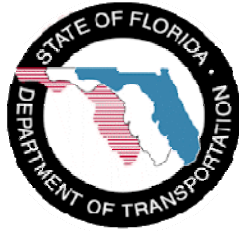


# STATE OF FLORIDA



## **FLEXIBLE PAVEMENT SMOOTHNESS ACCEPTANCE REPORT INTERNATIONAL ROUGHNESS INDEX**



**FL/DOT/SMO/10-535**

**June 2010**

**STATE MATERIALS OFFICE**



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# Executive Summary

The traveling public wants smooth, safe, and long lasting pavements. Initial pavement smoothness has been shown to improve the overall pavement performance. The Florida Department of Transportation (FDOT) has developed smoothness specifications for the acceptance of asphalt pavements on high-speed facilities that incorporates smoothness results obtained with high-speed inertial profilers.

This report is a synthesis of statewide project smoothness data collected from January 2005 through December 2009. It provides the end user with basic statistics on the Ride quality of projects tested for Ride Acceptance (RA). The data analyzed herein consists of all lots greater than or equal to 0.01 mile and less than or equal to 0.1 mile in length.

The information presented herein is summarized on a statewide basis as well as by District, roadway system, friction course, contractor, and year. Contractor statistics are further summarized by friction course type and aggregate type. Users of the report are encouraged to return the customer service form included in Appendix A.

**\*\* Title 23 U.S.C. Section 409, provides that this information provided to you is not subject to discovery nor is it admissible into evidence.**



# Introduction

According to National Cooperative Highway Research Program (NCHRP) project 1-31, conducted from February 1994 to December 1996 and published as NCHRP Web Document 1, "Smoothness Specifications for Pavements," the importance of pavement smoothness to the travelling public is undisputed. Smooth-riding pavements provide comfort, allow more efficient movement of vehicles over the roadway, raise optimum travel speeds, maintain traffic flow, reduce safety hazards to users and their vehicles, and may increase fuel efficiency, leading to lower traveling costs to roadway users. Pavement smoothness also imparts a positive reflection on the construction and maintenance proficiency of the owner agency, be it a state agency, city, county, or toll authority. In addition, American Association of State Highway and Transportation Officials (AASHTO) pavement design models suggest that initially smooth pavements last longer than initially rough pavements, though this has never confirmed through long-term field investigation (AASHTO design equations are based on only 2 years of performance data).

## **FDOT RIDE QUALITY**

Ride quality has been used by FDOT for evaluating new construction, overlay projects, special ride quality evaluations used for informational purposes, and for monitoring long-term pavement performance at the network level. To measure pavement ride quality, automated or manual methods can be used to measure roadway profiles from which a roughness value is calculated. Most states including Florida use high-speed inertial profilers to measure smoothness. The commonly used measures of roughness (or smoothness) are the International Roughness Index (IRI) and Ride Number (RN). Since 1998, FDOT has been using the RN for project level acceptance, and evaluation in accordance with American Society for Testing and Materials (ASTM) E1489.

The FDOT has worked very closely with the Federal Highway Administration (FHWA) and the construction industry to improve pavement smoothness on Florida's state highways. To this end, a smoothness task team was created with representatives from FDOT, FHWA and the paving industry to develop and implement non-contact profiler based smoothness specifications. Sub-article 330-12.6 of the FDOT Standard Specifications sets the requirements for Acceptance Testing for Pavement Smoothness by Laser Profiler.

## **RIDE QUALITY EVALUATION PROCESS**

The Pavement Condition Unit of the State Materials Office (SMO) is responsible for conducting smoothness evaluation using an inertial high-speed laser profiler. Florida test method FM 5-549, "Laser Profiler Roughness Evaluation," provides the method by which a pavement is evaluated for smoothness using the longitudinal profiles recorded from each wheel path using an inertial profiler test vehicle.

The test vehicle is driven along the wheel paths of the pavement section to be evaluated and uses a system of three laser sensors and two accelerometers mounted in the front bumper of a full-size van. One laser is mounted in front of each tire to measure the longitudinal profile in the left and right wheel paths of the traveled surface. These 32 kHz lasers measure the vertical distance between the sensor and the pavement surface at an initial rate of 30 readings per inch as the vehicle travels at 60 mph. An accelerometer is mounted atop each of these two lasers to isolate the vehicle's vertical motion and thus provide a "zero" reference plane. The third laser, mounted equidistant from the two wheel path lasers, provides a height reading from which to calculate rut depth in each wheel path. The vehicle's data acquisition system uses the accelerometer data to provide a correction to the laser data, eliminating the effects of vehicle movement, and uses a Distance Measuring Instrument (DMI) connected to the vehicle transmission and recording the longitudinal distance traveled to summarize the corrected laser data into approximately 1 inch intervals. The exact interval is a function of each individual DMI's calibration settings. These summary values are then post-processed into exactly 6 inch intervals to generate a longitudinal profile for each wheel path, as well as a combined value for both wheel paths, and an average rut depth.

The laser profilers currently in use by FDOT are manufactured by International Cybernetics Corporation (ICC) of Largo, Florida. All of these profilers are owned by FDOT with the exception of one unit that is provided through a contract with Applied Research Associates, Inc. (ARA). Currently this profiler is the primary unit used by the SMO for the collection of project level smoothness data.

District project personnel may submit all requests for pavement evaluations using online request forms available at the SMO's website:

Intranet: <http://materials.dot.state.fl.us/smo/pavement/pavementhome.htm>

Internet: <http://www.dot.state.fl.us/statematerialsoffice/pavement/index.shtm>



## **WHAT IS THE INTERNATIONAL ROUGHNESS INDEX?**

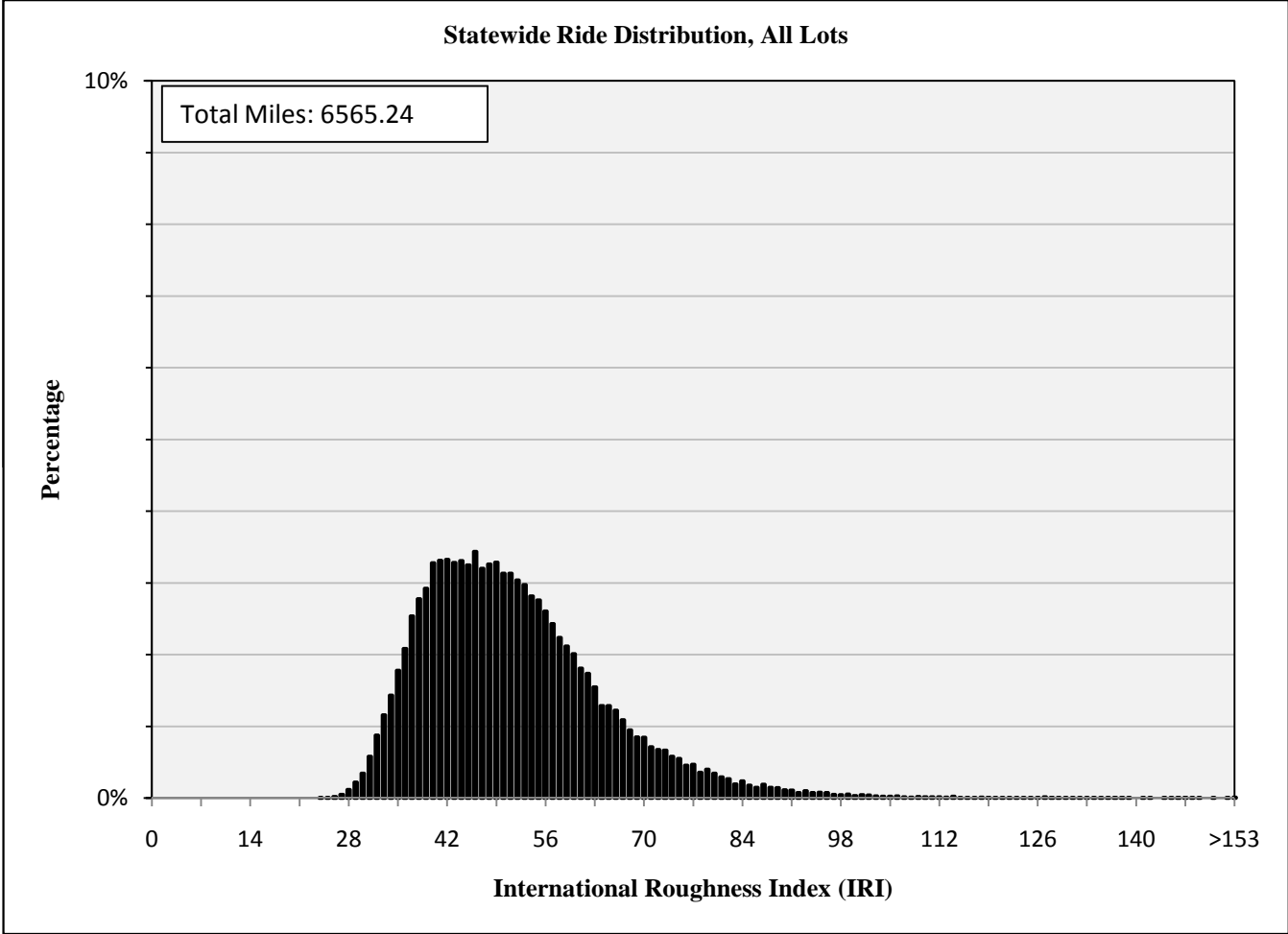
In "Guidelines for Conducting and Calibrating Road Roughness Measurements", published by the World Bank in 1986 as Technical Paper 46, International Roughness Index (IRI) is defined as a mathematical transform (a property) of a true profile describing surface roughness that causes vehicle vibration.

The underlying IRI model is a series of differential equations that relate the motions of a simulated quarter-car to a road profile. The IRI is computed as a linear accumulation of the simulated suspension motion, normalized by the length of the profile. IRI therefore has units of slope, typically "in/mi" or "m/km", and is computed from a single longitudinal wheel path profile. It has a demonstrated strong compatibility with the equipment used to develop pavement management systems. IRI is sensitive to wavelengths between 4 and 100 feet and is most sensitive to wavelengths of 7 and 50 feet.

All data is analyzed according to ASTM E1926, "Standard Practice for Computing International Roughness Index of Roads from Longitudinal Profile Measurements".



# Statewide Ride Distribution

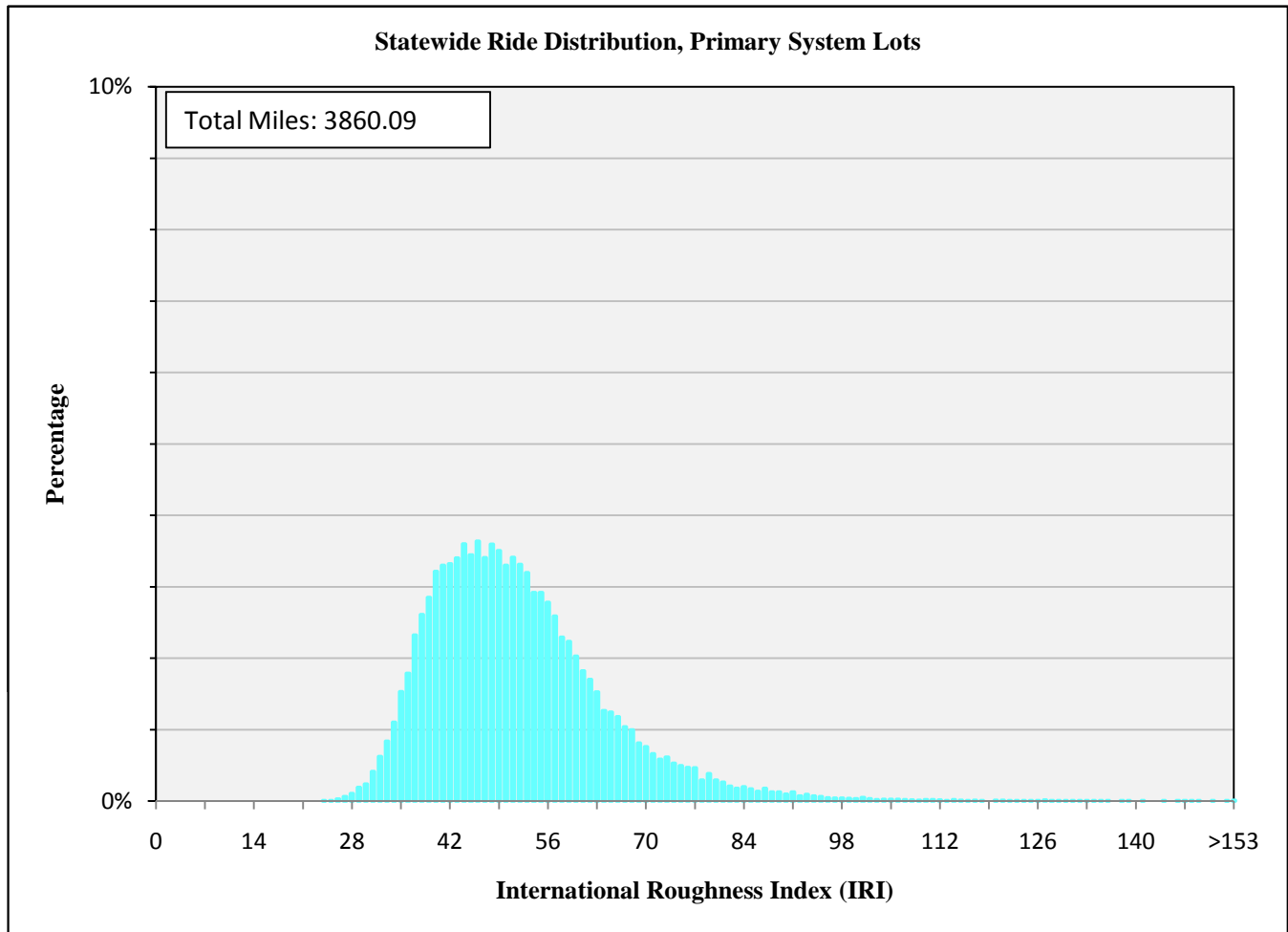


**Figure 1 Statewide Ride Distribution, All Lots**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
							Lots	Miles
All Lots	67345	6565.24	24	52	269	13.15	1449	125.22

# Statewide Ride Distribution by System Type

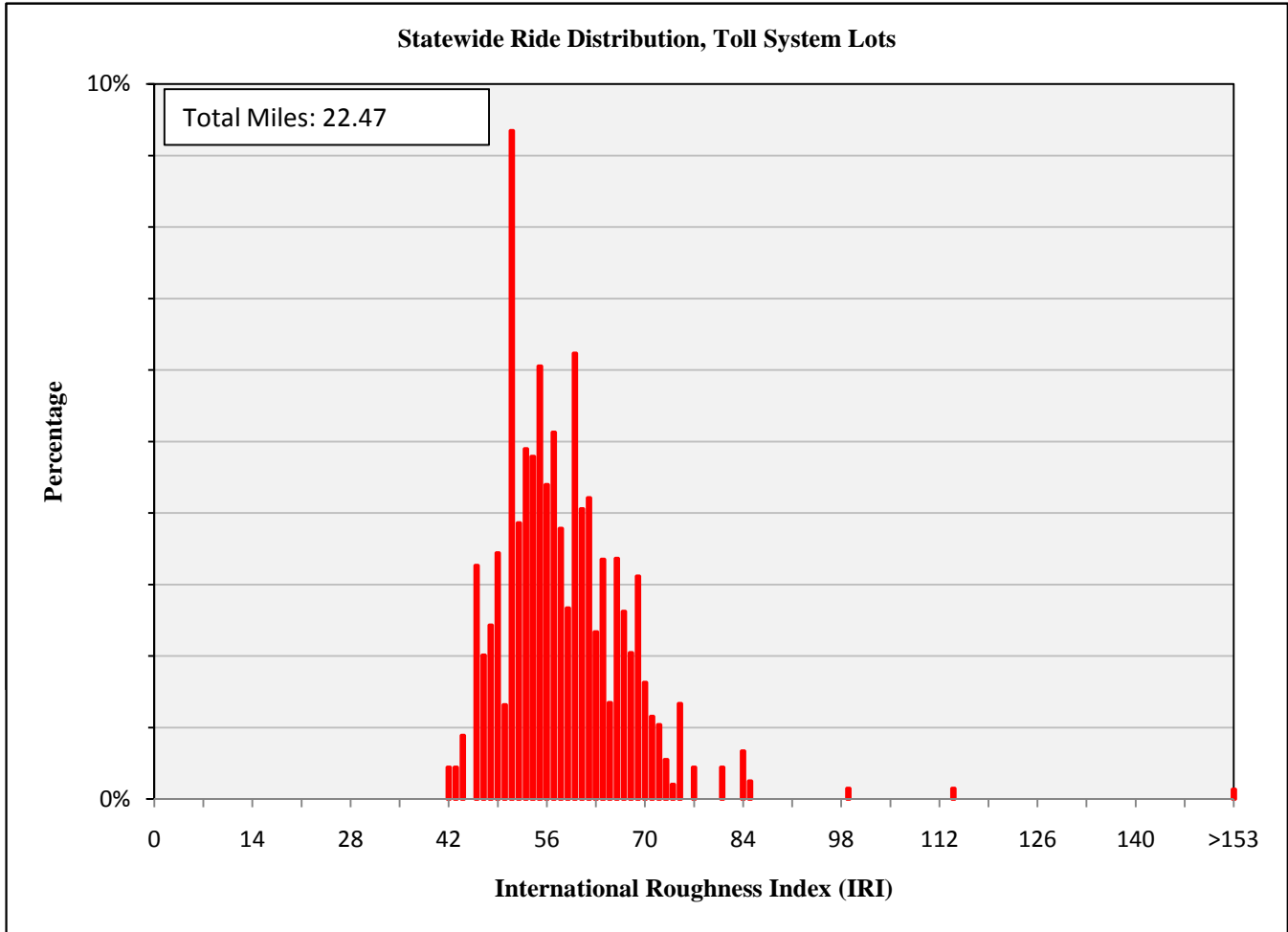
## Primary



**Figure 2 Statewide Ride Distribution, Primary**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Primary	39356	3860.09	24	52	269	12.64	769	67.10

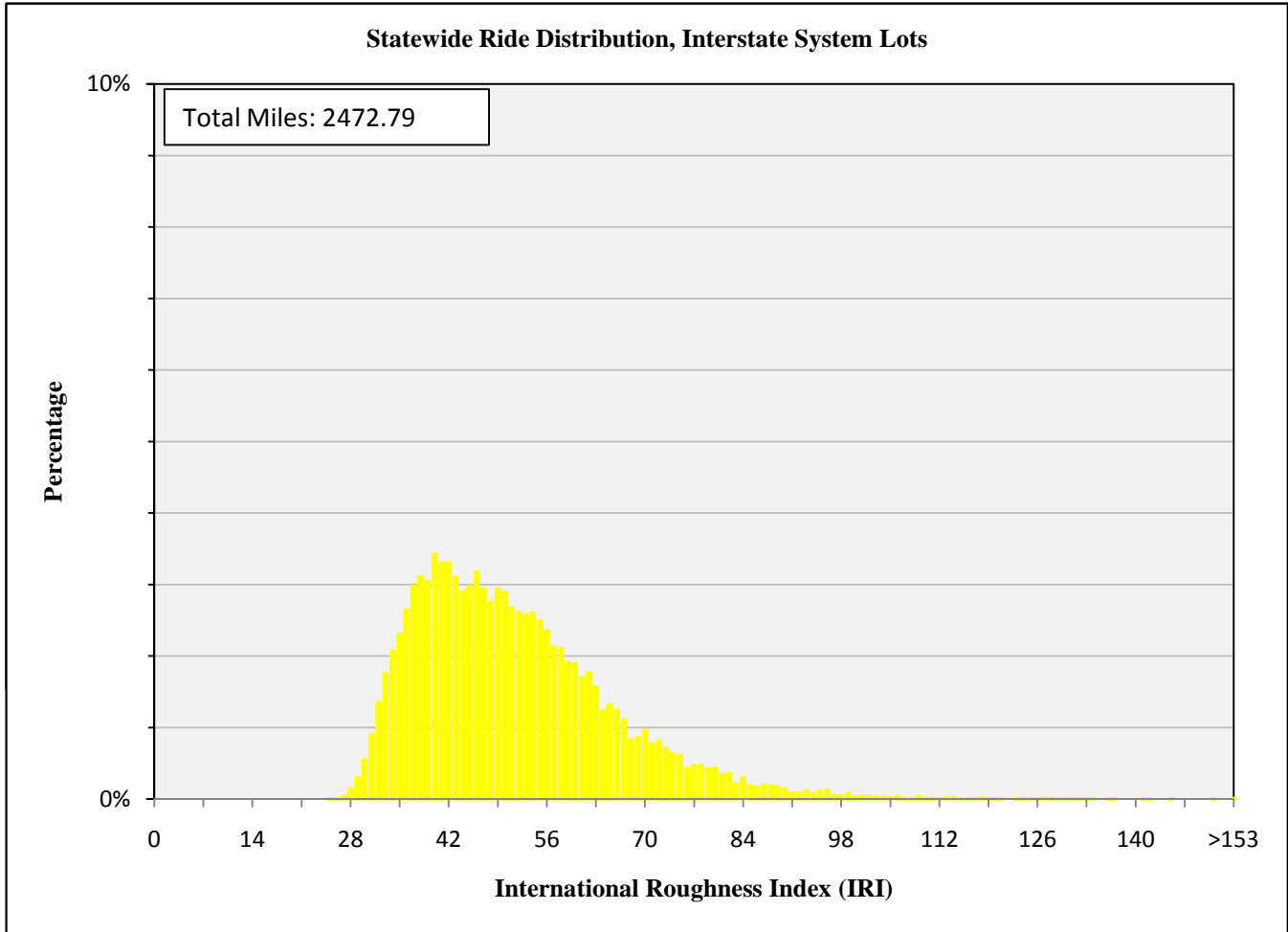
# Toll Roads



**Figure 3 Statewide Ride Distribution, Toll Roads**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Toll	243	22.47	42	58	228	9.80	4	0.10

