness of Extracted and Recovered Asphalts

Table D-1 Stiffnesses of the Asphalts from 1996 construction season

Temp	RTFO-96 (P21687)	Mix-96 (P21687)
40	1.62E+04	2.00E+04
46	8.24E+03	1.05E+04
52	4.79E+03	5.72E+03
58	2.60E+03	3.20E+03
64	1.59E+03	1.89E+03
70	9.47E+02	1.12E+03
76	5.70E+02	6.70E+02
80	3.92E+02	4.73E+02
40	2.05E+04	2.01E+04
46	1.05E+04	1.06E+04
52	5.67E+03	5.72E+03
58	3.24E+03	3.24E+03
64	1.90E+03	1.90E+03
70	1.13E+03	1.13E+03
76	6.83E+02	6.89E+02
80	4.90E+02	5.01E+02
Temp	RTFO-96 (P22350)	Mix-96 (P22350)
40	2.86E+04	3.52E+04
46	1.36E+04	1.70E+04
52	6.37E+03	8.06E+03
58	2.85E+03	3.68E+03
64	1.45E+03	1.78E+03
70	7.39E+02	9.21E+02
76	3.74E+02	4.77E+02
80	2.63E+02	3.08E+02
40	2.64E+04	3.40E+04
46	1.29E+04	1.65E+04
52	6.02E+03	7.74E+03
58	2.81E+03	3.61E+03
64	1.42E+03	1.76E+03
70	6.95E+02	8.55E+02
76	3.63E+02	4.52E+02
80	2.57E+02	2.94E+02

Table D-2 Difference in Means analysis Between RTFO and Cores taken Just after Construction in 1996.

t-Test: Paired Two Sample for Means		
	<i>RTFO-96</i>	<i>Mix-96</i>
Mean	5768.017037	6880.191205
Variance	59471084.93	88054781.7
Observations	32	32
Pearson Correlation	0.9934803	
Hypothesized Mean Difference	0	
Df	31	
t Stat	-3.25356338	
P(T<=t) one-tail	0.001376204	
t Critical one-tail	1.695518677	
P(T<=t) two-tail	0.002752409	
t Critical two-tail	2.039514584	

Table D-3 Difference in Means analysis at 64C.

t-Test: Paired Two Sample for Means		
	<i>RTFO-96 @ 64C</i>	<i>Mix-96 @64C</i>
Mean	1589.90231	1835.103092
Variance	48350.6717	5036.711662
Observations	4	4
Pearson Correlation	0.843804596	
Hypothesized Mean Difference	0	
df	3	
t Stat	-2.98164259	
P(T<=t) one-tail	0.029260048	
t Critical one-tail	2.353363016	
P(T<=t) two-tail	0.058520097	
t Critical two-tail	3.182449291	

Table D-4 Summary of RTFO and MIX data from 1985 and 1996 Paving Seasons.

Temp	Neat 1996	Mixes 1996	Neat 1985	mixes 1985
64	1.59E+03	1.84E+03	3.83E+03	12132.1

Table D-5 Summary of RTFO and Mix Asphalts Data from 1996 Construction Season

	58C	64C	70C	76C
RTFO - 96	2.87E+03	1.59E+03	8.78E+02	4.98E+02
MIX - 96	3.44E+03	1.84E+03	1.01E+03	5.72E+02

Figure D-1 RTFO and MIX asphalts from 1985 and 1996 Paving Seasons.

Figure D-2 RTFO and MIX asphalts from 1996 Paving Seasons.

APPENDIX E

Effect of Solvent Extraction and Recovery on the Stiffnesses of Asphalts Extracted
and Recovered from Field Samples

Table E-1   Stiffness of the Extracted and Recovered Asphalts Using TCE and TOL.

Extracted and Recovered Asphalt using TCE from Two Projects				
TEMP. C	p15165b1tce	p15165b2tce	p15165a1tce	p15165a2tce
40	4.68898E+05	4.63360E+05	5.68282E+05	3.83287E+05
46	2.14723E+05	2.27332E+05	2.82886E+05	2.35642E+05
52	9.63300E+04	1.01943E+05	1.29596E+05	1.05820E+05
58	4.37557E+04	4.56869E+04	5.92712E+04	4.73820E+04
64	1.99741E+04	2.05251E+04	2.73603E+04	2.14238E+04
70	9.22266E+03	9.40068E+03	1.26955E+04	9.79026E+03
76	4.37840E+03	4.41436E+03	6.00304E+03	4.62506E+03
80	2.72725E+03	2.73934E+03	3.70320E+03	2.86659E+03

Extracted and Recovered Asphalt using TOL from Two Projects				
TEMP. C	p15165b1tol	p15165b2tol	p15165a1tol	p15165a2tol
40	4.25176E+05	4.29078E+05	4.29447E+05	4.35897E+05
46	1.93504E+05	1.92651E+05	1.95702E+05	2.06215E+05
52	8.53519E+04	8.45144E+04	8.67199E+04	9.06769E+04
58	3.78400E+04	3.70862E+04	3.85275E+04	4.02584E+04
64	1.71127E+04	1.66296E+04	1.74258E+04	1.79854E+04
70	7.84944E+03	7.52522E+03	7.97573E+03	8.14926E+03
76	3.70472E+03	3.53022E+03	3.76269E+03	3.84992E+03
80	2.31600E+03	2.18246E+03	2.32763E+03	2.39601E+03

Table E-2 Difference in Means Analysis Between TOL and TCE Samples for the Two Projects.

t-Test: Paired Two Sample for Means		
	TOL	TCE
Mean	97917.7422	113626.31
Variance	2.0177E+10	2.531E+10
Observations	32	32
Pearson Correlation	0.98458298	
Hypothesized Mean Diff.	0	
df	31	
t Stat	-2.82791724	
P(T<=t) one-tail	0.0040689	
t Critical one-tail	1.69551868	
P(T<=t) two-tail	0.00813779	
t Critical two-tail	2.03951458	

Table E-3 Difference in Means Analysis Between TOL and TCE Samples for Project 15165b1.

t-Test: Paired Two Sample for Means		
	TOL	TCE
Mean	96628.24225	108463.0892
Variance	20533821695	24589726803
Observations	16	16
Pearson Correlation	0.999521237	
Hypothesized Mean Diff.	0	
df	15	
t Stat	-3.31306369	
P(T<=t) one-tail	0.002365237	
t Critical one-tail	1.753051038	
P(T<=t) two-tail	0.004730475	
t Critical two-tail	2.131450856	

Table E-4 Difference in Means Analysis Between TOL and TCE Samples for Project 15165a1.

t-Test: Paired Two Sample for Means		
	<i>Variable 1</i>	<i>Variable 2</i>
Mean	99207.24206	118789.5303
Variance	21161761536	27661620028
Observations	16	16
Pearson Correlation	0.971691082	
Hypothesized Mean Diff.	0	
df	15	
t Stat	-1.84396732	
P(T<=t) one-tail	0.042515488	
t Critical one-tail	1.753051038	
P(T<=t) two-tail	0.085030977	
t Critical two-tail	2.131450856	

Table E-5 Difference in Means Analysis Between TOL and TCE Samples for Project 15165a1 and 15165b1 at 64C.

15165a t-Test: Paired Two Sample for Means		
	<i>Variable 1</i>	<i>Variable 2</i>
Mean	24392.055	17705.625
Variance	17620956.8	156581.676
Observations	2	2
Pearson Correlation	-1	
Hypothesized Mean Difference	0	
df	1	
t Stat	2.05859824	
P(T<=t) one-tail	0.14393873	
t Critical one-tail	6.3137486	
P(T<=t) two-tail	0.28787747	
t Critical two-tail	12.7061503	

15165b t-Test: Paired Two Sample for Means		
	<i>TCE@64</i>	<i>TOL@64</i>
Mean	20249.6	16871.16
Variance	151844.5832	116692.805
Observations	2	2
Pearson Correlation	-1	
Hypothesized Mean Difference	0	
df	1	
t Stat	6.533562823	
P(T<=t) one-tail	0.048344016	
t Critical one-tail	6.313748599	
P(T<=t) two-tail	0.096688031	
t Critical two-tail	12.7061503	

Figure E-1 Stiffnesses of the Extracted and Recovered Asphalts using TCE and TOL at 64.

Figure E-2 Stiffnesses of the Extracted and Recovered Asphalts using TCE and TOL at 70C.

Table E-6   Stiffnesses of the In-service asphalts of Project 15165a1 Using TCE and TOL.

15165a1 TCE				
OWP				
Top			Bottom	
Temp.	1	2	1	2
16	4.71E+07	-	4.81E+07	-
19	3.44E+07	-	3.51E+07	-
22	2.49E+07	-	2.51E+07	-
25	1.78E+07	-	1.78E+07	-
28	1.24E+07	-	1.23E+07	-
31	8.59E+06	-	8.34E+06	-
IWP				
Top			Bottom	
Temp.	1	2	1	2
16	2.58E+07	-	1.11E+07	-
19	1.85E+07	-	7.79E+06	-
22	1.31E+07	-	5.39E+06	-
25	9.22E+06	-	3.71E+06	-
28	6.32E+06	-	2.57E+06	-
31	4.24E+06	-	1.76E+06	-
BWP				
Top			Bottom	
Temp.	1	2	1	2
16	1.53E+06	-	2.42E+07	-
19	4.22E+06	-	1.74E+07	-
22	7.86E+06	-	1.24E+07	-
25	6.85E+06	-	8.59E+06	-
28	5.38E+06	-	5.86E+06	-
31	4.13E+06	-	3.92E+06	-

15615a1 TOL				
OWP				
Top			Bottom	
Temp.	1	2	1	2
16	3.99E+07	-	2.86E+07	-
19	3.01E+07	-	2.03E+07	-
22	2.22E+07	-	1.41E+07	-
25	1.62E+07	-	9.57E+06	-
28	1.16E+07	-	6.46E+06	-
31	8.13E+06	-	4.25E+06	-
BWP				
Top			Bottom	
Temp.	1	2	1	2
16	2.66E+07	-	2.76E+07	-
19	1.93E+07	-	2.01E+07	-
22	1.39E+07	-	1.44E+07	-
25	9.90E+06	-	1.02E+07	-
28	6.86E+06	-	7.07E+06	-
31	4.70E+06	-	4.83E+06	-
IWP				
Top			Bottom	
Temp.	1	2	1	2
16	1.55E+07	-	2.28E+07	-
19	1.87E+07	-	1.60E+07	-
22	1.33E+07	-	1.11E+07	-
25	9.30E+06	-	7.59E+06	-
28	6.36E+06	-	5.13E+06	-
31	4.27E+06	-	3.42E+06	-

Table E-6   Stiffnesses of the In-service asphalts of Project 15165b1 Using TCE and TOL.

15165b1	TCE			
	OWP			
	Top		Bottom	
Temp.	1	2	1	2
16	6.79E+07	-	5.37E+07	-
19	5.03E+07	-	3.97E+07	-
22	3.65E+07	-	2.82E+07	-
25	2.60E+07	-	1.97E+07	-
28	1.81E+07	-	1.36E+07	-
31	1.25E+07	-	9.13E+06	-
	BWP			
	Top		Bottom	
	1	2	1	2
16	-	-	2.75E+07	-
19	-	-	2.00E+07	-
22	-	-	1.45E+07	-
25	-	-	1.00E+07	-
28	-	-	6.90E+06	-
31	-	-	4.59E+06	-
	IWP			
	Top		Bottom	
	1	2	1	2
16	-	-	4.60E+07	-
19	-	-	3.30E+07	-
22	-	-	2.30E+07	-
25	-	-	1.60E+07	-
28	-	-	1.08E+07	-
31	-	-	7.17E+06	-

15165b1	TOL			
	OWP			
	Top		Bottom	
Temp.	1	2	1	2
16	-	-	1.40E+33	-
19	-	-	4.18E+33	-
22	-	-	4.73E+33	-
25	-	-	3.93E+33	-
28	-	-	3.00E+33	-
31	-	-	2.15E+33	-

	IWP			
	Top		Bottom	
	1	2	1	2
Temp.				
16	4.10E+07	-	3.81E+07	-
19	3.91E+07	-	2.60E+07	-
22	3.07E+07	-	1.80E+07	-
25	2.21E+07	-	1.21E+07	-
28	1.55E+07	-	8.17E+06	-
31	1.06E+07	-	5.34E+06	-

	BWP			
	Top		Bottom	
	1	2	1	2
Temp.				
16	4.57E+07	3.85E+07	3.41E+07	-
19	3.38E+07	3.03E+07	2.47E+07	-
22	2.47E+07	2.28E+07	1.75E+07	-
25	1.77E+07	1.66E+07	1.22E+07	-
28	1.25E+07	1.18E+07	8.31E+06	-
31	8.68E+06	8.44E+06	5.63E+06	-

Table E-7 Difference in Means Analysis for Project 15165a1.

Temp.	TCE	TOL	t-Test: Paired Two Sample for Means		
OWP-T	1.78E+07	1.62E+07	alpha = 0.05		
OWP-B	1.78E+07	9.57E+06		<i>TCE@25</i>	<i>TOL@25</i>
IWP-T	9.22E+06	9.90E+06	Mean	10647225	10456748.5
IWP-B	3.71E+06	1.02E+07	Variance	3.397E+13	8.7362E+12
BWP-T	6.85E+06	9.30E+06	Observations	6	6
BWP-B	8.59E+06	7.59E+06	Pearson Correlation	0.5507034	
			Hypothesized Mean Diff.	0	
			df	5	
			t Stat	0.0957756	
			P(T<=t) one-tail	0.4637095	
			t Critical one-tail	2.0150492	
			P(T<=t) two-tail	0.927419	
			t Critical two-tail	2.5705776	

Temp.	TCE	TOL	t-Test: Paired Two Sample for Means		
OWP-T	1.78E+07	1.62E+07	alpha = 0.02		
OWP-B	1.78E+07	9.57E+06		<i>TCE@25</i>	<i>TOL@25</i>
IWP-T	9.22E+06	9.90E+06	Mean	10647225	10456749
IWP-B	3.71E+06	1.02E+07	Variance	3.4E+13	8.74E+12
BWP-T	6.85E+06	9.30E+06	Observations	6	6
BWP-B	8.59E+06	7.59E+06	Pearson Correlation	0.550703	
			Hypothesized Mean Diff.	0	
			df	5	
			t Stat	0.095776	
			P(T<=t) one-tail	0.463709	
			t Critical one-tail	2.756515	
			P(T<=t) two-tail	0.927419	
			t Critical two-tail	3.36493	

Table E-8 Difference in Means Analysis for Project 15165b1.

TCE@25	TOL@25	t-Test: Paired Two Sample for Means	
1.00E+07	1.21E+07	alpha - 0.05	
1.60E+07	1.22E+07	<i>TCE@25</i>	<i>TOL@25</i>
Mean		13005814	12150000
Variance		1.79E+13	5E+09
Observations		2	2
Pearson Correlation		1	
Hypothesized Mean Difference		0	
df		1	
t Stat		0.290942	
P(T<=t) one-tail		0.409878	
t Critical one-tail		6.313749	
P(T<=t) two-tail		0.819756	
t Critical two-tail		12.70615	

TCE@25	TOL@25	t-Test: Paired Two Sample for Means	
1.00E+07	1.21E+07	alpha =0.02	
1.60E+07	1.22E+07	<i>TCE@25</i>	<i>TOL@25</i>
Mean		1.3E+07	1.2E+07
Variance		1.8E+13	5E+09
Observations		2	2
Pearson Correlation		1	
Hypothesized Mean Difference		0	
df		1	
t Stat		0.29094	
P(T<=t) one-tail		0.40988	
t Critical one-tail		15.8945	
P(T<=t) two-tail		0.81976	
t Critical two-tail		31.821	

Figure E-3 Stiffnesses of the Extracted and Recovered Asphalts Using TCE and TOL from the In-service Cores for Project 15165a1.

Figure E-4 Stiffnesses of the Extracted and Recovered Asphalts Using TCE and TOL from the In-service Cores for Project 15165b1.

APPENDIX F

Summary of the Collected Weather Data, SHRP Recommended PG grades, and projects locations/Weather stations locations included in this study.

Table F-1 Computed High and Minimum Air Temperatures of English City Weather Station located in Crawford County

English	7 Day Average		Minimum
	Maximum	St. Dev.	
1985	93.14285714	0.899735411	-19
1986	95.42857143	0.786795792	-4
1987	96.71428571	1.603567451	-2
1988	100.2857143	1.253566341	-9
1989	91.85714286	0.690065559	-21
1990	95.28571429	1.253566341	1
1991	97.14285714	1.463850109	-2
1992	92.85714286	1.463850109	-2
1993	94.57142857	0.786795792	-4
AVG.	95.25396825		-6.888888889
ST. DEV.	2.580121989		7.912718314

Table F-2 Computed High and Minimum Reliability Levels for English City Weather Station Located in Crawford County

ENGLISH		
	High	Low
1985	33.96825397	-28.33333333
1986	35.23809524	-20
1987	35.95238095	-18.88888889
1988	37.93650794	-22.77777778
1989	33.25396825	-29.44444444
1990	35.15873016	-17.22222222
1991	36.19047619	-18.88888889
1992	33.80952381	-18.88888889
1993	34.76190476	-20
AVG.	35.14109347	-21.60493827
ST. DEV.	1.433401105	4.395954619
0.995	38.83329751	-32.9281899
0.98	38.08493838	-30.63312205
0.95	37.49882758	-28.83563742
0.9	36.9780698	-27.23857741
0.85	36.62671751	-26.16105017
0.8	36.3474745	-25.30466769
0.5	35.14109347	-21.60493827
98%	64	-34
50%	58	22

Table F-3 Computed High and Minimum Air Temperatures of Martinsville City
Weather Station Located in Morgan County

Martinsville	7 Day Average		Minimum
	Maximum	St. Dev.	
1985	90.14285714	0.899735411	-21
1986	95.28571429	1.380131119	0
1987	92.57142857	1.133893419	-7
1988	100	0.577350269	-4
1989	90.71428571	0.755928946	-22
1990	91.28571429	1.253566341	-2
1991	93.57142857	0.975900073	-3
1992	87.42857143	0.975900073	-7
1993	91.85714286	1.069044968	-11
	92.53968254		-8.555555556
	3.561971606		8.017342314

Table F-4 Computed High and Minimum Reliability Levels for Martinsville City
Weather Station Located in Morgan County

Martinsville		
	Maximum	Minumum
1985	32.3015873	-29.44444444
1986	35.15873016	-17.77777778
1987	33.65079365	-21.66666667
1988	37.77777778	-20
1989	32.61904762	-30
1990	32.93650794	-18.88888889
1991	34.20634921	-19.44444444
1992	30.79365079	-21.66666667
1993	33.25396825	-23.88888889
Average	33.63315697	-22.5308642
St. Dev.	1.978873115	4.454079063
0.995	38.73040663	-34.00383478
0.98	37.69726402	-31.67842095
0.95	36.88811235	-29.85716951
0.9	36.16918338	-28.23899276
0.85	35.68412612	-27.14721818
0.8	35.2986189	-26.27951239
0.7	34.67088001	-24.86658772
0.6	34.13449768	-23.65928985
0.5	33.63315697	-22.5308642
98%	58	-34
50%	58	-28

Table F-5 Computed High and Minimum Air Temperatures of Perrysville City
Weather Station Located in Fountain County'

Perrysville	7 Day Average		
	Maximum		Minimum
1985	91.28571429	1.112697281	-26
1986	94.14285714	0.690065559	-6
1987	94.42857143	0.786795792	-11
1988	102.7142857	1.380131119	-13
1989	94.28571429	1.704336206	-23
1990	95.42857143	1.133893419	-7
1991	97	1.527525232	-3
1992	91	2.449489743	-7
1993	92.57142857	0.534522484	-7
AVG	94.76190476		-11.44444444
SD	3.54346193		7.970431467

Table F-6 Computed High and Minimum Reliability Levels for Perrysville City
Weather Station Located in Fountain County

PERRYSVILLE		
	MAX	MIN
1985	32.93650794	-32.22222222
1986	34.52380952	-21.11111111
1987	34.68253968	-23.88888889
1988	39.28571429	-25
1989	34.6031746	-30.55555556
1990	35.23809524	-21.66666667
1991	36.11111111	-19.44444444
1992	32.77777778	-21.66666667
1993	33.65079365	-21.66666667
AVG	34.86772487	-24.13580247
SD	1.968589961	4.428017482
0.995	39.93848683	-35.54164273
0.98	38.91071291	-33.2298353
0.95	38.10576597	-31.41924031
0.9	37.3905729	-29.81053179
0.85	36.90803623	-28.72514537
0.8	36.52453228	-27.86251668
0.7	35.90005542	-26.45785928
0.5	34.86772487	-24.13580247
98%	64	-34
50%	58	-28

Table F-7 Computed High and Minimum Air Temperatures of Richmond City
Weather Station Located in Wayne County

Richmond	7 Day Average		
	Maximum		Minimum
1985	90.85714286	1.214985793	-25
1986	93	0.577350269	-2
1987	88.57142857	0.975900073	-3
1988	98.85714286	1.069044968	-6
1989	91.85714286	1.573591585	-22
1990	92.57142857	1.511857892	1
1991	94.14285714	1.069044968	1
1992	88.42857143	1.397276262	-8
1993	91.71428571	1.112697281	-9
AVG	92.22222222		-8.111111111
SD	3.130748681		9.439868172

Table F-8 Computed High and Minimum Reliability Levels for Richmond City
Weather Station Located in Wayne County

RICHMOND		
1985	32.6984127	-31.66666667
1986	33.88888889	-18.88888889
1987	31.42857143	-19.44444444
1988	37.14285714	-21.11111111
1989	33.25396825	-30
1990	33.65079365	-17.22222222
1991	34.52380952	-17.22222222
1992	31.34920635	-22.22222222
1993	33.17460317	-22.77777778
AVG	33.45679012	-22.28395062
SD	1.739304823	5.244371207
0.995	37.93695152	-35.79258298
0.98	37.02888423	-33.05456842
0.95	36.31769088	-30.91017033
0.9	35.6857976	-29.0048787
0.85	35.25946283	-27.71938936
0.8	34.92062626	-26.69772558
0.7	34.36888332	-25.03410414
0.6	33.89743704	-23.61259408
0.5	33.45679012	-22.28395062
98%	58	-34
50%	58	-28

Table F-9 Computed High and Minimum Air Temperatures of Rushville City Weather Station Located in Rush County

Rushville	7 Day Average		Minimum
	Maximum		
1985	90.28571429	1.112697281	-24
1986	92.14285714	0.377964473	0
1987	91	0.577350269	-4
1988	99.71428571	0.487950036	-5
1989	91.71428571	0.951189731	-23
1990	91.71428571	1.799470822	1
1991	93.14285714	1.214985793	0
1992	87.85714286	1.214985793	-7
1993	90.85714286	0.690065559	-8
AVG	92.04761905		-7.777777778
SD	3.228539823		9.457507306

Table F-10 Computed High and Minimum Reliability Levels for Rushville City
Weather Station Located in Rush County

RUSHVILLE		
	MAX	MIN
1985	32.38095238	-31.11111111
1986	33.41269841	-17.77777778
1987	32.77777778	-20
1988	37.61904762	-20.55555556
1989	33.17460317	-30.55555556
1990	33.17460317	-17.22222222
1991	33.96825397	-17.77777778
1992	31.03174603	-21.66666667
1993	32.6984127	-22.22222222
AVG	33.35978836	-22.09876543
SD	1.793633235	5.254170726
0.995	37.97989075	-35.63263973
0.98	37.04345934	-32.88950898
0.95	36.31005137	-30.74110392
0.9	35.65842046	-28.8322521
0.85	35.21876881	-27.54436072
0.8	34.86934845	-26.52078788
0.7	34.30037143	-24.85405783
0.6	33.81419919	-23.42989157
0.5	33.35978836	-22.09876543
98%	58	-34
50%	58	-28

Table F-11 Computed High and Minimum Air Temperatures of Shelbyville City
Weather Station Located in Shelby County

Shelbyville	7 Day Average		
	Maximum		Minimum
1985	90.71428571	0.487950036	-22
1986	93.85714286	0.899735411	9
1987	90.42857143	0.786795792	17
1988	100.4285714	0.786795792	-4
1989	92.14285714	0.899735411	-22
1990	94	2.380476143	1
1991	94.57142857	1.133893419	1
1992	88.42857143	0.786795792	-6
1993	91.57142857	1.272418021	-8
AVG	92.9047619		-3.777777778
SD	3.442679308		12.88194257

Table F-12 Computed High and Minimum Reliability Levels for Shelbyville City
Weather Station in Shelby County

SHELBYVILLE		
	MAX	MIN
1985	32.61904762	-30
1986	34.36507937	-12.77777778
1987	32.46031746	-8.333333333
1988	38.01587302	-20
1989	33.41269841	-30
1990	34.44444444	-17.22222222
1991	34.76190476	-17.22222222
1992	31.34920635	-21.11111111
1993	33.0952381	-22.22222222
AVG	33.83597884	-19.87654321
SD	1.912599615	7.156634763
0.995	38.76251894	-38.31085004
0.98	37.76397681	-34.5744688
0.95	36.98192405	-31.64815537
0.9	36.28707239	-29.04813417
0.85	35.81825996	-27.29391477
0.8	35.44566358	-25.89972008
0.7	34.83894799	-23.62948965
0.6	34.32052939	-21.68965208
0.5	33.83597884	-19.87654321
98%	58	-40
50%	58	-22

Table F-13 Computed High and Minimum Air Temperatures for Vincennes City
Weather Station Located in Knox County

Vincennes	7 Day Average		
	Maximum		Minimum
1985	92.57142857	1.133893419	-19
1986	95.42857143	0.534522484	-1
1987	95.57142857	1.511857892	0
1988	102.1428571	1.069044968	-2
1989	94.28571429	0.755928946	-21
1990	96.57142857	1.397276262	2
1991	97.85714286	1.214985793	4
1992	91.71428571	0.755928946	0
1993	94.71428571	0.755928946	-5
AVG	95.65079365		-4.666666667
SD	3.07484122		9.055385138

Table F-14 Computed High and Minimum Reliability Levels for Vincennes City
Weather Station Located in Knox County

VINCENNES		
	MAX	MIN
1985	33.65079365	-28.33333333
1986	35.23809524	-18.33333333
1987	35.31746032	-17.77777778
1988	38.96825397	-18.88888889
1989	34.6031746	-29.44444444
1990	35.87301587	-16.66666667
1991	36.58730159	-15.55555556
1992	33.17460317	-17.77777778
1993	34.84126984	-20.55555556
AVG	35.36155203	-20.37037037
SD	1.708245122	5.030769521
0.995	39.76170877	-33.32880014
0.98	38.86985733	-30.7023041
0.95	38.17136414	-28.64524671
0.85	37.13203344	-25.5844253
0.8	36.79924766	-24.60437359
0.75	36.51374691	-23.76357594
0.7	36.25735748	-23.00851095
0.6	35.79433007	-21.64489857
0.5	35.36155203	-20.37037037
98%	64	-34
50%	58	-22

Table F – 15 County locations and nearest weather station for projects tested (after SHRP-A-648A)

