

2008

HIGHWAY STATISTICS

Functional Class Miles By Pavement Roughness Index (IRI)

Year 2008		IRI VALUE				
Rural	< 60	>=60<95	>=95<170	>=170<220	>=220	TOTAL
Interstate						
Other Principal Arterial	2.16	99.25	64.16	0.73	0.29	166.59
Minor Arterial*	0.00	71.64	38.29	0.00	0.00	109.93
Major Collector*	8.78	251.37	139.05	29.56	21.22	449.99
Minor Collector (Note 1)						
Local (Note 1)						
Rural Total	10.94	422.26	241.50	30.29	21.51	726.51
DelDOT Road Inventory Only						
Urban	< 60	>=60<95	>=95<170	>=170<220	>=220	TOTAL
Interstate	0.15	25.55	12.99	1.44	0.48	40.61
Other Freeways & Expressways	1.02	21.34	8.01	0.00	0.00	30.37
Other Principal Arterial	0.00	53.89	94.26	11.26	17.38	176.79
Minor Arterial*	4.70	44.27	101.69	17.64	21.97	190.27
Collectors*	16.77	99.47	143.75	71.04	36.83	367.86
Local (Note 1)						
Urban Total	22.65	244.53	360.70	101.37	76.66	805.90
Delaware Total	33.59	666.79	602.19	131.67	98.17	1,532.41

* Expanded standard sample data used for these systems.

Functional Class Miles By Present Serviceability Rating (PSR)

Year 2008		PSR VALUE				
Rural	> 3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL
Interstate						
Other Principal Arterial	57.98	27.89	80.72	0.00	0.00	166.59
Minor Arterial	14.09	46.17	49.63	0.04	0.00	109.93
Major Collector	89.79	110.15	224.07	24.05	1.93	449.99
Minor Collector	37.79	53.99	127.39	8.58	0.00	227.75
Local	216.48	347.85	1,117.60	192.40	16.42	1,890.75
Rural Total	416.13	586.05	1,599.41	225.07	18.35	2,845.01
DelDOT Road Inventory Only						
Urban	> 3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL
Interstate	13.24	20.07	6.12	1.18	0.00	40.61
Other Freeways & Expressways	12.45	12.37	5.22	0.33	0.00	30.37
Other Principal Arterial	40.95	37.56	89.03	4.74	4.51	176.79
Minor Arterial	15.13	54.02	107.96	10.75	0.45	188.31
Collectors	32.18	70.66	240.81	14.05	2.03	359.73
Local	46.78	61.28	122.95	20.87	4.85	256.73
Urban Total	160.73	255.96	572.09	51.92	11.84	1,052.54
Delaware Total	576.86	842.01	2,171.50	276.99	30.19	3,897.55

1) Data not Required for these Functional Classes

HIGHWAY STATISTICS

2008 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