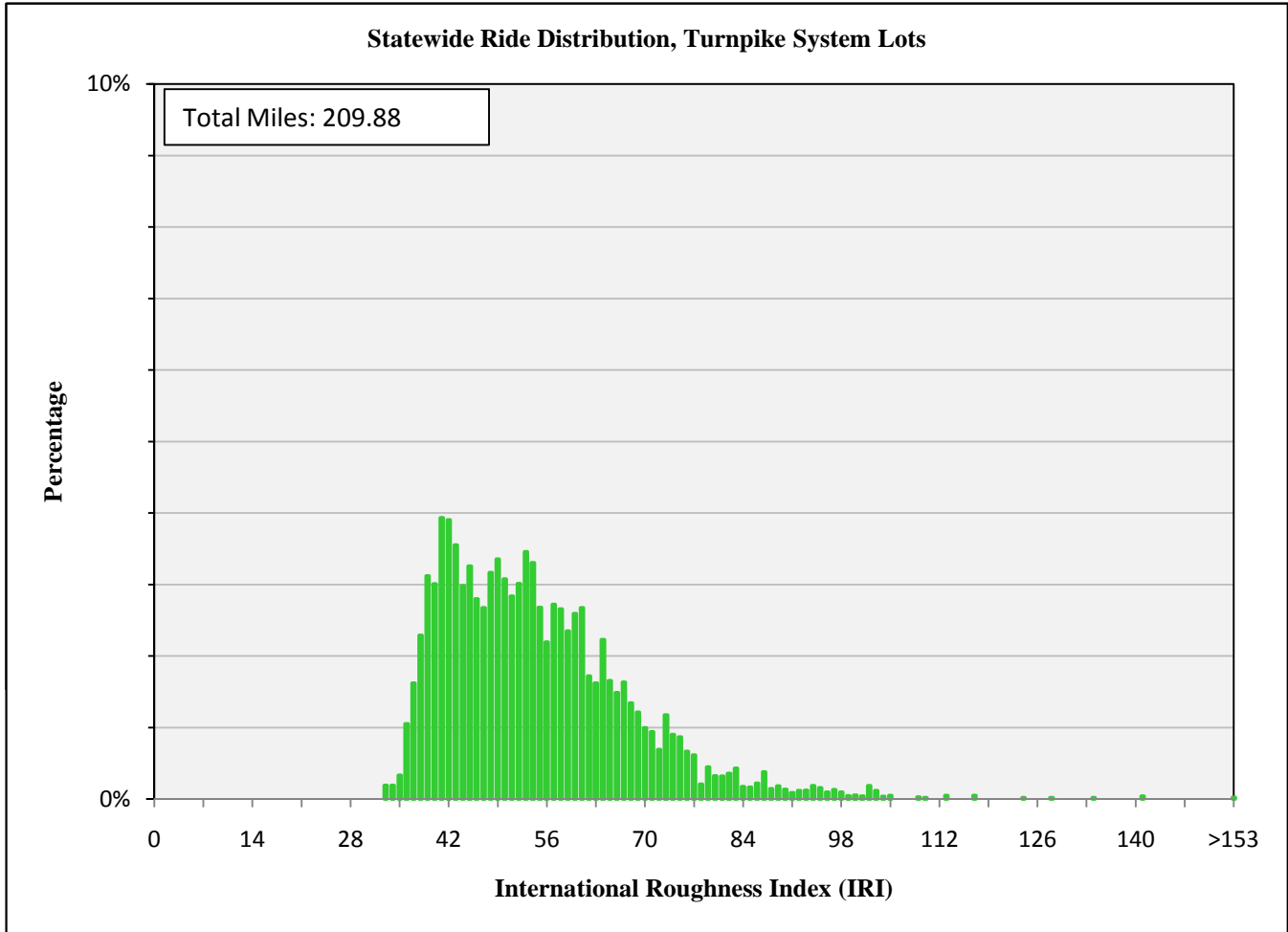
# Interstate



**Figure 4 Statewide Ride Distribution, Interstate**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Interstate	25539	2472.79	25	51	166	13.87	597	52.07

# Turnpike

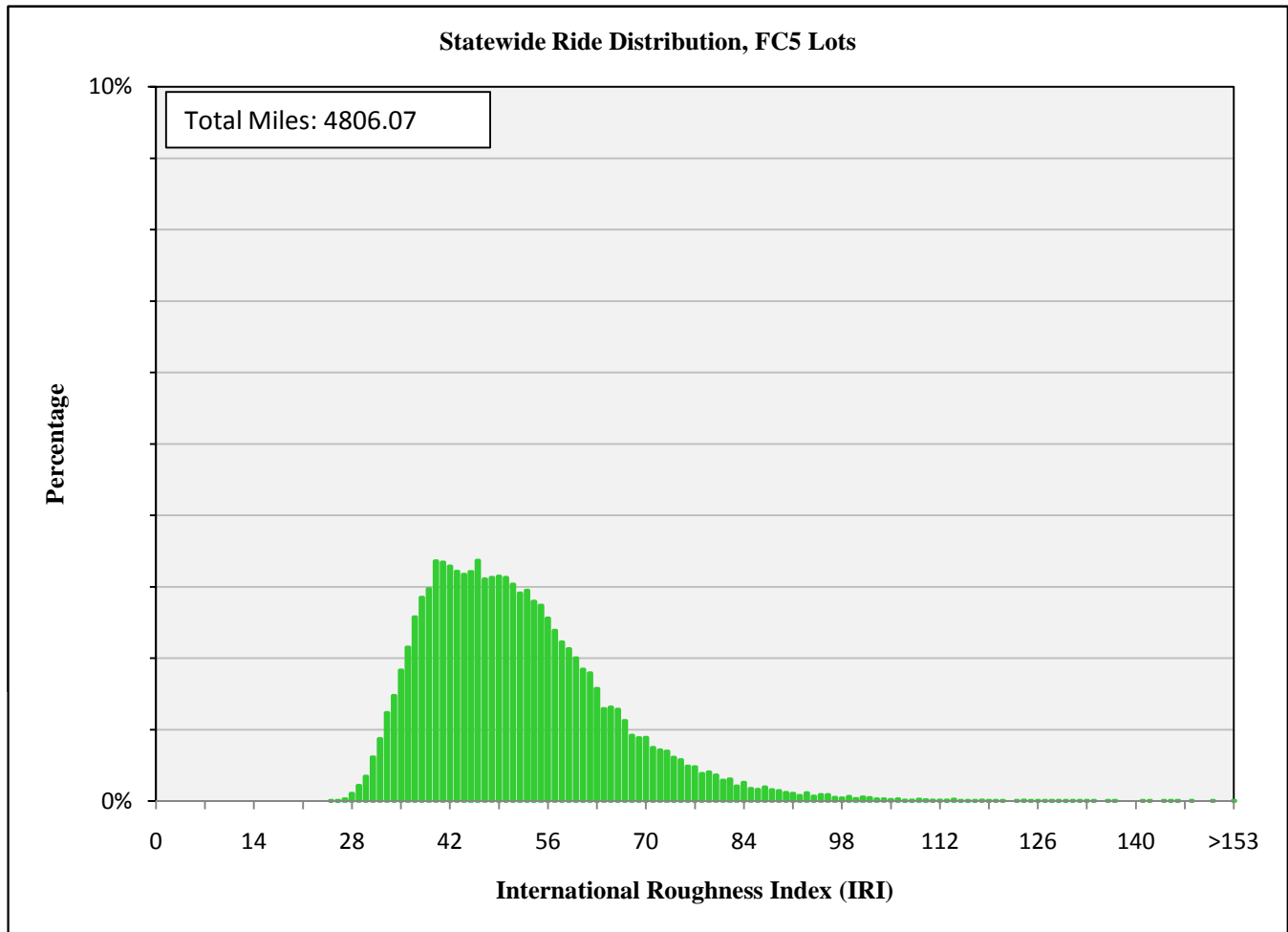


**Figure 5 Statewide Ride Distribution, Turnpike**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Turnpike	2207	209.88	33	54	177	13.31	79	5.95

# Ride Distribution by Friction Course Type

## FC 5

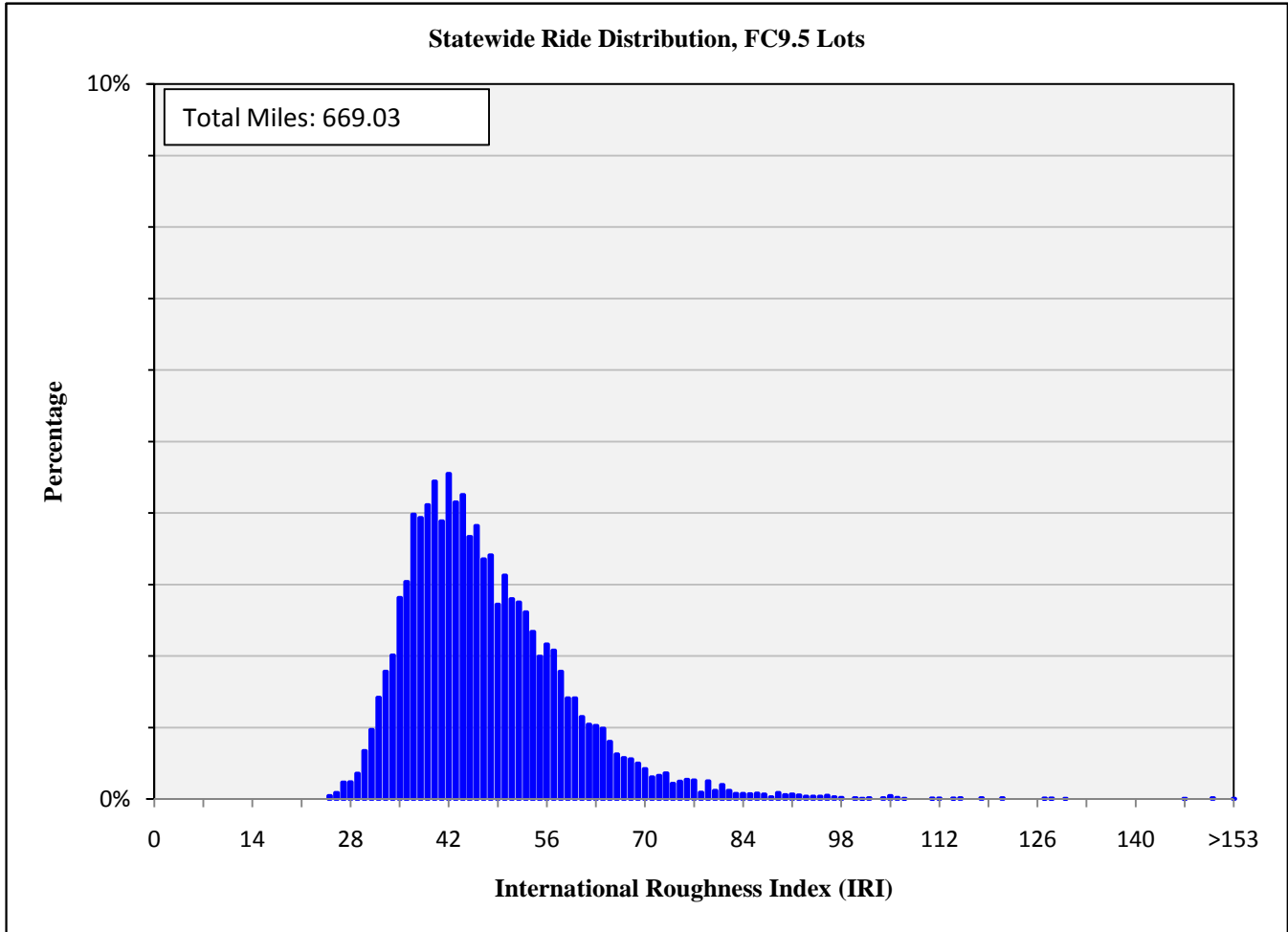


**Figure 6 Statewide Ride Distribution, FC 5**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
FC5	49425	4806.07	25	52	269	13.20	1079	92.66



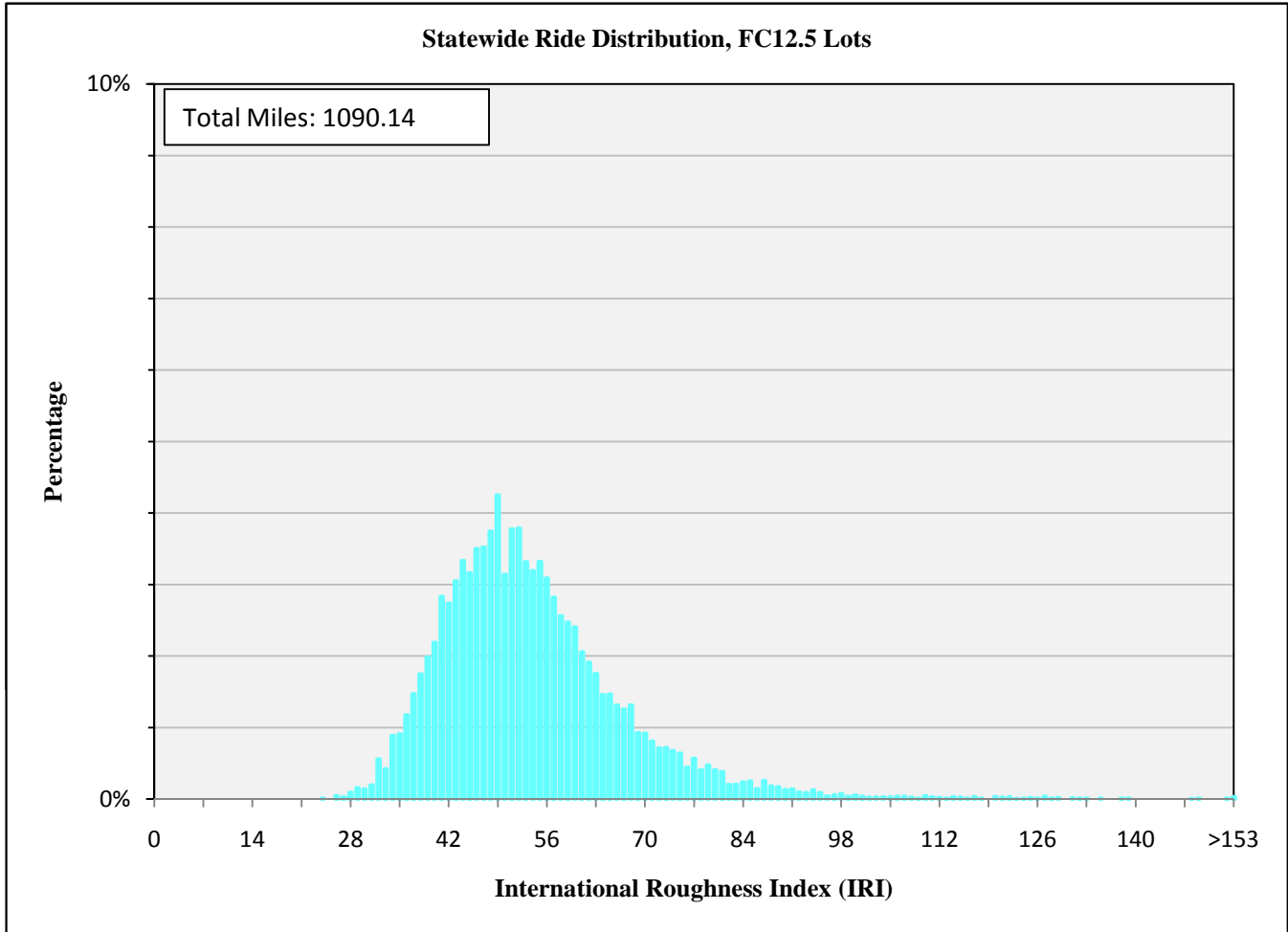
# FC 9.5



**Figure 7 Statewide Ride Distribution, FC 9.5**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
FC9.5	6816	669.03	25	47	204	11.47	73	5.92

# FC 12.5



**Figure 8 Statewide Ride Distribution, FC 12.5**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
							Lots	Miles
FC12.5	11104	1090.14	24	54	207	13.29	297	26.64

# Statewide Statistics

**Table 1 Statewide Statistical Summary for Year**

Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
2005	6928	670.69	28	54	207	13.58	183	14.92
2006	11493	1124.36	24	55	269	13.02	317	28.48
2007	16178	1585.73	27	52	166	12.94	351	30.78
2008	17007	1656.56	25	50	171	13.04	340	29.28
2009	15739	1527.90	25	49	177	12.53	258	21.76

**Table 2 Statewide Statistical Summary for System Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Primary	2005	3713	361.47	31	55	207	13.93	120	9.84
	2006	7161	701.87	24	54	269	11.96	155	13.20
	2007	9672	953.11	27	52	163	12.47	183	16.50
	2008	9814	963.49	25	50	171	12.05	143	12.47
	2009	8996	880.15	25	50	164	12.93	168	15.09
Toll	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	243	22.47	42	58	228	9.80	4	0.10
	2007	0	0.00	0	0	0	0.00	0	0.00
	2008	0	0.00	0	0	0	0.00	0	0.00
	2009	0	0.00	0	0	0	0.00	0	0.00
Interstate	2005	3057	293.68	28	53	127	13.29	63	5.07
	2006	4089	400.02	28	58	142	14.43	158	15.19
	2007	6086	591.56	28	52	166	13.65	161	13.61
	2008	6840	659.25	25	50	151	14.19	176	15.07
	2009	5467	528.28	27	46	130	11.03	39	3.12
Turnpike	2005	158	15.55	37	50	82	7.82	0	0.00
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	420	41.05	42	62	102	8.94	7	0.67
	2008	353	33.82	33	58	124	14.23	21	1.74
	2009	1276	119.47	33	51	177	13.66	51	3.55

**Table 3 Statewide Statistical Summary for Friction Course Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	2005	5014	482.73	28	54	134	12.69	103	7.95
	2006	7558	738.45	28	57	269	13.19	243	22.13
	2007	12997	1273.30	28	52	166	13.05	276	24.38
	2008	11664	1132.13	25	50	171	13.16	252	21.22
	2009	12192	1179.45	27	49	177	12.58	205	16.97
FC9.5	2005	823	80.53	32	51	204	11.74	18	1.18
	2006	1057	103.27	29	47	189	12.72	20	1.64
	2007	980	96.45	28	47	105	9.82	6	0.39
	2008	2239	219.37	25	47	111	11.40	13	1.16
	2009	1717	169.41	25	47	127	11.15	16	1.54
FC12.5	2005	1091	107.44	33	58	207	17.38	62	5.78
	2006	2878	282.63	24	54	161	11.39	54	4.71
	2007	2201	215.97	27	57	127	12.14	69	6.01
	2008	3104	305.07	26	50	148	13.39	75	6.90
	2009	1830	179.03	26	53	121	12.72	37	3.24

**Table 4 Statewide Statistical Summary for Friction Course Type, by System Type**

	System Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Primary	21436	2100.93	27	52	269	12.32	399	34.55
	Toll	243	22.47	42	58	228	9.80	4	0.10
	Interstate	25539	2472.79	25	51	166	13.87	597	52.07
	Turnpike	2207	209.88	33	54	177	13.31	79	5.95
FC9.5	Primary	6816	669.03	25	47	204	11.47	73	5.92
	Toll	0	0.00	0	0	0	0.00	0	0.00
	Interstate	0	0.00	0	0	0	0.00	0	0.00
	Turnpike	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Primary	11104	1090.14	24	54	207	13.29	297	26.64
	Toll	0	0.00	0	0	0	0.00	0	0.00
	Interstate	0	0.00	0	0	0	0.00	0	0.00
	Turnpike	0	0.00	0	0	0	0.00	0	0.00

**Table 5 Statewide Statistical Summary for Friction Course Type, by Aggregate Type**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limestone	20758	2003.01	28	57	228	13.77	837	72.11
	Granite	28553	2792.28	25	48	269	11.38	241	20.52
	Mixed	114	10.77	37	56	95	9.70	1	0.04
FC9.5	Limestone	1999	194.60	29	51	189	12.51	35	3.02
	Granite	4368	430.13	25	46	147	10.61	32	2.50
	Mixed	449	44.30	31	47	204	10.57	6	0.40
FC12.5	Limestone	2392	234.47	31	55	153	13.86	95	9.03
	Granite	8235	809.13	24	53	207	13.18	195	17.00
	Mixed	477	46.55	33	56	117	11.20	7	0.61