ST	county ID	project no.	station
IN	Morgan	15502	Martinsville 2 sw
IN	Crawford	15630	English
IN	Shelby	15165 & 15308	Shelbyville Sewage Plt
IN	Tippecanoe	15619	West Lafayette
IN	Knox	15174	Edwardsport Power Plant
IN	Dubois	15173	Dubois s Ind Forage Frm
IN	Wayne	14643	Cambridge City
IN	Johnson	15404	Franklin 2 Nine
IN	Rush	15309	Rushville Sewage Plant

Table F – 16 Longitude, latitude and elevation – low and high temperatures for projects tested (after SHRP-A-648A)

ST	county ID	project no.	long	lat	elev	air temp			
						low		high	
						avg	std	avg	std
IN	Morgan	15502	86.45	39.4	186	-23	4	33	2
IN	Crawford	15630	86.47	38.28	156	-23	7	33	2
IN	Shelby	15165 & 15308	85.78	39.52	229	-22	5	33	2
IN	Tippecanoe	15619	86.93	40.42	183	-24	3	33	2
IN	Knox	15174	87.23	38.8	140	-21	4	34	2
IN	Dubois	15173	86.7	38.45	210	-22	4	33	2
IN	Wayne	14643	85.17	39.82	290	-24	4	32	2
IN	Johnson	15404	86.07	39.52	235	-21	4	33	2
IN	Rush	15309	85.45	39.6	293	-23	4	33	2

Table F – 17 50% reliability level recommended by SHRP for projects tested (after SHRP-A-648A)

ST	county ID	project no.	50%reliability						
			Temperatures				Binder Grade		
			max air	max pvt	min air	min pvt	PG	HT	LT
IN	Morgan	15502	33	53	-23	-23	PG	58	-23
IN	Crawford	15630	33	54	-23	-23	PG	58	-23
IN	Shelby	15165 & 15308	33	53	-22	-22	PG	58	-23
IN	Tippecanoe	15619	33	53	-24	-24	PG	58	-23
IN	Knox	15174	34	55	-21	-21	PG	58	-23
IN	Dubois	15173	33	54	-22	-22	PG	58	-23
IN	Wayne	14643	32	52	-24	-24	PG	58	-28
IN	Johnson	15404	33	53	-21	-21	PG	58	-22
IN	Rush	15309	33	53	-23	-23	PG	58	-28

Table F – 18 98% reliability level recommended by SHRP for projects tested (after SHRP-A-648A)

ST	county ID	project no.	98%reliability						
			Temperatures				Binder Grade		
			max air	max pvt	min air	min pvt	PG	HT	LT
IN	Morgan	15502	37	57	-31	-31	PG	58	-34
IN	Crawford	15630	37	58	-37	-37	PG	58	-40
IN	Shelby	15165 & 15308	37	57	-32	-32	PG	58	-34
IN	Tippecanoe	15619	37	57	-30	-30	PG	58	-34
IN	Knox	15174	38	58	-29	-29	PG	64	-34
IN	Dubois	15173	37	57	-30	-30	PG	58	-34
IN	Wayne	14643	36	56	-32	-32	PG	58	-34
IN	Johnson	15404	37	57	-29	-29	PG	58	-34
IN	Rush	15309	37	57	-31	-31	PG	58	-34

APPENDIX G

- Rutting Deduct Values and Cracking Deduct Values and Distress Survey Data

Table G-1 Detect Values for Project 14643

R14643-A Cracking	R14643-A Rutting
16.0	0
36.5	0
17.5	0
22.5	0
15.0	0
26.0	0
21.0	0
17.0	0
22.0	0
24.0	0
9.0	0
27.0	0
20.5	0
33.0	0
26.0	41.5
32.0	0
50.5	1.5
16.0	41.5
16.0	0
33.0	0
24.0	4.2

R14643-B Cracking	R14643-B Rutting
36.0	0
35.5	0
28.0	0
14.0	0
24.5	0
32.5	0
66.0	0
32.0	0
34.5	0
27.0	0
37.5	0
43.0	0
40.5	0
34.7	0.0

Table G-2 Detect Values for Project 15165

a

RS15165-A Cracking	RS15165-A Rutting
31	0
56	0
38	0
42	0
40	0
40	0
42.5	0
41.3571	0

a2

RS15165-A Cracking	RS15165-A Rutting
19	0
16.5	0
44.5	0
33	0
34	0
37	0
35	0
46.5	0
34.5	0
32	0
33.2	0

b

RS15165-B Cracking	RS15165-B Rutting
42	0
41	0
24	0
27	0
60	0
60	0
64	0
68	0
66	0
64	0
51.6	0

b1

RS15165-B Cracking	RS15165-B Rutting
32	0
31	0
65	0
25	0
25	0
60	0
66	0
66	0
73	0
70	21
51.3	2.1

Table G-3 Detect Values for Project 15502

R15502-I Cracking	R15502-I Rutting
24	33
25	25
30	0
26.5	7
31	11
26	15
24.5	12.5
25.5	0
22.5	9
25.5	27
26.5	20
24.5	15
30	9
26.2692	14.1154

Table G-4 Detect Values for Project 15630

RS15630 Cracking	RS15630 Rutting
21.5	0
17	0
19.5	0
10	0
11	0
10	0
24.5	0
16	0
9.5	0
15.444	0

Table G-5 Detect Values for Project 15173

RS15173 Cracking	RS15173 Rutting
64	33
35	0
41	41
38	41
48	41
31	0
22	0
30	41
23	41
24	41
19	41
27	41
45	41
34.3846	30.9231

Table G-6 Detect Values for Project 15174

RS15174-A Cracking	RS15174-A Rutting
46	0
25.5	0
48.5	0
57.5	0
63.5	0
54	0
71	0
98.5	0
58.5	0
59	0
25	0
57	0

55.3333

0

RS15174-B Cracking	RS15174-B Rutting
60	0
78	0
35	0
79	0
67	0
46	0
80	0
69.5	0
50	0
65	0
100	0
66	0
71	0
46	9

65.1786

0.6429

Table G-7 Detect Values for Project 15309

R15309-A Cracking	R15309-A Rutting
33	0
35	0
40	0
31	0
28	0
25	0
36	0
14	0
17	0
9	0
25	0
20	0
40	0
29	0
27	0
32	0
33	0
29	0
31	0
23	0
44	0
41	0
50	0
40	0
30.5	0

R15309-E Cracking	R15309-E Rutting
24	0
19	0
44	0
35	0
16	0
15	0
21	0
42	0
42	0
18	0
23	0
42.5	0
47	0
29.8846	0

Table G-8 Detect Values for Project 15617

RS15617-A Cracking	RS15617-A Rutting
30	0
21	0
28	0
22	0
54	0
68	0
49	0
42	0
54	0
48	0
44.5	0
53.5	0
42.8333	0

RS15617-B Cracking	RS15617-B Rutting
7.5	0
22	0
20	0
45.5	0
20	0
61	0
30	0
42	0
62	0
55.5	0
27	0
44	0
20	0
37.4167	0

Table G-9 Average Rutting Detect Value for all projects

Project Number	Rutting
14643	4.2
15165-a	0
15165-a1	0
15165-b	0
15165-b1	0
15308	1.05
15502	14.1154
15404a	
15630	0
15173	
15174	0.64286
15309	0
15617	

Table G-10 Average Cracking Detect Value for all projects

Project Number	Cracking
14643	24.0
15165-a	
15165-a1	36.559
15165-b	51.45
15165-b1	51.45
15308	72.538
15502	26.2692
15404a	
15630	15.4444
15173	
15174	65
15309	29.88
15617	

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACF

BRANCH RT 27
 DATE 5/29/93
 SURVEYED BY RF

SECTION R14643 - A 322
 SAMPLE UNIT 2 SB
 AREA OF SAMPLE 156 x 12 = 1872 sq

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding *	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Carrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1	11			
QUANTITY & SEVERITY	11.5L	1x2	10x12			
	.5M	1x3				
	6L	1x2				
	7L	1x3				
	12L					
	9.5L					
	7L					
TOTAL SEVERITY	L 53	10	120			
	M 5					
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	12.8	L	7	PCI = 100 - CDV = <u>84.5</u>
10	.3	M	2	
1	.5	L	7	
11	6.4	L	12	
				RATING = <u>Very Good</u>
q=	TOTAL DEDUCT VALUE		28	
	CORRECTED DEDUCT VALUE (CDV)		15.5	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

mile marker 19 is 47'3" into section

21

Box-p
 part
 1x1.5

R-146
 crack

16
 36.5

NB
 75.4

50
 100

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The proponent agency is USAC.

BRANCH R+27
DATE 5/29/93
SURVEYED BY RF

SECTION R14643-A 323
SAMPLE UNIT 2N3
AREA OF SAMPLE 156x12 = 1872 sq

Distress Types		SKETCH:
① Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
③ Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	11	10	1	7	
QUANTITY & SEVERITY	12x8 L	8 L	1x2 L	117	
		12 L	1x2 L		
		156 L	1x3		
		6 L	1x3		
		12 L	1x2		
		7 L	1x3		
		25.5 L			
		12 L			
TOTAL SEVERITY	L 96	238.5	15	117	
M					
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
11	5.1	L	10
10	12.7	L	19
1	8	L	9
7	6.3	L	6.5
q=	TOTAL DEDUCT VALUE		46.5
	CORRECTED DEDUCT VALUE (CDV)		34

PCI = 100 - CDV =
66

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACE

BRANCH RT 27
DATE 5/29/93
SURVEYED BY RF

SECTION R14643-A 324
SAMPLE UNIT 4NB
AREA OF SAMPLE 156 x 12 = 1872 sq ft

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Carrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1				
QUANTITY & SEVERITY	14	2 x 1 L				
	11 L	2 x 1 L				
	12 L					
	12 L					
	12 L					
	8 L					
TOTAL SEVERITY	76.5 L					
	L 131.5	4				
	M 1					
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	2.0	L	13.5
10	.1	M	0
1	2	L	4
q=	TOTAL DEDUCT VALUE		17.5
	CORRECTED DEDUCT VALUE (CDV)		17

$$PCI = 100 - CDV = \underline{\underline{83}}$$

$$RATING = \underline{\underline{\text{Very Good}}}$$

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH RT 27 SECTION R14643-A 325
 DATE 5/29/93 SAMPLE UNIT 4 SB
 SURVEYED BY RF AREA OF SAMPLE 156 x 12' = 1872 sq ft

Distress Types					SKETCH:	
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	10	13	12		
QUANTITY & SEVERITY	1 x 1.5	10.5 L	1	40.5 L		
		1 M				
		11 L				
		156 L				
		12 L				
		1 M				
		11 L				
		12 L				
TOTAL SEVERITY	L	1.5	224.5	1	40.5	
	M		12			
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	.1	L	4
10	.12 P	L	12.5
10	.1	M	0
13	.05	L	13
q=	TOTAL DEDUCT VALUE		25.5
CORRECTED DEDUCT VALUE (CDV)			26

PCI = 100 - CDV = 74

Very.

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USACE

BRANCH RT 27
DATE 5/29/93
SURVEYED BY RF

SECTION R 14643-A 326
SAMPLE UNIT 75B
AREA OF SAMPLE 156 x 12 = 1872 sq

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Carrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	11	10	1			
QUANTITY & SEVERITY	6.5 x 12	1 L	1 x 2 L			
		12 L	1 x 2.5 L			
		12 L	1 x 2			
		4.5 L				
		7.5 L				
		10 L				
		5.5 L				
		12 L				
		12 L				
TOTAL SEVERITY	L 78	76.5	6.5			
	M					
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
11	4.2	L	9	$PCI = 100 - CDV =$ <u>87</u>
10	4.1	L	9	
1	4	L	6	
q=	TOTAL DEDUCT VALUE		24	$RATING =$ <u>Excellent</u>
	CORRECTED DEDUCT VALUE (CDV)		13	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH Rt 27
DATE 5/29/93
SURVEYED BY RF

SECTION R14643-A 327
SAMPLE UNIT 7 NB
AREA OF SAMPLE 156 x 12' = 1872 sq

Distress Types				SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking			
2. Bleeding	11. Patching & Util Cut Patching			
3. Block Cracking	12. Polished Aggregate			
*4. Bumps and Sags	*13. Potholes			
5. Corrugation	14. Railroad Crossing			
6. Depression	15. Rutting			
*7. Edge Cracking	16. Shoving			
*8. Jt Reflection Cracking	17. Slippage Cracking			
*9. Lane/Shoulder Drop Off	18. Swell			
	19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	10		
QUANTITY & SEVERITY	1 M	1.5 x 2	12 L		
	11 L	1 x 2 L	2.5 L		
	11.5 L	2.5 x 1 L			
	11 L				
	10.5 L				
	8.5 L				
	42 L				
	12 L				
TOTAL SEVERITY	L 262.5	7.5	14.5		
	M 1				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	14.8	L	20
10	2.1	M	0
1	0.4	L	6
q=	TOTAL DEDUCT VALUE		26
	CORRECTED DEDUCT VALUE (CDV)		19

PCI = 100 - CDV =
81

RATING = very good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACI

BRANCH RT27 SECTION R146 43-A 328
 DATE 5/29/93 SAMPLE UNIT 9NB
 SURVEYED BY RF AREA OF SAMPLE 156x12 = 1872 sq

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	7	11	10
QUANTITY & SEVERITY	7.5 L	1x2	2.5 L	8.5x12	3 L
	1 L	1x2	62.5 L		2 L
	1 L	1x2			12 L
	6.5 L				10 L
	1.5 M				
	5 L				
	2 M				
	10 L				
TOTAL SEVERITY	L 37	6	87.5	102	27
	M 3.5				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	3.4	L	8
10	0.2	H	1
1	0.3	L	5
7	4.2	L	7
11	5.5	L	10
TOTAL DEDUCT VALUE			31
CORRECTED DEDUCT VALUE (CDV)			18

PCI = 100 - CDV =

82

RATING = very

GOOD

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH Rt 27 SECTION R14643-A 329
 DATE 5/29/93 SAMPLE UNIT 95B
 SURVEYED BY RF AREA OF SAMPLE 156 x 12 = 1872 sq ft

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	10	11	10	
QUANTITY & SEVERITY	1 x 2.5	9.5 L	8.5 x 12	12 L	
	1 x 2.5	7.5 L		1 M	
	1 x 1	5.5 L		10 L	
		9.5		8 L	
		12 L		4 L	
		11.5 L		5 L	
		1 L		1 L	
		6 L		4 L	
TOTAL SEVERITY	L	66.5	102	44	
	M			1	
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	0.3	L	5
10	59	L	12
10	0.1	M	0
11	55	L	10
q=	TOTAL DEDUCT VALUE		27
CORRECTED DEDUCT VALUE (CDV)			20

PCI = 100 - CDV = 80

RATING = very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USAC

BRANCH R+37
DATE 5/27/93
SURVEYED BY RF

SECTION R14643-A 330
SAMPLE UNIT 12 SB
AREA OF SAMPLE 156x12 = 1872 sq

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	10	10		
QUANTITY & SEVERITY	1x2	10 L	11 L		
	1x2	12 L	8.5 L		
	1x2	5 L	9 L		
	1x4	10 L	2 L		
	1x2	12 L	15 L		
	1x3	3.5 L	5 L		
		6 L	2.5 L		
		7.5 L	4 L		
TOTAL SEVERITY	L 15	70	57		
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	0.8	L	9
10	6.8	L	13
q=	TOTAL DEDUCT VALUE		22
	CORRECTED DEDUCT VALUE (CDV)		16

PCI = 100 - CDV =
84

RATING = Very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 27 SECTION 1214643-A 331
 DATE 5/27/93 SAMPLE UNIT 12 NB
 SURVEYED BY RF AREA OF SAMPLE 156 x 12 = 1872 sq

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	10	1			
QUANTITY & SEVERITY	156L	1M	1x2			
	12L	11L	1x2			
	7L	5L				
	10L	12L				
	2M	1L				
	10L	1M				
	1L	7L				
	2L					
TOTAL SEVERITY	L	210	36	4		
	M	2	2			
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	.13.1	L	17
10	0.2	M	1
1	0.2	L	4
q=	TOTAL DEDUCT VALUE		24
CORRECTED DEDUCT VALUE (CDV)		24	

PCI = 100 - CDV = 76

RATING = Very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USACE

BRANCH Rt 27
 DATE 5/29/97
 SURVEYED BY RF

SECTION R14643-A
 SAMPLE UNIT 14NB
 AREA OF SAMPLE 156 x 12 = 1872 sq

332

Distress Types		SKETCH!
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	10				
QUANTITY & SEVERITY	12 L	6.5 L				
	5 L	12 L				
	12 L	3.5 L				
	2 L					
	10 L					
	2 M					
	1 M					
	4 L					
	1.5 L					
	L 51.5	22				
TOTAL SEVERITY	M 2					
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	3.9	L	9
10	0.1	M	0
q =	TOTAL DEDUCT VALUE		9
	CORRECTED DEDUCT VALUE (CDV)		9

PCI = 100 - CDV =

91

RATING = Excellent

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH RT 27 SECTION R14643-A 333
 DATE 5/29/93 SAMPLE UNIT 14 SB
 SURVEYED BY RF AREA OF SAMPLE 156 x 12 = 1872 sq

Distress Types	SKETCH:
1. Alligator Cracking *10. Long & Trans Cracking 2. Bleeding 11. Patching & Util Cut Patching 3. Block Cracking 12. Polished Aggregate *4. Bumps and Sags *13. Potholes 5. Corrugation 14. Railroad Crossing 6. Depression 15. Rutting *7. Edge Cracking 16. Shoving *8. Jt Reflection Cracking 17. Slippage Cracking *9. Lane/Shldr Drop Off 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	4	1	10	
QUANTITY & SEVERITY	8 L	2 L	1 x 4 L	9 L	
	1 L	2 L	1 x 4 L	7 L	
	156 L		1 x 2 L	8 L	
	12 L			6.5 L	
	12 L			12 L	
	6.5 L			2.5 L	
	12 L				
	1 L				
TOTAL SEVERITY	L	220.5	4	10	45
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	14.2	L	20
4	0.2	L	1
1	0.5	L	7
q=	TOTAL DEDUCT VALUE		28
CORRECTED DEDUCT VALUE (CDV)			21

PCI = 100 - CDV = 79

RATING = very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor agency is USACI

BRANCH Rt 27 SECTION R14643-A 334
 DATE 11/29/93 SAMPLE UNIT 1756
 SURVEYED BY RF AREA OF SAMPLE 156x12 = 1872 sq ft

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1	10			
QUANTITY & SEVERITY	1 L	1x2	8 L			
	12 L	1x2	11 L			
	7 L	1x3	11 L			
	8 L	1x2	1 M			
	11 L	1x3	35 L			
	6 L		5 L			
	12 L		3.5 L			
	7 L		17 L			
	9.5 L		3 L			
TOTAL SEVERITY	L	73.5	12	56		
	M			1		
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	100	L	13
10	100	M	0
1	100	L	7.5
q=	TOTAL DEDUCT VALUE		20.5
CORRECTED DEDUCT VALUE (CDV)			15

PCI = 100 - CDV = 85

RATING = Very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH RS 27 SECTION 1214643-A 335
 DATE 5/29/93 SAMPLE UNIT 17 NB
 SURVEYED BY RS AREA OF SAMPLE 156x12 = 1872 sq ft

Distress Types	SKETCH:
1. Alligator Cracking *10. Long & Trans Cracking 2. Bleeding 11. Patching & Util Cut Patching 3. Block Cracking 12. Polished Aggregate *4. Bumps and Sags *13. Potholes 5. Corrugation 14. Railroad Crossing 6. Depression 15. Rutting *7. Edge Cracking 16. Shoving *8. Jt Reflection Cracking 17. Slippage Cracking *9. Lane/Shldr Drop Off 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	10	10			
QUANTITY & SEVERITY	1x2 L	156 L	9 L			
	1x2 L	8 L				
	1x5 L	12 L				
	1x2 L	9 L				
	1x2 L	7 L				
	1x9 L	2 M				
	8 L	2.5 L				
		2.5 M				
	9.5 L					
TOTAL SEVERITY	L 30	202	9			
	M	4.5				
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
1	1.6	L	14	$PCI = 100 - CDV =$ <u>76</u>
10	11.3	L	18	
10	0.2	M	1	
				$RATING =$ <u>very Good</u>
q=	TOTAL DEDUCT VALUE		33	
CORRECTED DEDUCT VALUE (CDV)			24	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USAC

BRANCH Rt 27
 DATE 5/29/93
 SURVEYED BY RL

SECTION R14643-A 336
 SAMPLE UNIT 19NB
 AREA OF SAMPLE 156 x 12 = 1872

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	10	15	10	7
QUANTITY & SEVERITY	1 x 3 L	9 L	2 x 15 L	3 L	12 L
	1 x 3 L	12 L	2 x 15 L	2 L	2 L
	2 x 4 L	1 L		0.5 L	
	2 x 4 L	6 L		12 L	
		12 L			
		2 L			
		4.5 L			
		11.5 L			
		9 L			
TOTAL SEVERITY	L 22	67	624	23.5	14
M					
H					
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 57 $RATING =$ <u>Good</u>	
1	12	L	12		
10	48	L	11		
15	333	L	41.5		
7	0.8	L	3		
q = TOTAL DEDUCT VALUE			67.5		
CORRECTED DEDUCT VALUE (CDV)			43		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The proponent agency is USAC.

BRANCH R-27 SECTION R14643-A 337
 DATE 5/29/93 SAMPLE UNIT 19 SB
 SURVEYED BY RF AREA OF SAMPLE 156x12 = 1872

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	10	1	10	
QUANTITY & SEVERITY	156 L	1x12 L	14 L	
	1 L	1x1 L	10 L	
	11 L	4x1.5 L	6 M	
	9 L		9 L	
	6.5 L		2 L	
	22.5 L			
	6.5 L			
	7 L			
2 L				
TOTAL SEVERITY	L 221.5	19	31	
M			6	
H				
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 77 RATING = <u>Very Good</u>
10	13.5	L	19	
10	0.3	H	2	
1	1.0	L	11	
q=	TOTAL DEDUCT VALUE		32	
CORRECTED DEDUCT VALUE (CDV)			23	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACE

BRANCH Rt 27
 DATE 5/29/93
 SURVEYED BY RL

SECTION R14643-A 338
 SAMPLE UNIT 205B
 AREA OF SAMPLE 156 x 12 = 1872 sq ft

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	15	10	
QUANTITY & SEVERITY	12 L	2 x 3 L	1 x 2 L	1 L	
	156 M	1 x 1 L	1 x 2 L	5 L	
	12 L			12 L	
	2.5 L				
	12 L				
	12 L				
	8 L				
	12 L				
TOTAL SEVERITY	L 75.5	7	4	24	
	M 156				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	5.3	L	12
10	8.3	M	28.5
1	0.4	L	6
15	0.2	L	1.5
q=	TOTAL DEDUCT VALUE		48
CORRECTED DEDUCT VALUE (CDV)			35

PCI = 100 - CDV = 65

RATING = GOOD

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the promponent agency is USACr

BRANCH Rt 27 SECTION R14643-A 339
 DATE 5/29/93 SAMPLE UNIT 22 N13
 SURVEYED BY RF AREA OF SAMPLE 156x12 = 1872 sq ft

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	15	1	10	
QUANTITY & SEVERITY	1 L	2x156 L	1x3 L	11 L	
	12 L	2x156 L		11 L	
	6.5 L			1 M	
	2 L			11 L	
	10 L			5 M	
	2 M				
	1 L				
	4 L				
TOTAL SEVERITY	L 43.5	624	3	33	
	M 2			6	
	H				
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u>57</u> $RATING =$ <u>GOOD</u> 	
10	4.1	L	9		
10	0.4	M	3		
15	33.3	L	41.5		
1	0.2	L	4		
q=	TOTAL DEDUCT VALUE		57.5		
	CORRECTED DEDUCT VALUE (CDV)		43		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH R-27
 DATE 5/29/93
 SURVEYED BY RF

SECTION R 14643 -A 340
 SAMPLE UNIT 24 NB
 AREA OF SAMPLE 156x12 = 1872 sq

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	11	10	10			
QUANTITY & SEVERITY	10x12	4 L	1.5 L			
		10 L	11 L			
		2 M	1 M			
		1 L				
		4.5 L				
		13 L				
		7 L				
		12 M				
TOTAL SEVERITY	L	120	45.5	26		
	M		14	1		
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
11	6.4	L	12	$PCI = 100 - CDV =$ <u>85</u>
10	3.8	L	9	
10	0.8	M	7	
q=	TOTAL DEDUCT VALUE		28	$RATING =$ <u>very Good</u>
	CORRECTED DEDUCT VALUE (CDV)		15	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH Rt 27 SECTION R14643-A 341
 DATE 5/29/93 SAMPLE UNIT #24 SB
 SURVEYED BY RF AREA OF SAMPLE 156 x 12' = 1872 sf

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	→ 0	1	10	11	
QUANTITY & SEVERITY	12 L	1 x 3 L	12 L	12 x 8.5	
	12 L	6.5 x 1.5 L			
	12 M				
	15 L				
	11 L				
	12 L				
	2 L				
	3 L				
TOTAL SEVERITY	L	220	12.75	12	102
	M	12			
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	12.5	L	19
10	0.6	M	5.5
1	0.7	L	8.5
11	5.5	L	10
q=	TOTAL DEDUCT VALUE		43
CORRECTED DEDUCT VALUE (CDV)			21

PCI = 100 - CDV = 79

RATING = VERY GOOD

* All Distresses Are Measured in Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured in Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procuring Agency is USACF

BRANCH R+27
 DATE 5/29/93
 SURVEYED BY RS

SECTION R14643-B 342
 SAMPLE UNIT 2 W2
 AREA OF SAMPLE 203 x 12 = 2436 sq

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	10	7			
QUANTITY & SEVERITY	1.5 x 3	5 M	10.3 L			
	2 x 4	12 L				
	1 x 4	4 L				
	1 x 4	10.5 L				
	1 x 3	8.5 L				
	1 x 2	4 L				
		2 M				
	12.6 L					
TOTAL SEVERITY	L 29.5	16.5	16.3			
	M	7				
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	1.2	L	12
10	.68	L	13
10	.03	M	2
7	.67	L	9
q=	TOTAL DEDUCT VALUE		36
	CORRECTED DEDUCT VALUE (CDV)		22

PCI = 100 - CDV =

78

very.

