

2009

HIGHWAY STATISTICS

Functional Class Miles By Pavement Roughness Index (IRI)

Year 2009		IRI VALUE					
Rural	< 60	>=60<95	>=95<170	>=170<220	>=220	TOTAL	
Interstate							
Other Principal Arterial	21.96	109.28	33.33	1.65	0.03	166.25	
Minor Arterial*	15.00	86.45	8.49	0.00	0.00	109.93	
Major Collector*	43.36	228.16	140.28	20.51	17.99	450.29	
Minor Collector (Note 1)							
Local (Note 1)							
Rural Total	80.31	423.88	182.10	22.16	18.02	726.47	
DeIDOT Road Inventory Only							
Urban	< 60	>=60<95	>=95<170	>=170<220	>=220	TOTAL	
Interstate	1.50	19.98	15.06	3.74	0.33	40.61	
Other Freeways & Expressways	1.51	19.82	8.91	0.13	0.00	30.37	
Other Principal Arterial	16.54	75.95	60.72	10.75	10.62	174.58	
Minor Arterial*	4.74	48.43	93.02	31.07	14.83	192.08	
Collectors*	3.71	66.75	176.84	68.22	52.01	367.54	
Local (Note 1)							
Urban Total	28.00	230.93	354.55	113.91	77.79	805.18	
Delaware Total	108.31	654.81	536.65	136.07	95.81	1,531.65	

* Expanded standard sample data used for these systems.

Functional Class Miles By Present Serviceability Rating (PSR)

Year 2009		PSR VALUE					
Rural	> 3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL	
Interstate							
Other Principal Arterial	57.64	27.89	80.72	0.00	0.00	166.25	
Minor Arterial	14.09	46.17	49.63	0.04	0.00	109.93	
Major Collector	90.03	110.03	223.82	23.99	2.42	450.29	
Minor Collector	37.79	53.95	127.38	8.58	0.00	227.70	
Local	216.40	347.68	1,117.13	192.36	16.99	1,890.56	
Rural Total	415.95	585.72	1,598.68	224.97	19.41	2,844.73	
DeIDOT Road Inventory Only							
Urban	> 3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL	
Interstate	14.65	19.62	5.17	1.17	0.00	40.61	
Other Freeways & Expressways	12.45	12.37	5.22	0.33	0.00	30.37	
Other Principal Arterial	40.89	37.54	86.90	4.74	4.51	174.58	
Minor Arterial	15.01	53.94	109.97	10.75	0.45	190.12	
Collectors	32.26	70.44	240.60	14.05	2.03	359.38	
Local	46.78	61.28	122.98	20.84	4.85	256.73	
Urban Total	162.04	255.19	570.84	51.88	11.84	1,051.79	
Delaware Total	577.99	840.91	2,169.52	276.85	31.25	3,896.52	

1) Data not Required for these Functional Classes

HIGHWAY STATISTICS

2009 IRI and PSR

NOTES

IRI: International Roughness Index (IRI) represents the pavement surface roughness along the longitudinal profile of a traveled wheel track on a roadway, expressed in inches/mile. Lower IRI implies smoother riding surface.

PSR: The Present Serviceability Rating (PSR) is a subjective, ride-based observation on the roughness of the pavement to estimate deterioration, deficiencies, and needed improvements based on early AASHO Road Tests. The higher the PSR value, the smoother the riding surface.

To obtain a more comprehensive assessment of pavement condition, additional measurements of pavement distress associated with rutting, shoving, faulting, and cracking are needed.

The Correlation Between IRI and PSR

<u>Ride Quality</u>	<u>IRI</u>	<u>PSR</u>
Very Good	< 60	>3.9
Good	60-94	3.5-3.9
Fair	95-170	2.6-3.4
Mediocre	171-220	2.1-2.5
Poor	>220	<=2.0