**Table 6 Statewide Statistical Summary for Friction Course Type, by Binder Type**

	Binder Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Asphalt-Rubber	16653	1608.66	27	54	269	13.65	528	44.51
	Polymer-Modified	32772	3197.41	25	50	177	12.74	551	48.16
FC9.5	Asphalt-Rubber	5114	501.45	25	49	204	12.06	67	5.60
	Polymer-Modified	1702	167.58	25	44	189	8.51	6	0.31
FC12.5	Asphalt-Rubber	5693	559.39	24	54	207	12.63	111	9.43
	Polymer-Modified	5411	530.75	26	54	148	13.96	186	17.21

**Table 7 Statewide Statistical Summary for Friction Course Type, by Access Type**

	Access Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limited (Full Control)	28303	2733.79	25	51	228	13.85	698	59.06
	Non-Limited (No Control)	21122	2072.28	27	52	269	12.30	381	33.60
FC9.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	6816	669.03	25	47	204	11.47	73	5.92
FC12.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	11104	1090.14	24	54	207	13.29	297	26.64

**Table 8 Lane Miles Tested Per District, by Friction Course Type**

<b>Total Lane Miles Tested</b>								
Friction Course Type	District 1	District 2	District 3	District 4	District 5	District 6	District 7	District 8
FC5	869.77	822.63	467.64	812.50	1198.89	90.53	334.23	209.88
FC9.5	178.61	76.82	171.91	27.70	167.14	0.00	46.85	0.00
FC12.5	300.08	504.60	66.96	11.32	152.76	8.78	45.63	0.00
<b>Total</b>	<b>1348.45</b>	<b>1404.05</b>	<b>706.52</b>	<b>851.52</b>	<b>1518.78</b>	<b>99.31</b>	<b>426.71</b>	<b>209.88</b>



# Statewide Contractor Statistics

**Table 9 Statewide Statistical Summary for Contractors**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	10622	1031.01	25	53	228	13.35	253	21.62
Ajax Paving Industry	3653	353.09	26	48	269	12.96	57	4.97
Anderson Columbia	15314	1510.37	26	48	161	11.13	157	13.94
The Asphalt Group	440	41.41	50	71	144	10.64	43	3.62
Atlantic Coast	1045	100.45	29	45	99	9.99	5	0.32
Better Roads Inc.	3267	320.13	29	48	198	9.68	19	1.42
C.W.Roberts Contracting	3502	343.98	24	40	101	7.75	6	0.37
Community Asphalt Corp.	4110	398.74	33	62	166	12.66	233	21.07
Condotte America	91	8.55	45	71	117	14.93	16	1.42
D.A.B. Constructors	1281	126.31	33	52	121	9.20	11	0.92
Demoya Group	647	62.51	36	55	111	8.65	5	0.36
Dickerson Asphalt	1158	112.49	32	44	153	8.48	6	0.35
Duval Asphalt	50	4.77	59	81	114	12.86	16	1.45
East Coast Paving	733	68.98	39	62	171	13.59	54	4.50
Elmo Greer	784	77.25	31	46	121	9.26	5	0.50
General Asphalt Company	2140	202.13	36	57	177	12.06	72	5.72

**Table 9 Statewide Statistical Summary for Contractors, continued**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Halifax Paving Inc.	864	85.83	27	47	85	10.89	0	0.00
Hardrives Of Delray	252	23.62	44	65	98	9.93	9	0.80
Hewitt Contracting Co.	292	28.75	34	58	114	9.29	2	0.17
Hubbard Construction	1071	101.86	29	53	125	13.87	36	3.10
John C. Hipp	10	0.95	43	53	74	9.24	0	0.00
Lane Construction Corp.	2549	248.02	33	55	136	11.34	56	4.46
Middlesex Corp.	1047	101.85	32	55	127	11.90	21	1.86
Milestone Southern Paving	72	6.13	44	65	131	12.14	7	0.24
Orlando Paving Company	547	53.76	29	55	112	16.23	32	2.93
Overstreet Paving	44	4.19	42	64	98	14.31	5	0.45
P & S Paving	2823	277.96	28	50	130	11.90	32	2.65
Peavey And Sons	1034	100.14	25	43	130	7.70	1	0.02
Quality Enterprises Usa Inc.	50	4.75	35	49	71	7.53	0	0.00
Ranger Construction	6174	599.17	31	58	151	13.99	283	25.65
Steven Counts Inc.	140	13.96	31	47	85	9.24	0	0.00
Weekly Asphalt Paving	114	10.75	48	66	101	10.07	6	0.32

**Table 9 Statewide Statistical Summary for Contractors, continued**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Whitehurst	1425	141.35	34	53	93	8.58	1	0.05

**Table 10 Statewide Statistical Summary for Friction Course Type, by Contractor**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FCS	A.P.A.C.	8699	842.52	26	54	228	13.39	219	18.86
	Ajax Paving Industry	2704	260.10	27	46	269	10.26	18	1.31
	Anderson Columbia	10620	1047.55	28	47	142	10.55	80	7.16
	The Asphalt Group	440	41.41	50	71	144	10.64	43	3.62
	Atlantic Coast	784	75.05	29	46	99	10.45	5	0.32
	Better Roads Inc.	1416	138.76	30	47	198	9.59	7	0.36
	C.W.Roberts Contracting	2226	218.44	25	38	87	6.81	1	0.02
	Community Asphalt Corp.	3722	360.40	33	63	166	12.73	220	19.77
	Condotte America	91	8.55	45	71	117	14.93	16	1.42
	D.A.B. Constructors	1030	101.96	35	52	101	8.79	6	0.56

**Table 10 Statewide Statistical Summary for Friction Course Type, by Contractor, continued**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FCS	Dickerson Asphalt	993	96.57	32	42	134	5.52	2	0.08
	East Coast Paving	733	68.98	39	62	171	13.59	54	4.50
	Elmo Greer	497	49.20	35	45	76	5.87	0	0.00
	General Asphalt Company	2140	202.13	36	57	177	12.06	72	5.72
	Halifax Paving Inc.	456	45.39	33	52	85	9.96	0	0.00
	Hardrives Of Delray	252	23.62	44	65	98	9.93	9	0.80
	Hewitt Contracting Co.	292	28.75	34	58	114	9.29	2	0.17
	Hubbard Construction	917	87.03	29	54	125	14.06	34	2.99
	Lane Construction Corp.	1388	134.45	33	54	136	10.02	15	1.05
	Middlesex Corp.	774	75.67	32	53	103	10.13	6	0.56
	Milestone Southern Paving	72	6.13	44	65	131	12.14	7	0.24
	Orlando Paving Company	391	38.63	33	59	110	16.05	28	2.75

**Table 10 Statewide Statistical Summary for Friction Course Type, by Contractor, continued**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	P & S Paving	1759	173.40	28	48	125	11.95	18	1.52
	Peavey And Sons	639	61.20	30	43	130	7.56	1	0.02
	Ranger Construction	5671	549.55	31	57	151	13.14	210	18.58
	Weekly Asphalt Paving	114	10.75	48	66	101	10.07	6	0.32
	Whitehurst	605	59.87	34	47	74	5.99	0	0.00
FC9.5	A.P.A.C.	528	52.22	25	42	151	11.59	5	0.39
	Ajax Paving Industry	297	29.36	27	43	204	7.82	1	0.02
	Anderson Columbia	1281	126.21	33	54	147	11.26	22	1.95
	Atlantic Coast	165	15.92	29	41	70	7.67	0	0.00
	Better Roads Inc.	712	69.72	29	44	189	10.16	7	0.57
	C.W.Roberts Contracting	855	84.04	26	42	101	7.91	5	0.35
	Community Asphalt Corp.	138	13.49	42	65	105	11.50	8	0.80

**Table 10 Statewide Statistical Summary for Friction Course Type, by Contractor, continued**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC9.5	Demoya Group	647	62.51	36	55	111	8.65	5	0.36
	Dickerson Asphalt	146	14.20	34	54	127	10.72	2	0.16
	Elmo Greer	99	9.78	31	41	118	9.84	1	0.10
	Halifax Paving Inc.	340	33.66	27	39	64	6.42	0	0.00
	Lane Construction Corp.	518	50.84	33	49	106	10.70	9	0.70
	Middlesex Corp.	113	11.07	34	47	77	8.59	0	0.00
	Orlando Paving Company	52	4.85	35	57	112	14.43	3	0.14
	P & S Paving	340	33.48	31	47	130	11.15	5	0.38
	Peavey And Sons	395	38.94	25	43	72	7.91	0	0.00
	Quality Enterprises Usa Inc.	50	4.75	35	49	71	7.53	0	0.00
	Steven Counts Inc.	140	13.96	31	47	85	9.24	0	0.00

**Table 10 Statewide Statistical Summary for Friction Course Type, by Contractor, continued**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	1395	136.27	32	54	123	11.56	29	2.37
Ajax Paving Industry	652	63.63	26	58	207	18.94	38	3.65
Anderson Columbia	3413	336.61	26	50	161	11.91	55	4.83
Atlantic Coast	96	9.48	32	47	71	7.82	0	0.00
Better Roads Inc.	1139	111.65	31	51	94	8.55	5	0.50
C.W.Roberts Contracting	421	41.51	24	44	75	8.73	0	0.00
Community Asphalt Corp.	250	24.85	37	59	101	11.56	5	0.50
D.A.B. Constructors	251	24.35	33	51	121	10.71	5	0.37
Dickerson Asphalt	19	1.73	54	71	153	13.85	2	0.11
Duval Asphalt	50	4.77	59	81	114	12.86	16	1.45
Elmo Greer	188	18.27	35	52	121	13.15	4	0.40
Halifax Paving Inc.	68	6.77	40	57	75	8.20	0	0.00

FC12.5

**Table 10 Statewide Statistical Summary for Friction Course Type, by Contractor, continued**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC12.5	Hubbard Construction	154	14.83	31	48	91	11.10	2	0.11
	John C. Hipp	10	0.95	43	53	74	9.24	0	0.00
	Lane Construction Corp.	643	62.73	36	61	120	11.60	32	2.70
	Middlesex Corp.	160	15.12	48	67	127	13.06	15	1.30
	Orlando Paving Company	104	10.28	29	42	109	9.39	1	0.04
	Overstreet Paving	44	4.19	42	64	98	14.31	5	0.45
	P & S Paving	724	71.07	33	55	97	10.41	9	0.75
	Ranger Construction	503	49.62	41	69	148	17.83	73	7.07
	Whitehurst	820	81.49	39	56	93	8.15	1	0.05



**Table 11 Statewide Statistical Summary for Aggregate Type, by Contractor**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Limestone	A.P.A.C.	3271	316.04	34	61	228	13.25	177	15.92
	Ajax Paving Industry	258	24.56	34	47	85	8.43	0	0.00
	Anderson Columbia	513	50.78	39	51	116	6.72	1	0.02
	The Asphalt Group	440	41.41	50	71	144	10.64	43	3.62
	Better Roads Inc.	3267	320.13	29	48	198	9.68	19	1.42
	Community Asphalt Corp.	4110	398.74	33	62	166	12.66	233	21.07
	Condotte America	91	8.55	45	71	117	14.93	16	1.42
	Demoya Group	647	62.51	36	55	111	8.65	5	0.36
	Dickerson Asphalt	1158	112.49	32	44	153	8.48	6	0.35
	East Coast Paving	733	68.98	39	62	171	13.59	54	4.50
	Elmo Greer	784	77.25	31	46	121	9.26	5	0.50
General Asphalt Company	2140	202.13	36	57	177	12.06	72	5.72	

**Table 11 Statewide Statistical Summary for Aggregate Type, by Contractor, continued**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Limestone	Hardrives Of Delray	252	23.62	44	65	98	9.93	9	0.80
	Hubbard Construction	387	36.56	33	58	125	15.45	26	2.32
	John C. Hipp	10	0.95	43	53	74	9.24	0	0.00
	Lane Construction Corp.	1850	179.28	33	54	136	10.05	28	2.02
	Milestone Southern Paving	72	6.13	44	65	131	12.14	7	0.24
	P & S Paving	1214	119.92	28	45	125	11.15	10	0.88
	Quality Enterprises Usa Inc.	50	4.75	35	49	71	7.53	0	0.00
	Ranger Construction	3788	366.55	31	61	151	14.78	250	22.68
	Weekly Asphalt Paving	114	10.75	48	66	101	10.07	6	0.32
Granite	A.P.A.C.	7237	704.21	25	50	164	11.95	75	5.67
	Ajax Paving Industry	3286	317.72	26	48	269	13.36	56	4.96
	Anderson Columbia	14801	1459.59	26	48	161	11.24	156	13.92

**Table 11 Statewide Statistical Summary for Aggregate Type, by Contractor, continued**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Granite	Atlantic Coast	1045	100.45	29	45	99	9.99	5	0.32
	C.W.Roberts Contracting	3502	343.98	24	40	101	7.75	6	0.37
	D.A.B. Constructors	1050	103.82	35	52	121	8.94	7	0.61
	Duval Asphalt	50	4.77	59	81	114	12.86	16	1.45
	Halifax Paving Inc.	864	85.83	27	47	85	10.89	0	0.00
	Hewitt Contracting Co.	292	28.75	34	58	114	9.29	2	0.17
	Hubbard Construction	684	65.30	29	50	106	12.01	10	0.78
	Lane Construction Corp.	653	64.36	33	55	120	14.52	28	2.43
	Middlesex Corp.	1047	101.85	32	55	127	11.90	21	1.86
	Orlando Paving Company	547	53.76	29	55	112	16.23	32	2.93
	Overstreet Paving	44	4.19	42	64	98	14.31	5	0.45
P & S Paving	1069	104.88	33	53	108	10.52	14	1.09	

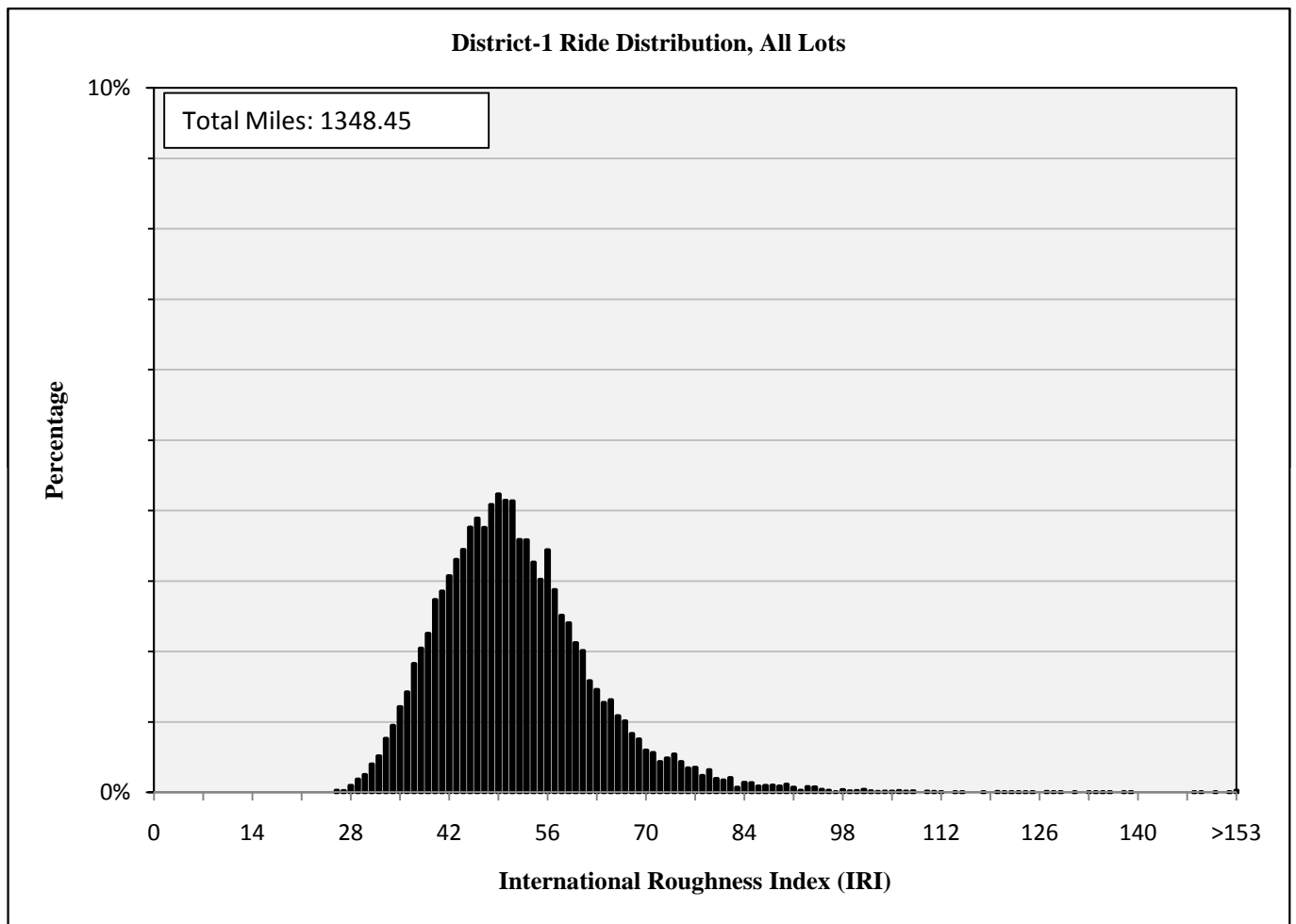
**Table 11 Statewide Statistical Summary for Aggregate Type, by Contractor, continued**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Granite	Peavey And Sons	1034	100.14	25	43	130	7.70	1	0.02
	Ranger Construction	2386	232.62	33	55	124	11.71	33	2.97
	Steven Counts Inc.	140	13.96	31	47	85	9.24	0	0.00
	Whitehurst	1425	141.35	34	53	93	8.58	1	0.05
Mixed	A.P.A.C.	114	10.77	37	56	95	9.70	1	0.04
	Ajax Paving Industry	109	10.82	33	45	204	8.38	1	0.02
	D.A.B. Constructors	231	22.49	33	51	117	10.28	4	0.31
	Lane Construction Corp.	46	4.39	36	52	68	6.13	0	0.00
	P & S Paving	540	53.15	31	53	130	13.04	8	0.68

District

1

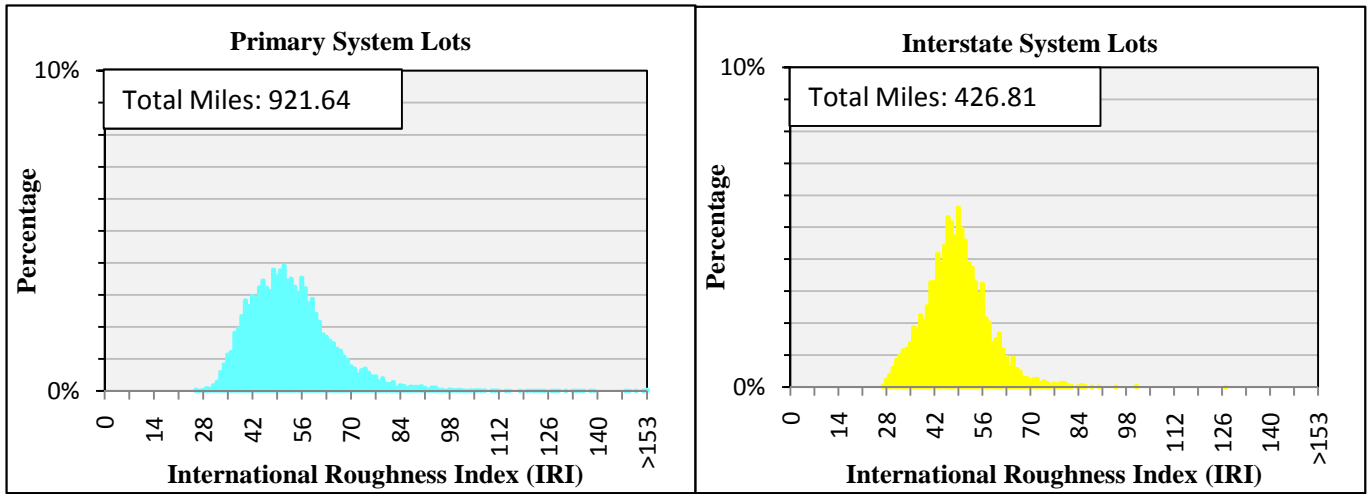
## 1.1 District 1 Ride Distribution



**Figure 9 District 1 Ride Distribution, All Lots**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
All Lots	13870	1348.45	26	52	207	11.73	196	16.99