RATING =

Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

Ave
 77.4

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACf

BRANCH Rt 27 SECTION R 14643-B 343
 DATE 5/29/93 SAMPLE UNIT 7 W.B
 SURVEYED BY RF AREA OF SAMPLE 208x12 = 2436 sq

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	7	1			
QUANTITY & SEVERITY	12 L	42 L	1 x 3			
	6 L	12 L	1 x 3			
	4 M	112	1 x 4			
	4 L		1 x 2			
	17 L		1 x 2			
	8.5 L		2 x 4			
	8 L		2 x 5			
	3 L					
97 L						
TOTAL SEVERITY	L 155.5	166	32			
M	4					
H						

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	6.4	L	12.5
10	0.2	M	1
7	16.8	L	9
1	10.3	L	13
q=	TOTAL DEDUCT VALUE		35.5
	CORRECTED DEDUCT VALUE (CDV)		21

PCI = 100 - CDV = 79

RATING = Very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USAC

BRANCH RT 27
DATE 3/29/93
SURVEYED BY RF

SECTION R 14643-B
SAMPLE UNIT 11 12.3
AREA OF SAMPLE 203 x 12 = 2436 sq ft

344

Distress Types					SKETCH:		
1. Alligator Cracking	*10. Long & Trans Cracking						
2. Bleeding	11. Patching & Util Cut Patching						
3. Block Cracking	12. Polished Aggregate						
*4. Bumps and Sags	*13. Potholes						
5. Corrugation	14. Railroad Crossing						
6. Depression	15. Rutting						
*7. Edge Cracking	16. Shoving						
*8. Jt Reflection Cracking	17. Slippage Cracking						
*9. Lane/Shoulder Drop Off	18. Swell						
	19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	10				1	7	1
QUANTITY & SEVERITY	7 L				1 x 3	18 L	1 x 3
	9 L				1 x 2	6 L	1 x 4
	6 L				1 x 3	3 L	1 x 4
	7 L				1 x 3		1 x 2
	4 L				1 x 3		1 x 3
	57 L				1.5 x 3		1 x 2
	3 L				1 x 2		
	6 L	1 x 3					
	5 L	1 x 2					
TOTAL SEVERITY	L 104	27.5	27	18			
M							
H							
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>79.5</u> very RATING = <u>Good</u>			
10	4.3	L	9				
1	.12	L	16				
7	.11	L	3				
q =	TOTAL DEDUCT VALUE		28				
CORRECTED DEDUCT VALUE (CDV)			20.5				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

12 cows

For use of this form, see TM 5-623, the proponent agency is USACF

$$= 2436 \text{ m}$$

Shoulder
8'

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	23	L	5
1	07	L	9
q=	TOTAL DEDUCT VALUE		14
	CORRECTED DEDUCT VALUE (CDV)		14

PCI = 100 - CDV = 86

RATING = Excellent

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE

BRANCH R-27
DATE 5/29/93
SURVEYED BY RF

SECTION 214643-B 346
SAMPLE UNIT 21 WB
AREA OF SAMPLE 203 x 12 = 2436 sq

Distress Types				SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Carrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	7					10	1		
QUANTITY & SEVERITY	52.4					6.6	1.5 x 3		
						7.6	1.5 x 3		
						5.6	1 x 3		
						12.5L	1 x 2		
						68.5L	1 x 3		
							1 x 4		
							1 x 3.5		
			1 x 2						
TOTAL SEVERITY	L 52	93	26.5						
M									
H									
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>82</u> RATING = <u>very Good</u>					
7	2.1	L	4						
10	3.8	L	9						
1	1.1	L	11.5						
q=	TOTAL DEDUCT VALUE		24.5						
	CORRECTED DEDUCT VALUE (CDV)		18						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 27 SECTION R 14643-B 347
 DATE 5/29/93 SAMPLE UNIT 26 W.B
 SURVEYED BY RF AREA OF SAMPLE 203x12 = 2436 sq ft

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	7	1	10			
QUANTITY & SEVERITY	131 L	2x5	12 L			
		1x8	2 M			
		1x3	2 M			
		1x3	2 M			
		1x3	4 L			
		1x2	6 L			
			96 L			
TOTAL SEVERITY	L 131	30	118			
	M		6			
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
7	5.4	L	7.5	PCI = 100 - CDV = <u>81</u>
1	1.2	L	12	
10	4.8	L	11	
10	0.3	M	2	
q =	TOTAL DEDUCT VALUE		32.5	RATING = <u>Very Good</u>
	CORRECTED DEDUCT VALUE (CDV)		19	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9, and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the implement Agency & USACI

BRANCH Rt 27
 DATE 5/29/93
 SURVEYED BY RF

SECTION R14643-B 348
 SAMPLE UNIT 31 v.B
 AREA OF SAMPLE 203 x 12 = 2436 sq ft

<u>Distress Types</u>		<u>SKETCH:</u>
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	10	7	11	10
QUANTITY & SEVERITY	1 x 3	3 M	190.5 M	12 x 12.5	61.5 M
	1 x 3	2 L	12.5 L		
	1 x 4	12 L			
	2 x 4	3 M			
	1 x 3	12 L			
	1 x 5	106 L			
	1 x 3	7 L			
	1 x 3	4.5 L			
TOTAL SEVERITY	L	143.5	12.5	150	
	M	7.5	190.5		61.5
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	1.4	L	13
10	5.9	L	12
10	2.8	M	16.5
2	0.5	L	2.5
7	7.8	M	22
11	6.2	L	11.5
q= TOTAL DEDUCT VALUE			77.5
CORRECTED DEDUCT VALUE (CDV)			40

PCI = 100 - CDV = 60

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH RT 27 SECTION R14643-B 349
 DATE 5/29/93 SAMPLE UNIT 35 W.B.
 SURVEYED BY RF AREA OF SAMPLE 203 x 12 = 2436 sq

Distress Types		SKETCH!
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	7	1	10	
QUANTITY & SEVERITY	9L	61L	1x3	6L	
	2L	9L	1x3	10.5L	
	11.5L	33L	1x4		
	6L		1x3		
	5L		1x1		
	12L		1x4		
	7L		1x4		
	7.5L		1x4		
TOTAL SEVERITY	44.5L		1x2		
	L 154.5	103	28	16.5	
	M				
H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	7.0	L	13.5	PCI = 100 - CDV = <u>81</u>
7	4.2	L	6.5	
1	1.2	L	12	
				RATING = <u>Very Good</u>
q=	TOTAL DEDUCT VALUE		32	
CORRECTED DEDUCT VALUE (CDV)			19	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE

BRANCH Rt 27
DATE 5/29/93
SURVEYED BY RF

SECTION R14643-8 350
SAMPLE UNIT 40 WB
AREA OF SAMPLE 263 x 12 = 3156 sq ft

Distress Types				SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	7					10	1	10	
QUANTITY & SEVERITY	111 L					12 L	3 x 5 L	1 M	
						3 M	1 x 3	7.5 L	
						9 L	1 x 3		
						6 L	1 x 1		
						9 L	1 x 3		
						1 M	1 x 3		
						9 L	1 x 2		
		8 L	1 x 2						
TOTAL SEVERITY	L 111	169	32	7.5					
	M	4		1					
	H								
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>80</u> RATING = <u>Very Good</u>					
7	4.6	L	7						
10	7.3	L	13.5						
10	0.2	M	1						
1	1.3	L	13						
q=	TOTAL DEDUCT VALUE		34.5						
CORRECTED DEDUCT VALUE (CDV)			20						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2

Mile marker 12
51' into section 57

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH RT 27
 DATE 5/29/93
 SURVEYED BY RF

SECTION R14643-B 351
 SAMPLE UNIT 44 W.B
 AREA OF SAMPLE 203x12 = 2436 sq ft

Distress Types						SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	10	7	1	10	
QUANTITY & SEVERITY	1x2	1.5L	12L	3x3L	16.3L	
	1x3	8L	21.5L	1.5x4L	6L	
	1x3	1M	3.3	1.5x5		
	1x2.5	5.5	11L	1x2.		
	1x2	9L		1x3		
	1x1	4L		1x3		
	1x5	5L				
	1x8	9.5L				
	1x4	7				
TOTAL SEVERITY	L	26.5	56.5	77.5	27.5	169
	M		1			
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>73</u> RATING = <u>VERY GOOD</u>		
1	2.2	L	17			
10	2.3	L	5			
10	.04	M	0			
7	3.2	L	5			
q= TOTAL DEDUCT VALUE			27			
CORRECTED DEDUCT VALUE (CDV)			27			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE

BRANCH Rt 27
DATE 5/29/93
SURVEYED BY RF

SECTION R14643-B 352
SAMPLE UNIT 49 w.b.
AREA OF SAMPLE 203 x 12 = 2436 sq

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE QUANTITY & SEVERITY					
TYPE	10	7	1	11	10
QUANTITY & SEVERITY	12 L	48 L	1.5 x 5	12 x 9.5 L	12 L
	2 L		1 x 5		11 L
	12 L		1 x 3		2 L
	2 L		1 x 3		12 L
	6 L		1 x 2		9 L
	5 L		1 x 3		12 L
	59.5 L		1 x 5		30 L
	10 L		1 x 3		
TOTAL SEVERITY	L 108.5	183	31.5	114	89
M					
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	8.1	L	15
7	7.5	L	4.5
1	13	L	13
11	4.7	L	9
q=	TOTAL DEDUCT VALUE		46.5
	CORRECTED DEDUCT VALUE (CDV)		24

PCI = 100 - CDV =
76

RATING = VERY GOOD

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH RT 27 SECTION R14673-B 353
 DATE 5/29/93 SAMPLE UNIT 54 W.S.
 SURVEYED BY RC AREA OF SAMPLE 203x12 = 2436 sq ft

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	7	1	10
QUANTITY & SEVERITY	7.5 L	1x3	203	1x12	73.5 L
	10 L	1x3		2x5	3 L
	9.5 L	1x4		5x3	
	5 L	1x3			
	12 L	2x4			
	5 L	1x3			
	12 L	4x2			
	6 L	1x2			
TOTAL SEVERITY	L	63	39	203	23.5
	M	7			
	H				
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u><u>74</u></u> $RATING =$ <u>Very Good</u>	
10	5.7	L	12		
10	0.3	M	2		
1	2.6	L	19		
4	2.3	L	10		
q=	TOTAL DEDUCT VALUE		43		
CORRECTED DEDUCT VALUE (CDV)			26		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the implementing Agency is USACE

BRANCH Rt 27
DATE 5/29/93
SURVEYED BY RF

SECTION 214643-B
SAMPLE UNIT 58 ³⁵⁴
AREA OF SAMPLE 203 x 12' = 2436 sq

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	10	7	1	10
QUANTITY & SEVERITY	1 x 3 L	6 L	203 L	~~1 x 3 L~~	187 L
	1 x 3 L	2 L		~~1 x 3 L~~	
	1 x 7 L	12 L			
	1 x 3 L	4 L			
	1 x 3 L	7 L			
	1 x 3 L	12 L			
	1 x 2 L	11 L			
	1 x 3 L	4 L			
	1 x 2 L	3 L			
TOTAL SEVERITY	L 22	61	203		187
M					
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	12	L	12
10	10.2	L	18.5
7	83	L	10
q=	TOTAL DEDUCT VALUE		40.5
	CORRECTED DEDUCT VALUE (CDV)		24

PCI = 100 - CDV = 76

RATING = very good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

60 ... 203

Do 13

Mile marker 14
is 93' 6"
into section 5

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH R+44
 DATE 5/17/93
 SURVEYED BY EF

SECTION RS 15165-A 355
 SAMPLE UNIT 2WB
 AREA OF SAMPLE 151' x 10' = 1510

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	→ 9	10	19	3		
QUANTITY & SEVERITY	96 L	10'	3.5 x 21	22 x 4		
		3.5'	3 x 61	9 x 14'		
		6.5	19 x 21	4 x 34		
		12'				
TOTAL SEVERITY	L 96	32	256.5	350		
	M					
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
9	.64	L	8.5	PCI = 100 - CDV = 80
10	2.1	L	5	
19	17.0	L	7	
3	23.2	L	14	
				RATING = very. GOOD
q=	TOTAL DEDUCT VALUE		34.5	
CORRECTED DEDUCT VALUE (CDV)			20	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

41.0
70.5

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACF

BRANCH Rt 44
DATE 5/19/93
SURVEYED BY RF

SECTION RS 15/LS-A 356
SAMPLE UNIT 3 W.B.
AREA OF SAMPLE 151 x 10' = 1510

Distress Types					SKETCH:				
① Alligator Cracking	*⑩ Long & Trans Cracking								
② Bleeding	11. Patching & Util Cut Patching								
③ Block Cracking	12. Polished Aggregate								
*④ Bumps and Sags	*13. Potholes								
5. Carrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*⑦ Edge Cracking	16. Shoving								
*⑧ Jt Reflection Cracking	17. Slippage Cracking								
*⑨ Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	3					10	1	19	9
QUANTITY & SEVERITY	18 x 4.5					10'	1 x 3	3 x 151	81 L
	5 x 2					10'		3 x 61	70 M
						8'			
						8'			
						10			
						4.5			
TOTAL SEVERITY	L 91					45.5	3	10360	81
	M				70				
	H								
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>80</u> RATING = <u>very Good</u>					
3 ✓	6.0	L	5.5						
10 ✓	3.0	L	7						
1 ✓	.20	L	4						
19	42.1	L	11.5						
9	5.4	L	7						
9	4.6	M	10						
q =	TOTAL DEDUCT VALUE		45						
	CORRECTED DEDUCT VALUE (CDV)		20						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACF

BRANCH Rt 44
DATE 5/19/93
SURVEYED BY RF

SECTION RS 15165-A 357
SAMPLE UNIT SWB
AREA OF SAMPLE 151 x 10' = 1510

Distress Types						SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	1					19	9	3	10
QUANTITY & SEVERITY	19 x 3					3.5 x 24	151 M	19 x 6	10'
						7 x 12		8 x 3	10'
						3 x 37		5 x 1.5	
						4.5 x 44		1.5 x 4	
						4 x 14		3 x 44	
								9 x 37	
								12 x 3	
TOTAL SEVERITY	L 57	533	151	652.5	20				
M									
H									
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>58</u>					
1	3.8	L	22.5						
19	35.3	L	10.5						
9	10	M	19						
3	43.2	L	19						
10	1.3	L	3						
q=	TOTAL DEDUCT VALUE		74	RATING = <u>Good</u>					
	CORRECTED DEDUCT VALUE (CDV)		42						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACE

BRANCH Rt 44 SECTION 15165-A 358
 DATE 5/19/93 SAMPLE UNIT 8 W.B
 SURVEYED BY RF AREA OF SAMPLE 151X16 = 1510

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	10	3	9	19
QUANTITY & SEVERITY	11.5X1	9.5	3x19.5	30 M	5x31
		22'	4.5x11.5		5x25
		15'	3x15		4.5x41
			9x3		
			9x25		
			3x31		
TOTAL SEVERITY	L 11.5	46.5	500.25		464.5
	M			30	
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	.8	L	9
10	3.1	L	7.5
3	33.1	L	16.5
9	2.0	M	6
19	30.8	L	11
q= TOTAL DEDUCT VALUE			50
CORRECTED DEDUCT VALUE (CDV)			23

PCI = 100 - CDV = 77

RATING = very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH R-44
DATE 5/19/93
SURVEYED BY RF

SECTION RS 15165-A 359
SAMPLE UNIT 11 WB
AREA OF SAMPLE 151 x 10.5' = 1585.5

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	9	3	19	1	
QUANTITY & SEVERITY	39 L	9 x 26'	8 x 25	7.5'	
	112 M	3 x 10	4 x 13	7'	
		4.5 x 11	2 x 37	3'	
		5 x 16	5 x 6'	10'	
		2 x 71		8'	
TOTAL SEVERITY	L 39	574.5	506	35.5	
	M 112				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
9	2.5	L	4
9	7.1	M	14
3	36.2	L	17
19	31.9	L	10
1	2.2	L	17
q= TOTAL DEDUCT VALUE			62
CORRECTED DEDUCT VALUE (CDV)			34

PCI = 100 - CDV =
66

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

mile marker 52' from section 13
27

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACE

BRANCH Rt 44 SECTION RS 15165-A 360
 DATE 5/19/93 SAMPLE UNIT 13 W.B.
 SURVEYED BY RF AREA OF SAMPLE 151 x 10.5' = 1585.5

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	3	19	9	
QUANTITY & SEVERITY	12.5 x 1	151 x 10.5	4 x 12.1	114 L	
	-12.5			40 M	
TOTAL SEVERITY	L 12.5	1573	484	114	
	M			40	
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	.8	L	9
3	99.2	L	28
19	30.5	L	9.5
9	7.2	L	9
9	2.5	M	7
TOTAL DEDUCT VALUE			62.5
CORRECTED DEDUCT VALUE (CDV)			31

PCI = 100 - CDV = 69

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH RT 44 SECTION RS 15165-A 361
 DATE 5/19/93 SAMPLE UNIT 15 WB
 SURVEYED BY RF AREA OF SAMPLE 10.5 x 151 = 1585.5

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	3	9	1	19
QUANTITY & SEVERITY	9.5 L	1.5 x 1	136 L	17.5 x 3'	6 x 12
	4.5 L	20.5 x 5'	9 M		4 x 30
	5' L	30 x 2			2 x 30
	2' M	2 x 15			
	7.5 L				
	6'				
TOTAL SEVERITY	L 34.5	194	136	52.5	252
	M		9		
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	2.2	L	5
3	12.2	L	9
9	8.6	L	10.5
9	.6	M	4
1	3.3	L	21
19	15.9	L	7
q= TOTAL DEDUCT VALUE			56.5
CORRECTED DEDUCT VALUE (CDV)			31

PCI = 100 - CDV = 69

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH RS 44
DATE 5/19/93
SURVEYED BY RF

SECTION RS-15165-A 362
SAMPLE UNIT 21 W.B.
AREA OF SAMPLE 10.5' x 15.1' = 1585.5

Distress Types					SKETCH:		
1. Alligator Cracking	*10. Long & Trans Cracking						
2. Bleeding	11. Patching & Util Cut Patching						
3. Block Cracking	12. Polished Aggregate						
*4. Bumps and Sags	*13. Potholes						
5. Carrugation	14. Railroad Crossing						
6. Depression	15. Rutting						
*7. Edge Cracking	16. Shoving						
*8. Jt Reflection Cracking	17. Slippage Cracking						
*9. Lane/Shldr Drop Off	18. Swell						
	19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	1				3	19	9
QUANTITY & SEVERITY	2 x 1 L				151 x 9	2 x 10	114 M
	1' x 50' L					4 x 181	37 L
TOTAL SEVERITY	L 52				1359	504	37
	M						114
	H						
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u>58</u> $RATING =$ <u>Good</u>			
1	3.3	L	21				
3	85.7	L	25.5				
19	31.8	L	15				
9	2.3	L	4				
9	7.2	M	14				
q=	TOTAL DEDUCT VALUE		74.5				
	CORRECTED DEDUCT VALUE (CDV)		42				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USAC

BRANCH Rt 44 SECTION RS 15165 - A 363
 DATE 5/19/93 SAMPLE UNIT 24 10.8
 SURVEYED BY RF AREA OF SAMPLE 151 x 10.5' = 1585.5

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Carrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	3	19	9	1	
QUANTITY & SEVERITY	151 x 9'	2.5 x 15	33 M	3' x 4 L	
		4' x 26			
		3' x 77.5			
		1.5 x 30			
TOTAL SEVERITY	L 1359	419	33	12	
	M				
	H				

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
3	85.7	L	25.5	PCI = 100 - CDV = <u>74</u>
19	26.4	L	9	
9	2.1	M	6	
1	.8	L	9	
				RATING = <u>Very Good</u>
q=	TOTAL DEDUCT VALUE		49.5	
	CORRECTED DEDUCT VALUE (CDV)		26	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACI

BRANCH RT 44
DATE 5/19/93
SURVEYED BY RF

SECTION RS 15165-A 364
SAMPLE UNIT 18 W.B.
AREA OF SAMPLE 131 x 10.5' = 1385.5

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	19	1	3	9	
QUANTITY & SEVERITY	1 x 3 M	1.5 x 5 L	4 x 4 L	69 L	
	2 x 10 L		9 x 120	51 M	
	1 x 11				
	2 x 100				
	3' x 50				
TOTAL SEVERITY	L 301	7.5	1264.5	69	
	M 3			51	
	H				

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
19	19	L	7.5	PCI = 100 - CDV = <u>74</u>
19	.2	M	5.5	
1✓	.5	L	7	
3✓	79.8	L	25	
9	4.4	L	6	
9	3.2	M	8	
q= TOTAL DEDUCT VALUE			59	RATING = <u>Very Good</u>
CORRECTED DEDUCT VALUE (CDV)			26	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACF

BRANCH RT 44
DATE 5/19/93
SURVEYED BY RF

SECTION RS 15165-A 365
SAMPLE UNIT 8 E.B
AREA OF SAMPLE 151 x 10' = 1510

Distress Types						SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Carrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shldr Drop Off	18. Swell					
	19. Weathering and Raveling					

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	3	19	10	13	9
QUANTITY & SEVERITY	2' x 9' L	3 x 9'	2 x 19'	18'	3	45 L
		7 x 11'	1.5 x 21'	20'		106 M
		9 x 9'	3.5 x 17	4'		
		3 x 16'	4 x 15	7.5'		
		9 x 18'	3 x 41	4.5'		
		9 x 10.5		2.5'		
		9 x 19'				
TOTAL SEVERITY	L	18	660.5	310	57.5	4
	M					45
	H					106

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	1.2	L	12
3	43.7	L	19
19	20.5	L	7.5
10	3.8	L	9
13	.3	L	37
9	3.0	L	5
9	7.0	M	14
q =	TOTAL DEDUCT VALUE		104
CORRECTED DEDUCT VALUE (CDV)			51

PCI = 100 - CDV = 49

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Distress	Density	Sev.	Figure E-2 Deduct value
11	0.2	L	0.5

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACI

BRANCH RT 44 SECTION BS 15165-A 366
 DATE 5/17/93 SAMPLE UNIT 9 EB
 SURVEYED BY RF AREA OF SAMPLE 151 x 10' = 1510

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE.QUANTITY & SEVERITY						
TYPE	→ 9	19	1	3		
QUANTITY & SEVERITY	151 M	1X4.5M	1.5X6.5L	3.5X16		
		3X34L	.5X12	4.5X121		
		1.5X10'	1X13	4X14		
		2'X22	1X17	5X14		
TOTAL SEVERITY	L	161	45.75	726.5		
	M	151	4.5			
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
9	10	M	19	$PCI = 100 - CDV =$ 62
19	10.7	L	8	
19	.3	M	6.5	
1	3.0	L	20	
3	48.1	L	20	
q=	TOTAL DEDUCT VALUE		73.5	$RATING =$ 6000
CORRECTED DEDUCT VALUE (CDV)			38	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

14/

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH RT 44
 DATE 5/19/93
 SURVEYED BY RF

SECTION RS 15165-A 367
 SAMPLE UNIT 11 E-B
 AREA OF SAMPLE 151 x 10.5 = 1585.5

Distress Types					SKETCH:	
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Carrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	3	19	13	11	9
QUANTITY & SEVERITY	39 x 1.5	5 x 39	2 x 16	2	1 x 2'	151
		4 x 112	3 x 23			
		3 x 4				
		4 x 21				
TOTAL SEVERITY	L 58.5	739	101	2	2	151
	M					
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 54 $RATING =$ <u>Fair</u>		
1	3.9	L	22.5			
3	48.9	L	20			
19	6.7	L	4			
13	.01	L	21			
11	.01	L	.5			
9	.10	L	12			
q=	TOTAL DEDUCT VALUE		80			
CORRECTED DEDUCT VALUE (CDV)			46			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH RT 44 SECTION RS 15165-A 368
 DATE 5/19/93 SAMPLE UNIT 2EB
 SURVEYED BY RF AREA OF SAMPLE 151 x 10' = 1510

Distress Types					SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking							
2. Bleeding	11. Patching & Util Cut Patching							
3. Block Cracking	12. Polished Aggregate							
*4. Bumps and Sags	*13. Potholes							
5. Corrugation	14. Railroad Crossing							
6. Depression	15. Rutting							
*7. Edge Cracking	16. Shoving							
*8. Jt Reflection Cracking	17. Slippage Cracking							
*9. Lane/Shldr Drop Off	18. Swell							
	19. Weathering and Raveling							
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY								
TYPE	13				9	3	10	19
QUANTITY & SEVERITY	2				87 L	22.5 x 9	10'	4.5 x 71
					64 M	3 x 17'	31'	3.5' x 80
						2 x 2	10'	
						3 x 22	7'	
						32 x 9	1'	
							1'	
							7.5'	
				7'				
TOTAL SEVERITY	L	2	87	611.5	84.5	599.5		
	M		64					
	H							
PCI CALCULATION								
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>62</u> RATING = <u>GOOD</u>				
13	.1	L	21					
9	5.8	L	8					
9	4.2	M	9.5					
3 ✓	40.5	L	19					
10 ✓	5.6	L	12					
19	39.7	L	11					
q =	TOTAL DEDUCT VALUE		80.5					
CORRECTED DEDUCT VALUE (CDV)			38					

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

58.9

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH 244
 DATE 5/19/93
 SURVEYED BY RF

SECTION RS 15165-A 369
 SAMPLE UNIT 3EB
 AREA OF SAMPLE 151 X 10' = 1510

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	3	1	19	9	
QUANTITY & SEVERITY	7x69	3x67	1.5x61	18 L	
	4x67		8x57	73 M	
	1.5x4		1x1 M		
TOTAL SEVERITY	L 757	201	548.5	151	
	M				
	H				
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>55</u> RATING = <u>Fair</u>	
3	50.1	L	20		
1	13.3	L	36		
19	36.3	L	10.5		
9	10	L	12		
q= TOTAL DEDUCT VALUE			78.5		
CORRECTED DEDUCT VALUE (CDV)			45		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procuring Agency is USACF

BRANCH RT 44
 DATE 5/19/93
 SURVEYED BY EF

SECTION RS 15165-A 370
 SAMPLE UNIT 5 EB
 AREA OF SAMPLE 151 x 10' = 1510

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. JT Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	3	10	1	19	9
QUANTITY & SEVERITY	9 x 13.5	2.5	15 x 1.5	20	75 M
	9 x 7.7	3'		20	76 L
	7.5 x 5'	4'		1 x 17	
	9 x 23'			42 SF	
				10 x 2.5	
TOTAL SEVERITY	L	M	H		
	1077	9.5	22.5	124	151

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
3	71.3	L	23.5
10	1.6	L	1
1	1.5	L	13.5
19	8.2	L	4
9	10	L	12
q= TOTAL DEDUCT VALUE			54
CORRECTED DEDUCT VALUE (CDV)			34

PCI = 100 - CDV = 66

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 44
 DATE 5/19/93
 SURVEYED BY RF

SECTION RS-15165-A 371
 SAMPLE UNIT 7 EB
 AREA OF SAMPLE 151 x 10' = 1510

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Carrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	19	3	9	
QUANTITY & SEVERITY	8 x 3.5	2 x 4	143 x 9'	79 ft	
		3 x 147		72 L	
		1.5 x 51			
TOTAL SEVERITY	L 28	525.5	1287	151	
	M				
	H				
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u><u>64</u></u> $RATING =$ <u><u>Good</u></u>	
1	1.9	L	16		
19	34.8	L	10.5		
3	85.2	L	26		
9	10	L	12		
q= TOTAL DEDUCT VALUE			64.5		
CORRECTED DEDUCT VALUE (CDV)			36		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USACF

BRANCH RT 44
 DATE 5/19/93
 SURVEYED BY RF

SECTION RS 15165-13 372
 SAMPLE UNIT 1 W.B.
 AREA OF SAMPLE 182 x 10.5 = 1911

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	3	19	1	9	
QUANTITY & SEVERITY	9 x 162'	14 x 3 M	6 x 1.5	60 M	
		168 x 2'-		83 L	
TOTAL SEVERITY	L 1458	336	9	83	
	M	42		60	
	H				

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
3	76	L	25	PCI = 100 - CDV = <u>73</u>
19	18	L	7	
19	2	M	10	
1	5	L	7	
9	4	L	6	
9	3	M	7	
q =	TOTAL DEDUCT VALUE		62	RATING = <u>very Good</u>
	CORRECTED DEDUCT VALUE (CDV)		27	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

54.6

For use of this form, see TM 5-623, the proponent agency is USACF

SECTION RS 15165-3 373
SAMPLE UNIT 3 W.B
AREA OF SAMPLE 182 x 10.5 = 1911

373

<u>Distress Types</u>					SKETCH: 	
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
<u>EXISTING DISTRESS TYPE, QUANTITY & SEVERITY</u>						
TYPE	1	3	19	9		
QUANTITY & SEVERITY	3'	~~4~~ x 154.5	4 x 27.5	150 L		
	10'	9 x 12	3 x 151	22 M		
	4'	~~3~~ x 122.5	~~2~~ x 41			
	4'	9 x 21				
	7'	9 x 43				
		3 x 168.5				
TOTAL SEVERITY	L	28	889.5	563	150	
	M				32	
	H					
<u>PCI CALCULATION</u>						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 63 $RATING =$ Good		
1	1	L	11			
3	47	L	20			
19	30	L	10			
9	8	L	10			
9	2	M	10			
$q =$ TOTAL DEDUCT VALUE			57			
CORRECTED DEDUCT VALUE (CDV)			37			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the component agency is USACI

BRANCH RT 44 SECTION RS 1516J-8 374
 DATE 5/19/93 SAMPLE UNIT 6 WB
 SURVEYED BY RF AREA OF SAMPLE 62 x 10.5 = 1911

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	3	9	15	10	
QUANTITY & SEVERITY	14 x 3 L	5 x 14	123 L	4 x 35'	10.5'	
	6 x 2 L	6 x 5		3 x 147		
	162 x 9					
TOTAL SEVERITY	L	1512	100	123	581	10.5
	M					
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	79	L	59
3	5	L	5
9	6	L	8
19	30	L	9
10	6	L	1
q=	TOTAL DEDUCT VALUE		82
	CORRECTED DEDUCT VALUE (CDV)		43.54

PCI = 100 - CDV = 41

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 44 SECTION LS 15165-B 375
 DATE 5/19/83 SAMPLE UNIT 9 WB
 SURVEYED BY RF AREA OF SAMPLE 182 x 10.5 = 1911

Distress Types				SKETCH!	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Carrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shldr Drop Off	18. Swell				
	19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	3	19	9		
QUANTITY & SEVERITY	5' x 2'	50' x 4' L	150 L		
	9' x 17'	5' x 2' L	27 H		
		1' x 4' M	5 M		
		2.5' x 14' L			
		9' x 4' L			
TOTAL SEVERITY	L 1603	277	150		
	M	4	5		
	H		27		
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>68</u>	
3	84	L	25		
19	15	L	7		
19	2	M	5		
9	8	L	10		
9	3	M	4		
9	1	H	7		
q=	TOTAL DEDUCT VALUE		58	RATING = <u>Good</u>	
CORRECTED DEDUCT VALUE (CDV)			32		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the component Agency is USACF

BRANCH Rt 44 SECTION RS 15165-B 376
 DATE 5/19/93 SAMPLE UNIT 11 WB
 SURVEYED BY RF AREA OF SAMPLE 192 x 10.5 = 1911

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	3	19	9			
QUANTITY & SEVERITY	63' x 9'	1.5' x 15'	168 L			
	7' x 15'	6' x 16'	14 M			
	7' x 116'	2 x 3'				
	9' x 56'	1 x 3'				
	91 x 32'	1 x 4'				
		1 x 5'				
		1 x 26'				
TOTAL SEVERITY	L	1464	162.5	168		
	M			14		
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
3	.77	L	25
19	.9	L	5
9	.9	L	11
9	.7	M	4
q=	TOTAL DEDUCT VALUE		45
	CORRECTED DEDUCT VALUE (CDV)		33

PCI = 100 - CDV = 67

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 44
DATE 5/19/93
SURVEYED BY RF

SECTION RS 15165-13
SAMPLE UNIT 13 W.B
AREA OF SAMPLE 192' x 10.5' = 1911

377

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	3	1	9	19	
QUANTITY & SEVERITY	28' x 7'	1.5' x 28'	182' L	1 x 17' M	
	7 x 154'	~~1.5' x 154'~~		2.5 x 26.5 L	
		1.5 x 154'		2.5 x 46 L	
				1.5 x 52 L	
TOTAL SEVERITY	L 1274	273	182	309,25	
	M			17	
	H				

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
3	67	L	23	
1	14	L	37	
9	10	L	12	
19	16	L	7	
19	9	M	8	
q= TOTAL DEDUCT VALUE			87	
CORRECTED DEDUCT VALUE (CDV)			45	

PCI = 100 - CDV =
54

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the parent document Agency is USACF

BRANCH RT 44 SECTION RS 15165-B 378
 DATE 5/19/93 SAMPLE UNIT 16 WB
 SURVEYED BY RF AREA OF SAMPLE 19.2 x 10.5 = 191

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	3	19	7	9	
QUANTITY & SEVERITY	3' x 182' L	3' x 182' L	3' x 182' L	5.5' L	141' L	
	2' x 182' L				41' M	
TOTAL SEVERITY	L 910	546	546	5.5	141	
	M				41	
	H					

weathering
 n/w
 Block -
 cracks

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	.48	L	49
3	.29	L	15
19	.29	L	9
7	.3	L	2
9	.7	L	9
9	.2	M	6
TOTAL DEDUCT VALUE			90
CORRECTED DEDUCT VALUE (CDV)			47

PCI = 100 - CDV =
53

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 44
DATE 5/19/93
SURVEYED BY RE

SECTION RS 15165-B 379
SAMPLE UNIT 18 WB
AREA OF SAMPLE 182' x 10.5' = 1911

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	3	1	9	19
QUANTITY & SEVERITY	7' L	3' x 65' L	1.5' x 182'	6' H	3.5' x 71'
		3' x 117' L	3' x 182'	73 M	4' x 30'
				60 L	3.5' x 91'
TOTAL SEVERITY	L 7	604.5	729.5	60	652
	M			73	
	H			6	

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	.4	L	0
3	.32	L	17
1	.38	L	49
9	.3	L	5
9	.4	M	9
9	.3	H	6
19	.34	L	11
q=	TOTAL DEDUCT VALUE		97
	CORRECTED DEDUCT VALUE (CDV)		50

PCI = 100 - CDV =
50

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USAC

BRANCH 24 44 SECTION RS 15165-B 380
 DATE 5/19/93 SAMPLE UNIT 21 W.B
 SURVEYED BY RF AREA OF SAMPLE 182' x 105' = 19"

Distress Types					SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shldr Drop Off	18. Swell					
	19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	3	7	1	9		
QUANTITY & SEVERITY	4.5' x 10.8'	13' L	2.5' x 182'	9' M		
		2' L	21' x 182'	174' L		
			4' x 74'			
TOTAL SEVERITY	L 486	15	1115	174		
	M			8		
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>43</u>		
3	.25	L	15			
7	.8	L	3			
1	.58	L	55			
9	.7	L	11			
9	.4	M	4			
q=	TOTAL DEDUCT VALUE		28	RATING = <u>Fair</u>		
CORRECTED DEDUCT VALUE (CDV)			57			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

2' x 4' water
 pumping
 through cracks

For use of this form, see TM 5-623, the proponent agency is USACF

SECTION RS 15165-B
SAMPLE UNIT 24 WEST 1281
AREA OF SAMPLE $192' \times 10.5' = 1911$

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

Figure E-2.

C 1-2
M 7-4
H 2-4

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procuring agency is USAC

BRANCH Rt 44 SECTION RS-15165-B 382
 DATE 5/19/93 SAMPLE UNIT 1 EB
 SURVEYED BY RF AREA OF SAMPLE 62 x 10.5' = 1911

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	19	3	9	
QUANTITY & SEVERITY	25 x 1	5 x 15	8 x 25	21 L	
	11.5 x 1.5	2 x 10	135 x 4.5	161 M	
	9.5 x 2	5 x 18			
	2 x 1	2 x 22			
	14 x 1				
TOTAL SEVERITY	L	77.25	179	807.5	21
	M				161
	H				

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
1	4	L	23	PCI = 100 - CDV = <u>58</u>
19	9	L	5	
3	42	L	19	
9	1	L	3	
9	8	M	16	
q= TOTAL DEDUCT VALUE			66	RATING = <u>Good</u>
CORRECTED DEDUCT VALUE (CDV)			42	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

Mile marker 29 is 6'4" from section 2.

$$\begin{array}{r} 20 \\ \times 21 \\ \hline 420 \\ 200 \\ \hline 420 \end{array}$$

$$\begin{array}{r} 180 \\ 120 \\ \hline 300 \\ 240 \\ \hline 540 \end{array}$$

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH 121 44
 DATE 5/19/93
 SURVEYED BY RF

SECTION RS-15165-B 383
 SAMPLE UNIT 3 EB
 AREA OF SAMPLE 182 x 10.5' = 1911

Distress Types					SKETCH!
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shldr Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	9	19	3	1	
QUANTITY & SEVERITY	175 L	2x4 M	9' x 182	1x1	
		2x182 L		1x1	
		3' x 13'		1x1	
				1x1	
				1.5x1	
TOTAL SEVERITY	L 175	411	1638	5.5	
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
9	9	L	11
19	20	L	8
3	86	L	36
1	3	L	5
q=	TOTAL DEDUCT VALUE		60
	CORRECTED DEDUCT VALUE (CDV)		38

PCI = 100 - CDV = 62

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USAC

BRANCH RT 44
DATE 5/19/83
SURVEYED BY RF

SECTION RS 15165-B 384
SAMPLE UNIT 6 EB
AREA OF SAMPLE 182 x 10.5' = 1911

Distress Types				SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking	→ N							
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	→ 3					19	9		
QUANTITY & SEVERITY	56 x 3.5					2' x 142'	36 L		
	9 x 126'						12 H		
							15 H		
TOTAL SEVERITY	L 1330					364	36		
	M						12		
	H		15						
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>72</u> RATING = <u>VERY GOOD</u>					
3	.70	L	24						
19	.19	L	7						
9	.2	L	4						
9	.16	H	4						
9	.8	H	7						
q=	TOTAL DEDUCT VALUE		46						
CORRECTED DEDUCT VALUE (CDV)			28						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACI

BRANCH RT 44
 DATE 5/19/95
 SURVEYED BY RF

SECTION RS 15165-B 385
 SAMPLE UNIT 9 EB
 AREA OF SAMPLE 192 x 10.5' = 1911

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	→ 39	→ 3	9	
QUANTITY & SEVERITY	3 x 55'	4.5 x 6.5	108 M	
	3.5 x 23'	162 x 9.5	27 H	
	3' x 36'		36 L	
	3' x 18'			
TOTAL SEVERITY	L	407.5	1699.75	36
	M			27
	H			108
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 59 $RATING =$ <u>600D</u>
19	21	L	8	
3	89	L	27	
9	2	L	4	
9	1	H	4	
9	6	H	21	
q= TOTAL DEDUCT VALUE			64	
CORRECTED DEDUCT VALUE (CDV)			41	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACF

BRANCH RT 44 SECTION RS 15165-B 386
 DATE 5/19/93 SAMPLE UNIT 11 E.B
 SURVEYED BY RF AREA OF SAMPLE 192 x 10.5 = 1911

Distress Types					SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	3	19	9		
QUANTITY & SEVERITY	1.5 x 182'	6.5 x 182'	2.5 x 152'	7.5 M		
			3' x 20'	49 L		
TOTAL SEVERITY	L 273	1183	440	49		
	M			75		
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>52</u> RATING = <u>Fair</u>		
1	14	L	37			
3	62	L	23			
19	23	L	9			
9	3	L	5			
9	4	M	9			
q =	TOTAL DEDUCT VALUE		83			
CORRECTED DEDUCT VALUE (CDV)		48				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH R-44 SECTION RS 15165-B 387
 DATE 5/19/93 SAMPLE UNIT 13 EB
 SURVEYED BY RF AREA OF SAMPLE 112 x 10.5 = 1176

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Carrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	3	9	19	
QUANTITY & SEVERITY	174.5 x 1.5	1' x 182'	182 M	5' x 10' L	
				4' x 156 L	
TOTAL SEVERITY	L 261.75	1274	182	704	
	M				
	H				

PCI CALCULATION

DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>48</u> RATING = <u>Fair</u>
1	14	L	37	
3	67	L	23	
9	10	M	19	
19	37	L	11	
TOTAL DEDUCT VALUE			90	
CORRECTED DEDUCT VALUE (CDV)			52	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the instrument Agency is USACF

BRANCH RT 44
 DATE 5/19/93
 SURVEYED BY RF

SECTION 2S 15165-B 388
 SAMPLE UNIT 116 E.B
 AREA OF SAMPLE 182' x 10.5' = 1911

Distress Types					SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking							
2. Bleeding	11. Patching & Util Cut Patching							
3. Block Cracking	12. Polished Aggregate							
*4. Bumps and Sags	*13. Potholes							
5. Corrugation	14. Railroad Crossing							
6. Depression	15. Rutting							
*7. Edge Cracking	16. Shoving							
*8. Jt Reflection Cracking	17. Slippage Cracking							
*9. Lane/Shoulder Drop Off	18. Swell							
	19. Weathering and Raveling							
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY								
TYPE	1				3	9	19	
QUANTITY & SEVERITY	1.5 x 182'				4.5' x 72'	129 L	2.5 x 182	
	2' x 182'				4' x 92	9 M		
TOTAL SEVERITY	L 637				692	129	455	
	M					9		
	H							
PCI CALCULATION								
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>52</u>				
1	33	L	47					
3	36	L	17					
9	7	L	9					
9	5	M	4					
19	23	L	8					
q=	TOTAL DEDUCT VALUE		85	RATING = <u>Fair</u>				
	CORRECTED DEDUCT VALUE (CDV)		48					

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC.

BRANCH RT 44
 DATE 5/19/93
 SURVEYED BY RF

SECTION RS 15165-B 389
 SAMPLE UNIT 18 EB
 AREA OF SAMPLE 182' x 10.5' = 1911

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE.QUANTITY & SEVERITY						
TYPE	→ 1	3	9	19		
QUANTITY & SEVERITY	162' x 2'	20' x 2'	105 L	22' x 2'		
	162' x 2.5'	182' x 3.5'	66 M			
		17' x 7'	9 H			
TOTAL SEVERITY	L	736.5	796	105	44	
	M			106		
	H			9		

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	39	L	49
3	42	L	19
9	16	L	8
9	3	M	7
9	5	H	60
19	2	L	2
TOTAL DEDUCT VALUE			91
CORRECTED DEDUCT VALUE (CDV)			4749

PCI = 100 - CDV = 51

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USACF

BRANCH RT 44 SECTION RS 15165-B 390
 DATE 5/19/93 SAMPLE UNIT 21 E.B
 SURVEYED BY RF AREA OF SAMPLE 182' x 10.5' = 1911

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	3	1	9	19	
QUANTITY & SEVERITY	7' x 122'	2' x 182'	167' L	6 x 3 L	
	~~12' x 122'~~	21' x 60'	15' H	6 x 7 L	
	5' x 162'			10' x 2' L	
				12' x 2 L	
TOTAL SEVERITY	L 1164	488	167	74	
M			15		
H					
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = 47 RATING = <u>Fair</u>	
3	.61	L	22		
1	.26	L	44		
9	.9	L	11		
9	.8	M	4		
19	.4	L	3		
q= TOTAL DEDUCT VALUE			84		
CORRECTED DEDUCT VALUE (CDV)			53		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH RT 44
 DATE 5/19/93
 SURVEYED BY RF

SECTION RS 15165-B 391
 SAMPLE UNIT 24 E.B.
 AREA OF SAMPLE 192' x 10.5' = 1911

Distress Types					SKETCH!
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shldr Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	→ 3	1	19	9	
QUANTITY & SEVERITY	7.5' x 182' L	2' x 182' L	2' x 182' L	147' L	
				35' M	
TOTAL SEVERITY	L 1365	364	364	147	
	M			35	
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
3	71	L	23
1	19	L	41
19	19	L	7
9	8	L	10
9	2	M	6
q= TOTAL DEDUCT VALUE			87
CORRECTED DEDUCT VALUE (CDV)			45

PCI = 100 - CDV = 55

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency of USAC

BRANCH R-67 SECTION 125 1507 - I 392
 DATE 7 5 10 SAMPLE UNIT 3
 SURVEYED BY CS AREA OF SAMPLE 109 x 24' = 2616 SF

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shoulder Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	7	10	15		
QUANTITY & SEVERITY	109 L	24	109 x 24		
	2 L	24	109 x 24		
	L	109			
		24			
		24			
		24			
		24			
		24			
TOTAL SEVERITY	L 125.5	274	436		
M					
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
7	4.8	L	7
10	10.5	L	17
15	16.7	L	33
q=	TOTAL DEDUCT VALUE		57
	CORRECTED DEDUCT VALUE (CDV)		35.5

PCI = 100 - CDV = 64.5

RATING = GOOD

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the instrument agency is USACF

BRANCH R167
 DATE 7/15/82
 SURVEYED BY EV

SECTION 101-10-1
 SAMPLE UNIT 10
 AREA OF SAMPLE 101 x 74' = 2616 SF

393

Distress Types					SKETCH: <u>1</u>
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shoulder Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	→ <u>7</u>	→ <u>10</u>	→ <u>19</u>	→ <u>3</u>	→ <u>15</u>
QUANTITY & SEVERITY	<u>80.5</u>	<u>12.2</u>	<u>54.1</u>	<u>29.4</u>	<u>34.0</u>
	<u>10.2</u>	<u>11.2</u>	<u>34.1</u>		
	<u>L</u>	<u>2.1</u>	<u>14.9</u>		
		<u>2.1</u>	<u>54.9</u>		
		<u>2.5</u>			
		<u>1.4</u>			
	<u>5.4</u>				
TOTAL SEVERITY	<u>L</u>	<u>99</u>	<u>312</u>	<u>525.5</u>	<u>43.5</u>
	<u>M</u>				
	<u>H</u>				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
<u>7</u>	<u>3.8</u>	<u>L</u>	<u>6</u>
<u>10</u>	<u>11.9</u>	<u>L</u>	<u>18</u>
<u>19</u>	<u>20.1</u>	<u>L</u>	<u>7.5</u>
<u>3</u>	<u>1.7</u>	<u>L</u>	<u>1</u>
<u>15</u>	<u>8.3</u>	<u>L</u>	<u>25</u>
q= TOTAL DEDUCT VALUE <u>57.5</u>			
CORRECTED DEDUCT VALUE (CDV) <u>31</u>			

PCI = 100 - CDV = 69

RATING = GOOD

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ave
71.3

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The originating agency is USACF

BRANCH 1537
 DATE 7 15 82
 SURVEYED BY 60

SECTION 10000-2 394
 SAMPLE UNIT 17
 AREA OF SAMPLE 12.1 = 2616.5

Distress Types				SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking			
2. Bleeding	11. Patching & Util Cut Patching			
3. Block Cracking	12. Polished Aggregate			
*4. Bumps and Sags	*13. Potholes			
5. Carrugation	14. Railroad Crossing			
6. Depression	15. Rutting			
*7. Edge Cracking	16. Shoving			
*8. Jt Reflection Cracking	17. Slippage Cracking			
*9. Lane/Shldr Drop Off	18. Swell			
	19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	7	10	19		
QUANTITY & SEVERITY	100.5	539	490.5		
TOTAL SEVERITY	L 100.5	539	490.5		
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
7	3.8	L	6
10	20.6	L	24
19	18.8	L	7
q=	TOTAL DEDUCT VALUE		37
	CORRECTED DEDUCT VALUE (CDV)		22

PCI = 100 - CDV = 78

RATING = very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the component Agency is USAC

BRANCH   SECTION
 DATE   SAMPLE UNIT
 SURVEYED BY   AREA OF SAMPLE

395

= 2616 SF

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Carrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	1	2	3	4	5
QUANTITY & SEVERITY		10			
		13			
TOTAL SEVERITY	L 109	377	24	33	13
	M				
	H				

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
7	4.2	L	6	PCI = 100 - CDV = <u>69</u>
10	14.9	L	20.5	
15	0.9	L	7	
19	1.3	L	2	
				RATING = <u>Good</u>
q=	TOTAL DEDUCT VALUE		35.5	
	CORRECTED DEDUCT VALUE (CDV)		21	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency is USAC

BRANCH R-1 67 SECTION 15502 - I 396
 DATE 7/15/83 SAMPLE UNIT 32
 SURVEYED BY CL AREA OF SAMPLE 109 x 24 = 2616 SF

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	7	19	15	3	
QUANTITY & SEVERITY	74	101	.5 x 109	20 x 24	15.5 x 24	
	24	34				
	711					
	24					
	109					
	118					
	118.5					
	8					
TOTAL SEVERITY	L	457	135	54.5	40	62
	M					
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	17.5	L	22	PCI = 100 - CDV = <u>73</u>
7	5.2	L	7	
19	2.1	L	2	
15	1.5	L	11	
3	2.4	L	2	
q=	TOTAL DEDUCT VALUE		44	RATING = <u>very</u> <u>GOOD</u>
CORRECTED DEDUCT VALUE (CDV)			27	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The responsible agency is USAC.

BRANCH R-67
 DATE 7/15/83
 SURVEYED BY RE

SECTION 15502 - 5 398
 SAMPLE UNIT 48
 AREA OF SAMPLE 107 x 24 = 2616 sq ft

Distress Types						SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	7	10	19	15	
QUANTITY & SEVERITY	2 x 7.	97.5	102	1.5 x 109	35 x 2	
			109	2 x 2		
			10			
			7.5			
			75			
			4.5			
TOTAL SEVERITY	L	6	97.5	220	167.5	50
	M					
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 75 $RATING =$ very good		
1	0.2	L	4			
7	3.7	L	5.5			
10	8.4	L	15			
19	6.4	L	3.5			
15	1.9	L	12.5			
q= TOTAL DEDUCT VALUE		40.5				
CORRECTED DEDUCT VALUE (CDV)		25				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH RT67 SECTION 15702-I 399
 DATE 07/15/93 SAMPLE UNIT 56
 SURVEYED BY RF AREA OF SAMPLE 109 x 24 = 2616 SF

Distress Types				SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking			
2. Bleeding	11. Patching & Util Cut Patching			
3. Block Cracking	12. Polished Aggregate			
*4. Bumps and Sags	*13. Potholes			
5. Carrugation	14. Railroad Crossing			
6. Depression	15. Rutting			
*7. Edge Cracking	16. Shoving			
*8. Jt Reflection Cracking	17. Slippage Cracking			
*9. Lane/Shoulder Drop Off	18. Swell			
	19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	7	10	19	
QUANTITY & SEVERITY	109	109	109	
	25	12	12	
		12		
		24		
		21		
		60		
TOTAL SEVERITY	L 145	298	80	
	M			
	H			

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
7	.55	L	7.5
10	.11	L	18
19	3.1	L	2.5
q=	TOTAL DEDUCT VALUE		28
	CORRECTED DEDUCT VALUE (CDV)		20.5

PCI = 100 - CDV =
79.5

very.
 RATING = GOOD

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH Rt 67

SECTION 15502-I

DATE 7/15/93

SAMPLE UNIT 72 401

SURVEYED BY RF

AREA OF SAMPLE 109 x varies = 655.5 +

2160

2515.5

Distress Types		SKETCH!
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	7	10	15	10	
QUANTITY & SEVERITY	69	109L	100 x 2	24	
		1091		40	
		20L			
		24			
		20			
		24			
		24			
		20			
TOTAL SEVERITY	L	69	384	280	64
	M				
	H				

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
7	2.5	L	4.5	
10	159	L	21	
15	100	L	27	
q=	TOTAL DEDUCT VALUE		52.5	
	CORRECTED DEDUCT VALUE (CDV)		38.5	

PCI = 100 - CDV =

61.5

RATING = Good

* All Distresses Are Measured in Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH RT 67
DATE 7/15/93
SURVEYED BY RF

SECTION RS 15502-I 402
SAMPLE UNIT 80
AREA OF SAMPLE 109' x 24' = 2616 SF

Distress Types				SKETCH:						
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shldr Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	10					7	17	11	15	10
QUANTITY & SEVERITY	109					96	42 x .5	3 x 24	60 x 2	19
	58						107 x .5			10
	12									
	11									
	22									
	24									
	109									
TOTAL SEVERITY	L	372.5	96	74.5	72	120	29			
	M									
	H									
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>68</u> RATING = <u>Good</u>						
10	15.4	L	21							
7	3.7	L	5.5							
17	2.9	L	12							
11	2.8	L	6							
15	4.6	L	20							
q=	TOTAL DEDUCT VALUE		64.5							
	CORRECTED DEDUCT VALUE (CDV)		32							

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH RT 67
 DATE 7/15/93
 SURVEYED BY RF

SECTION RS 15502 - 403
 SAMPLE UNIT 88
 AREA OF SAMPLE 109' x 24' = 2616 SF

Distress Types					SKETCH:	
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Slidr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	7	19	15		
QUANTITY & SEVERITY	74 L	109	109 x 9	35 x 2		
	80 L					
	12 L					
	24					
	12					
	24					
	12					
	40					
TOTAL SEVERITY	35					
	L 313	109	981	70		
	M					
H						
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 73.5 $RATING =$ <u>Very Good</u>		
10	12.0	L	18.5			
7	42	L	.6			
19	37.5	L	11			
15	27	L	15			
q= TOTAL DEDUCT VALUE			50.5			
CORRECTED DEDUCT VALUE (CDV)			26.5			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH R-67
 DATE 7/15/93
 SURVEYED BY RF

SECTION RS 15502 - I 404
 SAMPLE UNIT 96
 AREA OF SAMPLE 169 x 24' = 2616 sq

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	7	19	15	
QUANTITY & SEVERITY	24	76.5	165 x 1.5	15 x 2	
	29				
	24				
	104				
	109				
	109				
	106				
	63				
TOTAL SEVERITY	10				
	L 578	76.5	163.5	30	
	M				
H					
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 68.5 $RATING =$ <u>Good</u>	
10	22.1	L	25		
7	29	L	5		
19	6.3	L	3.5		
15	1.2	L	9		
q= TOTAL DEDUCT VALUE			42.5		
CORRECTED DEDUCT VALUE (CDV)			31.5		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH RS 37 SECTION RS 15630 405
 DATE 7/15/93 SAMPLE UNIT 2 ^{1/3}
 SURVEYED BY RF, LH AREA OF SAMPLE 150 x 12' = 1800 sq ft

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	7	19		
QUANTITY & SEVERITY	179'	49.5	1 x 1		
			1.5 x 14.5		
TOTAL SEVERITY	L 179	49.5	22.75		
M					
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	9.9	L	16.5
7	2.8	L	5
19	1.3	L	2
q = 1. TOTAL DEDUCT VALUE			23.5
CORRECTED DEDUCT VALUE (CDV)			23.5

PCI = 100 - CDV = 76.5

RATING = Very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

Acc
 84.41

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH RT 37
 DATE 7/15/93
 SURVEYED BY RF, HH