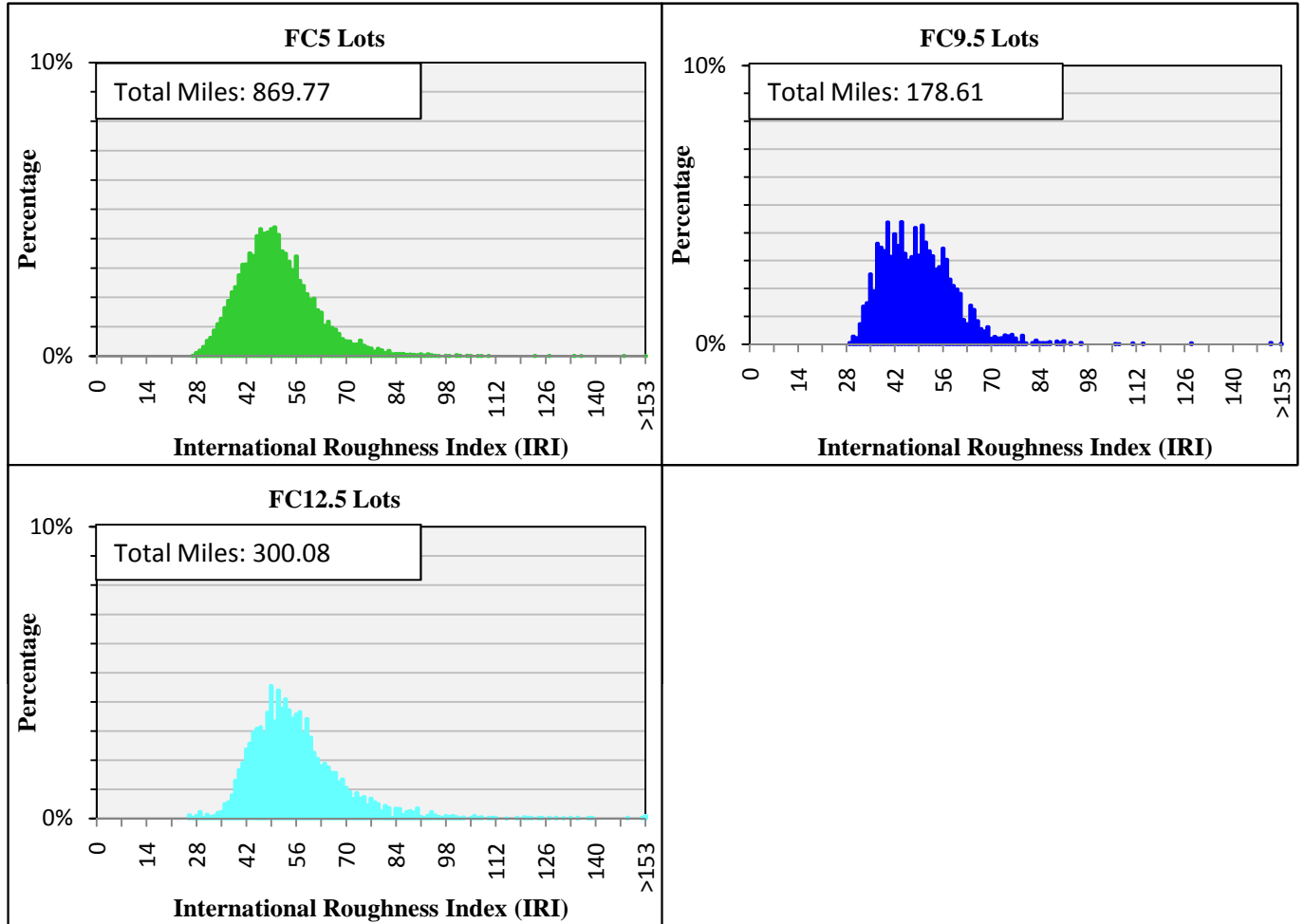
## 1.2 Ride Distribution by System Type



**Figure 10 District 1 Ride Distribution, by System Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Primary	9439	921.64	26	53	207	12.52	187	16.31
Interstate	4431	426.81	27	49	127	9.07	9	0.68

### 1.3 Ride Distribution by Friction Course Type



**Figure 11 District 1 Ride Distribution, by Friction Course Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
							Lots	Miles
FC5	8970	869.77	27	51	198	10.67	75	6.17
FC9.5	1831	178.61	29	49	204	11.03	18	1.33
FC12.5	3069	300.08	26	56	207	13.76	103	9.49

## 1.4 District 1 Statistics

**Table 12 District 1 Statistical Summary for Year**

Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
2005	1853	181.12	33	55	207	13.55	46	4.01
2006	2903	283.01	29	53	198	11.67	46	3.68
2007	2294	225.74	30	51	115	11.46	35	3.12
2008	2878	275.46	31	52	123	9.68	20	1.65
2009	3942	383.12	26	49	110	11.76	49	4.55

**Table 13 District 1 Statistical Summary for System Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Primary	2005	1258	122.70	33	55	207	15.73	44	3.94
	2006	2757	269.71	29	53	198	11.74	46	3.68
	2007	1566	154.02	30	52	115	12.37	32	2.82
	2008	1774	172.22	31	53	123	10.36	17	1.40
	2009	2084	203.00	26	53	110	12.95	48	4.47
Interstate	2005	595	58.43	41	54	127	6.92	2	0.06
	2006	146	13.30	35	52	85	10.27	0	0.00
	2007	728	71.72	30	50	101	8.92	3	0.30
	2008	1104	103.24	33	51	101	8.25	3	0.25
	2009	1858	180.12	27	45	88	8.56	1	0.07



**Table 14 District 1 Statistical Summary for Friction Course Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	2005	1007	97.87	40	56	127	8.76	8	0.58
	2006	989	95.25	34	53	198	9.16	8	0.25
	2007	2067	203.78	30	50	107	10.36	11	1.01
	2008	1538	145.13	31	52	123	9.61	10	0.78
	2009	3369	327.74	27	48	110	11.30	38	3.54
FC9.5	2005	162	15.82	33	49	204	10.39	2	0.05
	2006	699	68.36	29	46	189	11.92	9	0.74
	2007	0	0.00	0	0	0	0.00	0	0.00
	2008	958	93.25	31	51	111	9.70	5	0.36
	2009	12	1.17	40	55	89	16.74	2	0.18
FC12.5	2005	684	67.43	33	55	207	18.65	36	3.38
	2006	1215	119.39	31	56	153	11.58	29	2.69
	2007	227	21.96	37	61	115	16.00	24	2.10
	2008	382	37.08	32	55	94	9.29	5	0.50
	2009	561	54.22	26	56	106	12.03	9	0.82

**Table 15 District 1 Statistical Summary for Friction Course Type, by System Type**

	System Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Primary	4539	442.96	29	53	198	11.67	66	5.48
	Interstate	4431	426.81	27	49	127	9.07	9	0.68
FC9.5	Primary	1831	178.61	29	49	204	11.03	18	1.33
	Interstate	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Primary	3069	300.08	26	56	207	13.76	103	9.49
	Interstate	0	0.00	0	0	0	0.00	0	0.00

**Table 16 District 1 Statistical Summary for Friction Course Type, by Aggregate Type**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limestone	6255	606.37	30	52	198	9.67	38	2.70
	Granite	2715	263.40	27	47	110	11.75	37	3.46
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC9.5	Limestone	1493	145.26	29	50	189	11.45	16	1.29
	Granite	229	22.53	33	47	106	8.36	1	0.03
	Mixed	109	10.82	33	45	204	8.38	1	0.02
FC12.5	Limestone	2099	205.76	31	54	153	11.01	37	3.34
	Granite	924	89.93	26	61	207	17.67	66	6.15
	Mixed	46	4.39	36	52	68	6.13	0	0.00

**Table 17 District 1 Statistical Summary for Friction Course Type, by Binder Type**

	Binder Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Asphalt-Rubber	2860	276.63	30	51	198	10.39	20	1.18
	Polymer-Modified	6110	593.14	27	50	110	10.77	55	4.98
FC9.5	Asphalt-Rubber	1690	164.85	29	49	204	11.13	17	1.31
	Polymer-Modified	141	13.76	33	52	189	9.19	1	0.02
FC12.5	Asphalt-Rubber	1832	179.75	31	55	207	13.80	51	4.59
	Polymer-Modified	1237	120.33	26	57	133	13.62	52	4.91

**Table 18 District 1 Statistical Summary for Friction Course Type, by Access Type**

	Access Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limited (Full Control)	4561	438.94	27	49	127	9.34	17	1.28
	Non-Limited (No Control)	4409	430.83	29	52	198	11.60	58	4.88
FC9.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	1831	178.61	29	49	204	11.03	18	1.33
FC12.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	3069	300.08	26	56	207	13.76	103	9.49

## 1.5 District 1 Contractor Statistics

**Table 19 District 1 Statistical Summary for Contractors**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	3507	341.14	29	54	151	10.76	37	3.32
Ajax Paving Industry	2395	231.17	26	48	207	14.12	46	4.14
Better Roads Inc.	3267	320.13	29	48	198	9.68	19	1.42
Community Asphalt Corp.	136	13.53	42	60	96	10.21	2	0.20
Demoya Group	647	62.51	36	55	111	8.65	5	0.36
Dickerson Asphalt	19	1.73	54	71	153	13.85	2	0.11
Elmo Greer	108	10.62	36	50	81	9.70	0	0.00
General Asphalt Company	1424	137.07	36	52	101	7.81	5	0.47
Lane Construction Corp.	2156	209.73	33	55	136	11.35	47	3.69
Orlando Paving Company	155	15.48	42	72	110	14.80	27	2.69
Quality Enterprises Usa Inc.	50	4.75	35	49	71	7.53	0	0.00
Ranger Construction	6	0.60	94	113	133	15.03	6	0.60

**Table 20 District 1 Statistical Summary for Friction Course Type, by Contractor**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	A.P.A.C.	2913	283.41	29	53	127	9.89	13	1.03
	Ajax Paving Industry	1778	170.59	27	45	107	9.95	9	0.67
	Better Roads Inc.	1416	138.76	30	47	198	9.59	7	0.36
	General Asphalt Company	1424	137.07	36	52	101	7.81	5	0.47
	Lane Construction Corp.	1284	124.47	33	53	136	10.15	14	0.95
	Orlando Paving Company	155	15.48	42	72	110	14.80	27	2.69
FC9.5	A.P.A.C.	84	8.27	36	56	151	16.97	4	0.36
	Ajax Paving Industry	109	10.82	33	45	204	8.38	1	0.02
	Better Roads Inc.	712	69.72	29	44	189	10.16	7	0.57
	Demoya Group	647	62.51	36	55	111	8.65	5	0.36
	Lane Construction Corp.	229	22.53	33	47	106	8.36	1	0.03
	Quality Enterprises Usa Inc.	50	4.75	35	49	71	7.53	0	0.00

**Table 20 District 1 Statistical Summary for Friction Course Type, by Contractor, continued**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC12.5	A.P.A.C.	510	49.46	37	59	111	12.64	20	1.93
	Ajax Paving Industry	508	49.77	26	58	207	20.54	36	3.45
	Better Roads Inc.	1139	111.65	31	51	94	8.55	5	0.50
	Community Asphalt Corp.	136	13.53	42	60	96	10.21	2	0.20
	Dickerson Asphalt	19	1.73	54	71	153	13.85	2	0.11
	Elmo Greer	108	10.62	36	50	81	9.70	0	0.00
	Lane Construction Corp.	643	62.73	36	61	120	11.60	32	2.70
	Ranger Construction	6	0.60	94	113	133	15.03	6	0.60

**Table 21 District 1 Statistical Summary for Aggregate Type, by Contractor**

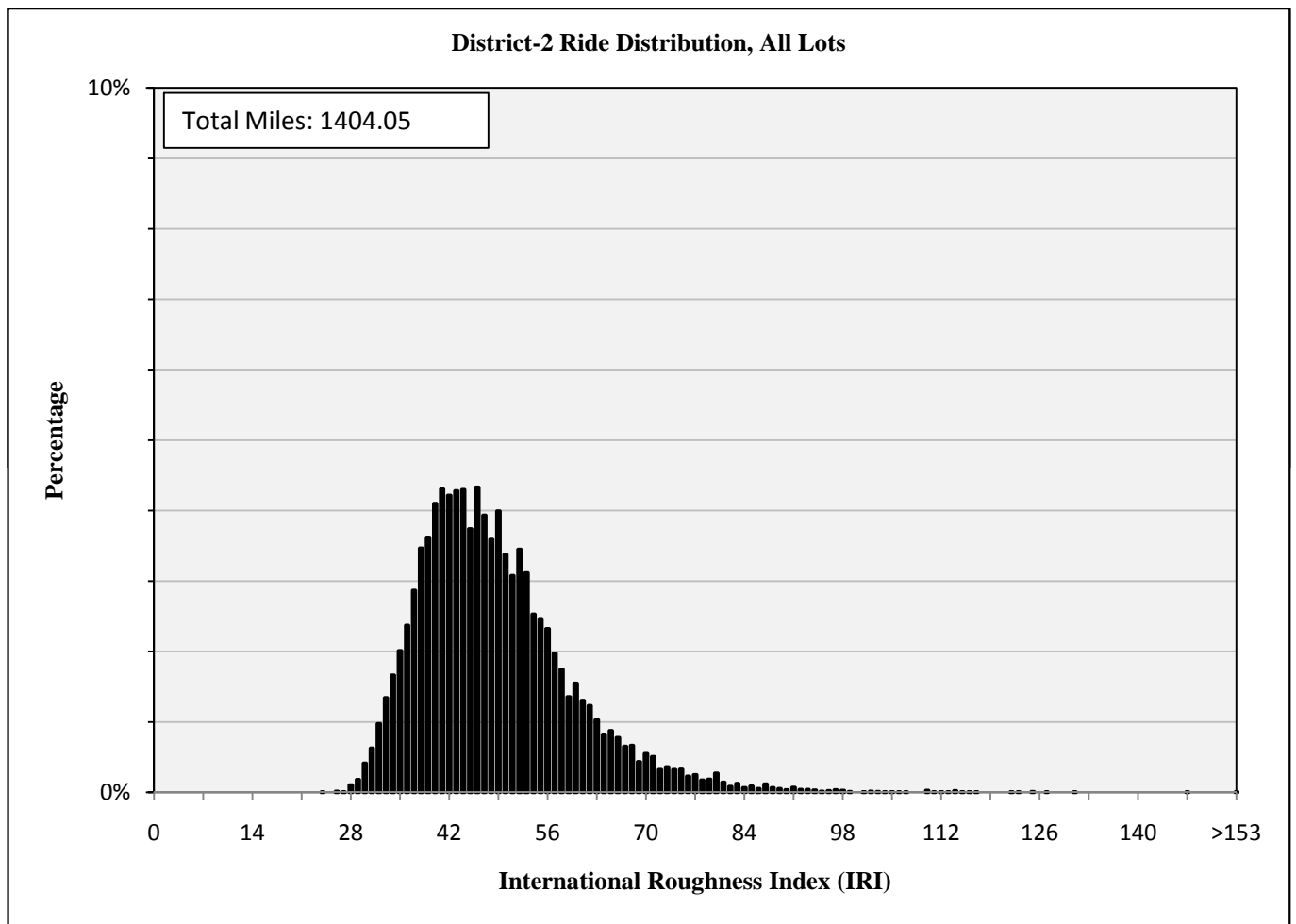
	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Limestone	A.P.A.C.	2309	224.47	34	57	151	10.08	33	2.92
	Ajax Paving Industry	258	24.56	34	47	85	8.43	0	0.00
	Better Roads Inc.	3267	320.13	29	48	198	9.68	19	1.42
	Community Asphalt Corp.	136	13.53	42	60	96	10.21	2	0.20
	Demoya Group	647	62.51	36	55	111	8.65	5	0.36
	Dickerson Asphalt	19	1.73	54	71	153	13.85	2	0.11
	Elmo Greer	108	10.62	36	50	81	9.70	0	0.00
	General Asphalt Company	1424	137.07	36	52	101	7.81	5	0.47
	Lane Construction Corp.	1623	157.43	33	54	136	9.78	19	1.25
	Quality Enterprises Usa Inc.	50	4.75	35	49	71	7.53	0	0.00
	Ranger Construction	6	0.60	94	113	133	15.03	6	0.60

**Table 21 District 1 Statistical Summary for Aggregate Type, by Contractor, continued**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Granite	A.P.A.C.	1198	116.67	29	48	106	9.53	4	0.40
	Ajax Paving Industry	2028	195.80	26	48	207	14.90	45	4.12
	Lane Construction Corp.	487	47.92	33	59	120	15.07	28	2.43
	Orlando Paving Company	155	15.48	42	72	110	14.80	27	2.69
Mixed	Ajax Paving Industry	109	10.82	33	45	204	8.38	1	0.02
	Lane Construction Corp.	46	4.39	36	52	68	6.13	0	0.00



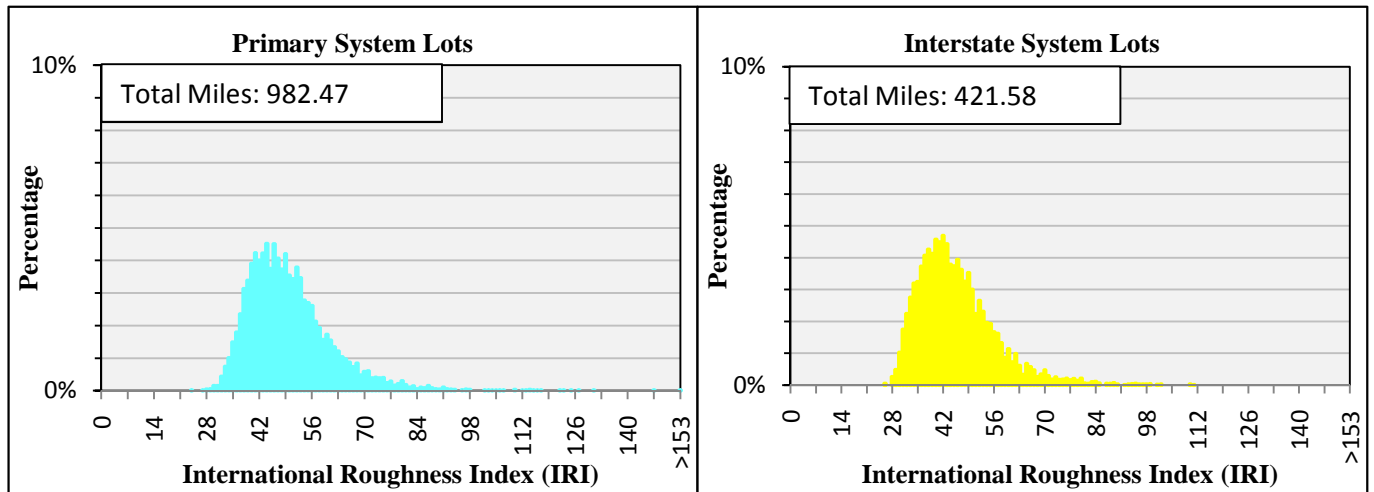
## 2.1 District 2 Ride Distribution



**Figure 12 District 2 Ride Distribution, All Lots**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
All Lots	14306	1404.05	24	49	161	10.97	140	10.97

## 2.2 Ride Distribution by System Type



**Figure 13 District 2 Ride Distribution, by System Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Primary	9971	982.47	24	50	161	10.90	113	9.00
Interstate	4335	421.58	26	46	111	10.50	27	1.97

## 2.3 Ride Distribution by Friction Course Type

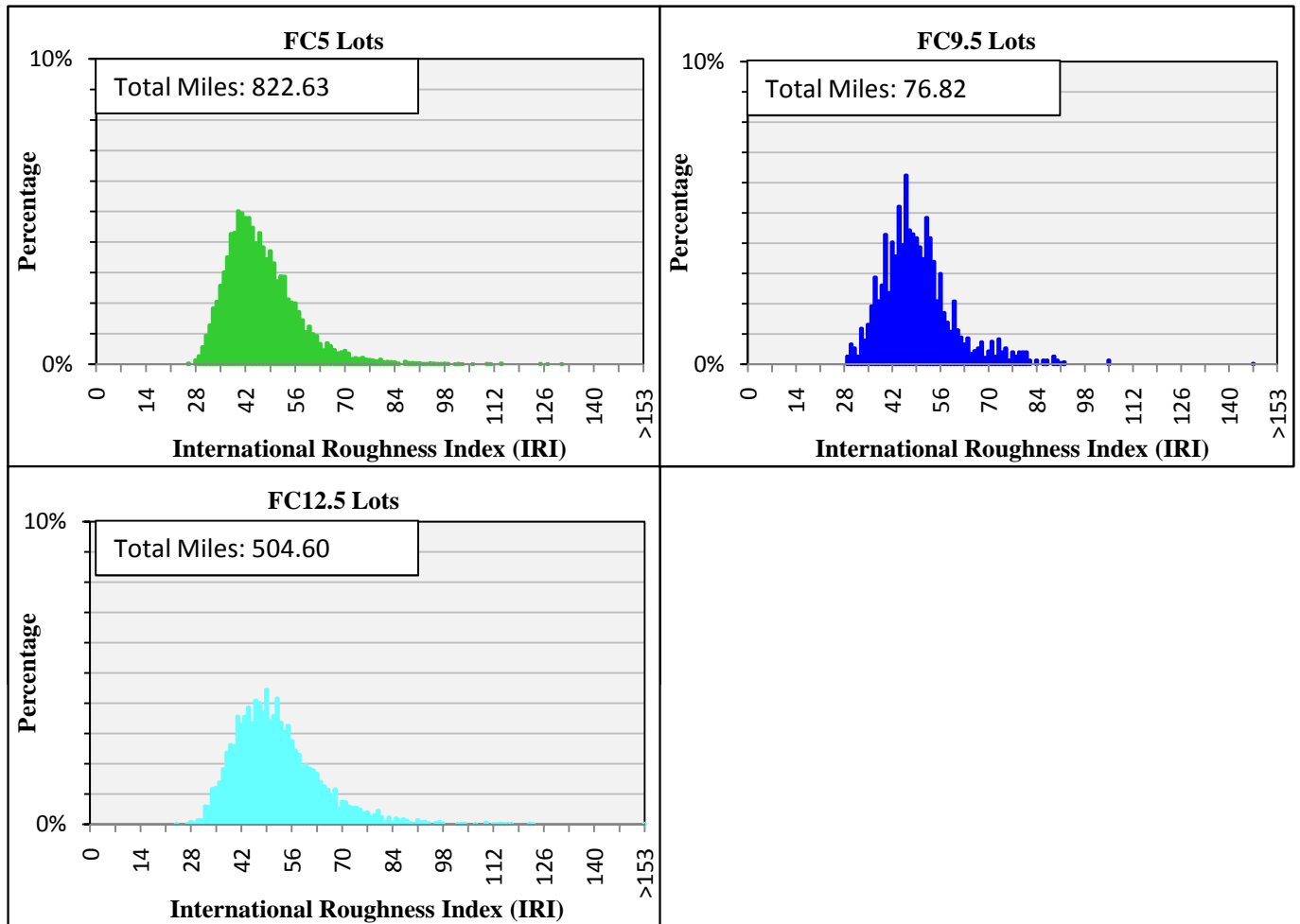


Figure 14 District 2 Ride Distribution, by Friction Course Type

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
FC5	8402	822.63	26	47	131	10.11	54	4.03
FC9.5	786	76.82	29	50	147	10.77	10	0.69
FC12.5	5118	504.60	24	52	161	11.59	76	6.25