SECTION 2S15630
 SAMPLE UNIT 4 D3
 AREA OF SAMPLE 150 x 12 = 1800 sq

406

Distress Types				SKETCH:						
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shldr Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	10					19				
QUANTITY & SEVERITY	179					1.5 x 137				
	12					3 x 150				
TOTAL SEVERITY	L					191	655.5			
	M									
	H									
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u>79.5</u> $RATING =$ <u>very Good</u>						
10	10.6	L	17							
19	26.4	L	11							
q = 2	TOTAL DEDUCT VALUE		28							
CORRECTED DEDUCT VALUE (CDV)			20.5							

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH Rt 37
 DATE 7/15/93
 SURVEYED BY RF, HH

SECTION RS 15630 407
 SAMPLE UNIT 6 NB
 AREA OF SAMPLE 150 x 12 = 1800 sq

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	7	10	19	
QUANTITY & SEVERITY	108	99.5	2.5 x 150 1.5 x 68	
TOTAL SEVERITY	L 108	M 99.5	H 477	
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 84 $RATING =$ <u>Very Good</u>
7	6.0	L	8	
10	5.5	L	11.5	
19	26.5	L	9	
q = 3 TOTAL DEDUCT VALUE			28.5	
CORRECTED DEDUCT VALUE (CDV)			16	

* All Distresses Are Measured In Square Feet Except Distresses 4, 7, 8, 9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH 2+37
 DATE 7/15/93
 SURVEYED BY RF, HH

SECTION 2S15630 408
 SAMPLE UNIT 8 103
 AREA OF SAMPLE 150 x 12 = 1800 sq

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	7	10	19	
QUANTITY & SEVERITY	14.5	91.5	2.5 x 150	
TOTAL SEVERITY	L 14.5	91.5	375	
M				
H				
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = 87
7	.8	L	3	
10	5.1	L	7	
19	20.8	L	8	
q = 2 TOTAL DEDUCT VALUE			18	RATING = <u>Excellent</u>
CORRECTED DEDUCT VALUE (CDV)			13	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH Rt 37 SECTION RS15630 409
 DATE 7/15/93 SAMPLE UNIT 11 NB
 SURVEYED BY RF, HH AREA OF SAMPLE 150x12 = 1800 sq

Distress Types				SKETCH:	
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	7	10	19		
QUANTITY & SEVERITY	7	72.5	2 x 150		
TOTAL SEVERITY	L 7	72.5	300		
	M				
	H				
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = 87 RATING = <u>Excellent</u>	
7	.4	L	2		
10	4.0	L	9		
19	16.7	L	7		
q = 2 TOTAL DEDUCT VALUE			18		
CORRECTED DEDUCT VALUE (CDV)			13		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5 623, the proponent agency is USACE

BRANCH R37 SECTION RS 15630 410
 DATE 7/15/93 SAMPLE UNIT 11 SB
 SURVEYED BY RF, HH AREA OF SAMPLE 150x12 = 1800 sq

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	→ 7			
QUANTITY & SEVERITY	150			
TOTAL SEVERITY	L			
	M			
	H			
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 90 $RATING =$ <u>Excellent</u>
7	8.3	L	10	
q=	TOTAL DEDUCT VALUE		10	
CORRECTED DEDUCT VALUE (CDV)			10	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the parent agency is USAC

BRANCH RT 37 SECTION RS 15630
 DATE 7/15/93 SAMPLE UNIT 2 NB 411
 SURVEYED BY RF, HH AREA OF SAMPLE 164' x 11' = 1804 ft²

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Carrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Slidr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	10	7		
QUANTITY & SEVERITY	207 L	79 L		
TOTAL SEVERITY	L 207	79		
M				
H				
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 82 $RATING =$ <u>Very Good</u>
10	11.5	L	18	
7	4.4	L	6.5	
q= 2	TOTAL DEDUCT VALUE		24.5	
CORRECTED DEDUCT VALUE (CDV)			18	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH R+37
 DATE 7/15/93
 SURVEYED BY RF, HH

SECTION PS1563D
 SAMPLE UNIT 5
 AREA OF SAMPLE 164 x 11.5

412

Distress Types				SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shoulder Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	10					7	19		
QUANTITY & SEVERITY	108					18 L	6.5 x 1		
	13								
TOTAL SEVERITY	L 121					18	6.5		
	M								
	H								
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>83</u> RATING = <u>very good</u>					
10	6.7	L	13						
7	1.0	L	3						
19	0.4	L	1						
q = 1	TOTAL DEDUCT VALUE		17						
CORRECTED DEDUCT VALUE (CDV)			17						

* All Distresses Are Measured In Square Feet Except Distresses 4, 7, 8, 9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the parent Agency is USAC

BRANCH R+56
DATE 7/29/93
SURVEYED BY John

SECTION ES15173 413
SAMPLE UNIT 7
AREA OF SAMPLE 145x12 = 1740 SF

Distress Types		SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking						
2. Bleeding	11. Patching & Util Cut Patching						
3. Block Cracking	12. Polished Aggregate						
*4. Bumps and Sags	*13. Potholes						
5. Corrugation	14. Railroad Crossing						
6. Depression	15. Rutting						
*7. Edge Cracking	16. Shoving						
*8. Jt Reflection Cracking	17. Slippage Cracking						
*9. Lane/Shoulder Drop Off	18. Swell						
	19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	10		12	7	10	9	15
QUANTITY & SEVERITY	145' L		95'x115' L	115' M	12' M	21' L	2'x115' L
	120' L				5' L		
	12' M				10' M		
	4' M				12' M		
	21' L				3' M		
	10' L						
	21' L						
	9' M						
10' M							
TOTAL SEVERITY	L 290	1377.5		5	21	290	
M	35		145	37			
H							
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>39</u> RATING = <u>Poor</u>			
10	170	L	22				
10	4.1	M	20				
12	79.2	L	17				
7	83	M	22				
9	1.2	L	3				
15	16.7	L	33				
q =	TOTAL DEDUCT VALUE		117				
	CORRECTED DEDUCT VALUE (CDV)		61				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

Acc
49.4

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the accompanying document is USAC

BRANCH RT 54
DATE 7/25/13
SURVEYED BY SM

SECTION RS 15173 414
SAMPLE UNIT 14
AREA OF SAMPLE 12' x 14.5' = 1740 SF

Distress Types					SKETCH:		
1. Alligator Cracking	*10. Long & Trans Cracking						
2. Bleeding	11. Patching & Util Cut Patching						
3. Block Cracking	12. Polished Aggregate						
*4. Bumps and Sags	*13. Potholes						
5. Corrugation	14. Railroad Crossing						
6. Depression	15. Rutting						
*7. Edge Cracking	16. Shoving						
*8. Jt Reflection Cracking	17. Slippage Cracking						
*9. Lane/Shoulder Drop Off	18. Swell						
	19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	10				12	7	9
QUANTITY & SEVERITY	105' L				9.5' x 14.5' L	145' M	102' L
	12' M						
	4' L					3.5' L	
	9' L					2' L	
	3' L					2' L	
	145' L					1.5' L	
	12' M					4' L	
	3' L		4' M				
TOTAL SEVERITY	L 273	1377.5	13	162			
	M 24		149				
	H						
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>57</u> RATING = <u>Good</u>			
10	15.7	L	21				
10	14	M	11				
12	79.2	L	17				
7	0.8	L	3				
7	8.6	M	23				
9	5.9	L	8				
TOTAL DEDUCT VALUE			83				
CORRECTED DEDUCT VALUE (CDV)			43				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. the originating Agency is USAC

BRANCH RS 56 SECTION RS 15173 415
 DATE 7/29/93 SAMPLE UNIT 21
 SURVEYED BY John AREA OF SAMPLE 145X12 = 1740 SF

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	12	10	10	9	15
QUANTITY & SEVERITY	12' L	7.5' M	5' M	10' M	11' L	4' M
	14' L		3' L	3' L		
	12' M		15' M	4' L		
	4' L		3' M	3' L		
	1.5' L		9' M			
	1.5' M		4' L			
	2' L		12' L			
	12' L		2' L			
	170'		5' M			
TOTAL SEVERITY	L 296.5	1377.5	21	10	145	580
M	13.5		33	10		
H						

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	18.8	L	23	PCI = 100 - CDV = <u>43</u>
10	33	M	18	
17	79.2	L	17	
9	83	L	10	
15	333	L	41	
				RATING = <u>Fair</u>
q=	TOTAL DEDUCT VALUE		109	
	CORRECTED DEDUCT VALUE (CDV)		57	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The responsibility Agency is USACI

BRANCH Rt 56
 DATE 7/29/93
 SURVEYED BY SOB

SECTION 2515173
 SAMPLE UNIT 28
 AREA OF SAMPLE 145 x 12 = 1740 SF

416

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	12	10	10	15	9
QUANTITY & SEVERITY	12' M	9.5 x 13.5 L	1' L	3' L	11 x 14.5 L	117' L
	145' L		6' L	12' L		9' M
	18' L		12' L	12' M		
	8' L		12' L	12' L		
	11' M		1' L			
	2' L		11' M			
	3.5 L		1.9' L			
	12' L		3.5 L			
	1' L		12' L			
TOTAL SEVERITY	L 189.5	1377.5	116.5	27	580	42
M	23		11	12		9
H						

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
16	19.1	L	23	PCI = 100 - CDV = <u>41</u>
10	22.6	M	15	
12	77.2	L	17	
15	33.3	L	41	
9	24	L	4	
9	0.5	M	4	
q =	TOTAL DEDUCT VALUE		104	RATING = <u>Fair</u>
	CORRECTED DEDUCT VALUE (CDV)		59	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procuring agency is USAC

BRANCH Rt 56 SECTION RS 15173 417
 DATE 7/29/93 SAMPLE UNIT 35
 SURVEYED BY John AREA OF SAMPLE 12 X 145 = 1740 SF

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE.QUANTITY & SEVERITY							
TYPE	10	12	7	10	9	15	
QUANTITY & SEVERITY	12' M	4.5 x 145 L	145' L	12' M	7' M	4 x 145 L	
	145' L			30 L	2' L		
	12' L			12' M			
	10' L			21' L			
	21' L			1' M			
	11' L						
	1.5' L						
	2' M						
12' M							
TOTAL SEVERITY	L	200.5	1377.5	145	51	2	580
	M	26			25	7	
	H						

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	14.5	L	21
10	29	M	17
12	79.2	L	17
7	8.3	L	10
9	0.1	L	2
9	0.4	M	4
15	33.3	L	41
q= TOTAL DEDUCT VALUE			112
CORRECTED DEDUCT VALUE (CDV)			58

PCI = 100 - CDV = 42

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor agency is USACF

BRANCH RT 56
 DATE 7/29/93
 SURVEYED BY Th

SECTION RS 15173
 SAMPLE UNIT 4/2
 AREA OF SAMPLE 145 sq ft 418
7 = 1740

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	12	10		
QUANTITY & SEVERITY	12' L	75' L	36' L		
	13' L		17' L		
	17' L		3' L		
	12' M		12' M		
	52' L				
	3' M				
	12' L				
	11' L				
	31' L				
	TOTAL SEVERITY	L 175	1377.5	51	
	M 15		12		
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	13.0	L	19
10	16.0	M	12
12	79.2	L	17
q=	TOTAL DEDUCT VALUE		48
	CORRECTED DEDUCT VALUE (CDV)		30

PCI = 100 - CDV = 70

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procument agency is USAC

BRANCH R+56 SECTION RS 15173 419
 DATE 7/29/93 SAMPLE UNIT 49
 SURVEYED BY Job AREA OF SAMPLE 145 x 12 = 1740 SF

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	*12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Carrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	12	4	9	10	
QUANTITY & SEVERITY	145' L	95' x 15' L	12' W	18' L	3' L	
	100' L				12' L	
	9' L				3' L	
	7' L				4' L	
	1.5' L				12' L	
	5' L					
	2.5' L					
	1' L					
	2.5' L					
TOTAL SEVERITY	L 273.5	1377.5		18	34	
M			12			
H						

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	.177	L	22	PCI = 100 - CDV = <u>61</u>
12	.792	L	12	
4	0.7	M	20	
9	1.0	L	3	
q=	TOTAL DEDUCT VALUE		62	RATING = <u>Good</u>
	CORRECTED DEDUCT VALUE (CDV)		39	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

10/93
 17.4

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor agency is USAC

BRANCH Rt 56 SECTION R315173 420
 DATE 7/29/93 SAMPLE UNIT 56
 SURVEYED BY 102 AREA OF SAMPLE 145 x 12 = 1740 SF

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Carrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	12	15	7	9	
QUANTITY & SEVERITY	115' L	9.5 x 14.5 L	4 x 14.5 L	27' L	21' M	
	115' L				124' H	
	140' L					
	2' L					
	3' L					
	10' L					
	2' L					
	12' L					
TOTAL SEVERITY	L 463	1377.5	580	27	21	
	M				124	
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	26.6	L	27	PCI = 100 - CDV = <u>33</u>
12	75.2	L	17	
15	33.3	L	41	
7	16	L	3	
9	1.2	M	5	
9	7.1	H	24	
q=	TOTAL DEDUCT VALUE		117	RATING = <u>Poor</u>
	CORRECTED DEDUCT VALUE (CDV)		67	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency is USAC

BRANCH RT 56 SECTION RS 15173 421
 DATE 7/29/93 SAMPLE UNIT 63
 SURVEYED BY JR AREA OF SAMPLE 145 x 12 = 1740 SF

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shoulder Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	12	13	15	9
QUANTITY & SEVERITY	145' L	6.5 x 145'	7' L	145 x 4'	72' L
	115' L		3' L		
	3' L		4' L		
	12' L		3' L		
	3' L				
	3' L				
	3' L				
	12' L				
TOTAL SEVERITY	L 329	1377.5	13	580	72
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	19.7	L	23
12	79.2	L	17
15	33.3	L	41
9	41	L	6
TOTAL DEDUCT VALUE			87
CORRECTED DEDUCT VALUE (CDV)			50

PCI = 100 - CDV =
50

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the implementing Agency is USAC

BRANCH RT 56 SECTION RS 15173 422
 DATE 7/29/93 SAMPLE UNIT 70
 SURVEYED BY John AREA OF SAMPLE 12 x 145 = 1740 sf

Distress Types					SKETCH:	
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Carrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Slidr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	9	10	15	12	10	
QUANTITY & SEVERITY	10	145' L	133' L	9.5' x 15' L	9' L	
		125'				
		9' L				
		9' L				
		12' L				
		12' L				
		2' L				
		12' L				
TOTAL SEVERITY	L	10	362	580	1377.5	9
M						
H						
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u><u>46</u></u>		
9	06	L	2			
10	21.3	L	25			
15	33.3	L	41			
12	79.2	L	17			
q= TOTAL DEDUCT VALUE			85	RATING = <u><u>Fair</u></u>		
CORRECTED DEDUCT VALUE (CDV)			54			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. the inspecting Agency is USAC

BRANCH RT 56
DATE 7/24/53
SURVEYED BY JH

SECTION 1515173
SAMPLE UNIT 77
AREA OF SAMPLE 12x145

423

= 17405

Distress Types				SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking			
2. Bleeding	11. Patching & Util Cut Patching			
3. Block Cracking	12. Polished Aggregate			
*4. Bumps and Sags	*13. Potholes			
5. Corrugation	14. Railroad Crossing			
6. Depression	(15) Rutting			
*7. Edge Cracking	16. Shoving			
*8. It Reflection Cracking	17. Slippage Cracking			
*9 Lane/Shldr Drop Off	18. Swell			
	19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	9	15	12	
QUANTITY & SEVERITY	145' L	145' L	4x15 L	9.5x145 L	
	12' L				
	12' L				
	12' L				
	12' L				
	12' L				
	9' L				
TOTAL SEVERITY	L 214	145	580	1377.5	
M					
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	12.3	L	19
9	8.3	L	10
15	33.3	L	41
12	79.2	L	17
q=	TOTAL DEDUCT VALUE		87
	CORRECTED DEDUCT VALUE (CDV)		50

PCI = 100 - CDV = 50

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency is USAC

BRANCH RT 56
DATE _____
SURVEYED BY _____

SECTION RS15173 424
SAMPLE UNIT 84
AREA OF SAMPLE 145' x 12' = 1740 SF

Distress Types					SKETCH:				
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Carrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	12					10	10	9	15
QUANTITY & SEVERITY	9.5 x 145					12	12 L	121 L	41 x 145
						12 M	7 L		
						22 L			
						12			
						12 M			
						5 L			
						6 L			
		12 M							
TOTAL SEVERITY	L 1377.5	96	19	121	580				
	M	36							
	H								
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>51</u> RATING = <u>Fair</u>					
12	79.2	L	12						
10	66.6	L	13						
10	2.1	M	14						
9	7.0	L	9						
15	33.3	L	41						
q =	TOTAL DEDUCT VALUE		94						
	CORRECTED DEDUCT VALUE (CDV)		49						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the originating agency is USAC

BRANCH RT 56 SECTION RS 15173 425
 DATE 7/27/93 SAMPLE UNIT 91
 SURVEYED BY RF + TH AREA OF SAMPLE 145' x 12' = 1740 SF

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shoulder Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	12	9	10	15	10	7
QUANTITY & SEVERITY	9.5 x 145 L	82 L	9	4 x 145 L	22 L	101
			141		17 M	
			3			
			12 M			
			10 M			
			12			
			22 M			
			12 M			
TOTAL SEVERITY	L 1377.5	82	175	580	22	101
M			56		12	
H						

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
12	79.2	L	17
9	47	L	7
10	11.3	L	18
10	3.9	M	19
15	33.3	L	41
7	5.8	L	8
q=	TOTAL DEDUCT VALUE		110
	CORRECTED DEDUCT VALUE (CDV)		54

PCI = 100 - CDV =

46

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

6/16/93
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MP 29

10 from seg

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH SR 241 SECTION RS 15174-A 426
 DATE 7/28/93 SAMPLE UNIT 4
 SURVEYED BY RF, JH AREA OF SAMPLE 135 x 11 = 1485 SF

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	19	10	9	10	1
QUANTITY & SEVERITY	7	135 x 2 M	11	65 L	11	4 x 2
	10	135 x 9 L	14		6	3 x 3
	13		11 M			2 x 3
	11		6.5			2 x 3
	17		11			1 x 14
	22		11			2 x 1
	7		5			
	5		11			
TOTAL SEVERITY	L	103	1215	75.5	65	17
	M		270	11		
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	132	L	19
10	6.7	M	7
19	81.8	L	15
19	182	M	23.5
9	4.4	L	6.5
1	3.0	L	20
q= TOTAL DEDUCT VALUE			91
CORRECTED DEDUCT VALUE (CDV)			44

PCI = 100 - CDV = 56

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH SL 241 SECTION RS 15174-A 427
 DATE 7/28/93 SAMPLE UNIT 8
 SURVEYED BY RF, JH AREA OF SAMPLE 135 x 11 = 1485 SF

Distress Types					SKETCH!
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	19	9	10	10
QUANTITY & SEVERITY	12	1 x 33 M	135	11	7
	11	1452 L		12.5	7
	11			6	6.5
	10			5.5	4
	11			11	
	5			22	
	11 M			6	
	12			5	
TOTAL SEVERITY	5			7	
	L	77	1452	135	860
	M	11	33		24.5
H					
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u><u>69</u></u> RATING = <u><u>Good</u></u>	
10	12.6	L	19		
10	0.7	M	6.5		
19	97.8	L	16		
19	22	M	10		
9	9.1	L	11		
q =	TOTAL DEDUCT VALUE		62.5		
CORRECTED DEDUCT VALUE (CDV)			31		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5 623, the proponent agency is USACE.

BRANCH SL 241 SECTION 25 15174-A
 DATE 7/28/93 SAMPLE UNIT 11
 SURVEYED BY RC, JH AREA OF SAMPLE 135 x 11

428

Distress Types						SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	19					10	3	9	1
QUANTITY & SEVERITY	11 x 135					8	10 x 3	50 L	35 x 2
	11								9 x 2
	11								
	11 M								
	11								
	11 M								
	11								
TOTAL SEVERITY	L 1485	63	30	50	88				
	M	22							
	H								
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>61</u> RATING = <u>Good</u>					
19	100.0	L	16.5						
10	42	L	9						
10	15	M	11.5						
3	2.0	L	1						
9	34	L	5						
1	5.9	L	27						
TOTAL DEDUCT VALUE			70						
CORRECTED DEDUCT VALUE (CDV)			39						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9, and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH SR 241 SECTION RS 15174-A 429
 DATE 7/28/93 SAMPLE UNIT 14
 SURVEYED BY RF / JH AREA OF SAMPLE 135 x 11 = 1485

Distress Types				SKETCH:		
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane / Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	19	10	1	9	10	7
QUANTITY & SEVERITY	11 x 135	11	4 x 5	46 L	9	94.5 L
		11M	4 x 5	37 L	6	
		4			6	
		8			11M	
		11			11M	
		2			11M	
		7				
		11M				
TOTAL SEVERITY	L	1485	54	40	83	21
	M		22			33
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u>61</u> $RATING =$ <u>Good</u>		
19	100.0	L	16.5			
10	5.1	L	11			
10	3.7	M	19			
1	2.7	L	19			
9	5.6	L	7.5			
7	6.4	L	8.5			
q= TOTAL DEDUCT VALUE			81.5			
CORRECTED DEDUCT VALUE (CDV)			39			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH SC 241 SECTION RS 15174-A 430
 DATE 7/28/93 SAMPLE UNIT 18
 SURVEYED BY RF, JH AREA OF SAMPLE 13.5 x 11 = 148.5 SF

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. JT Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	19	10	9	1	10
QUANTITY & SEVERITY	11 x 13.5	11 M	20 L	17 x 1	15
	7	9		35 x 4.5	11
	5			1 x 2.0	17
	11 M				16.0
	4				4
	7				5.5
	11				
	22				
TOTAL SEVERITY	L 148.5	16.0	20	194.5	72.5
	M	22			
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
19	100.0	L	16.5
10	9.3	L	16
10	1.5	M	11.5
9	1.4	L	3
1	13.1	L	36
q= TOTAL DEDUCT VALUE			83
CORRECTED DEDUCT VALUE (CDV)			47

PCI = 100 - CDV = 53

RATING = FAIR

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH SR 241 SECTION RS 15174-A 431
 DATE 7/28/93 SAMPLE UNIT 21
 SURVEYED BY RF, JH AREA OF SAMPLE 135x11 = 1485 SF

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. If Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	19	10	9	1	10	
QUANTITY & SEVERITY	11x135	11	362	2x135	11	
		11	312		11	
		11.5				
		3				
		13				
		12				
		3				
		11				
TOTAL SEVERITY	L	1485	84.5	47	270	22
	M					
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 56 $RATING =$ <u>6000</u>
19	100.0	L	16.5	
10	7.2	L	14	
9	4.5	L	6.5	
1	18.2	L	40	
q= TOTAL DEDUCT VALUE			77	
CORRECTED DEDUCT VALUE (CDV)			44	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH RT 241 SECTION RS 15174-A 432
 DATE 7/28/93 SAMPLE UNIT 25
 SURVEYED BY RF, JH AREA OF SAMPLE 135 x 11 = 1485 SF

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	12	19	1	
QUANTITY & SEVERITY	11	11	11 x 135	8 x 38.5	
	7	5.5		1 x 14	
	11	3.5			
	54	7			
	17	11 M			
	6	3			
	11	11 M			
	9				
TOTAL SEVERITY	L 133	30	1485	322	
M		22			
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	11.0	L	17.5
10	1.5	M	11.5
19	100.0	L	16.5
1	21.7	L	42
q=	TOTAL DEDUCT VALUE		87.5
	CORRECTED DEDUCT VALUE (CDV)		50

PCI = 100 - CDV = 50

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE.

BRANCH RT 241 SECTION RS 15174-A 433
 DATE 7/28/93 SAMPLE UNIT 28
 SURVEYED BY RF, JH AREA OF SAMPLE 135 X 11 = 1485 SF

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	19	1	10	9	
QUANTITY & SEVERITY	6x56	5x56 M	11	20 L	
	11x79	1.5x70 L	11	41 M	
			22		
			22		
			14		
			22		
			11		
			5		
TOTAL SEVERITY	L 1205	105	123	20	
	M	280		41	
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
19	81.2	L	16.5
1	71	L	29
1	189	M	54.5
10	8.3	L	15
9	14	L	3
9	2.8	M	7
q= TOTAL DEDUCT VALUE			125
CORRECTED DEDUCT VALUE (CDV)			65

PCI = 100 - CDV = 35

RATING = Poor

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured in Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USACF

BRANCH Rt 241 SECTION RS15174-A 434
 DATE 7/28/93 SAMPLE UNIT 32
 SURVEYED BY RF, JH AREA OF SAMPLE 135 x 11 = 1485 SF

Distress Types						SKETCH!					
1. Alligator Cracking	*10. Long & Trans Cracking										
2. Bleeding	11. Patching & Util Cut Patching										
3. Block Cracking	12. Polished Aggregate										
*4. Bumps and Sags	*13. Potholes										
5. Corrugation	14. Railroad Crossing										
6. Depression	15. Rutting										
*7. Edge Cracking	16. Shoving										
*8. Jt Reflection Cracking	17. Slippage Cracking										
*9. Lane/Shoulder Drop Off	18. Swell										
	19. Weathering and Raveling										
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY											
TYPE	19					10	10	1	9	7	3
QUANTITY & SEVERITY	11 x 135					4	5	4 x 6	2 H	22	5 x 10
						6	11	3 x 5	6 L		
						5.5	12	18 x 8			
						4	23	2 x 3			
						18	3.5				
						11					
						18					
		24									
TOTAL SEVERITY	L	1485	101.5	54.5	189	4	22	50			
	M										
	H					2					
PCI CALCULATION											
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>53</u> RATING = <u>Fair</u>							
19	100.0	L	16.5								
10	10.5	L	17								
1	12.7	L	35								
9	2.4	L	2								
9	2.1	H	6								
7	1.5	L	3.5								
3	3.4	L	3								
q=	TOTAL DEDUCT VALUE		83								
CORRECTED DEDUCT VALUE (CDV)			47								

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH LT 241

SECTION RS15174-A

435

DATE 2/28/93

SAMPLE UNIT 36

SURVEYED BY RF, JH

AREA OF SAMPLE 135 x 11 = 1485 SF

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	19	10	1	10	9
QUANTITY & SEVERITY	11 x 135	6	4 x 9	11	49 H
		9	2 x 74	9	
		8	75 x 23	9	
		5		9.5	
		11		6	
		12		14	
		5		8.5	
		9			
TOTAL SEVERITY	L	1485	76	356.5	67
	M				
	H				49

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
19	100.0	L	16.5
10	9.6	L	16
1	24.0	L	43
9	3.3	H	14
q =	TOTAL DEDUCT VALUE		89.5
	CORRECTED DEDUCT VALUE (CDV)		51

PCI = 100 - CDV = 49

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USAC

BRANCH RT 241 SECTION 15174-A 436
 DATE 7/28/93 SAMPLE UNIT 40
 SURVEYED BY _____ AREA OF SAMPLE 135 x 11 = 1485 SF

Distress Types					SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking							
2. Bleeding	11. Patching & Util Cut Patching							
3. Block Cracking	12. Polished Aggregate							
*4. Bumps and Sags	*13. Potholes							
5. Corrugation	14. Railroad Crossing							
6. Depression	15. Rutting							
*7. Edge Cracking	16. Shoving							
*8. Jt Reflection Cracking	17. Slippage Cracking							
*9. Lane/Shoulder Drop Off	18. Swell							
	19. Weathering and Raveling							
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY								
TYPE	9				19	3	10	1
QUANTITY & SEVERITY	26H				4X53.5M	4X29	6	3X91.5
	56.5M				7X53.5L		6	
							16	
							11	
							11	
							11	
							11M	
				5				
				4+7				
TOTAL SEVERITY	L	374.5	116	77	244.5			
	M	56.5		11				
	H	26	214					
PCI CALCULATION								
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>33</u> RATING = <u>Poor</u>				
9	3.8	M	9					
9	1.8	H	9					
19	25.2	L	9					
19	14.4	H	50					
2	7.8	L	7					
10	5.2	L	11					
10	0.7	M	7					
q=	TOTAL DEDUCT VALUE		141					
CORRECTED DEDUCT VALUE (CDV)			67					

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

1 | 10.5 | L | 39

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the component Agency is USAC

BRANCH 2 + 241
DATE 7/28/93
SURVEYED BY _____

SECTION RS 15174-1A 437
SAMPLE UNIT 43
AREA OF SAMPLE 11x135 = 1485 SF

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	19	10	1	10	
QUANTITY & SEVERITY	11x135	7	2x135	3	
		11		6	
		29		17.5	
		5		3	
		11		11.5	
		14		3.5	
		7		3	
		10			
TOTAL SEVERITY	L	1485	101	270	47.5
	M				
	H				

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
19	100.0	L	16.5	PCI = 100 - CDV = <u>53</u>
10	10.0	L	17	
1	18.2	L	40	
				RATING = <u>Fair</u>
q=	TOTAL DEDUCT VALUE		73.5	
	CORRECTED DEDUCT VALUE (CDV)		47	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

cum
3.75

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency of USACF

BRANCH 241
DATE 7/28/93
SURVEYED BY RFJH

SECTION RS15174-B 438
SAMPLE UNIT 2
AREA OF SAMPLE 150 x 11 = 1650 SF

Distress Types						SKETCH:				
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shoulder Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	10					19	1	10	9	10
QUANTITY & SEVERITY	11					7 x 21.5	4 x 21.5	7.5	18.2	11.4
	11					11 x 128.5	1 x 11.5	10		10
	11						1 x 26.5	16		
	4							7		
	8.5							11		
	11							7		
	7							14		
	11			11.4						
TOTAL SEVERITY	L	85.5	1564	124	75.5	18				
	M				11	11				
	H									
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u>55</u>						
10	104	L	20							
10	113	M	11							
19	94.8	L	16							
1	7.5	L	29							
9	11	L	3							
q= TOTAL DEDUCT VALUE				$RATING =$ <u>Fair</u>						
CORRECTED DEDUCT VALUE (CDV)				<u>45</u>						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

24.1

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The procuring Agency is USAC.

BRANCH 241
DATE 7/28/93
SURVEYED BY R.F. JH

SECTION RS15174-B 439
SAMPLE UNIT 7
AREA OF SAMPLE 150 x 11 = 1650 SF

Distress Types				SKETCH:		
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	19	10	7	1	10	10
QUANTITY & SEVERITY	9.5 x 150	7	143	25 x 150	11	7
		4			10.5	10.5
		11			7	3
		11			14	10
		7			11M	
		7			23	
		7			9	
		10			7.5	
		10			7.5	
	TOTAL SEVERITY	L 1425	74	143	375	85.5
M					11	
H						
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>53</u> RATING = <u>Fair</u>		
19	86.4	L	15			
10	11.0	L	17			
10	0.7	M	2			
7	8.7	L	11			
1	22.7	L	43			
q=	TOTAL DEDUCT VALUE		93			
	CORRECTED DEDUCT VALUE (CDV)		47			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the assignment agency is USAC

BRANCH Rt 241 SECTION RS15174-B 440
 DATE 7/28/93 SAMPLE UNIT 12
 SURVEYED BY RF, JH AREA OF SAMPLE 150x11 = 1650 SF

Distress Types					SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking							
2. Bleeding	11. Patching & Util Cut Patching							
3. Block Cracking	12. Polished Aggregate							
*4. Bumps and Sags	*13. Potholes							
5. Carrugation	14. Railroad Crossing							
6. Depression	15. Rutting							
*7. Edge Cracking	16. Shoving							
*8. Jt Reflection Cracking	17. Slippage Cracking							
*9. Lane/Shoulder Drop Off	18. Swell							
	19. Weathering and Raveling							
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY								
TYPE	19				10	10	9	
QUANTITY & SEVERITY	11x150				11 M	11.5	17.5	
					3	11	18 L	
					4	16 M		
					140	11		
					11	9		
					14	10		
					10			
		11						
TOTAL SEVERITY	L	11.50	189	48.5	35.5			
	M		22	10				
	H							
PCI CALCULATION								
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>65</u> RATING = <u>Good</u>				
19	100	L	16.5					
10	14.4	L	20					
10	2.3	M	15					
9	22	L	4					
q=	TOTAL DEDUCT VALUE		56.5					
	CORRECTED DEDUCT VALUE (CDV)		35					

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procuring agency is USAC

BRANCH Rt 241
DATE 7/28/93
SURVEYED BY RF, JH

SECTION RS15174-B 441
SAMPLE UNIT 17
AREA OF SAMPLE 150 x 11 = 1650 SF

Distress Types					SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					

EXISTING DISTRESS TYPE QUANTITY & SEVERITY					
TYPE	10	19	1	10	7
QUANTITY & SEVERITY	11M	7 x 25	4 x 25	7.5	47.5
	12M	11 x 12.5	0.5 x 25.5	11M	
	11M		4 x 11.5	7	
	7		3.5 x 16.7	11	
	11			4	
	10			4	
	11M				
	7.5				
TOTAL SEVERITY	L	39.5	1550	495.25	33.5
	M	45			11
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	4.4	L	10
10	3.4	M	18
19	93.9	L	16
1	30.0	L	46
7	2.9	L	5
q= TOTAL DEDUCT VALUE			95
CORRECTED DEDUCT VALUE (CDV)			54

PCI = 100 - CDV = 46

RATING = Fair

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency is USACI

BRANCH RT 241
DATE 7/28/83
SURVEYED BY RE, TH

SECTION RS15174-B 442
SAMPLE UNIT 22
AREA OF SAMPLE 150 x 11 = 1650 SF

Distress Types				SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking						
2. Bleeding	11. Patching & Util Cut Patching						
3. Block Cracking	12. Polished Aggregate						
*4. Bumps and Sags	*13. Potholes						
5. Corrugation	14. Railroad Crossing						
6. Depression	15. Rutting						
*7. Edge Cracking	16. Shoving						
*8. Jt Reflection Cracking	17. Slippage Cracking						
*9. Lane/Shoulder Drop Off	18. Swell						
	19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	1				10	19	10
QUANTITY & SEVERITY	8 x 52.5				18	3 x 52.5	11 M
					11	11 x 7.5	
					11		
					10.5		
					11		
					17		
					11 M		
		4 M					
TOTAL SEVERITY	L 420	83.5	1492.5				
	M	15		11			
	H						
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>53</u> RATING = <u>Fair</u>			
1	25.5	L	44				
10	5.1	L	11				
10	1.0	M	12				
19	90.5	L	16				
q=	TOTAL DEDUCT VALUE		83				
	CORRECTED DEDUCT VALUE (CDV)		47				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the component agency is USAC

BRANCH RT 241
DATE 7/28/93
SURVEYED BY RF, JH

SECTION PS 15174-B 443
SAMPLE UNIT 27
AREA OF SAMPLE 150x11 = 1650 SF

Distress Types					SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking							
2. Bleeding	11. Patching & Util Cut Patching							
3. Block Cracking	12. Polished Aggregate							
*4. Bumps and Sags	*13. Potholes							
5. Corrugation	14. Railroad Crossing							
6. Depression	15. Rutting							
*7. Edge Cracking	16. Shoving							
*8. Jt Reflection Cracking	17. Slippage Cracking							
*9. Lane/Shoulder Drop Off	18. Swell							
	19. Weathering and Raveling							
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY								
TYPE	19				9	10	1	10
QUANTITY & SEVERITY	11x156				32M	4	7x6	5
					118L	11M		11
						11		
						97		
						5		
						3.5		
						7.5		
			11M					
TOTAL SEVERITY	L	1650	118	159	42	16		
	M		32	22				
	H							
PCI CALCULATION								
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>61</u> RATING = <u>Good</u>				
19	100	L	16.5					
9	32	L	9					
9	18	M	5					
10	94	L	16					
10	13	M	11					
1	210	L	19					
TOTAL DEDUCT VALUE			76.5					
CORRECTED DEDUCT VALUE (CDV)			39					

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency is USACE

BRANCH LT 241 SECTION RS 15174-15 444
 DATE 7/28/93 SAMPLE UNIT 32
 SURVEYED BY RF, JH AREA OF SAMPLE 150x11 = 1650 SF

Distress Types					SKETCH:		
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	10	19	9	3	1	10	
QUANTITY & SEVERITY	3	11x150	150 L	29x3.5	1x3	11	
	17			3.5x18 M	4x11	7	
	11				4x59	7.5	
	11 M				3x6	7 M	
	22				4x8.5		
	7 M				1.5x28		
	9						
	11						
TOTAL SEVERITY	L	84	1650	150	101.5	392	25.5
	M	18			63		1
	H						
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 48 $RATING =$ Fair			
10	16.6	L	13				
10	1.2	M	10				
19	100	L	16.5				
9	9.1	L	11				
3	6.2	L	5				
3	3.8	M	9				
1	23.8	L	43				
q= TOTAL DEDUCT VALUE			107.5				
CORRECTED DEDUCT VALUE (CDV)			52				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC.

BRANCH R-241
DATE 7/28/93
SURVEYED BY RFJH

SECTION RS 15174-B 445
SAMPLE UNIT 37
AREA OF SAMPLE 150 X 11 = 1650 SF

Distress Types				SKETCH:						
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Carrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shoulder Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	10					19	7	3	1	10
QUANTITY & SEVERITY	30					11 X 150	141.5	7.5 X 6	3 X 2	7
	11 M								3.5 X 38	7
	6								11 X 2	7.5
	6								1 X 2	11 M
	11									
	8									
	13									
TOTAL SEVERITY	5									
	L 85	1650	141.5	45	163	21.5				
	M 11					11				
	H									
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>56</u> RATING = <u>Good</u>						
10	6.5	L	13							
10	1.3	M	11							
19	100	L	16.5							
7	8.6	L	10							
3	2.7	L	2.5							
1	9.9	L	33							
q=	TOTAL DEDUCT VALUE		86							
CORRECTED DEDUCT VALUE (CDV)			44							

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the accompanying legend & USAC

BRANCH RT 241 SECTION RS15174-B 446
 DATE 7/28/93 SAMPLE UNIT 42
 SURVEYED BY REJH AREA OF SAMPLE 150 x 11 = 1650 SF

Distress Types					SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	11	12	13	14	15
QUANTITY	11M	11 x 150	150 L	2.5 x 4	1.5 x 10	11
SEVERITY	3			4 x 12	7 x 5	11M
	12					
	11					
	53					
	14					
	9					
	11M					
	16					
TOTAL SEVERITY	L 113	1650	150	58	30	11
	M 22					11
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	2.5	L	14
16	2.0	M	13
19	10.0	L	16.5
9	9.1	L	11
3	3.5	L	3
1	3.0	L	20
q= TOTAL DEDUCT VALUE			77.5
CORRECTED DEDUCT VALUE (CDV)			39

PCI = 100 - CDV = 61

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the implementing agency is USAC

BRANCH Rt 241
DATE 7/28/93
SURVEYED BY RF

SECTION RS15174-B 447
SAMPLE UNIT 47
AREA OF SAMPLE 150 x 11 = 1650 SF

Distress Types						SKETCH:				
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shoulder Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	10					3	19	9	1	10
QUANTITY & SEVERITY	10'					11 x 78	11 x 156	52	5 x 24	11
	11								3 x 2	13
	11								2 x 3	
	11									
	11									
	13									
	7									
	10									
TOTAL SEVERITY	L 97	858	1650	52	132	24				
M										
H										
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u>50</u>						
10	7.3	L	14							
3	52.0	L	21							
19	100	L	16.5							
9	3.2	L	5							
1	30	L	30							
q=	TOTAL DEDUCT VALUE		86.5	$RATING =$ <u>Fair</u>						
CORRECTED DEDUCT VALUE (CDV)		50								

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procurement agency is USACF

BRANCH Rt 241 SECTION 1515174-B 448
 DATE 7/28/93 SAMPLE UNIT 52
 SURVEYED BY R.F. JH AREA OF SAMPLE 150x11 = 1650 SF

Distress Types					SKETCH:	
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	19	10	1	3	9	
QUANTITY & SEVERITY	150x11	15	4x49	11x26	11.5L	
		11	11x8			
		7	3x18M			
		7				
		9.5				
		9				
	11M					
TOTAL SEVERITY	L	1650	58.5	28.4	28.6	11.5
	M		11	54		
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 42 $RATING = Fair$		
19	100	L	16.5			
10	3.6	L	8.5			
10	0.7	M	7			
1	17.2	L	39			
3	17.3	L	12			
9	0.7	L	2			
1	3.3	M	33.5			
q=	TOTAL DEDUCT VALUE		118.5			
CORRECTED DEDUCT VALUE (CDV)			58			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procuring agency is USAC

BRANCH Rt 241
 DATE 7/28/93
 SURVEYED BY RF, JH

SECTION RS 15174-B 449
 SAMPLE UNIT 57
 AREA OF SAMPLE 156x11 = 1650 SF

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	19	1	10	
QUANTITY & SEVERITY	50	11x150	3x4	11 M	
	7		100x1.5	11	
	11 M			11	
	11 M			5	
	5			11 M	
	7				
	11				
	11 M				
TOTAL SEVERITY	L 82 M 44 H	1650	162	27 22	
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>53</u> RATING = <u>Fair</u>	
10	6.6	L	13		
10	4.0	M	20		
19	100	L	16.5		
1	9.8	L	33		
q=	TOTAL DEDUCT VALUE		82.5		
	CORRECTED DEDUCT VALUE (CDV)		47		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor agency is USACI

BRANCH Rt 241 SECTION RS 15174 - B
 DATE 7/28/93 SAMPLE UNIT 62
 SURVEYED BY RF, JH AREA OF SAMPLE 150' x 11' = 1650 SF

Distress Types					SKETCH:		
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	10	19	7	3	1	10	
QUANTITY & SEVERITY	11	11 x 150	150	15.5 x 6	65 x 2	12	
	11 M					9	
	32					11 M	
	11					16	
	4						
	7						
	11						
	7						
TOTAL SEVERITY	L	99	1650	150	93	130	27
	M	11					11
	H						
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 55 $RATING =$ <u>Fair</u>			
10	7.6	L	14				
10	1.3	M	11				
19	100	L	16.5				
7	91	L	11				
3	5.6	L	5				
1	7.9	L	30				
q =	TOTAL DEDUCT VALUE		87.5				
	CORRECTED DEDUCT VALUE (CDV)		45				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the implementing agency is USAC

BRANCH Rt 211
DATE 9/28/93
SURVEYED BY RF, JH

SECTION RS 15174-B
SAMPLE UNIT 67
AREA OF SAMPLE 150 x 11 = 1650 SF

451

Distress Types						SKETCH:				
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shoulder Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	15					1	9	10	19	10
QUANTITY & SEVERITY	7x3					7x3	7	150	10x150	11
						1x33.5		11		11
						3.5x7.5		11		
								9		
								9		
								11		
								12		
				8						
				11						
TOTAL SEVERITY	L 21	80.75	7	232	1500	22				
M										
H										
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>59</u>						
15	1.3	L	9							
1	4.9	L	25							
9	0.4	L	2							
10	15.4	L	21							
19	90.9	L	16							
q=	TOTAL DEDUCT VALUE			73	RATING = <u>Good</u>					
CORRECTED DEDUCT VALUE (CDV)				41						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

Chip sealed
NIB
Cove
SB lane
eyed.
by seal

5.1/0
5.1/0
5.1/0

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. the proponent agency is USACE

BRANCH R15309-A
 DATE 5/18/92
 SURVEYED BY LM

SECTION SB R+3 452
 SAMPLE UNIT 7
 AREA OF SAMPLE 164' x 12' = 1968 sq

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shoulder Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10		1			
QUANTITY & SEVERITY	8'	L	10	L		
	8.5'	L	11	L		
	8.5'	L	21	L		
	6'	L	9	L		
	7'	L	66	L		
	5'	L	12	L		
TOTAL SEVERITY	L	43	129			
	M					
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	22	L	5
1	660	L	28
q=	TOTAL DEDUCT VALUE		33
	CORRECTED DEDUCT VALUE (CDV)		33

PCI = 100 - CDV = 67

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH R15309-A
 DATE 5/18/93
 SURVEYED BY JL

SECTION SB Rt 3 453
 SAMPLE UNIT 10
 AREA OF SAMPLE 164 x 12 = 1968 sq

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shldr Drop Off	18. Swell				
	19. Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	10	11	
QUANTITY & SEVERITY	9' L	12 L	7.5' L	24 L	
	9' L	9 L			
	1' L	9 L			
	8' L				
	8' L				
	3' L				
	8.5 L				
	8.5 L				
TOTAL SEVERITY	L 7.5	111		24	
M					
H					
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>72</u> RATING = <u>very Good</u>	
10	3.6	L	8		
1	5.6	L	27		
11	1.2	L	3		
q=	TOTAL DEDUCT VALUE		38		
CORRECTED DEDUCT VALUE (CDV)			28		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE

BRANCH Rt 3 15309-A
 DATE 5/18/93
 SURVEYED BY JOL

SECTION SB RT 3 454
 SAMPLE UNIT 13
 AREA OF SAMPLE 164 x 12 = 1968 sq

Distress Types				SKETCH:						
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Carrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shldr Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	→ 10					1				
QUANTITY & SEVERITY	91					L	12	L		
	91					L	9	L		
	31					L	9	L		
	91					L	164	L		
	91					L	12	L		
	2.5					L	12	L		
							12	L		
			9	L						
TOTAL SEVERITY	L	41.5		239						
M										
H										
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>60</u> RATING = <u>Good</u>						
10	.21	L	.5							
1	1.21	L	35							
q=	TOTAL DEDUCT VALUE		40							
	CORRECTED DEDUCT VALUE (CDV)		40							

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

For use of this form, see TM 5-623. The proponent agency is USACE.

SECTION SB R+3 455
SAMPLE UNIT 16
AREA OF SAMPLE 164' x 12' = 1968 sq

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACI

BRANCH Rt 3 15309-A
 DATE 5/13/93
 SURVEYED BY John

SECTION SB Rt 3 456
 SAMPLE UNIT 19
 AREA OF SAMPLE 164' x 12' = 1968 sq ft

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shldr Drop Off	18. Swell				
	(19) Weathering and Raveling				
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	→ 10	1			
QUANTITY & SEVERITY	12' L	3 L			
	7' L	12 L			
	122' L	12 L			
	9' L	4 L			
	9' L				
	8' L				
TOTAL SEVERITY	L	16	31		
	M				
	H				
PCI CALCULATION					
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>79</u>	
10	85	L	14		
1	166	L	14		
q=	TOTAL DEDUCT VALUE		28	RATING = <u>very good</u>	
CORRECTED DEDUCT VALUE (CDV)			21		

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procuring agency is USACF

BRANCH R-3 15309-A SECTION SB R+3 457
 DATE 5/18/93 SAMPLE UNIT 22
 SURVEYED BY 106 AREA OF SAMPLE 164' x 12' = 1968 sq

Distress Types				SKETCH:
<u>1</u> Alligator Cracking 2 Bleeding 3 Block Cracking *4 Bumps and Sags 5 Corrugation 6 Depression *7 Edge Cracking *8 Jt Reflection Cracking *9 Lane/Shldr Drop Off	*10 Long & Trans Cracking 11 Patching & Util Cut Patching 12 Polished Aggregate *13 Potholes 14 Railroad Crossing 15 Rutting 16 Shoving 17 Slippage Cracking 18 Swell (19) Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	1	10	10	
QUANTITY & SEVERITY	27 L	12' L	11.5' L	
		3' L	3' L	
		12' L	12' L	
		15' L		
		3.5' L		
		9.5' L		
		21' L		
		8' L		
		2.5' L		
	TOTAL SEVERITY	L 27	118	
M				
H				
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>82</u> RATING = <u>very good</u>
1	14	L	13	
10	60	L	12	
q=	TOTAL DEDUCT VALUE		25	
CORRECTED DEDUCT VALUE (CDV)			18	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The procuring agency is USACF

BRANCH 123 15309-A
 DATE 5/13/93
 SURVEYED BY Jel

SECTION S3 R+3 458
 SAMPLE UNIT 25
 AREA OF SAMPLE 16'4" x 12' = 196.8 sq

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	QUANTITY	SEVERITY				
4	L	5'	L			
4.5	L	5'	L			
7	L	9'	L			
5.5	L	8'	L			
3	L	8'	L			
2	L	12'	L			
8	L	8.5'	L			
42	L	9'	L			
TOTAL SEVERITY	L	125.5	64.5			
	M					
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	64	L	28
10	33	L	8
q=	TOTAL DEDUCT VALUE		36
	CORRECTED DEDUCT VALUE (CDV)		28

PCI = 100 - CDV = 72

RATING = Very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH 23 15309-A SECTION 5B Rt 3 459
 DATE 5/18/93 SAMPLE UNIT 28
 SURVEYED BY 104 AREA OF SAMPLE 164' x 12' = 1968 sq

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	10	1	10	
QUANTITY & SEVERITY	3 L	6.25 L	10' L	
	9.5' L			
	12' L			
	8' L			
	9' L			
	6' L			
	9.5 L			
	5' L			
	4' L			
	TOTAL SEVERITY	L 7.6	1.25	
M				
H				
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u><u>86</u></u> RATING = <u><u>Excellent</u></u>
10	39	L	9	
1	.03	L	5	
q=	TOTAL DEDUCT VALUE		14	
	CORRECTED DEDUCT VALUE (CDV)		14	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 3 15369-A
 DATE 5/18/93
 SURVEYED BY John

SECTION SB R+3 460
 SAMPLE UNIT 31
 AREA OF SAMPLE 15.4 x 2 = 196.8 sq

Distress Types					SKETCH:				
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shoulder Drop Off	18. Swell								
	(19. Weathering and Raveling)								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	10					9	1	10	
QUANTITY & SEVERITY	12' L					5"	7 L	10' L	
	7' L							6.5' L	
	9' L								
	9' L								
	12' L								
	9' L								
	9' L								
	9' L								
TOTAL SEVERITY	L 102		7						
M									
H									
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>88</u>					
10	5.2	L	11						
1	0.4	L	6						
q=	TOTAL DEDUCT VALUE		17	RATING = <u>Excellent</u>					
	CORRECTED DEDUCT VALUE (CDV)		12						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH 213 15309-A SECTION 5B R+3 461
 DATE 5/18/83 SAMPLE UNIT 34
 SURVEYED BY 184 AREA OF SAMPLE 164' X 12' = 1968 sq

Distress Types				SKETCH:
☒ 1. Alligator Cracking ☐ 2. Bleeding ☐ 3. Block Cracking ☒ 4. Bumps and Sags ☐ 5. Corrugation ☐ 6. Depression ☒ 7. Edge Cracking ☒ 8. Jt Reflection Cracking ☒ 9. Lane/Shldr Drop Off	☒ 10. Long & Trans Cracking ☐ 11. Patching & Util Cut Patching ☐ 12. Polished Aggregate ☒ 13. Potholes ☐ 14. Railroad Crossing ☐ 15. Rutting ☐ 16. Shoving ☐ 17. Slippage Cracking ☐ 18. Swell ☒ 19. Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	10	12		
QUANTITY & SEVERITY	10' L	2.5' L		
	12' L	6' L		
	12' L	4' L		
	2.5' L	5' L		
	6' L			
	2.5' L			
	12' L			
	3' L			
3.5' L				
TOTAL SEVERITY	L	M	H	
	81			
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 91 $RATING = \text{Excellent}$
10	4.1	L	9	
q= TOTAL DEDUCT VALUE			9	
CORRECTED DEDUCT VALUE (CDV)			9	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH R-3
 DATE 5/18/93
 SURVEYED BY John

SECTION SB 15309-A
 SAMPLE UNIT 37
 AREA OF SAMPLE 164' x 12' = 1968 sq

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shldr Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	10	1		
QUANTITY & SEVERITY	9' L	12' L	1.5 L		
	12' L	8.5' L			
	12' L	10.5' L			
	9' L				
	12' L				
	1' L				
	12' L				
	12' L				
TOTAL SEVERITY	L	207	1.5		
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	10.5	L	21
1	0.1	L	4
q=	TOTAL DEDUCT VALUE		25
	CORRECTED DEDUCT VALUE (CDV)		25

PCI = 100 - CDV = 75

RATING = very good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH 212 SECTION SB 15039A
 DATE 5/18/93 SAMPLE UNIT 40
 SURVEYED BY Joh AREA OF SAMPLE 164' x 12' = 1968 sq ft

Distress Types				SKETCH:
① Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Slidr Drop Off	*10 Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell ①9 Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	11		
QUANTITY & SEVERITY {	9' L	1.5 L	144 L		
	12' L	2 M			
	9.5' L				
	9' L				
	2.75' L				
	5' L				
	12' L				
	8' L				
TOTAL SEVERITY L M H	79.25	1.5	144		
		2			

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	40	L	9
1	0.1	L	4
1	0.1	M	7
11	73	L	13
q= TOTAL DEDUCT VALUE			33
CORRECTED DEDUCT VALUE (CDV)			19

PCI = 100 - CDV = 81

RATING = very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH R 15309 - A
 DATE 5/18/93
 SURVEYED BY RF

SECTION RT 3 464
 SAMPLE UNIT 7 NB
 AREA OF SAMPLE 164 x 12 = 1768 sq

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	10	10			
QUANTITY & SEVERITY	75' x 1.5'	12'	19'			
	3 x 1.5'	8.5'	12'			
	3 x 1.5'	1'	10.5'			
	1 x 2'	8.5'	12'			
		9'	6'			
		3.5'	5'			
		9'				
		5'				
		6'				
TOTAL SEVERITY	L 123.5	123				
	M					
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
1	6.3	L	27	PCI = 100 - CDV = <u>61</u>
10	6.3	L	13	
				RATING = <u>Good</u>
q=	TOTAL DEDUCT VALUE		40	
	CORRECTED DEDUCT VALUE (CDV)		39	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH RT 3 SECTION 215309-A 465
 DATE 5/18/93 SAMPLE UNIT 10 NB
 SURVEYED BY RF AREA OF SAMPLE 164 x 12 = 1968 ft²

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY				
TYPE	10	1	10	
QUANTITY & SEVERITY	8.5'	1 x 3'	11'	
	12'	1 x 2'	10'	
	12'	1.5' x 2.5'	11'	
	8'	1.5 x 3	9'	
	8'	14' x 1'		
	8'	2' x 3'		
	4'	2' x 1.5'		
	8'	9' x 1'		
TOTAL SEVERITY	L 117.5	15.25		
	M			
	H			
PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 79 $RATING =$ VERY GOOD
10	.60	L	12	
1	7.3	L	17	
q=	TOTAL DEDUCT VALUE		29	
	CORRECTED DEDUCT VALUE (CDV)		21	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USACI