## 2.4 District 2 Statistics

**Table 22 District 2 Statistical Summary for Year**

Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
2005	1675	162.78	29	53	147	11.88	36	2.48
2006	2496	246.17	24	50	161	11.09	27	2.23
2007	5048	495.64	28	49	122	9.80	34	2.70
2008	3469	339.94	26	47	110	11.21	25	1.93
2009	1618	159.52	28	45	114	11.21	18	1.65

**Table 23 District 2 Statistical Summary for System Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Primary	2005	1201	117.41	31	52	147	11.83	28	1.93
	2006	2076	204.64	24	52	161	10.49	27	2.23
	2007	3015	297.56	30	50	122	10.49	26	2.10
	2008	2293	225.93	28	49	104	10.38	14	1.10
	2009	1386	136.92	28	47	114	11.35	18	1.65
Interstate	2005	474	45.36	29	55	97	11.69	8	0.55
	2006	420	41.53	28	38	57	5.13	0	0.00
	2007	2033	198.08	28	47	111	8.29	8	0.59
	2008	1176	114.01	26	44	110	12.08	11	0.82
	2009	232	22.60	28	39	66	7.21	0	0.00

**Table 24 District 2 Statistical Summary for Friction Course Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
								Lots	Miles
FC5	2005	1082	104.45	29	51	131	11.88	19	1.11
	2006	1141	112.85	28	48	125	11.80	11	1.05
	2007	3596	352.63	28	46	111	8.07	11	0.85
	2008	1616	157.49	26	46	110	11.57	13	1.02
	2009	967	95.21	28	42	83	7.33	0	0.00
FC9.5	2005	397	38.85	33	53	147	11.08	8	0.56
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	224	22.04	30	49	105	8.36	2	0.13
	2008	165	15.92	29	41	70	7.67	0	0.00
	2009	0	0.00	0	0	0	0.00	0	0.00
FC12.5	2005	196	19.48	41	58	104	11.36	9	0.81
	2006	1355	133.32	24	51	161	10.29	16	1.17
	2007	1228	120.97	32	56	122	10.73	21	1.71
	2008	1688	166.53	28	49	104	10.83	12	0.90
	2009	651	64.31	28	50	114	14.08	18	1.65

**Table 25 District 2 Statistical Summary for Friction Course Type, by System Type**

	System Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
								Lots	Miles
FC5	Primary	4067	401.05	29	48	131	9.56	27	2.06
	Interstate	4335	421.58	26	46	111	10.50	27	1.97
FC9.5	Primary	786	76.82	29	50	147	10.77	10	0.69
	Interstate	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Primary	5118	504.60	24	52	161	11.59	76	6.25
	Interstate	0	0.00	0	0	0	0.00	0	0.00

**Table 26 District 2 Statistical Summary for Friction Course Type, by Aggregate Type**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limestone	348	33.39	42	59	131	11.51	15	0.99
	Granite	8054	789.24	26	46	127	9.70	39	3.05
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC9.5	Limestone	0	0.00	0	0	0	0.00	0	0.00
	Granite	786	76.82	29	50	147	10.77	10	0.69
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Limestone	10	0.95	43	53	74	9.24	0	0.00
	Granite	4996	492.55	24	51	161	11.43	73	5.95
	Mixed	112	11.10	43	66	97	9.43	3	0.30

**Table 27 District 2 Statistical Summary for Friction Course Type, by Binder Type**

	Binder Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Asphalt-Rubber	836	80.86	29	49	131	11.77	12	0.65
	Polymer-Modified	7566	741.77	26	46	125	9.86	42	3.38
FC9.5	Asphalt-Rubber	562	54.77	29	50	147	11.57	8	0.56
	Polymer-Modified	224	22.04	30	49	105	8.36	2	0.13
FC12.5	Asphalt-Rubber	2031	200.77	24	51	161	10.98	19	1.43
	Polymer-Modified	3087	303.83	29	52	123	11.94	57	4.82

**Table 28 District 2 Statistical Summary for Friction Course Type, by Access Type**

	Access Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limited (Full Control)	4407	427.71	26	46	131	10.76	34	2.21
	Non-Limited (No Control)	3995	394.92	29	47	127	9.27	20	1.83
FC9.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	786	76.82	29	50	147	10.77	10	0.69
FC12.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	5118	504.60	24	52	161	11.59	76	6.25

## 2.5 District 2 Contractor Statistics

**Table 29 District 2 Statistical Summary for Contractors**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	2277	220.30	26	46	123	11.46	23	1.39
Anderson Columbia	7868	776.95	28	48	161	10.49	72	6.07
Atlantic Coast	1045	100.45	29	45	99	9.99	5	0.32
C.W.Roberts Contracting	225	22.27	24	45	75	8.86	0	0.00
D.A.B. Constructors	372	37.12	37	50	87	6.45	1	0.10
Duval Asphalt	50	4.77	59	81	114	12.86	16	1.45
Hubbard Construction	574	55.40	29	49	94	11.04	4	0.31
John C. Hipp	10	0.95	43	53	74	9.24	0	0.00
Milestone Southern Paving	72	6.13	44	65	131	12.14	7	0.24
P & S Paving	388	38.36	42	60	125	11.24	11	1.05
Whitehurst	1425	141.35	34	53	93	8.58	1	0.05



**Table 30 District 2 Statistical Summary for Friction Course Type, by Contractor**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	A.P.A.C.	1464	140.53	26	44	111	11.98	15	1.05
	Anderson Columbia	4409	436.10	28	46	127	9.00	16	1.38
	Atlantic Coast	784	75.05	29	46	99	10.45	5	0.32
	D.A.B. Constructors	372	37.12	37	50	87	6.45	1	0.10
	Hubbard Construction	420	40.58	29	50	94	10.94	2	0.20
	Milestone Southern Paving	72	6.13	44	65	131	12.14	7	0.24
	P & S Paving	276	27.26	42	57	125	10.96	8	0.75
	Whitehurst	605	59.87	34	47	74	5.99	0	0.00
FC9.5	A.P.A.C.	92	8.93	30	46	91	7.15	1	0.03
	Anderson Columbia	529	51.97	33	53	147	10.58	9	0.66
	Atlantic Coast	165	15.92	29	41	70	7.67	0	0.00

**Table 30 District 2 Statistical Summary for Friction Course Type, by Contractor, continued**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC12.5	A.P.A.C.	721	70.84	32	50	123	9.52	7	0.31
	Anderson Columbia	2930	288.88	28	50	161	11.70	47	4.03
	Atlantic Coast	96	9.48	32	47	71	7.82	0	0.00
	C.W.Roberts Contracting	225	22.27	24	45	75	8.86	0	0.00
	Duval Asphalt	50	4.77	59	81	114	12.86	16	1.45
	Hubbard Construction	154	14.83	31	48	91	11.10	2	0.11
	John C. Hipp	10	0.95	43	53	74	9.24	0	0.00
	P & S Paving	112	11.10	43	66	97	9.43	3	0.30
	Whitehurst	820	81.49	39	56	93	8.15	1	0.05

**Table 31 District 2 Statistical Summary for Aggregate Type, by Contractor**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Limestone	John C. Hipp	10	0.95	43	53	74	9.24	0	0.00
	Milestone Southern Paving	72	6.13	44	65	131	12.14	7	0.24
	P & S Paving	276	27.26	42	57	125	10.96	8	0.75
Granite	A.P.A.C.	2277	220.30	26	46	123	11.46	23	1.39
	Anderson Columbia	7868	776.95	28	48	161	10.49	72	6.07
	Atlantic Coast	1045	100.45	29	45	99	9.99	5	0.32
	C.W.Roberts Contracting	225	22.27	24	45	75	8.86	0	0.00
	D.A.B. Constructors	372	37.12	37	50	87	6.45	1	0.10
	Duval Asphalt	50	4.77	59	81	114	12.86	16	1.45
	Hubbard Construction	574	55.40	29	49	94	11.04	4	0.31
	Whitehurst	1425	141.35	34	53	93	8.58	1	0.05
Mixed	P & S Paving	112	11.10	43	66	97	9.43	3	0.30

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### 3.1 District 3 Ride Distribution

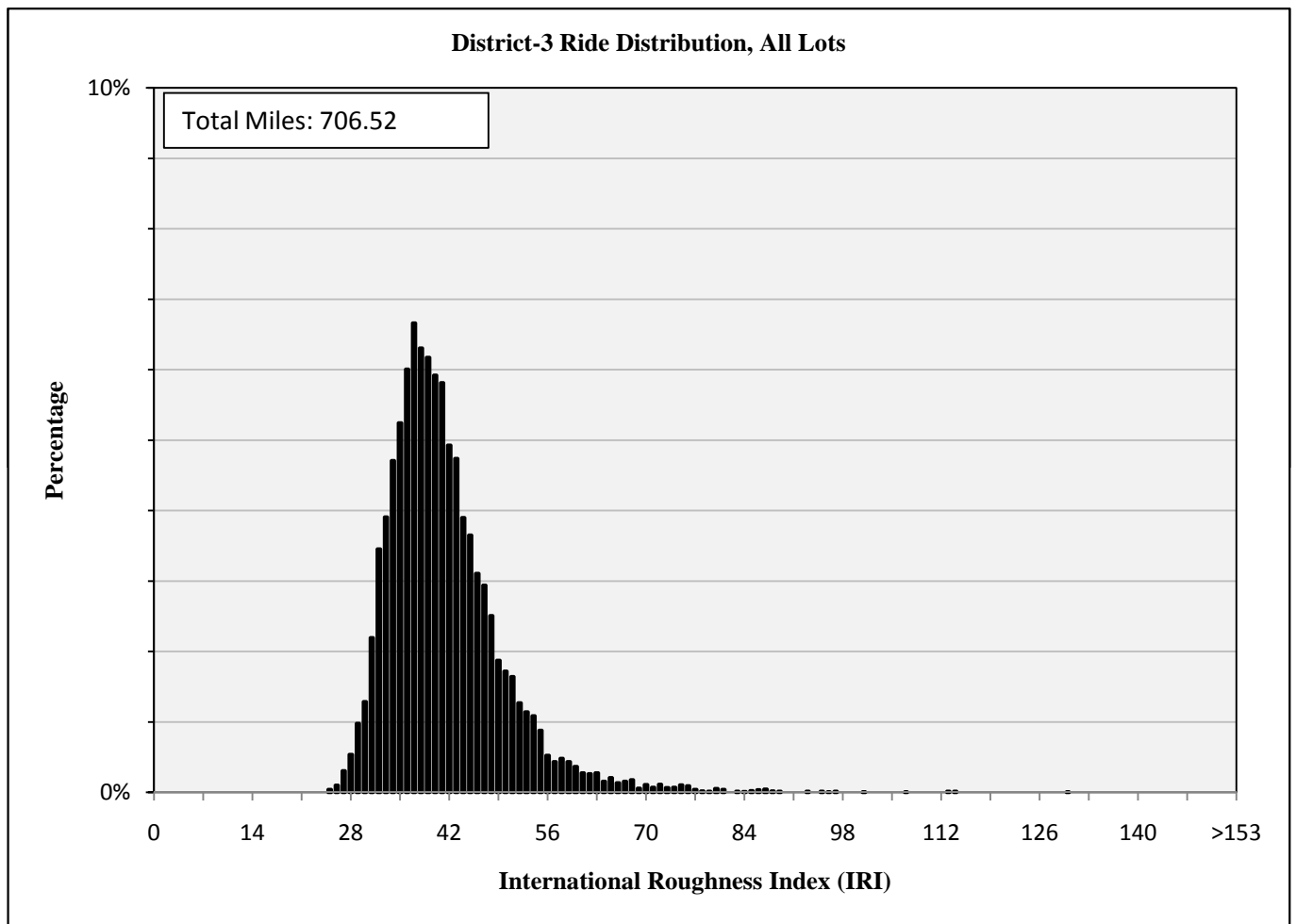
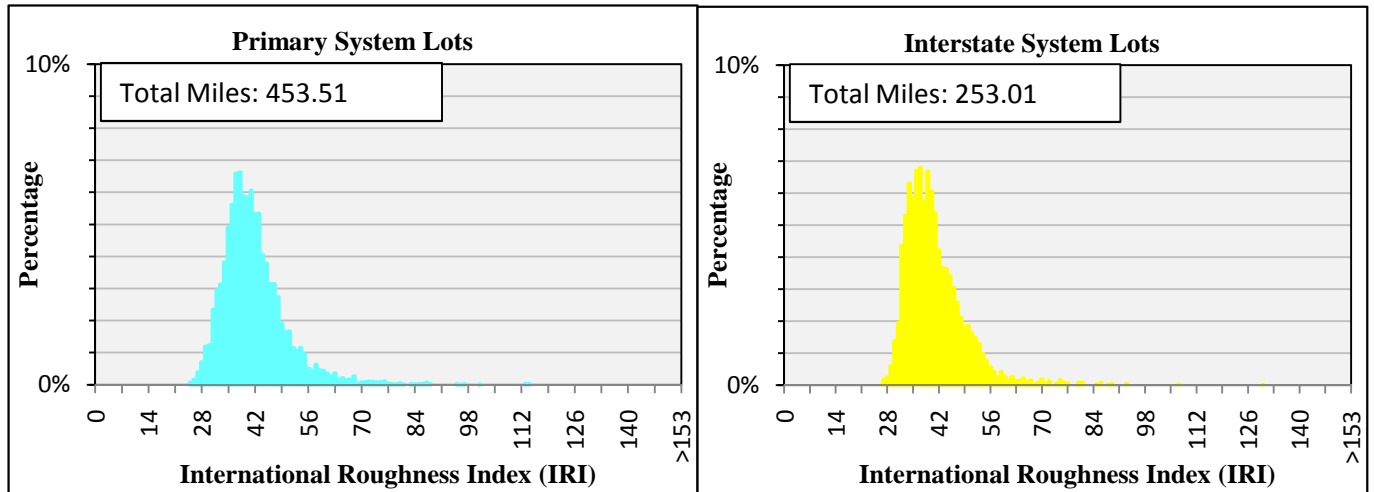


Figure 15 District 3 Ride Distribution, All Lots

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
All Lots	7199	706.52	25	41	130	8.15	19	1.42

### 3.2 Ride Distribution by System Type



**Figure 16 District 3 Ride Distribution, by System Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
							Lots	Miles
Primary	4598	453.51	25	42	114	8.29	12	0.98
Interstate	2601	253.01	27	41	130	7.87	7	0.44

### 3.3 Ride Distribution by Friction Course Type

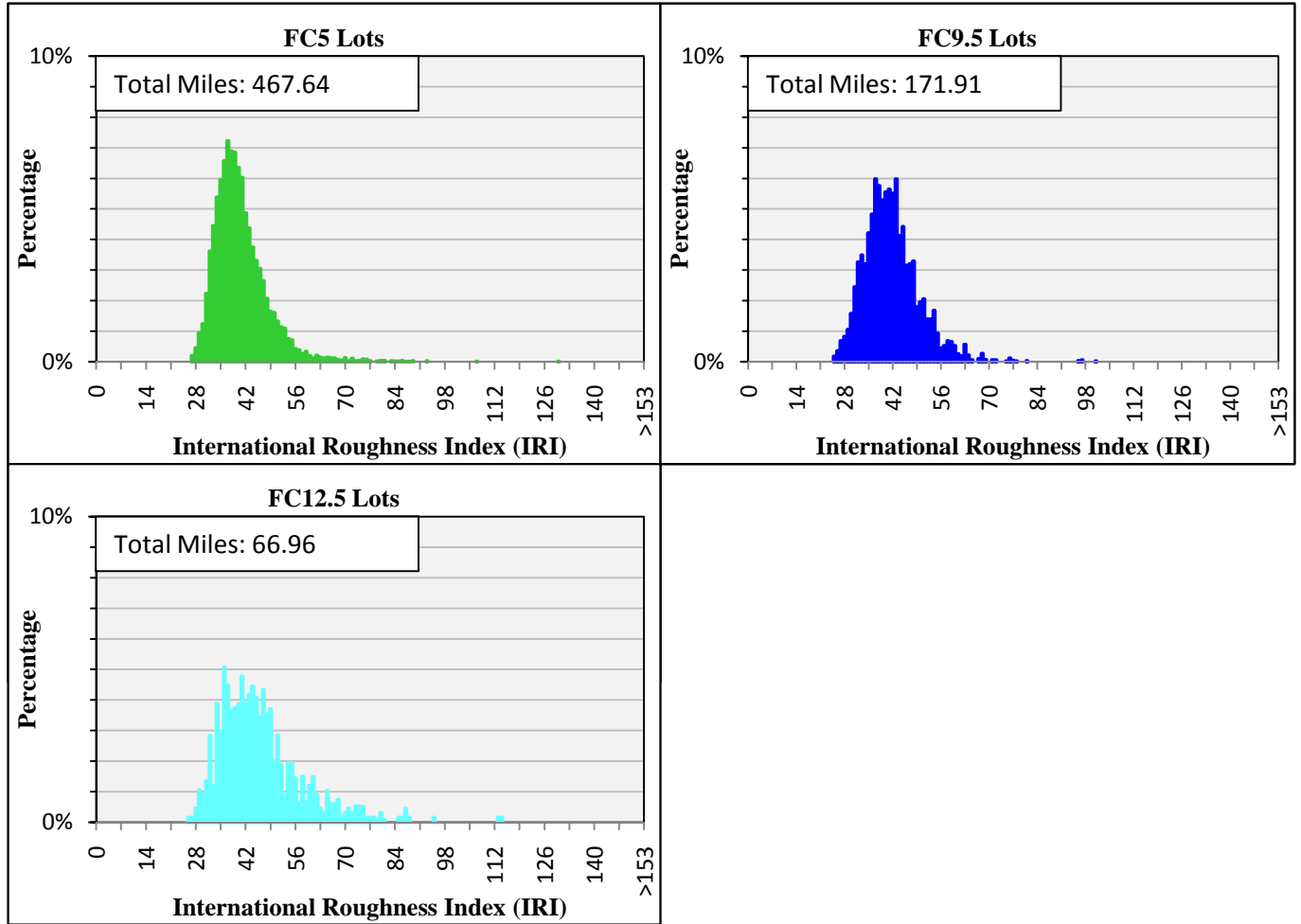


Figure 17 District 3 Ride Distribution, by Friction Course Type

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
							Lots	Miles
FC5	4779	467.64	27	40	130	7.34	8	0.46
FC9.5	1741	171.91	25	42	101	7.90	3	0.16
FC12.5	679	66.96	26	46	114	11.78	8	0.80

### 3.4 District 3 Statistics

**Table 32 District 3 Statistical Summary for Year**

Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
2005	78	7.67	41	59	87	10.13	1	0.10
2006	341	32.78	34	46	77	5.67	0	0.00
2007	2233	220.02	27	41	114	7.98	8	0.66
2008	2103	206.16	25	40	107	7.87	7	0.53
2009	2444	239.89	25	41	130	7.84	3	0.13

**Table 33 District 3 Statistical Summary for System Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Primary	2005	78	7.67	41	59	87	10.13	1	0.10
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	1863	183.81	27	42	114	8.14	8	0.66
	2008	988	97.57	25	40	95	7.20	1	0.10
	2009	1669	164.46	25	41	97	7.89	2	0.12
Interstate	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	341	32.78	34	46	77	5.67	0	0.00
	2007	370	36.21	28	37	75	5.28	0	0.00
	2008	1115	108.59	27	41	107	8.40	6	0.43
	2009	775	75.43	28	40	130	7.74	1	0.02