BRANCH R-3
 DATE 5/18/93
 SURVEYED BY RF

SECTION R15309-A 466
 SAMPLE UNIT 13 NB
 AREA OF SAMPLE 10' x 12' = 1968 sq ft

Distress Types				SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	1					10	10		
QUANTITY & SEVERITY	15.5' x 1'					9'	7'		
	3' x 1.5'					8'	11'		
	3' x 1'					9'	6'		
	2' x 1'					5'	3'		
	3' x 1.5'					9'	10'		
						18'	12'		
						12'			
		8'							
TOTAL SEVERITY	L	70.5	12.9						
	M								
	H								
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>80</u> RATING = <u>VERY GOOD</u>					
1	1.5	L	14						
10	7.1	L	13						
q =	TOTAL DEDUCT VALUE		27						
CORRECTED DEDUCT VALUE (CDV)			20						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH 123 SECTION 15309-A 467
 DATE 5/18/93 SAMPLE UNIT 16 NB
 SURVEYED BY RF AREA OF SAMPLE 164 x 12 = 1968 sq

Distress Types				SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1	10'			
QUANTITY & SEVERITY	15'	1' x 3'	5'			
	9'	1' x 2'	12'			
	0.5'	1' x 4'	8'			
	9'	12' x 1.5'	8.5'			
	11'	3' x 1'				
	9'	1' x 3'				
	2'	1' x 2'				
	1'	2' x 1'				
	10'					
	TOTAL SEVERITY	L 109	02			
M						
H						

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	5.5	L	11
1	3.2	L	21
q=	TOTAL DEDUCT VALUE		32
CORRECTED DEDUCT VALUE (CDV)		23	

PCI = 100 - CDV = 77

RATING = Very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACE

BRANCH RT 3
DATE 5/18/93
SURVEYED BY RF

SECTION R15309-A
SAMPLE UNIT 19 NB 468
AREA OF SAMPLE 164 x 12 = 1968 sq ft

Distress Types				SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking			
2. Bleeding	11. Patching & Util Cut Patching			
3. Block Cracking	12. Polished Aggregate			
*4. Bumps and Sags	*13. Potholes			
5. Corrugation	14. Railroad Crossing			
6. Depression	15. Rutting			
*7. Edge Cracking	16. Shoving			
*8. Jt Reflection Cracking	17. Slippage Cracking			
*9. Lane/Shoulder Drop Off	18. Swell			
	19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	QUANTITY & SEVERITY	1	10	11	12
QUANTITY & SEVERITY {	5' x 1'	8.5'			
	1' x 2'	8'			
	2.5' x 1'	10'			
	2.5' x 1'	3'			
	3' x 1.5'	12'			
	2' x 1'	12'			
		45'			
		9'			
		9'			
TOTAL SEVERITY	L	4.5	114.5		
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	3.3	L	21
10	35.9	L	12
q=	TOTAL DEDUCT VALUE		33
	CORRECTED DEDUCT VALUE (CDV)		24

PCI = 100 - CDV = 76

RATING = Very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH R-3
DATE 5/18/93
SURVEYED BY CR

SECTION 1215309-A 469
SAMPLE UNIT 22 NB
AREA OF SAMPLE 1604' x 12' - 19680

Distress Types				SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shoulder Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	1					10	10		
QUANTITY & SEVERITY	23.5' x 11' L					8.5'	5.5'		
	2' x 11' L					5.5'	6'		
	3' x 1.5'					4'	12'		
	3' x 1'					12'			
	11.5' x 1					8.5'			
	1 x 2					7.5'			
	2.5' x 1					7.5'			
		12'							
TOTAL SEVERITY	L 50	99							
	M								
	H								
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>79</u> RATING = <u>VERY GOOD</u>					
1	25	L	18						
10	50	L	11						
q=	TOTAL DEDUCT VALUE		29						
CORRECTED DEDUCT VALUE (CDV)			21						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USAC

BRANCH
DATE 5/18/93
SURVEYED BY RF

SECTION C-101-A
SAMPLE UNIT 25 NB470
AREA OF SAMPLE 164x12 = 1968 sq

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1				
QUANTITY & SEVERITY	3'	2' x 1.5'				
	8.5'	2' x 1.5'				
	8'	10 SF M				
	3.5'	2 SF L				
	12'	1' x 1.5'				
	9'	1' x 1'				
	2'	3' x 1'				
	4'	2' x 1'				
TOTAL SEVERITY	L	2.0	17.5			
	M		1.0			
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	25	L	6
1	.09	L	10
1	.05	M	15
q=	TOTAL DEDUCT VALUE		31
	CORRECTED DEDUCT VALUE (CDV)		18

PCI = 100 - CDV = 82

RATING = VERY GOOD

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

Begin Bridge at station marker 86+89

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH C-3
DATE 5/18/93
SURVEYED BY LF

SECTION 15309-A 471
SAMPLE UNIT 28
AREA OF SAMPLE 164 x 12 = 1968 2/

Distress Types				SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	10					1	10		
QUANTITY & SEVERITY	2'					8'	50'		
	3'					2 3/4	4'		
	6'					4 5/8	2.5'		
	5'					4' x 1.5'	8.5'		
	8'						7'		
	4'								
	1'								
	8'								
	8'								
	TOTAL SEVERITY	L	117	20					
M									
H									
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>83</u> RATING = <u>very good</u>					
10	60	L	12						
1	10	L	11						
q=	TOTAL DEDUCT VALUE		23						
CORRECTED DEDUCT VALUE (CDV)			17						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

30
29 23'3"
164 191
200

mile marker 47
is 23'3" from section 30
start.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACE

BRANCH L-3
 DATE 5/18/93
 SURVEYED BY RF

SECTION R15309-A 472
 SAMPLE UNIT 31 NB
 AREA OF SAMPLE 1.6' x 12' = 19.68 sq ft

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Carrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shldr Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	10		
QUANTITY & SEVERITY	10'	1.5 SF	9'		
	9'	4 SF	8.5'		
	10'	109 x 1.5'			
	5'	2 SF			
	10'	2 SF			
	6'	3 SF			
	9'	10 SF			
	12'	10 SF			
TOTAL SEVERITY	L	22.5	10%		
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	4.7	L	11
1	10.0	L	33
q=	TOTAL DEDUCT VALUE		44
	CORRECTED DEDUCT VALUE (CDV)		32

PCI = 100 - CDV =
68

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

overlay thickness 3/4"

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH R-5 SECTION R15309-A 473
 DATE 5/18/93 SAMPLE UNIT 34 NB
 SURVEYED BY NR AREA OF SAMPLE 3.00 = 9682

Distress Types				SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking						
2. Bleeding	11. Patching & Util Cut Patching						
3. Block Cracking	12. Polished Aggregate						
*4. Bumps and Sags	*13. Potholes						
5. Corrugation	14. Railroad Crossing						
6. Depression	15. Rutting						
*7. Edge Cracking	16. Shoving						
*8. Jt Reflection Cracking	17. Slippage Cracking						
*9. Lane/Shldr Drop Off	18. Swell						
	19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	1			10			
QUANTITY & SEVERITY	109' x 1.5'			9'			
	4'			2.5'			
				1'			
				9'			
				8'			
				4'			
				12'			
		2.5'					
TOTAL SEVERITY	L	250	54				
	M						
	H						
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u>65</u> $RATING =$ <u>6000</u> 			
1	12.7	L	35				
10	2.7	L	6				
q=	TOTAL DEDUCT VALUE		41				
	CORRECTED DEDUCT VALUE (CDV)		20 35				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the implementing agency is USACF

BRANCH R-3 SECTION C15709-A 474
 DATE 5/18/93 SAMPLE UNIT 37 HB
 SURVEYED BY RF AREA OF SAMPLE 2000 = 1968 d

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shldr Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	10		
QUANTITY & SEVERITY	8.5'	118' x 15'	10'		
	12'	25'	5'		
	12'	25'	12'		
	10'	45'	9.5'		
	12'	65'			
	12'	125'			
	9'				
	11'				
TOTAL SEVERITY	L 147	203			
M					
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	7.5	L	14
1	10.3	L	36
q=	TOTAL DEDUCT VALUE		50
	CORRECTED DEDUCT VALUE (CDV)		37

PCI = 100 - CDV =
63

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH R13 SECTION 15359-A 475
 DATE 5/18/93 SAMPLE UNIT 40
 SURVEYED BY RF AREA OF SAMPLE 164' x 12' = 1968 sq

NB

Distress Types					SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	10	11	
QUANTITY & SEVERITY	2'	6	9.5'	12.5' x 12'	
	11'	6	11'		
	5'	105'	10'		
	5'	12'	12'		
	12'	2'			
	12'				
	10'				
	6'				
TOTAL SEVERITY	L	111.5	131	24.5	
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	5.7	L	12
1	6.7	L	28
11	13	L	3
q=	TOTAL DEDUCT VALUE		43
	CORRECTED DEDUCT VALUE (CDV)		32

PCI = 100 - CDV = 68

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACF

BRANCH RT 3
DATE 5/18/93
SURVEYED BY RF

SECTION 215309.6
SAMPLE UNIT 2
AREA OF SAMPLE 164' x 12' = 1968

Distress Types					SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shldr Drop Off	18. Swell					
	19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1	10	19		
QUANTITY & SEVERITY	3 L	3 L	2.5' L	85' L		
	12' L	6 L	4.5' L	19 L		
	6' L	70 L				
	12' L					
	9' L					
	9.5' L					
	1' L					
	8' L					
TOTAL SEVERITY	L	70.5	79	27		
	M					
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>82</u> RATING = <u>Very Good</u>		
10	3.16	L	8			
1	20	L	16			
19	14	L	2			
q=	TOTAL DEDUCT VALUE		26			
CORRECTED DEDUCT VALUE (CDV)			18			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACf

BRANCH RT 3
DATE 5/18/93
SURVEYED BY RF

SECTION R 15309-E 477
SAMPLE UNIT 5
AREA OF SAMPLE 164' x 12' = 1968

Distress Types					SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1	19	10		
QUANTITY & SEVERITY	12' L	3 L		4' L		
	5' L	2 L		3.5' L		
	5.5' L	3 L		3' L		
	1' L	4 L				
	30' L					
	5' L					
	12' L					
	1' L					
TOTAL SEVERITY	L	92	12			
	M					
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>86</u>		
10	47	L	11			
1	96	L	8			
q =	TOTAL DEDUCT VALUE		19	RATING = <u>Excellent</u>		
	CORRECTED DEDUCT VALUE (CDV)		14			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH RT3
DATE 5/18/93
SURVEYED BY RF

SECTION R15309-E 478
SAMPLE UNIT 8
AREA OF SAMPLE 164 x 12 = 1968

Distress Types				SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking			
2. Bleeding	11. Patching & Util Cut Patching			
3. Block Cracking	12. Polished Aggregate			
*4. Bumps and Sags	*13. Potholes			
5. Corrugation	14. Railroad Crossing			
6. Depression	15. Rutting			
*7. Edge Cracking	16. Shoving			
*8. Jt Reflection Cracking	17. Slippage Cracking			
*9. Lane/Shldr Drop Off	18. Swell			
	19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	10		
QUANTITY & SEVERITY	164' x 1.5' L	12'			
	8' x 2' L	10'			
	25F L	12'			
	20SF	4.5F			
	20SF				
	24SF				
	2 SF				
	2 SC				
9.5'					
TOTAL SEVERITY	L 27	102			
	M				
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	4.9	L	11
1	9.8	L	33
q=	TOTAL DEDUCT VALUE		44
	CORRECTED DEDUCT VALUE (CDV)		33

PCI = 100 - CDV = 67

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH RT 3
DATE 5/18/93
SURVEYED BY RF

SECTION R 15309-E
SAMPLE UNIT 14
AREA OF SAMPLE 164' x 12' = 1968

479

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	10				
QUANTITY & SEVERITY	160' L	7'				
		1'				
		9.5'				
		8'				
		12'				
		10'				
TOTAL SEVERITY	L	43.5				
	M					
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	8.1	L	30
10	2.2	L	5
q=	TOTAL DEDUCT VALUE		35
	CORRECTED DEDUCT VALUE (CDV)		35

PCI = 100 - CDV = 65

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 3 SECTION R 15309-E 480
 DATE 5/18/93 SAMPLE UNIT 11
 SURVEYED BY RF AREA OF SAMPLE 164 x 12 = 1968

Distress Types				SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking			
2. Bleeding	11. Patching & Util Cut Patching			
3. Block Cracking	12. Polished Aggregate			
*4. Bumps and Sags	*13. Potholes			
5. Corrugation	14. Railroad Crossing			
6. Depression	15. Rutting			
*7. Edge Cracking	16. Shoving			
*8. Jt Reflection Cracking	17. Slippage Cracking			
*9. Lane/Shldr Drop Off	18. Swell			
	19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	19		
QUANTITY & SEVERITY	9'	2 L	64 SF L		
	10'	2 L			
	18'	2 L			
	10'				
	12'				
	11'				
	3'				
	9'				
	12				
	TOTAL SEVERITY	L 24	6	64	
M					
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	4.8	L	11
1	2.3	L	5
19	3.3	L	3
q=	TOTAL DEDUCT VALUE		19
	CORRECTED DEDUCT VALUE (CDV)		19

PCI = 100 - CDV =
81

RATING = very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 3
DATE 5/18/93
SURVEYED BY RF

SECTION R15309-E
SAMPLE UNIT 17
AREA OF SAMPLE 164 x 12 = 1968

481

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1				
QUANTITY & SEVERITY	9.5' L	3 L				
	12'					
	7.5'					
	9'					
	12'					
	8.5'					
	12'					
	12'					
TOTAL SEVERITY	L 24.5	3				
	M					
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	48	L	11
1	02	L	4
q=	TOTAL DEDUCT VALUE		15
	CORRECTED DEDUCT VALUE (CDV)		15

PCI = 100 - CDV = 85

RATING = Very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACF

BRANCH Rt 3
DATE 5/18/93
SURVEYED BY RF

SECTION R 15309-E 482
SAMPLE UNIT 20
AREA OF SAMPLE 164 x 12 = 1968

Distress Types				SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking						
2. Bleeding	11. Patching & Util Cut Patching						
3. Block Cracking	12. Polished Aggregate						
*4. Bumps and Sags	*13. Potholes						
5. Corrugation	14. Railroad Crossing						
6. Depression	15. Rutting						
*7. Edge Cracking	16. Shaving						
*8. Jt Reflection Cracking	17. Slippage Cracking						
*9. Lane/Shldr Drop Off	18. Swell						
	19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE →	1			10			
QUANTITY & SEVERITY	12' L			12' L			
	10 L			12' L			
	4 L			1 M			
				12 L			
				12 L			
				12 L			
				12 L			
TOTAL SEVERITY	L	24	72				
	M		1				
	H						
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u>85</u> RATING = <u>Very Good</u> 			
1	12	L	12				
10	3.7	L	9				
10	0.1	M	0				
q=	TOTAL DEDUCT VALUE		21				
	CORRECTED DEDUCT VALUE (CDV)		15				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 3 SECTION R 15309 - E 483
 DATE 5/18/93 SAMPLE UNIT 26
 SURVEYED BY RF AREA OF SAMPLE 164 x 12 = 1968

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Carrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1				
QUANTITY & SEVERITY	12'	12 L				
	5.5'	164 L				
	7.5'	8 L				
	6'	10 L				
	9'					
	9'					
	9'					
	9'					
	9'					
	9'					
TOTAL SEVERITY	L 76	194				
	M					
	H					

PCI CALCULATION

DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>67</u> RATING = <u>Good</u>
10	39	L	9	
1	99	L	33	
q=	TOTAL DEDUCT VALUE		42	
	CORRECTED DEDUCT VALUE (CDV)		31 33	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

26
29
32
35
38
41

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACI

BRANCH Rt 3 SECTION R 15309-6 484
 DATE 5/18/93 SAMPLE UNIT 32
 SURVEYED BY R.C. AREA OF SAMPLE 164 x 12 = 1968

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1	10			
QUANTITY & SEVERITY	2'	164 L	10 L			
	12'	4 L	10 L			
	4.5'	4 L	6 L			
	9'	2 L	21			
	9'					
	12'					
	3.5'					
	12'					
TOTAL SEVERITY	L	102	174			
	M					
	H					

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	5.2	L	11	$PCI = 100 - CDV =$ <u>69</u>
1	88	L	31	
q=	TOTAL DEDUCT VALUE		42	$RATING =$ <u>GOOD</u>
	CORRECTED DEDUCT VALUE (CDV)		31	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USAC

BRANCH RT 3
DATE 5/18/93
SURVEYED BY RF

SECTION R15309-E
SAMPLE UNIT 23
AREA OF SAMPLE 164 x 12 = 1968

485

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1	10	11		
QUANTITY & SEVERITY	12' L	4 L	12	9.5' x 12'		
	1 L	2 L	2'			
	12' L	6 L	1.5'			
	12'		6.5'			
	12'					
	12'					
	1'					
	12'					
TOTAL SEVERITY	L 108	12		114		
M						
H						

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	5.5	L	11	$PCI = 100 - CDV =$ <u>83</u>
1	0.6	L	7	
11	5.8	L	11	
q=	TOTAL DEDUCT VALUE		29	$RATING =$ <u>Very Good</u>
	CORRECTED DEDUCT VALUE (CDV)		17	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

5/8" overlay — Is this (over shoulder in potholes) ? actual 3/8

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USAC

BRANCH Rt 3
DATE 5/18/93
SURVEYED BY RF

SECTION R 15309-E 486
SAMPLE UNIT 29
AREA OF SAMPLE 164 x 12 = 1968

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Carrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shldr Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	10	10			
QUANTITY & SEVERITY	20 L	12'	12'			
	6 L	4.5'				
		7'				
		6.5'				
		8.5'				
		12'				
		12'				
		7'				
TOTAL SEVERITY	L 7.6	20.5				
	M					
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	13	L	13
10	46	L	10
q=	TOTAL DEDUCT VALUE		23
	CORRECTED DEDUCT VALUE (CDV)		17

PCI = 100 - CDV = 83

RATING = very Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

overlay depth 1/2"

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACF

BRANCH Rt 3 SECTION R 15309-E 487
 DATE 5/18/93 SAMPLE UNIT 35
 SURVEYED BY RF AREA OF SAMPLE 164 x 12 = 1968

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
QUANTITY & SEVERITY	TYPE	10	1	10		
	12'	6	2	9		
	9'	16.4		12'		
	9'	18				
	6'	2	2			
	6'					
	8.5'					
	9.5'					
	9.5'					
	2'					
TOTAL SEVERITY	L	10.5	10.0			
	M					
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	47	L	10.5
L	97	L	32
q =	TOTAL DEDUCT VALUE		42.5
CORRECTED DEDUCT VALUE (CDV)			31.32

PCI = 100 - CDV = 68

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the procuring agency is USACF

BRANCH Rt 3 SECTION R15309-E 488
 DATE 5/18/93 SAMPLE UNIT 38
 SURVEYED BY RC AREA OF SAMPLE 164 x 12 = 1968

Distress Types				SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking						
2. Bleeding	11. Patching & Util Cut Patching						
3. Block Cracking	12. Polished Aggregate						
*4. Bumps and Sags	*13. Potholes						
5. Corrugation	14. Railroad Crossing						
6. Depression	15. Rutting						
*7. Edge Cracking	16. Shoving						
*8. Jt Reflection Cracking	17. Slippage Cracking						
*9. Lane/Shldr Drop Off	18. Swell						
	19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	10				1	10	
QUANTITY & SEVERITY	7				164' x 1.5'	12'	
	8'				12 x 1'	9'	
	8'						
	9'						
	9'						
	9'						
	9'						
	12'						
TOTAL SEVERITY	L	101	258				
M							
H							
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 64 $RATING =$ <u>Good</u>			
10	5.1	L	11				
1	13.1	L	26				
q= TOTAL DEDUCT VALUE			47				
CORRECTED DEDUCT VALUE (CDV)			3530				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USAC

BRANCH Rt 234 SECTION RS 15617-A 489
 DATE _____ SAMPLE UNIT _____
 SURVEYED BY RF, GO AREA OF SAMPLE 770 x 111 = 2100 SF

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Carrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Slidr Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	1	12	13	14	15
QUANTITY & SEVERITY	10.5	1 x 2	10.5	28 L	143 L	25.1 M
	7	1 x 2	12			175 x 1 L
	10.5	1 x 4	12			9 x 200 L
	25					
	10.5					
	4					
	10.5					
	39					
TOTAL SEVERITY	L	127.5	10.5	36.5	28	143 L
	M					75
	H					25

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	7.8	L	14.5
1	0.5	L	0.5
9	13	L	3
7	68	L	9
19	94.1	L	16
19	12	M	9
q=	TOTAL DEDUCT VALUE		58
	CORRECTED DEDUCT VALUE (CDV)		28

PCI = 100 - CDV =
72

Very.
 RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

Section shortened
 due to ship Seal
 + Bridge construction

1300
 7 131
 1431

Av
 = 9.4

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor agency is USAC

BRANCH Rt 234
DATE _____
SURVEYED BY _____

SECTION RS 15617-A
SAMPLE UNIT 4
AREA OF SAMPLE 200 x 10.5 = 2100 SF

490

Distress Types						SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	9	12	14	7	1
QUANTITY & SEVERITY	76	34A	115	191 x 2 L	2 H	
	10.5	7 L	21	21 x 2 M	60 H	
	70.5	9 L	9.5	188 x 3 L	37 M	
	27	12 M		2 x 12 M	42 M	
	10.5	25 L		5 x 200 L	62 L	
	5	30 M				
	78	9 H				
	10.5	12 L				
TOTAL SEVERITY	L 152	51	42	1946	62	142.5
	M	76		54	75	
	H	9			63	

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	9.2	L	16
9	2.4	L	4
9	3.6	M	8.5
9	0.4	H	6
19	92.7	L	16
19	2.6	M	10.5
7	3.0	L	5
q= TOTAL DEDUCT VALUE			133
CORRECTED DEDUCT VALUE (CDV)			64

PCI = 100 - CDV =

36

RATING = Poor

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

7	3.6	M	15.5
7	3.0	H	23
1	4.8	L	28.5

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency is USAC

BRANCH RT 234
DATE _____
SURVEYED BY RF

SECTION RS 15619-A 491
SAMPLE UNIT 8
AREA OF SAMPLE 200 X 10.5 = 2100 SF

Distress Types				SKETCH:						
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shoulder Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	10					9	12	1	7	19
QUANTITY & SEVERITY	10.5					18M	14.5	1 x 2 L	32 L	23 x 2.5M
	16					27L	15.5			177 x 2.5L
	12					40L	77			6 x 200L
	10.5						10.5			
	19						2			
	10.5									
	30									
	10.5									
51.5										
TOTAL SEVERITY	L	175.5	77	64.5	3	82	1642.5			
	M		18				57.5			
	H									
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>69</u> RATING = <u>GOOD</u>						
10	11.4	L	18							
9	3.7	L	5.5							
9	0.9	M	4							
1	0.1	L	4							
7	3.9	L	6							
19	78.2	L	15							
19	2.7	M	10.5							
q=	TOTAL DEDUCT VALUE		63							
CORRECTED DEDUCT VALUE (CDV)			31							

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the inspection agency is USACI

BRANCH RT 234 SECTION RS 15617-A 492
 DATE _____ SAMPLE UNIT 12
 SURVEYED BY RF AREA OF SAMPLE 700' x 30' = 2100 SF

Distress Types					SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Carrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. JT Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	9	10		19	7
QUANTITY & SEVERITY	10.5	18.5	10.5		24.25	10.7
	7		21		1.5x100	
	4		10.5			
	17		5			
	2		4			
	18		112.5			
	10.5					
	7					
TOTAL SEVERITY	L	84	18	93.5	1300	
	M					
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 78 $RATING =$ Very Good		
10	8.5	L	15			
9	.09	L	2			
19	61.9	L	13.5			
7	5.1	L	7			
q=	TOTAL DEDUCT VALUE		37.5			
CORRECTED DEDUCT VALUE (CDV)			22			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USAC

BRANCH Rt 234 SECTION RS 15617-A 493
 DATE _____ SAMPLE UNIT 16
 SURVEYED BY _____ AREA OF SAMPLE 200 X 10.5 = 2100 SF

Distress Types				SKETCH:	
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	0	1	9	10	7	19
QUANTITY & SEVERITY	4	2 x 1.5 L	10 L	10.5	200 L	200 x 5.5
	13.5	10 x 1.5 L		10.5		
	10.5	17 x 2 L		15		
	14.5	11 x 3 L		11		
	10.5	9 x 2 L		10.5		
	10.5			21		
	10.5			21		
	10.5					
	15					
TOTAL SEVERITY	L	107.5	116.5	10	99.5	200
M						
H						

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	99	L	16.5
1	5.6	L	26.5
9	0.5	L	2
7	9.5	L	11
19	81.0	L	15
q=	TOTAL DEDUCT VALUE		71
	CORRECTED DEDUCT VALUE (CDV)		40

PCI = 100 - CDV = 60

RATING = GOOD

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency is USAC

BRANCH Rt 234
DATE _____
SURVEYED BY _____

SECTION RS 15617-A 494
SAMPLE UNIT 20
AREA OF SAMPLE 700 x 105 = 21005 =

Distress Types		SKETCH:
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shldr Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	1	10	7	9
QUANTITY & SEVERITY	10.5	4.5	10.5	37 M	11 H
	12.5		10.5	10 H	15 L
	12.5		11	23 L	18 L
	2		20	20 H	112 M
	11.5			2 L	9 L
	15.5			19 H	
	10.5			44 H	
	10.5				
	5				
TOTAL SEVERITY	L 91.5	6.75	151	32	41
	M			37	112
	H			103	11

PCI CALCULATION				PCI = 100 - CDV = <u>54</u> RATING = <u>FAIR</u>
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	11.6	L	18	
1	0.3	L	5	
7	15	L	3.5	
7	1.8	M	11	
7	4.8	H	30.5	
9	20	L	3.5	
9	5.3	M	11	
q=	TOTAL DEDUCT VALUE		88.5	
	CORRECTED DEDUCT VALUE (CDV)		40	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent agency is USACE

BRANCH Rt 234 SECTION RS 15617-A 495
 DATE _____ SAMPLE UNIT 24
 SURVEYED BY RE AREA OF SAMPLE 700 x 10.5 = 7350 SF

Distress Types				SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Corrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shldr Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	10					11	12	13	14
QUANTITY & SEVERITY	10.5					71.0	700 x 8.5	7.5 L	14M
	4					8.5		11.5 M	7H
	14.5					15.5		11.5	4M
	4					12.5			20 L
	10.5 M					10M			13 L
	14.5					11.5 L			15 L
	10.5 M								
	34.1 L								
TOTAL SEVERITY	L	M	H						
	93.5	225.5	1700	197.5	48				
	21	10		11.5	18				
				7	4				
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>61</u> RATING = <u>GOOD</u>					
10	15.2	L	21						
10	15	M	11						
19	81.0	L	15						
7	8.9	L	10.5						
7	0.6	M	6.5						
9	23	L	4						
9	0.9	M	4						
q =	TOTAL DEDUCT VALUE			82.72					
CORRECTED DEDUCT VALUE (CDV)				39					

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

9	0.3	H	6
1	0.2	L	4

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the originating agency is USACI

BRANCH Rt 234
DATE _____
SURVEYED BY _____

SECTION LS 15617-A 496
SAMPLE UNIT 28
AREA OF SAMPLE 700 x 10.5 = 2100 SF

Distress Types					SKETCH:					
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shldr Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	10					11	12	13	14	
QUANTITY & SEVERITY	171					200 x 10.5	1 x 1.5	10.5	12.5 H	2.5 L
	4.5						1 x 2	3.5	12 L	1.5 M
	17.5							15.5	12 M	7 L
	11.5								12 L	20.5 H
	10.5									8.5 L
	10.5									10 H
	10.5									31.5 M
	17					12.5 H				
2.5					40.5 L					
TOTAL SEVERITY	L 263.5	1700	3.5	36.5	30	70.5				
	M				52.5	52				
	H					67				
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>49</u> RATING = <u>FAIR</u>						
10	14.3	L	20							
11	8.0	L	15							
1	0.2	L	4							
9	1.4	L	3							
9	2.5	M	6.5							
7	3.4	L	5							
7	2.5	M	13							
q =	TOTAL DEDUCT VALUE		104.5							
CORRECTED DEDUCT VALUE (CDV)			51							

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

7	3.2	H	24
15	2.4	L	14

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the component agency is USAC.

BRANCH Rt 234 SECTION RS 15617-A 497
 DATE _____ SAMPLE UNIT 32
 SURVEYED BY RF AREA OF SAMPLE 2100 SF

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	1	10	11	4	7	13
QUANTITY & SEVERITY	2 x 10.5	10.5	2.5 x 2.00	3 x 10.5	24' L	10.5
	3 x 10.5	10.5				8'
	1 x 10.5	10.5				
	3.4 x 10.5	10.5				
	3 x 10.5	10.5				
	4 x 4	10.5				
	2 x 10.5	10.5				
	2 x 10.5	10.5				
TOTAL SEVERITY	L 186.25	238	1700	31.5	24	56.5
M						
H						

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
1	8.9	L	31
10	14.0	L	20
19	81.0	L	15
4	15	L	9.5
7	1.1	L	3
9	0.10	L	2
TOTAL DEDUCT VALUE			80.5
CORRECTED DEDUCT VALUE (CDV)			46

PCI = 100 - CDV = 54

RATING = FAIR

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency is USAC

BRANCH Rt 234
DATE
SURVEYED BY RF

SECTION RS15617-A 498
SAMPLE UNIT 36
AREA OF SAMPLE 700 x 50' = 2100 sq

Distress Types						SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	10	11	1	10	9	7	
QUANTITY & SEVERITY	10.5 L	3.5 x 200	2 x 3	10.5 L	55 L	24 L	
	10.5 L		2 x 2	8 L	47 M		
	10.5 L		1 x 2				
	176 L		4 x 2 L				
	10.5 L		1 x 3 L				
	9 L		2 x 6 L				
	10.5 L		4 x 4 L				
	10.5 L		5 x 2.5 L				
TOTAL SEVERITY	L	253.5	1700	77	18.5	85	104.5
	M					47	
	H						

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	13.0	L	19
19	81.0	L	15
1	3.7	L	22
9	4.1	L	6
9	2.2	M	6
7	5.0	L	7
q= TOTAL DEDUCT VALUE			75
CORRECTED DEDUCT VALUE (CDV)			35

PCI = 100 - CDV = 65

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the originating agency is USAC

BRANCH RT 234 SECTION RS 15617-A 499
 DATE _____ SAMPLE UNIT 40
 SURVEYED BY RF AREA OF SAMPLE 200 x 100' = 2100 SF

Distress Types					SKETCH:	
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	10	19	1	9	7	10
QUANTITY & SEVERITY	100 L	8.5 x 200	7.5 x 200	4.5 L	47 L	23.5 L
	2 L		2 x 3.5 L	2.5 M		10.5
	4.5 L		2 x 1.5 L	2.5 M		11.5 L
	10.5 M		7 x 1.5 L			
	11 L		1 x 1.5 L			
	17 L					
	4.5 L					
TOTAL SEVERITY	L	268	1700	40.75	45	47
	M	10.5			60	
	H					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 60.5 $RATING =$ <u>6007</u>		
10	14.9	L	20.5			
10	0.5	M	4.5			
19	81.0	L	15			
1	1.9	L	15.5			
9	2.1	L	4			
9	2.9	M	7			
7	2.2	L	4			
q=	TOTAL DEDUCT VALUE		70.5			
CORRECTED DEDUCT VALUE (CDV)			39.5			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Army-Government Agency is USAC

BRANCH R-234
 DATE _____
 SURVEYED BY RF, GO

SECTION KS 13617 A₅₀₀
 SAMPLE UNIT 111
 AREA OF SAMPLE 7 = 2100 SF

Distress Types				SKETCH:						
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shldr Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	10					19	3	1	9	7
QUANTITY & SEVERITY	1					2	24 x 10' L	4 x 2' S	15 L	3 L
	10.5'								130 M	
	10.5'							1 x 2'		
	10.5'							2 x 2' L		
	10.5'							2 x 2' L		
	10.5'							2 x 2' L		
	10.5'							2 x 2' L		
	10.5'			2 x 2' L						
TOTAL SEVERITY	L	129	1700	740	91.5	15	33			
	M				130					
	H				40					
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>54</u> RATING = <u>Fair</u>						
10	6.1	L	12.5							
19	81.0	L	15							
3	35.2	L	17							
1	4.4	L	24							
9	27	L	2							
9	6.2	M	12.5							
9	1.9	H	9.5							
q =	TOTAL DEDUCT VALUE			96						
CORRECTED DEDUCT VALUE (CDV)				46						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

7	1.6	L	3.5

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the proponent Agency is USACE

BRANCH Rt 243 SECTION 25 15617-B 501
 DATE 7/1/93 SAMPLE UNIT _____
 SURVEYED BY LF AREA OF SAMPLE 9.5 x 200 = 1900 SF

Distress Types				SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking						
2. Bleeding	11. Patching & Util Cut Patching						
3. Block Cracking	12. Polished Aggregate						
*4. Bumps and Sags	*13. Potholes						
5. Carrugation	14. Railroad Crossing						
6. Depression	15. Rutting						
*7. Edge Cracking	16. Shoving						
*8. Jt Reflection Cracking	17. Slippage Cracking						
*9. Lane/Shoulder Drop Off	18. Swell						
	19. Weathering and Raveling						
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY							
TYPE	10				9	7	
QUANTITY & SEVERITY	1				120 L	52 L	
	9						
	6.5						
	5.5						
	✓						
TOTAL SEVERITY	L 30				120	52	
M							
H							
PCI CALCULATION							
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ <u>84</u> RATING = <u>very Good</u>			
10	4.5	L	3				
9	6.3	L	8.5				
7	2.7	L	4.5				
q=	TOTAL DEDUCT VALUE		16				
CORRECTED DEDUCT VALUE (CDV)			16				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

206
68.21

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The Issuing Agency is USAC.

BRANCH R-243
DATE 7/1/83
SURVEYED BY RF

SECTION RS 15617-B 502
SAMPLE UNIT 6
AREA OF SAMPLE 9.5 x 200 = 1900

Distress Types				SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking			
2. Bleeding	11. Patching & Util Cut Patching			
3. Block Cracking	12. Polished Aggregate			
*4. Bumps and Sags	*13. Potholes			
5. Carrugation	14. Railroad Crossing			
6. Depression	15. Rutting			
*7. Edge Cracking	16. Shoving			
*8. Jt Reflection Cracking	17. Slippage Cracking			
*9. Lane/Slidr Drop Off	18. Swell			
	19. Weathering and Raveling			

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	10	7		
QUANTITY & SEVERITY	9	10	146 L	47 L	
	5	9.5		44 L	
	9.5	9.5			
	5	9.5			
	24	9			
	5	8			
	13	7.5			
	5	7			
TOTAL SEVERITY	L 163		146	91	
M					
H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	9.6	L	15
9	7.7	L	9.5
7	4.8	L	7
q=	TOTAL DEDUCT VALUE		22.5
	CORRECTED DEDUCT VALUE (CDV)		11.5

PCI = 100 - CDV =
88.5

RATING = Excellent

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. the originating agency is USAC

BRANCH RT 243 SECTION RS 15617-B 503
 DATE 2/1/93 SAMPLE UNIT 12
 SURVEYED BY RF AREA OF SAMPLE 200' x 9.5' = 1900

Distress Types					SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shoulder Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	10	7	9	5
QUANTITY & SEVERITY	9	5	10 L	90 M	2
	9.5	7		60 H	11.5
	8	6			9.5
	2	2.5			6
	9.5	9.5			9.5
	9.5	4.5			19.5
	6	5			9.5
	12	9.5			10
	9.5	3			
TOTAL SEVERITY	L 212.5		10	90	
	M			60	
	H				

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	11.2	L	17.5
7	0.5	L	2.5
9	4.7	M	10.5
9	3.2	H	13
q=	TOTAL DEDUCT VALUE		43.5
	CORRECTED DEDUCT VALUE (CDV)		26.5

PCI = 100 - CDV =
73.5

RATING = very
Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The originating Agency is USAC.

BRANCH RT 243 SECTION RS 15617-13 504
 DATE 7/1/93 SAMPLE UNIT 18
 SURVEYED BY RF AREA OF SAMPLE 200 x 9.5 = 1900

Distress Types		SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking	
2. Bleeding	11. Patching & Util Cut Patching	
3. Block Cracking	12. Polished Aggregate	
*4. Bumps and Sags	*13. Potholes	
5. Corrugation	14. Railroad Crossing	
6. Depression	15. Rutting	
*7. Edge Cracking	16. Shoving	
*8. Jt Reflection Cracking	17. Slippage Cracking	
*9. Lane/Shoulder Drop Off	18. Swell	
	19. Weathering and Raveling	

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	7	10	10	
QUANTITY & SEVERITY	9.5	23 x 1 H	5	5.5	
	9.5	20 x 1 L	9.5	9.5	
	2.5	11 x 1 H	9.5	9.5	
	9.5	1 x 74 L	9.5	8.5	
	9.5		5	2	
	10		9.5	9	
	5		9.5	9	
	9.5		2	9.5	
	2		5.5		
TOTAL SEVERITY	L 229.5	94			
	M				
	H	44			

PCI CALCULATION				
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	
10	121	L	18.5	PCI = 100 - CDV = <u>72</u>
7	49	L	7	
7	23	H	20	
q=	TOTAL DEDUCT VALUE		45.5	RATING = <u>Very Good</u>
	CORRECTED DEDUCT VALUE (CDV)		28	

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the component agency is USAC.

BRANCH SC 23.1 SECTION RS 15617-B 505
 DATE 7/1/93 SAMPLE UNIT 24
 SURVEYED BY RF AREA OF SAMPLE 200 x 9.5' = 1900

Distress Types				SKETCH:						
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Carrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shoulder Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	3					10	7	10	9	1
QUANTITY & SEVERITY	9 x 1.5					2.5	167 H	5	200 M	38.5 x 1.5' L
						9	23 M	15		
						20		3		
						9.5		13		
						21				
						8				
						9.5				
		8								
TOTAL SEVERITY	L	13.5	141			57.75				
	M			23	200					
	H			167						
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>47</u> RATING = <u>FAIR</u>						
3	0.7	L	0							
10	7.4	L	14							
7	1.2	M	9							
7	8.8	H	38.5							
9	10.5	M	20							
1	3.0	L	20							
q =	TOTAL DEDUCT VALUE		101.5							
	CORRECTED DEDUCT VALUE (CDV)		53							

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the 1964 General Agency is USACI

BRANCH RT 243
DATE 7/1/93
SURVEYED BY RT

SECTION RS 15611-B 506
SAMPLE UNIT 30
AREA OF SAMPLE 200 x 9.5 = 1900

Distress Types					SKETCH:			
1. Alligator Cracking	*10. Long & Trans Cracking							
2. Bleeding	11. Patching & Util Cut Patching							
3. Block Cracking	12. Polished Aggregate							
*4. Bumps and Sags	*13. Potholes							
5. Corrugation	14. Railroad Crossing							
6. Depression	15. Rutting							
*7. Edge Cracking	16. Shoving							
*8. Jt Reflection Cracking	17. Slippage Cracking							
*9. Lane/Shoulder Drop Off	18. Swell							
	19. Weathering and Raveling							
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY								
TYPE	7				10	3	9	10
QUANTITY & SEVERITY	1.5 x 136 L				65	37 x 7 L	90 M	8
	1.5 x 30 H				9.5	5 x 3 L	60 L	9.5
	2.0 x 34 M				9	6.0 L		9.5
					8.5			9.5
					8			6
					8			11
					8			
		8						
TOTAL SEVERITY	L 136	130	310	100				
	M 34			90				
	H 30							
PCI CALCULATION								
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>64</u>				
7	72	L	9					
7	158	M	11					
7	110	H	17					
10	68	L	13					
3	16.3	L	11					
9	3.2	L	5					
9	4.7	M	10					
q=	TOTAL DEDUCT VALUE		76					
CORRECTED DEDUCT VALUE (CDV)			36					
				RATING = <u>Good</u>				

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the component Agency is USAC

BRANCH Rt 243 SECTION RS-15617-8 507
 DATE 7/1/93 SAMPLE UNIT 36
 SURVEYED BY RF AREA OF SAMPLE 9.5 x 200' = 1900

Distress Types				SKETCH:						
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shoulder Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	10					7	9	1	10	10
QUANTITY & SEVERITY	5.5					200 M	1 x 3 L	3	4	
	10					6.6 x 1 L	1 x 3 L	9.5	9.5	
	17							4	9.5	
	8							9	9.5	
	9							9.5	9.5	
	4							4	9.5	
	9.5							9.5	4	
	10			9.5	9.5					
TOTAL SEVERITY	L	205	126	200	6					
	M									
	H									
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>69</u>						
10	10.8	L	17							
7	6.6	L	9.5							
9	10.5	M	20							
1	0.3	L	4.5							
q =	TOTAL DEDUCT VALUE		56	RATING = <u>6000</u>						
CORRECTED DEDUCT VALUE (CDV)		31								

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USAC

BRANCH 01 243 SECTION RS 15617-B 508
 DATE 7/1/93 SAMPLE UNIT 42
 SURVEYED BY RF AREA OF SAMPLE 200 x 9.5 = 1900

Distress Types				SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking				
2. Bleeding	11. Patching & Util Cut Patching				
3. Block Cracking	12. Polished Aggregate				
*4. Bumps and Sags	*13. Potholes				
5. Corrugation	14. Railroad Crossing				
6. Depression	15. Rutting				
*7. Edge Cracking	16. Shoving				
*8. Jt Reflection Cracking	17. Slippage Cracking				
*9. Lane/Shoulder Drop Off	18. Swell				
	19. Weathering and Raveling				

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY					
TYPE	10	7	9	10	10
QUANTITY & SEVERITY	7	1.5 x 25.5 L	12.5 H	5	9.5
	9	9 x 1 M		4	6
	9.5	23 x 1 L		4	3.2
	5	1 x 16 H		3.5	
	3	26.5 x 1 L		4.5	
	11.0	57.5 x 1 L		4	
	7			3.5	
	7.5			7	
TOTAL SEVERITY	L	156.5	178.5		
	M		9		
	H		11.0	12.5	

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	8.2	L	15
7	6.8	L	9
7	0.5	M	6
7	0.8	H	12
9	6.6	H	23
q= TOTAL DEDUCT VALUE			65
CORRECTED DEDUCT VALUE (CDV)			310

PCI = 100 - CDV =

64

RATING = Good

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the instrument Agency is USACI

BRANCH Rt 243
 DATE 2/1/93
 SURVEYED BY RF

SECTION 2515617-B₅₀₉
 SAMPLE UNIT 48
 AREA OF SAMPLE 200 x 9.5 = 1900

Distress Types				SKETCH:						
1. Alligator Cracking	*10. Long & Trans Cracking									
2. Bleeding	11. Patching & Util Cut Patching									
3. Block Cracking	12. Polished Aggregate									
*4. Bumps and Sags	*13. Potholes									
5. Corrugation	14. Railroad Crossing									
6. Depression	15. Rutting									
*7. Edge Cracking	16. Shoving									
*8. Jt Reflection Cracking	17. Slippage Cracking									
*9. Lane/Shoulder Drop Off	18. Swell									
	19. Weathering and Raveling									
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY										
TYPE	7					1	10	9	15	16
QUANTITY & SEVERITY	2 x 30 L					1 x 30	7.5	30 M	3	11
	1 x 30 H						7.5	27 L	2	
	1 x 53 L						5	120 M	7	
	1 x 28 L						2		7.5	
	1 x 24 L						3		9	
							3		7	
							5		18	
		3		5						
		3.5		6.5						
TOTAL SEVERITY	L 107	30	114.5	27						
	M 28			150						
	H 30									
PCI CALCULATION										
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>62</u> RATING = <u>GOOD</u>						
7	5.6	L	7.5							
7	20	M	11.5							
7	120	H	17							
1	120	L	14							
10	60	L	12							
9	14	L	3							
9	79	M	15							
q =	TOTAL DEDUCT VALUE		80							
CORRECTED DEDUCT VALUE (CDV)			39							

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the Department Agency is USACI

BRANCH Rt 243
DATE 7/1/93
SURVEYED BY LC

SECTION RS 15617-B 510
SAMPLE UNIT 54
AREA OF SAMPLE 95 x 200 = 1900

Distress Types						SKETCH:
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					

EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	16	7	6	10	1	9
QUANTITY & SEVERITY	8	2 x 16	2 x 21 L	7.5	3 x 80	200 L
	16			7.5		
	9.5			7.5		
	7.5			3		
	9.5			4		
	8.5 M			3.5		
	2			3.5		
	5.5			5		
TOTAL SEVERITY	L	12.8	16	37	240	200
	M	8.5				
	H					

PCI CALCULATION			
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE
10	10.8	L	13
10	0.5	M	4.5
7	0.8	L	3
6	2.0	L	5
1	12.0	L	35
9	10.5	L	12
q =	TOTAL DEDUCT VALUE		72.5
	CORRECTED DEDUCT VALUE (CDV)		46

PCI = 100 - CDV = 54

RATING = FAIR

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor agency is USAC.

BRANCH 24243
 DATE 7/1/93
 SURVEYED BY RF

SECTION 15-15617-B 511
 SAMPLE UNIT 60
 AREA OF SAMPLE 9.5 x 200 = 1900

Distress Types					SKETCH:				
1. Alligator Cracking	*10. Long & Trans Cracking								
2. Bleeding	11. Patching & Util Cut Patching								
3. Block Cracking	12. Polished Aggregate								
*4. Bumps and Sags	*13. Potholes								
5. Carrugation	14. Railroad Crossing								
6. Depression	15. Rutting								
*7. Edge Cracking	16. Shoving								
*8. Jt Reflection Cracking	17. Slippage Cracking								
*9. Lane/Shoulder Drop Off	18. Swell								
	19. Weathering and Raveling								
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY									
TYPE	10					10	7	9	10
QUANTITY & SEVERITY	9.5					2.00	5 L	156 L	9.5
	4					8	19 L		9.5
	2					9.5			9.5
	5					9.5			9.5
	10					5			9.5
	9.5					1			8
	9.5					9.5			
	9.5	2							
4	9.5								
TOTAL SEVERITY	L	388	24	150					
	M								
	H								
PCI CALCULATION									
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>73</u> RATING = <u>Very Good</u>					
10	204	L	24						
7	1.3	L	3						
9	79	L	10						
q =	TOTAL DEDUCT VALUE		37						
	CORRECTED DEDUCT VALUE (CDV)		27						

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623. The responsibility assigned is USACI

BRANCH RT 243 SECTION RS 15617-B 512
 DATE 7/1/93 SAMPLE UNIT 616
 SURVEYED BY LF AREA OF SAMPLE 25,722' = 1900

Distress Types					SKETCH:	
1. Alligator Cracking	*10. Long & Trans Cracking					
2. Bleeding	11. Patching & Util Cut Patching					
3. Block Cracking	12. Polished Aggregate					
*4. Bumps and Sags	*13. Potholes					
5. Corrugation	14. Railroad Crossing					
6. Depression	15. Rutting					
*7. Edge Cracking	16. Shoving					
*8. Jt Reflection Cracking	17. Slippage Cracking					
*9. Lane/Shoulder Drop Off	18. Swell					
	19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	7	10	6	10		9
	24	3	17 x 2.5 ft	5		200M
QUANTITY & SEVERITY	155 M	5.5		5.5		
	710 L	4		7		
		5				
		9				
		9				
		9				
		5				
		27				
TOTAL SEVERITY	L 26	94	42.5			
	M 155			200		
	H 2					
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	PCI = 100 - CDV = <u>61</u> RATING = <u>Good</u>		
7	14	L	3			
7	8.2	M	22.5			
7	0.1	H	7.5			
10	50	L	11			
6	22	L	5			
9	10.5	M	20			
q= TOTAL DEDUCT VALUE			69			
CORRECTED DEDUCT VALUE (CDV)			39			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

DA FORM 5146-R, NOV 82

Figure E-2.

ASPHALT PAVEMENT INSPECTION SHEET

For use of this form, see TM 5-623, the predecessor Agency is USAC

BRANCH Rt 243 SECTION RS15617-B 513
 DATE 7/1/93 SAMPLE UNIT 72
 SURVEYED BY RF AREA OF SAMPLE 200' x 9.5

Distress Types				SKETCH:		
1. Alligator Cracking 2. Bleeding 3. Block Cracking *4. Bumps and Sags 5. Corrugation 6. Depression *7. Edge Cracking *8. Jt Reflection Cracking *9. Lane/Shoulder Drop Off	*10. Long & Trans Cracking 11. Patching & Util Cut Patching 12. Polished Aggregate *13. Potholes 14. Railroad Crossing 15. Rutting 16. Shoving 17. Slippage Cracking 18. Swell 19. Weathering and Raveling					
EXISTING DISTRESS TYPE, QUANTITY & SEVERITY						
TYPE	7	10	12	6	10	9
QUANTITY & SEVERITY	62 L	9.5	9.5	41' x 3.5	5	200 L
	13 L	9.5	9.5		2	
	5 L	9.5	2		9.5	
		13	5.5		5	
		2	1			
		9.5	9.5			
		3	5			
		3	9.5			
TOTAL SEVERITY	L 80	143.5		143.5		200
M						
H						
PCI CALCULATION						
DISTRESS TYPE	DENSITY	SEVERITY	DEDUCT VALUE	$PCI = 100 - CDV =$ 77 $RATING =$ Very Good		
7	4.2	L	6			
10	7.6	L	14			
6	7.6	L	13			
9	10.5	L	12			
q= TOTAL DEDUCT VALUE			45			
CORRECTED DEDUCT VALUE (CDV)			23			

* All Distresses Are Measured In Square Feet Except Distresses 4,7,8,9 and 10 Which Are Measured In Linear Ft; Distress 13 Is Measured In Number of Potholes.

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Figure E-2.

Project Distresses	R14643-A S.B.	R14643-B	RS15165-A W.B.	RS15165-A1 E.B.	RS15165-B W.B.	RS15165-B1 E.B.	RS15173	RS15174-A
Alligator Cracking	low	low	low	low	low	low		low med
Block Cracking			low	low	low	low		low
Bumps & Sags	low						med	
Depression								
Edge Cracking		low med			low		low med	low
Jt. Reflect Cracking								
Lane/ Shoulder Dropoff			low med	low med	low med high	low med high	low med high	low med high
Long & Transverse Cracking	low med	low med	low	low	low		low med	low med
Patching	low	low		low				
Polished Aggregate							yes	
Potholes	low			low				
RR X-ing								
Rutting	low				low		low	
Slippage								
Weathering & Raveling			low med	low med	low med	low		low med high
PCI Rating	79.5 V.G.	77.4 V.G.	70.5 V.G.	58.9 Good	54.6 Fair	55.6 Good	48.4 Fair	52.4 Fair

Table G-1 PCI Rating and Summary of the Condition Survey Results

Project Distresses	R15174-B	R15308-A	R15308-C	R15308-D	R15309-E	R15404 6 th St.	R15404 City W.B.	R15404 City E.B.
Alligator Cracking	low med	low med high	low	low	low	low med	low med	low med
Block Cracking	low med	med	low	low		low med	low	
Bumps & Sags							low	
Depression								
Edge Cracking	low	low med	low	low med		low med high	low	low med
Jt. Reflect Cracking								
Lane/ Shoulder Dropoff	low med					low med high	low med	low high
Long & Transverse Cracking	low med	low med	low med	low	low med	low med	low med	low med
Patching		low			low			
Polished Aggregate								
Potholes								
RR X-ing								
Rutting	low	low med				med		
Slippage								
Weathering & Raveling	low	low	low med	low med high	low		low	med
PCI Rating	54.1 Fair	63.4 Good	67.3 Good	55.7 Good	75.8 V.G.	49.3 Fair	62.4 Good	68.6 Good

Table G-1 PCI Rating and Summary of the Condition Survey Results
(Continued)

Project Distresses	R15502-I	RS15617-A	RS15617-B	R15630	R14643-A N.B.
Alligator Cracking	low	low	low		low
Block Cracking	low	low	low		
Bumps & Sags	low	low			
Depression			low		
Edge Cracking	low	low med high	low med high	low	low
Jt. Reflect Cracking					
Lane/Shoulder Dropoff		low med high	low med high		
Long & Transverse Cracking	low	low med	low med	low	low med
Patching	low				low
Polished Aggregate					
Potholes					
RR X-ing					
Rutting	low	low			Low
Slippage	low				
Weathering & Raveling	low	low med		low	
PCI Rating	71.3 V.G.	59.4 Good	68.4 Good	84.4 V.G.	75.4 V.G.

Table G-1 PCI Rating and Summary of the Condition Survey Results (Continued)

VITA

Khaled Ahmed Ragab Abdel Kader Galal, “Khaled A. Galal”, was born in Cairo-Egypt on 24 January 1963. He attended his elementary, middle and part of his high school in Cairo, Egypt. He received his high school Diploma (The General Certificate of Secondary “High” School) from Al-Doha High school Doha-Qatar in 1979/1980. He joined Ain-Shames University then transferred to Zagazig University – Benha Branch, Shoubra – Faculty of Engineering where he received his undergraduate degree in 1987 from the Civil and Surveying Engineering Department. In 1987, Khaled A. Galal was appointed an instructor in Shoubra – Faculty of Engineering because of his undergraduate achievement. In 1989, Khaled A. Galal joined California State University, Fresno, where he graduated with a Master Degree in Civil Engineering in December of 1991. In Fall of 1992, he joined Purdue University to pursue a Ph.D. Degree in Civil Engineering. Khaled A. Galal was offered a position with the Indiana Department of Transportation –Research Division, in February of 1997. He has been working as the Materials and Accelerated Pavement Testing Research Engineers since February of 1997. Khaled A. Galal has a number of publications in the areas of Materials, Pavement, and accelerated Pavement Testing.