**Table 34 District 3 Statistical Summary for Friction Course Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
								Lots	Miles
FC5	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	341	32.78	34	46	77	5.67	0	0.00
	2007	1540	152.09	28	40	79	6.07	0	0.00
	2008	1381	134.89	27	41	107	7.99	6	0.43
	2009	1517	147.89	27	40	130	7.65	2	0.03
FC9.5	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	496	48.70	28	43	101	7.86	2	0.06
	2008	498	49.08	25	39	67	6.96	0	0.00
	2009	747	74.15	25	42	97	8.05	1	0.10
FC12.5	2005	78	7.67	41	59	87	10.13	1	0.10
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	197	19.24	27	50	114	13.10	6	0.60
	2008	224	22.20	26	39	95	8.59	1	0.10
	2009	180	17.85	28	44	68	6.88	0	0.00

**Table 35 District 3 Statistical Summary for Friction Course Type, by System Type**

	System Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
								Lots	Miles
FC5	Primary	2178	214.63	27	40	87	6.61	1	0.02
	Interstate	2601	253.01	27	41	130	7.87	7	0.44
FC9.5	Primary	1741	171.91	25	42	101	7.90	3	0.16
	Interstate	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Primary	679	66.96	26	46	114	11.78	8	0.80
	Interstate	0	0.00	0	0	0	0.00	0	0.00

**Table 36 District 3 Statistical Summary for Friction Course Type, by Aggregate Type**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limestone	0	0.00	0	0	0	0.00	0	0.00
	Granite	4779	467.64	27	40	130	7.34	8	0.46
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC9.5	Limestone	0	0.00	0	0	0	0.00	0	0.00
	Granite	1741	171.91	25	42	101	7.90	3	0.16
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Limestone	0	0.00	0	0	0	0.00	0	0.00
	Granite	679	66.96	26	46	114	11.78	8	0.80
	Mixed	0	0.00	0	0	0	0.00	0	0.00

**Table 37 District 3 Statistical Summary for Friction Course Type, by Binder Type**

	Binder Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Asphalt-Rubber	1153	112.96	27	41	87	7.42	1	0.02
	Polymer-Modified	3626	354.68	27	40	130	7.28	7	0.44
FC9.5	Asphalt-Rubber	404	40.14	25	40	78	8.67	0	0.00
	Polymer-Modified	1337	131.78	25	42	101	7.57	3	0.16
FC12.5	Asphalt-Rubber	242	23.79	27	49	87	11.88	1	0.10
	Polymer-Modified	437	43.17	26	44	114	11.39	7	0.70

**Table 38 District 3 Statistical Summary for Friction Course Type, by Access Type**

	Access Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limited (Full Control)	2601	253.01	27	41	130	7.87	7	0.44
	Non-Limited (No Control)	2178	214.63	27	40	87	6.61	1	0.02
FC9.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	1741	171.91	25	42	101	7.90	3	0.16
FC12.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	679	66.96	26	46	114	11.78	8	0.80

### 3.5 District 3 Contractor Statistics

**Table 39 District 3 Statistical Summary for Contractors**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	352	35.02	25	37	63	6.81	0	0.00
Anderson Columbia	3120	306.56	26	43	114	8.61	14	1.22
C.W.Roberts Contracting	2693	264.80	26	40	101	7.45	4	0.18
Peavey And Sons	1034	100.14	25	43	130	7.70	1	0.02

**Table 40 District 3 Statistical Summary for Friction Course Type, by Contractor**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Anderson Columbia	2461	241.44	28	41	107	7.15	6	0.43
	C.W.Roberts Contracting	1679	165.00	27	38	87	6.91	1	0.02
	Peavey And Sons	639	61.20	30	43	130	7.56	1	0.02
FC9.5	A.P.A.C.	352	35.02	25	37	63	6.81	0	0.00
	Anderson Columbia	176	17.39	35	47	78	7.74	0	0.00
	C.W.Roberts Contracting	818	80.56	26	42	101	7.45	3	0.16
	Peavey And Sons	395	38.94	25	43	72	7.91	0	0.00

**Table 40 District 3 Statistical Summary for Friction Course Type, by Contractor, continued**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC12.5	Anderson Columbia	483	47.73	26	47	114	12.73	8	0.80
	C.W.Roberts Contracting	196	19.24	27	44	75	8.55	0	0.00

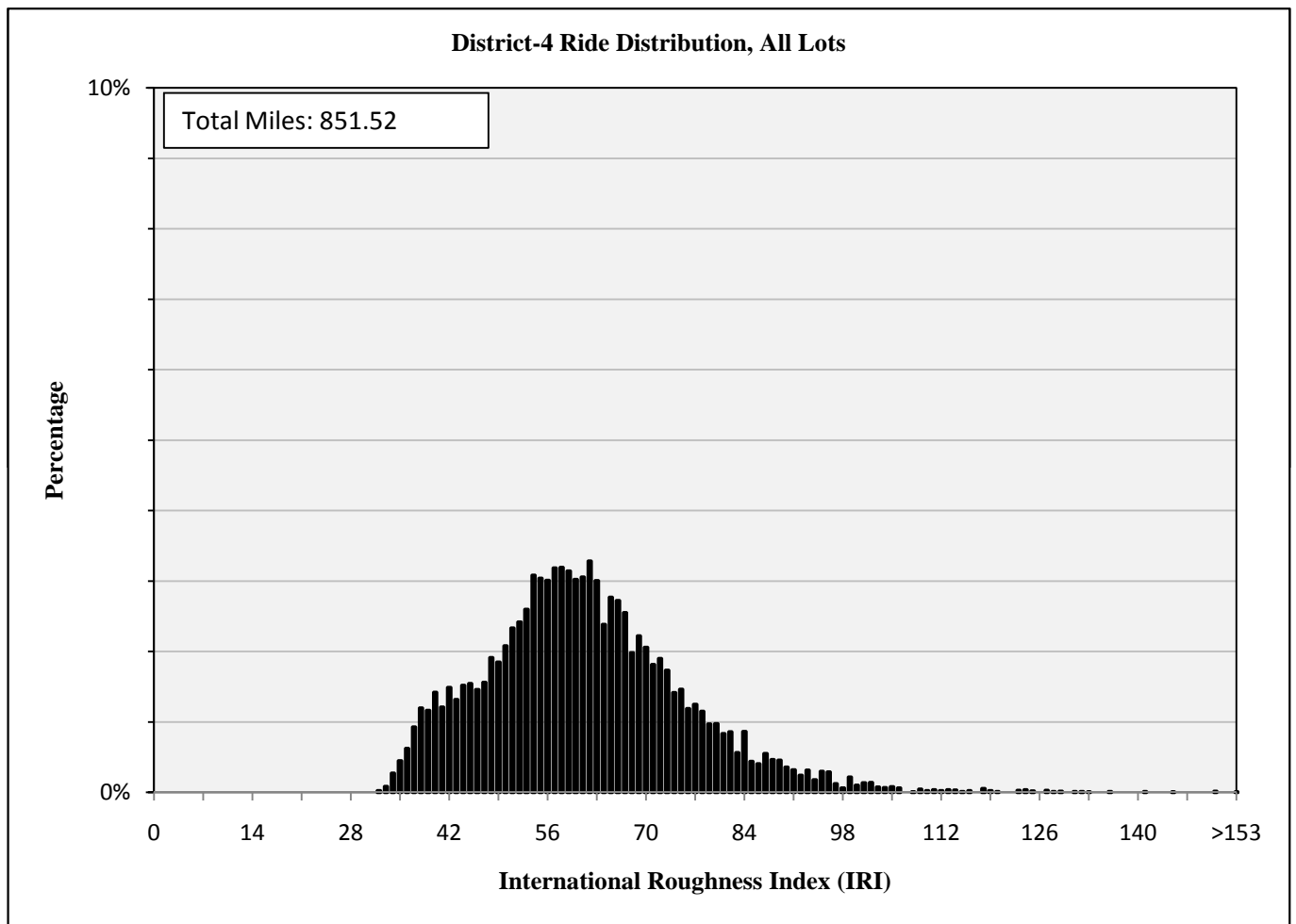
**Table 41 District 3 Statistical Summary for Aggregate Type, by Contractor**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Granite	A.P.A.C.	352	35.02	25	37	63	6.81	0	0.00
	Anderson Columbia	3120	306.56	26	43	114	8.61	14	1.22
	C.W.Roberts Contracting	2693	264.80	26	40	101	7.45	4	0.18
	Peavey And Sons	1034	100.14	25	43	130	7.70	1	0.02

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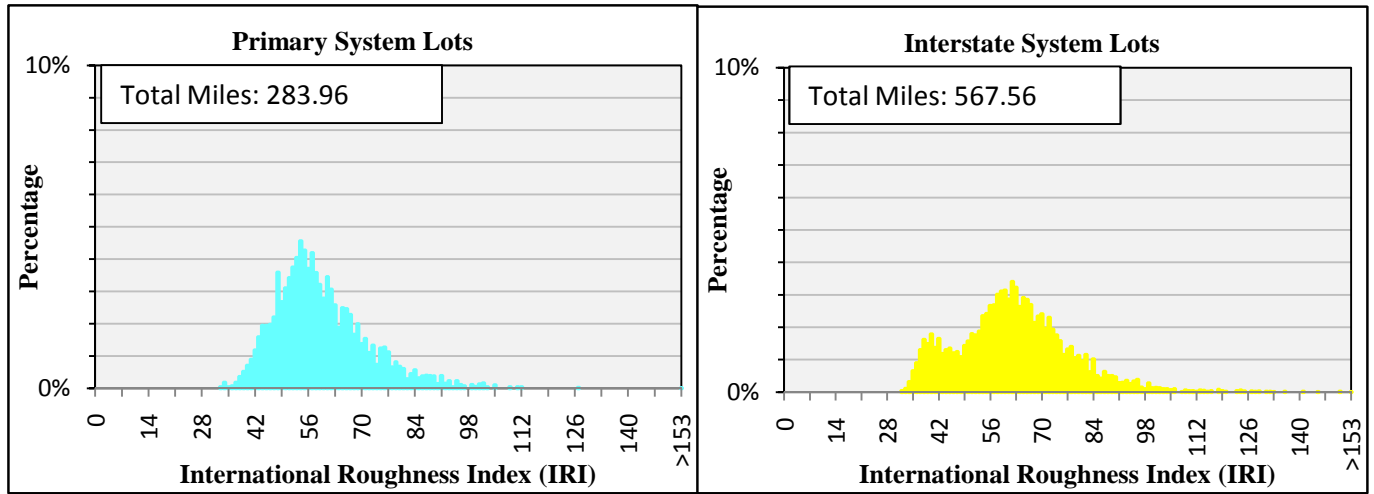
### 4.1 District 4 Ride Distribution



**Figure 18 District 4 Ride Distribution, All Lots**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
							Lots	Miles
All Lots	8857	851.52	32	61	171	14.24	527	46.65

## 4.2 Ride Distribution by System Type

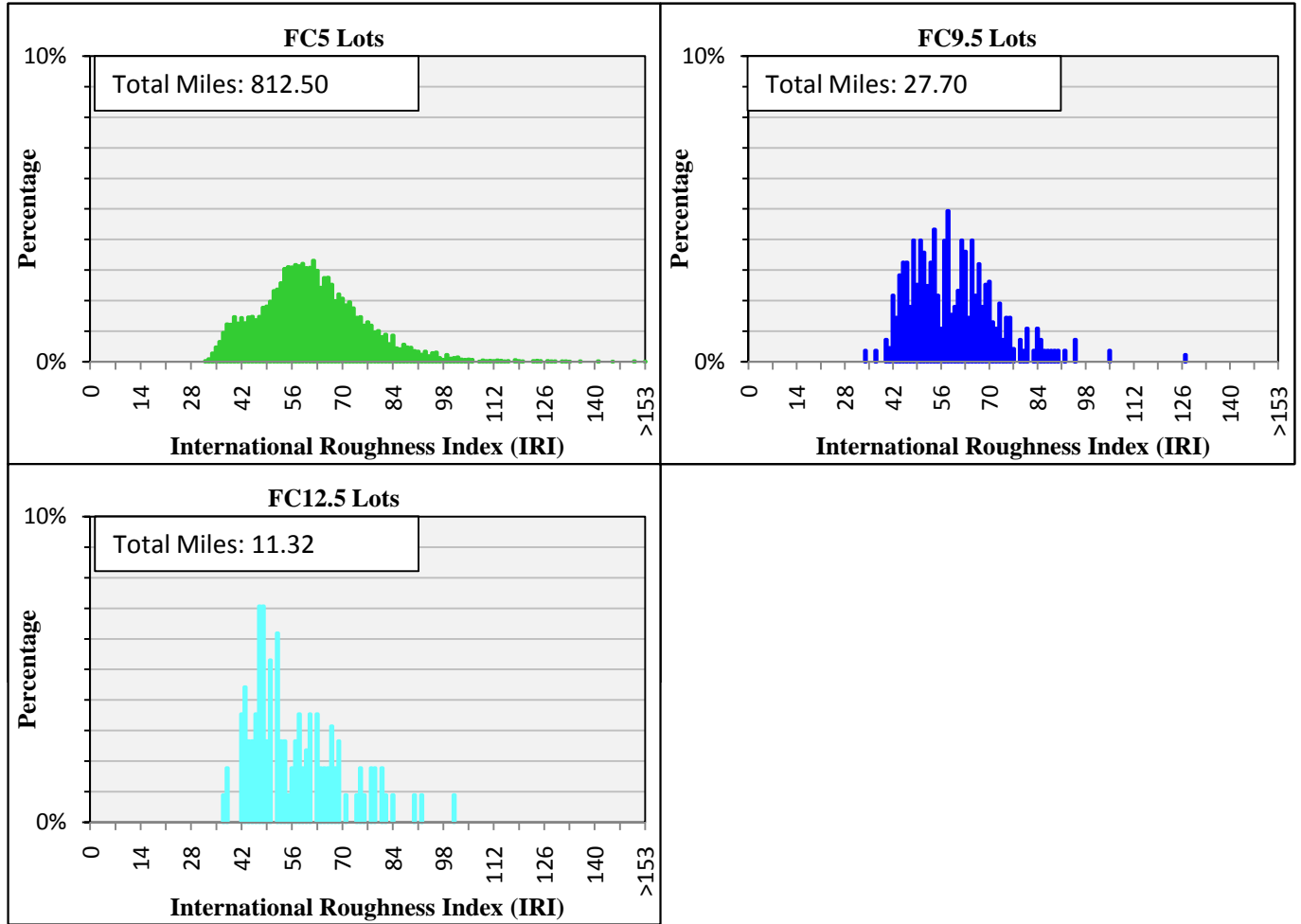


**Figure 19 District 4 Ride Distribution, by System Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Primary	2888	283.96	33	59	171	11.99	109	10.15
Interstate	5969	567.56	32	62	166	15.14	418	36.50



### 4.3 Ride Distribution by Friction Course Type



**Figure 20 District 4 Ride Distribution, by Friction Course Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
							Lots	Miles
FC5	8459	812.50	32	61	171	14.30	514	45.39
FC9.5	284	27.70	34	60	127	12.53	10	0.96
FC12.5	114	11.32	37	57	101	12.74	3	0.30

## 4.4 District 4 Statistics

**Table 42 District 4 Statistical Summary for Year**

Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
2005	806	74.37	42	67	119	11.17	52	4.43
2006	1365	133.32	42	67	141	12.62	105	10.03
2007	2224	214.59	37	65	166	12.12	154	13.55
2008	2072	197.40	35	61	171	14.91	166	14.29
2009	2390	231.85	32	53	127	13.22	50	4.34

**Table 43 District 4 Statistical Summary for System Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Primary	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	1226	121.03	37	62	112	11.98	64	6.21
	2008	622	60.12	36	58	171	11.56	22	1.79
	2009	1040	102.81	33	57	127	11.50	23	2.15
Interstate	2005	806	74.37	42	67	119	11.17	52	4.43
	2006	1365	133.32	42	67	141	12.62	105	10.03
	2007	998	93.55	44	69	166	11.10	90	7.34
	2008	1450	137.28	35	62	151	16.02	144	12.51
	2009	1350	129.04	32	50	105	13.77	27	2.19

**Table 44 District 4 Statistical Summary for Friction Course Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	2005	806	74.37	42	67	119	11.17	52	4.43
	2006	1365	133.32	42	67	141	12.62	105	10.03
	2007	2110	203.26	41	66	166	11.92	151	13.25
	2008	1934	183.90	35	61	171	15.08	158	13.49
	2009	2244	217.65	32	53	105	13.37	48	4.18
FC9.5	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	0	0.00	0	0	0	0.00	0	0.00
	2008	138	13.49	42	65	105	11.50	8	0.80
	2009	146	14.20	34	54	127	10.72	2	0.16
FC12.5	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	114	11.32	37	57	101	12.74	3	0.30
	2008	0	0.00	0	0	0	0.00	0	0.00
	2009	0	0.00	0	0	0	0.00	0	0.00

**Table 45 District 4 Statistical Summary for Friction Course Type, by System Type**

	System Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Primary	2490	244.94	33	59	171	11.88	96	8.89
	Interstate	5969	567.56	32	62	166	15.14	418	36.50
FC9.5	Primary	284	27.70	34	60	127	12.53	10	0.96
	Interstate	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Primary	114	11.32	37	57	101	12.74	3	0.30
	Interstate	0	0.00	0	0	0	0.00	0	0.00

**Table 46 District 4 Statistical Summary for Friction Course Type, by Aggregate Type**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limestone	8459	812.50	32	61	171	14.30	514	45.39
	Granite	0	0.00	0	0	0	0.00	0	0.00
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC9.5	Limestone	284	27.70	34	60	127	12.53	10	0.96
	Granite	0	0.00	0	0	0	0.00	0	0.00
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Limestone	114	11.32	37	57	101	12.74	3	0.30
	Granite	0	0.00	0	0	0	0.00	0	0.00
	Mixed	0	0.00	0	0	0	0.00	0	0.00

**Table 47 District 4 Statistical Summary for Friction Course Type, by Binder Type**

	Binder Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Asphalt-Rubber	3952	374.24	35	63	171	13.08	268	23.06
	Polymer-Modified	4507	438.26	32	60	166	15.11	246	22.33
FC9.5	Asphalt-Rubber	284	27.70	34	60	127	12.53	10	0.96
	Polymer-Modified	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Asphalt-Rubber	114	11.32	37	57	101	12.74	3	0.30
	Polymer-Modified	0	0.00	0	0	0	0.00	0	0.00

**Table 48 District 4 Statistical Summary for Friction Course Type, by Access Type**

	Access Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limited (Full Control)	5969	567.56	32	62	166	15.14	418	36.50
	Non-Limited (No Control)	2490	244.94	33	59	171	11.88	96	8.89
FC9.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	284	27.70	34	60	127	12.53	10	0.96
FC12.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	114	11.32	37	57	101	12.74	3	0.30

## 4.5 District 4 Contractor Statistics

**Table 49 District 4 Statistical Summary for Contractors**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	484	47.83	47	71	141	14.31	62	6.07
The Asphalt Group	350	32.62	50	68	100	8.34	17	1.18
Community Asphalt Corp.	3811	369.67	33	62	166	12.55	203	18.34
Dickerson Asphalt	939	91.23	32	43	127	7.46	2	0.16
East Coast Paving	733	68.98	39	62	171	13.59	54	4.50
General Asphalt Company	150	14.26	56	73	103	10.06	19	1.78
Hardrives Of Delray	252	23.62	44	65	98	9.93	9	0.80
Hubbard Construction	149	13.47	44	70	125	13.86	22	1.92
Ranger Construction	1875	179.10	35	63	151	13.89	133	11.59
Weekly Asphalt Paving	114	10.75	48	66	101	10.07	6	0.32

**Table 50 District 4 Statistical Summary for Friction Course Type, by Contractor**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	A.P.A.C.	484	47.83	47	71	141	14.31	62	6.07
	The Asphalt Group	350	32.62	50	68	100	8.34	17	1.18
	Community Asphalt Corp.	3559	344.85	33	62	166	12.53	192	17.24
	Dickerson Asphalt	793	77.03	32	40	74	4.09	0	0.00
	East Coast Paving	733	68.98	39	62	171	13.59	54	4.50
	General Asphalt Company	150	14.26	56	73	103	10.06	19	1.78
	Hardrives Of Delray	252	23.62	44	65	98	9.93	9	0.80
	Hubbard Construction	149	13.47	44	70	125	13.86	22	1.92
	Ranger Construction	1875	179.10	35	63	151	13.89	133	11.59
	Weekly Asphalt Paving	114	10.75	48	66	101	10.07	6	0.32
FC9.5	Community Asphalt Corp.	138	13.49	42	65	105	11.50	8	0.80
	Dickerson Asphalt	146	14.20	34	54	127	10.72	2	0.16

**Table 50 District 4 Statistical Summary for Friction Course Type, by Contractor, continued**

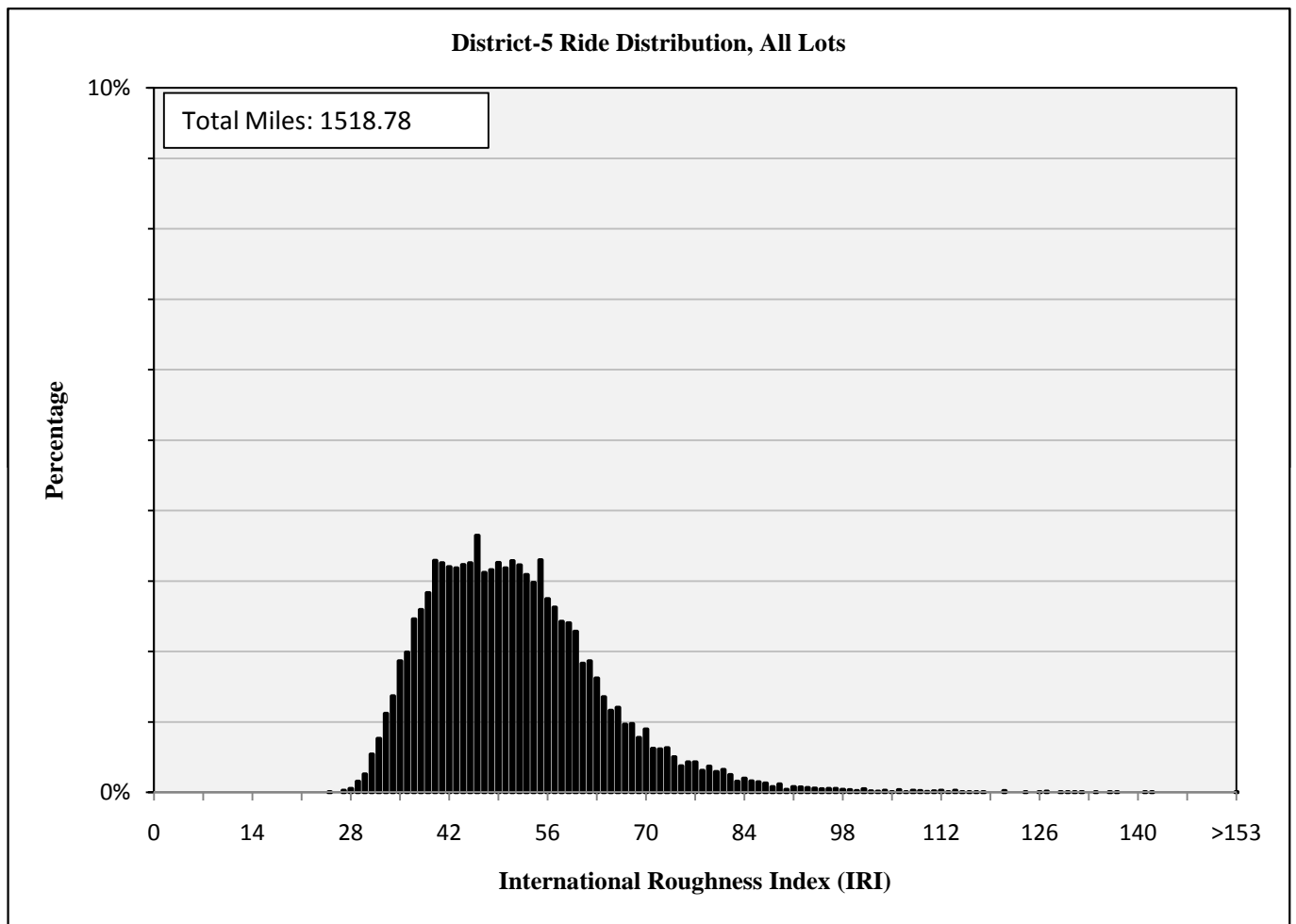
	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC12.5	Community Asphalt Corp.	114	11.32	37	57	101	12.74	3	0.30

**Table 51 District 4 Statistical Summary for Aggregate Type, by Contractor**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Limestone	A.P.A.C.	484	47.83	47	71	141	14.31	62	6.07
	The Asphalt Group	350	32.62	50	68	100	8.34	17	1.18
	Community Asphalt Corp.	3811	369.67	33	62	166	12.55	203	18.34
	Dickerson Asphalt	939	91.23	32	43	127	7.46	2	0.16
	East Coast Paving	733	68.98	39	62	171	13.59	54	4.50
	General Asphalt Company	150	14.26	56	73	103	10.06	19	1.78
	Hardrives Of Delray	252	23.62	44	65	98	9.93	9	0.80
	Hubbard Construction	149	13.47	44	70	125	13.86	22	1.92
	Ranger Construction	1875	179.10	35	63	151	13.89	133	11.59
	Weekly Asphalt Paving	114	10.75	48	66	101	10.07	6	0.32



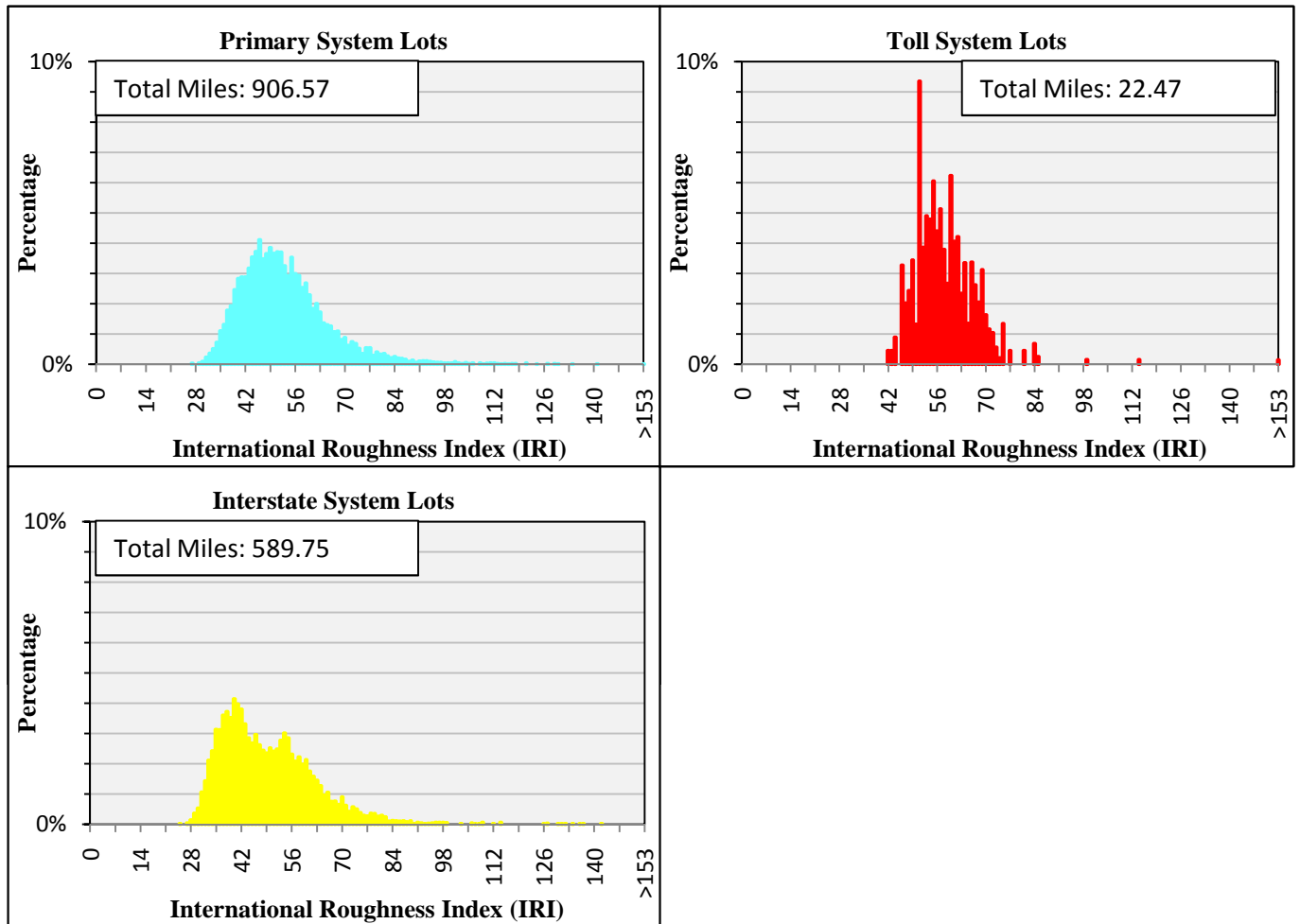
## 5.1 District 5 Ride Distribution



**Figure 21 District 5 Ride Distribution, All Lots**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
All Lots	15490	1518.78	25	51	228	12.56	258	22.58

## 5.2 Ride Distribution by System Type



**Figure 22 District 5 Ride Distribution, by System Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
							Lots	Miles
Primary	9263	906.57	27	53	163	12.15	184	15.88
Toll	243	22.47	42	58	228	9.80	4	0.10
Interstate	5984	589.75	25	49	142	12.87	70	6.61

## 5.3 Ride Distribution by Friction Course Type

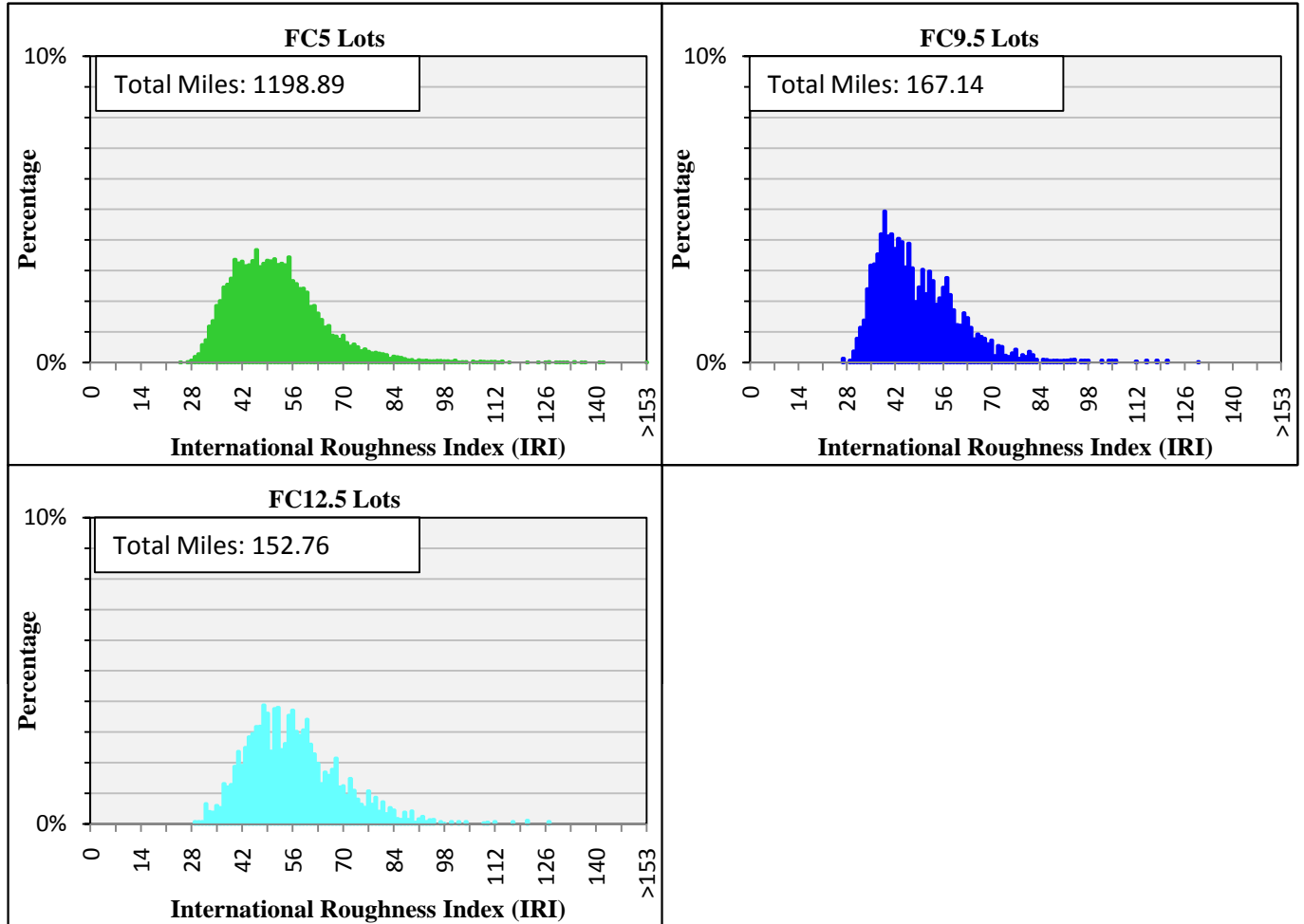


Figure 23 District 5 Ride Distribution, by Friction Course Type

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
FC5	12228	1198.89	25	51	228	12.38	191	16.75
FC9.5	1697	167.14	27	49	130	12.32	24	2.10
FC12.5	1565	152.76	29	56	127	12.94	43	3.73

## 5.4 District 5 Statistics

**Table 52 District 5 Statistical Summary for Year**

Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
2005	1980	193.30	28	50	134	14.00	47	3.87
2006	3316	324.06	31	58	228	12.52	104	9.55
2007	3405	335.75	28	53	163	12.03	58	5.23
2008	4358	429.69	25	46	141	10.20	19	1.31
2009	2431	235.98	29	51	124	11.37	30	2.61

**Table 53 District 5 Statistical Summary for System Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Primary	2005	1176	113.68	32	57	134	13.43	47	3.87
	2006	1767	173.11	31	55	130	12.65	49	4.50
	2007	1714	168.54	35	58	163	11.23	46	4.19
	2008	2693	265.59	27	46	141	8.66	12	0.70
	2009	1913	185.65	29	53	124	11.55	30	2.61
Toll	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	243	22.47	42	58	228	9.80	4	0.10
	2007	0	0.00	0	0	0	0.00	0	0.00
	2008	0	0.00	0	0	0	0.00	0	0.00
	2009	0	0.00	0	0	0	0.00	0	0.00
Interstate	2005	804	79.62	28	40	75	6.23	0	0.00
	2006	1306	128.49	41	61	142	11.83	51	4.96
	2007	1691	167.21	28	49	127	11.13	12	1.04
	2008	1665	164.10	25	46	108	12.29	7	0.61
	2009	518	50.33	31	44	71	6.88	0	0.00

**Table 54 District 5 Statistical Summary for Friction Course Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	2005	1583	154.59	28	48	134	12.43	23	1.81
	2006	2897	283.29	32	59	228	11.95	97	8.93
	2007	2710	267.55	28	52	163	11.90	41	3.74
	2008	3301	325.45	25	46	141	10.41	15	1.10
	2009	1737	168.00	29	49	124	10.82	15	1.18
FC9.5	2005	264	25.85	32	49	115	12.86	8	0.58
	2006	235	23.04	31	45	130	11.03	3	0.23
	2007	260	25.71	35	54	88	10.01	2	0.20
	2008	480	47.63	27	41	85	8.09	0	0.00
	2009	458	44.91	33	55	121	12.76	11	1.10
FC12.5	2005	133	12.86	41	75	98	8.65	16	1.49
	2006	184	17.73	34	55	121	13.23	4	0.40
	2007	435	42.49	41	61	127	10.83	15	1.30
	2008	577	56.62	29	49	109	9.42	4	0.21
	2009	236	23.07	39	55	121	9.85	4	0.34

**Table 55 District 5 Statistical Summary for Friction Course Type, by System Type**

	System Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Primary	6001	586.67	29	53	163	11.56	117	10.05
	Toll	243	22.47	42	58	228	9.80	4	0.10
	Interstate	5984	589.75	25	49	142	12.87	70	6.61
FC9.5	Primary	1697	167.14	27	49	130	12.32	24	2.10
	Toll	0	0.00	0	0	0	0.00	0	0.00
	Interstate	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Primary	1565	152.76	29	56	127	12.94	43	3.73
	Toll	0	0.00	0	0	0	0.00	0	0.00
	Interstate	0	0.00	0	0	0	0.00	0	0.00

**Table 56 District 5 Statistical Summary for Friction Course Type, by Aggregate Type**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limestone	3382	330.94	28	50	228	12.69	80	6.75
	Granite	8846	867.94	25	52	142	12.20	111	10.00
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC9.5	Limestone	99	9.78	31	41	118	9.84	1	0.10
	Granite	1258	123.88	27	50	121	12.55	18	1.62
	Mixed	340	33.48	31	47	130	11.15	5	0.38
FC12.5	Limestone	80	7.65	35	53	121	16.67	4	0.40
	Granite	1284	125.66	29	57	127	12.86	39	3.33
	Mixed	201	19.44	33	51	82	10.24	0	0.00

**Table 57 District 5 Statistical Summary for Friction Course Type, by Binder Type**

	Binder Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Asphalt-Rubber	5702	555.24	28	52	228	12.51	116	9.83
	Polymer-Modified	6526	643.64	25	50	142	12.22	75	6.92
FC9.5	Asphalt-Rubber	1697	167.14	27	49	130	12.32	24	2.10
	Polymer-Modified	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Asphalt-Rubber	1266	123.60	29	56	121	12.39	30	2.44
	Polymer-Modified	299	29.16	33	56	127	15.05	13	1.29

**Table 58 District 5 Statistical Summary for Friction Course Type, by Access Type**

	Access Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limited (Full Control)	6339	622.61	25	50	228	12.84	77	6.81
	Non-Limited (No Control)	5889	576.28	29	53	163	11.59	114	9.94
FC9.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	1697	167.14	27	49	130	12.32	24	2.10
FC12.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	1565	152.76	29	56	127	12.94	43	3.73

## 5.5 District 5 Contractor Statistics

**Table 59 District 5 Statistical Summary for Contractors**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	1509	146.28	31	56	228	13.47	51	4.08
Anderson Columbia	4326	426.86	28	52	142	12.19	71	6.65
C.W.Roberts Contracting	584	56.91	25	37	91	7.57	2	0.19
D.A.B. Constructors	147	13.86	33	48	121	11.54	2	0.15
Elmo Greer	676	66.63	31	45	121	9.01	5	0.50
Halifax Paving Inc.	864	85.83	27	47	85	10.89	0	0.00
Hewitt Contracting Co.	292	28.75	34	58	114	9.29	2	0.17
Hubbard Construction	348	32.99	33	53	108	12.98	10	0.87
Middlesex Corp.	933	90.81	32	55	127	12.16	21	1.86
Orlando Paving Company	392	38.29	29	49	112	11.28	5	0.24
P & S Paving	2435	239.60	28	48	130	11.12	21	1.60
Ranger Construction	2844	278.01	31	56	129	12.15	68	6.29
Steven Counts Inc.	140	13.96	31	47	85	9.24	0	0.00



**Table 60 District 5 Statistical Summary for Friction Course Type, by Contractor**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	A.P.A.C.	1509	146.28	31	56	228	13.47	51	4.08
	Anderson Columbia	3750	370.01	28	51	142	12.11	58	5.35
	C.W.Roberts Contracting	547	53.44	25	36	79	6.32	0	0.00
	D.A.B. Constructors	14	1.13	44	61	101	17.57	1	0.09
	Elmo Greer	497	49.20	35	45	76	5.87	0	0.00
	Halifax Paving Inc.	456	45.39	33	52	85	9.96	0	0.00
	Hewitt Contracting Co.	292	28.75	34	58	114	9.29	2	0.17
	Hubbard Construction	348	32.99	33	53	108	12.98	10	0.87
	Middlesex Corp.	660	64.62	32	54	103	10.39	6	0.56
	Orlando Paving Company	236	23.16	33	50	100	9.60	1	0.06
	P & S Paving	1483	146.14	28	46	108	11.25	10	0.77
Ranger Construction	2436	237.78	31	55	129	11.82	52	4.80	

**Table 60 District 5 Statistical Summary for Friction Course Type, by Contractor, continued**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
								Lots	Miles
FC9.5	Anderson Columbia	576	56.86	33	56	121	11.71	13	1.30
	C.W.Roberts Contracting	37	3.47	33	49	91	13.28	2	0.19
	Elmo Greer	99	9.78	31	41	118	9.84	1	0.10
	Halifax Paving Inc.	340	33.66	27	39	64	6.42	0	0.00
	Middlesex Corp.	113	11.07	34	47	77	8.59	0	0.00
	Orlando Paving Company	52	4.85	35	57	112	14.43	3	0.14
	P & S Paving	340	33.48	31	47	130	11.15	5	0.38
	Steven Counts Inc.	140	13.96	31	47	85	9.24	0	0.00
	D.A.B. Constructors	133	12.73	33	47	121	10.04	1	0.06
FC12.5	Elmo Greer	80	7.65	35	53	121	16.67	4	0.40
	Halifax Paving Inc.	68	6.77	40	57	75	8.20	0	0.00
	Middlesex Corp.	160	15.12	48	67	127	13.06	15	1.30

**Table 60 District 5 Statistical Summary for Friction Course Type, by Contractor, continued**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC12.5	Orlando Paving Company	104	10.28	29	42	109	9.39	1	0.04
	P & S Paving	612	59.97	33	53	92	9.17	6	0.45
	Ranger Construction	408	40.23	41	64	98	11.35	16	1.49

**Table 61 District 5 Statistical Summary for Aggregate Type, by Contractor**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Limestone	A.P.A.C.	307	27.65	43	66	228	14.94	37	2.80
	Anderson Columbia	513	50.78	39	51	116	6.72	1	0.02
	Elmo Greer	676	66.63	31	45	121	9.01	5	0.50
	Hubbard Construction	238	23.09	33	52	108	11.74	4	0.40
	P & S Paving	938	92.67	28	42	90	8.32	2	0.13
	Ranger Construction	889	87.56	31	53	129	14.13	36	3.39

**Table 61 District 5 Statistical Summary for Aggregate Type, by Contractor, continued**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Granite	A.P.A.C.	1202	118.63	31	53	127	11.77	14	1.27
	Anderson Columbia	3813	376.08	28	52	142	12.74	70	6.62
	C.W.Roberts Contracting	584	56.91	25	37	91	7.57	2	0.19
	D.A.B. Constructors	34	2.99	41	57	121	16.17	2	0.15
	Halifax Paving Inc.	864	85.83	27	47	85	10.89	0	0.00
	Hewitt Contracting Co.	292	28.75	34	58	114	9.29	2	0.17
	Hubbard Construction	110	9.90	37	57	106	14.82	6	0.47
	Middlesex Corp.	933	90.81	32	55	127	12.16	21	1.86
	Orlando Paving Company	392	38.29	29	49	112	11.28	5	0.24
	P & S Paving	1069	104.88	33	53	108	10.52	14	1.09
	Ranger Construction	1955	190.45	34	57	124	10.93	32	2.90
	Steven Counts Inc.	140	13.96	31	47	85	9.24	0	0.00

**Table 61 District 5 Statistical Summary for Aggregate Type, by Contractor, continued**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Mixed	D.A.B. Constructors	113	10.88	33	46	78	8.41	0	0.00
	P & S Paving	428	42.05	31	49	130	11.49	5	0.38

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## 6.1 District 6 Ride Distribution

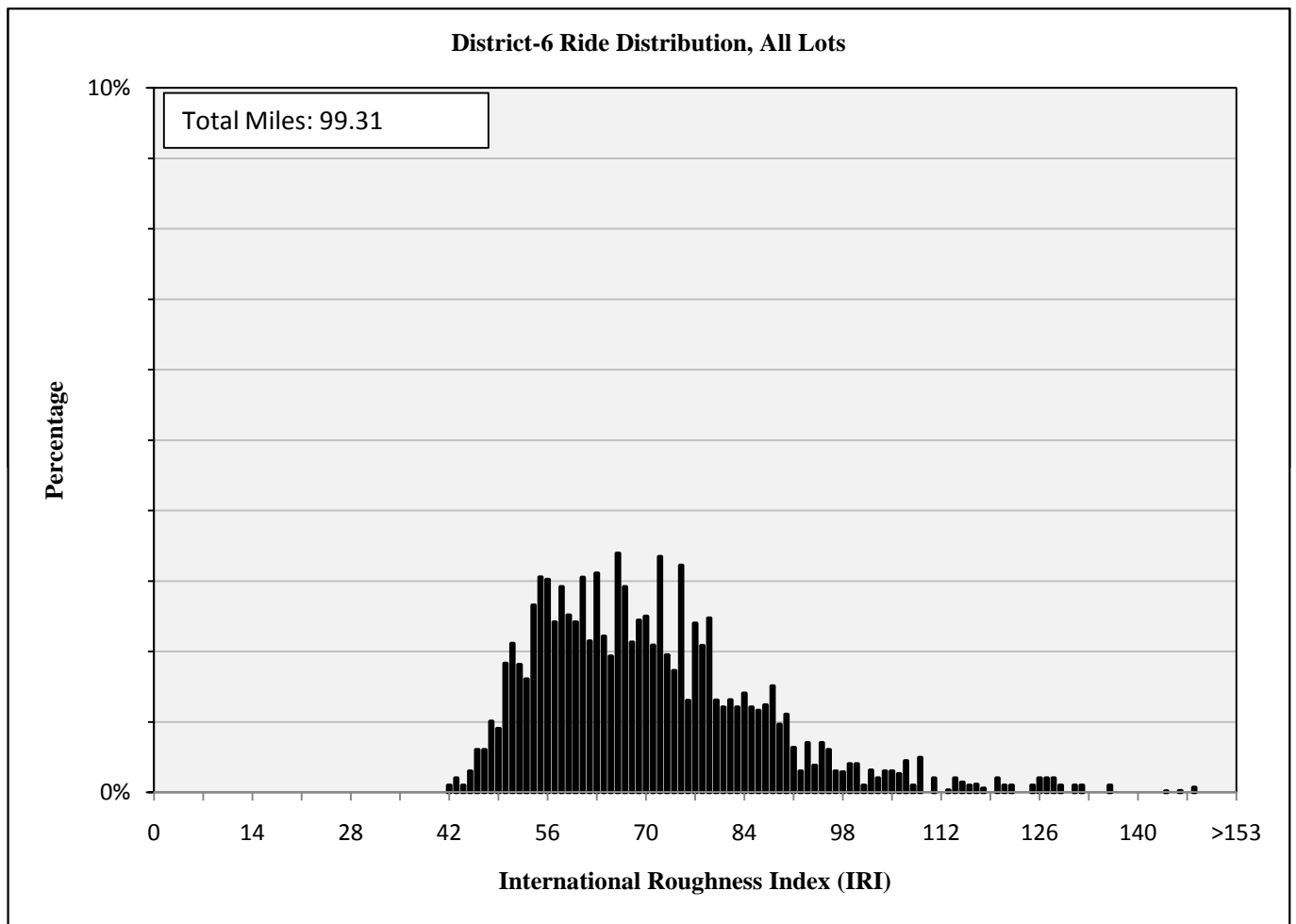
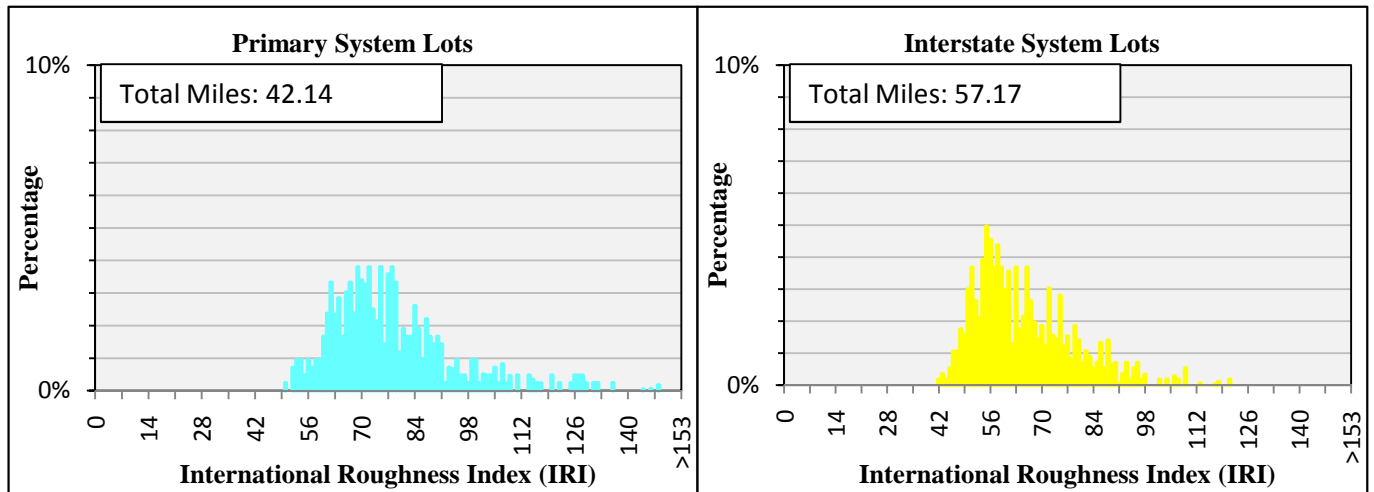


Figure 24 District 6 Ride Distribution, All Lots

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
All Lots	1021	99.31	42	71	148	16.10	167	15.61

## 6.2 Ride Distribution by System Type

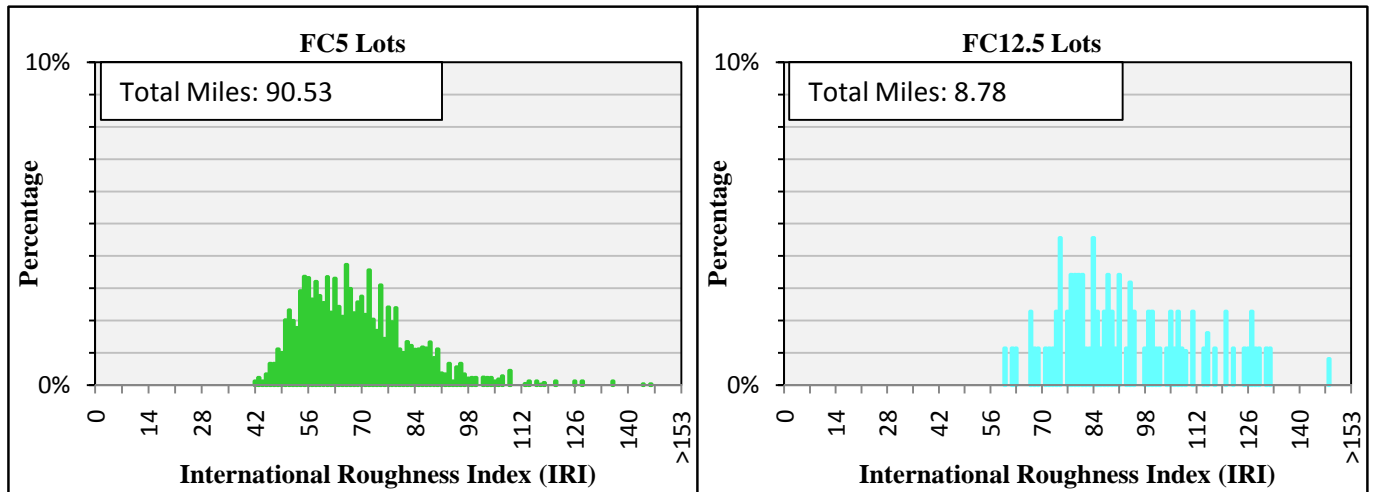


**Figure 25 District 6 Ride Distribution, by System Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Primary	431	42.14	50	78	148	16.43	109	10.31
Interstate	590	57.17	42	65	121	13.41	58	5.30



## 6.3 Ride Distribution by Friction Course Type



**Figure 26 District 6 Ride Distribution, by Friction Course Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
FC5	932	90.53	42	68	146	14.02	116	10.62
FC12.5	89	8.78	60	93	148	18.78	51	4.99

## 6.4 District 6 Statistics

**Table 62 District 6 Statistical Summary for Year**

Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
2005	0	0.00	0	0	0	0.00	0	0.00
2006	0	0.00	0	0	0	0.00	0	0.00
2007	247	23.52	47	74	121	13.01	48	4.34
2008	417	40.89	43	70	148	18.65	74	7.08
2009	357	34.91	42	69	144	14.34	45	4.19

**Table 63 District 6 Statistical Summary for System Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Primary	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	76	7.43	50	65	102	8.41	3	0.21
	2008	211	20.79	52	82	148	18.57	70	6.73
	2009	144	13.92	55	79	144	12.18	36	3.38
Interstate	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	171	16.09	47	78	121	12.76	45	4.13
	2008	206	20.10	43	59	94	8.86	4	0.35
	2009	213	20.99	42	61	117	10.87	9	0.81

**Table 64 District 6 Statistical Summary for Friction Course Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	247	23.52	47	74	121	13.01	48	4.34
	2008	328	32.10	43	64	146	13.07	23	2.10
	2009	357	34.91	42	69	144	14.34	45	4.19
FC12.5	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	0	0.00	0	0	0	0.00	0	0.00
	2007	0	0.00	0	0	0	0.00	0	0.00
	2008	89	8.78	60	93	148	18.78	51	4.99
	2009	0	0.00	0	0	0	0.00	0	0.00

**Table 65 District 6 Statistical Summary for Friction Course Type, by System Type**

	System Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Primary	342	33.36	50	74	146	13.19	58	5.33
	Interstate	590	57.17	42	65	121	13.41	58	5.30
FC12.5	Primary	89	8.78	60	93	148	18.78	51	4.99
	Interstate	0	0.00	0	0	0	0.00	0	0.00

**Table 66 District 6 Statistical Summary for Friction Course Type, by Aggregate Type**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limestone	932	90.53	42	68	146	14.02	116	10.62
	Granite	0	0.00	0	0	0	0.00	0	0.00
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Limestone	89	8.78	60	93	148	18.78	51	4.99
	Granite	0	0.00	0	0	0	0.00	0	0.00
	Mixed	0	0.00	0	0	0	0.00	0	0.00

**Table 67 District 6 Statistical Summary for Friction Course Type, by Binder Type**

	Binder Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Asphalt-Rubber	447	42.90	47	75	146	13.49	85	7.66
	Polymer-Modified	485	47.63	42	63	117	11.88	31	2.97
FC12.5	Asphalt-Rubber	0	0.00	0	0	0	0.00	0	0.00
	Polymer-Modified	89	8.78	60	93	148	18.78	51	4.99

**Table 68 District 6 Statistical Summary for Friction Course Type, by Access Type**

	Access Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limited (Full Control)	590	57.17	42	65	121	13.41	58	5.30
	Non-Limited (No Control)	342	33.36	50	74	146	13.19	58	5.33
FC12.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	89	8.78	60	93	148	18.78	51	4.99

## 6.5 District 6 Contractor Statistics

**Table 69 District 6 Statistical Summary for Contractors**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	171	16.09	47	78	121	12.76	45	4.13
The Asphalt Group	90	8.79	58	80	144	12.97	26	2.45
Community Asphalt Corp.	108	10.61	52	71	146	11.56	11	0.94
General Asphalt Company	144	13.96	50	72	116	13.27	21	1.94
Ranger Construction	508	49.87	42	66	148	17.34	64	6.15

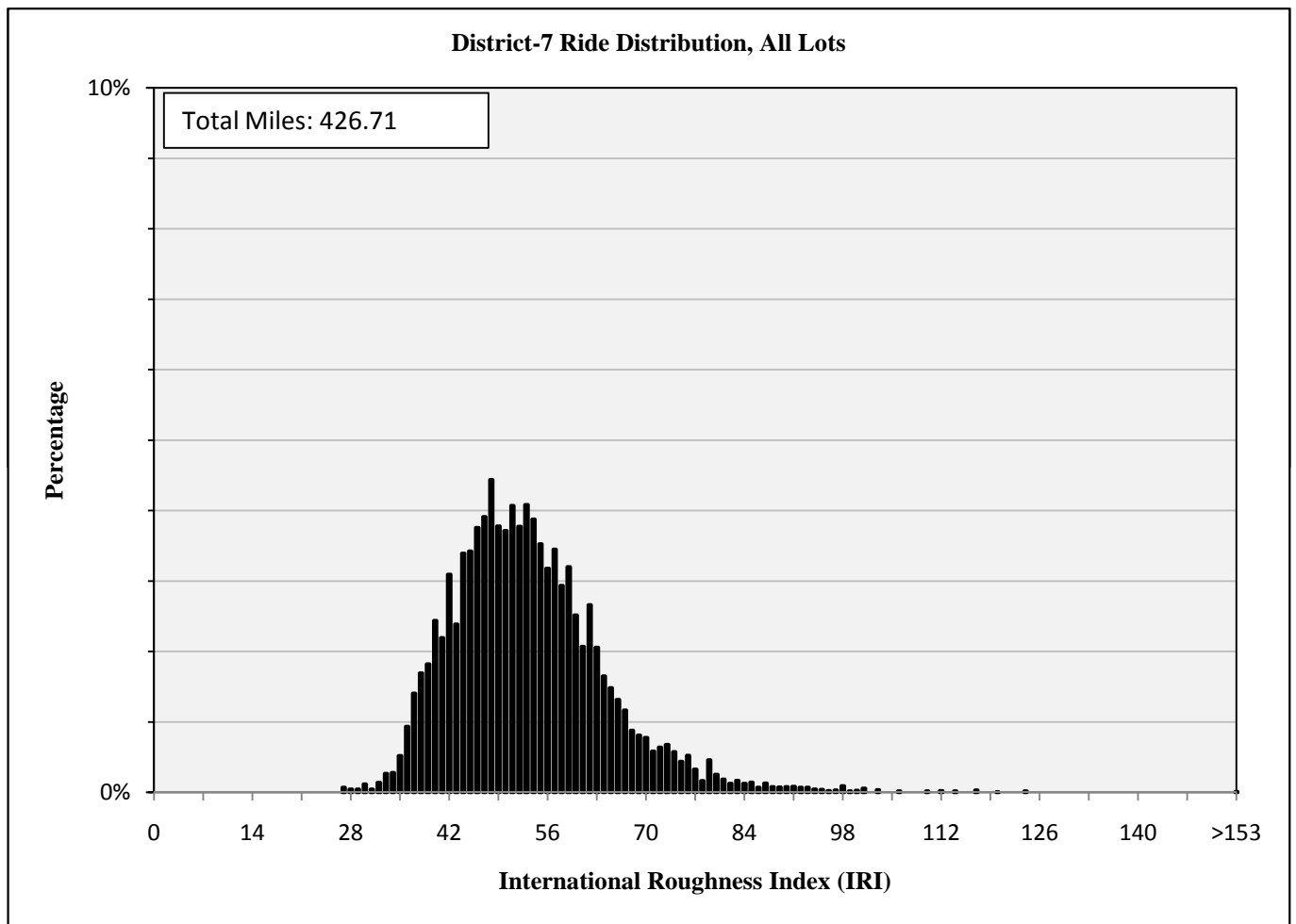
**Table 70 District 6 Statistical Summary for Friction Course Type, by Contractor**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	A.P.A.C.	171	16.09	47	78	121	12.76	45	4.13
	The Asphalt Group	90	8.79	58	80	144	12.97	26	2.45
	Community Asphalt Corp.	108	10.61	52	71	146	11.56	11	0.94
	General Asphalt Company	144	13.96	50	72	116	13.27	21	1.94
	Ranger Construction	419	41.08	42	60	117	10.03	13	1.17
FC12.5	Ranger Construction	89	8.78	60	93	148	18.78	51	4.99

**Table 71 District 6 Statistical Summary for Aggregate Type, by Contractor**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Limestone	A.P.A.C.	171	16.09	47	78	121	12.76	45	4.13
	The Asphalt Group	90	8.79	58	80	144	12.97	26	2.45
	Community Asphalt Corp.	108	10.61	52	71	146	11.56	11	0.94
	General Asphalt Company	144	13.96	50	72	116	13.27	21	1.94
	Ranger Construction	508	49.87	42	66	148	17.34	64	6.15

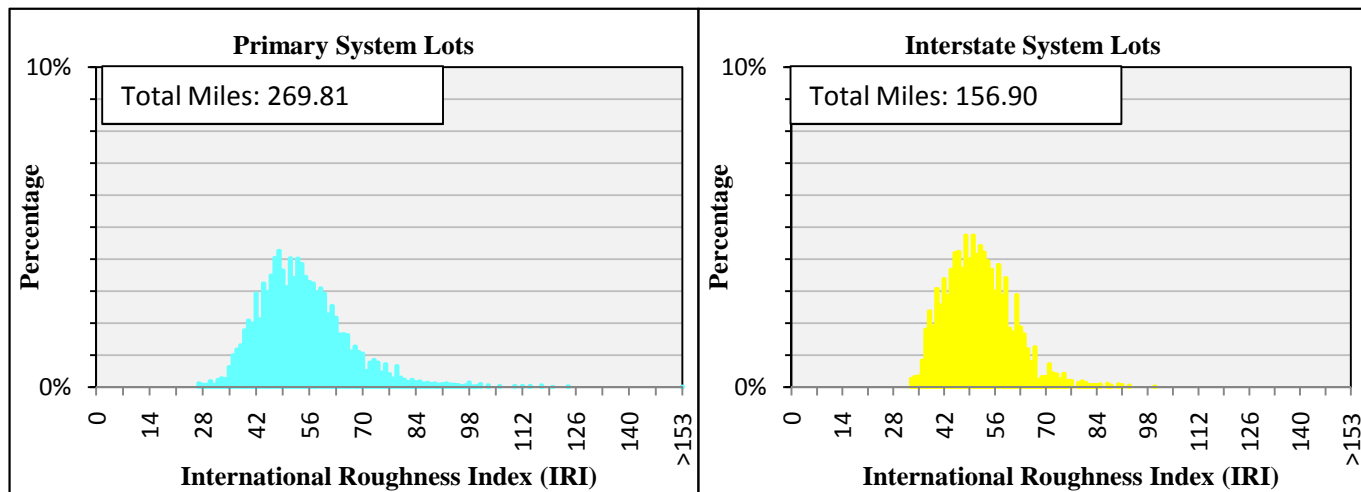
## 7.1 District 7 Ride Distribution



**Figure 27 District 7 Ride Distribution, All Lots**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
All Lots	4395	426.71	27	53	269	11.06	63	5.05

## 7.2 Ride Distribution by System Type

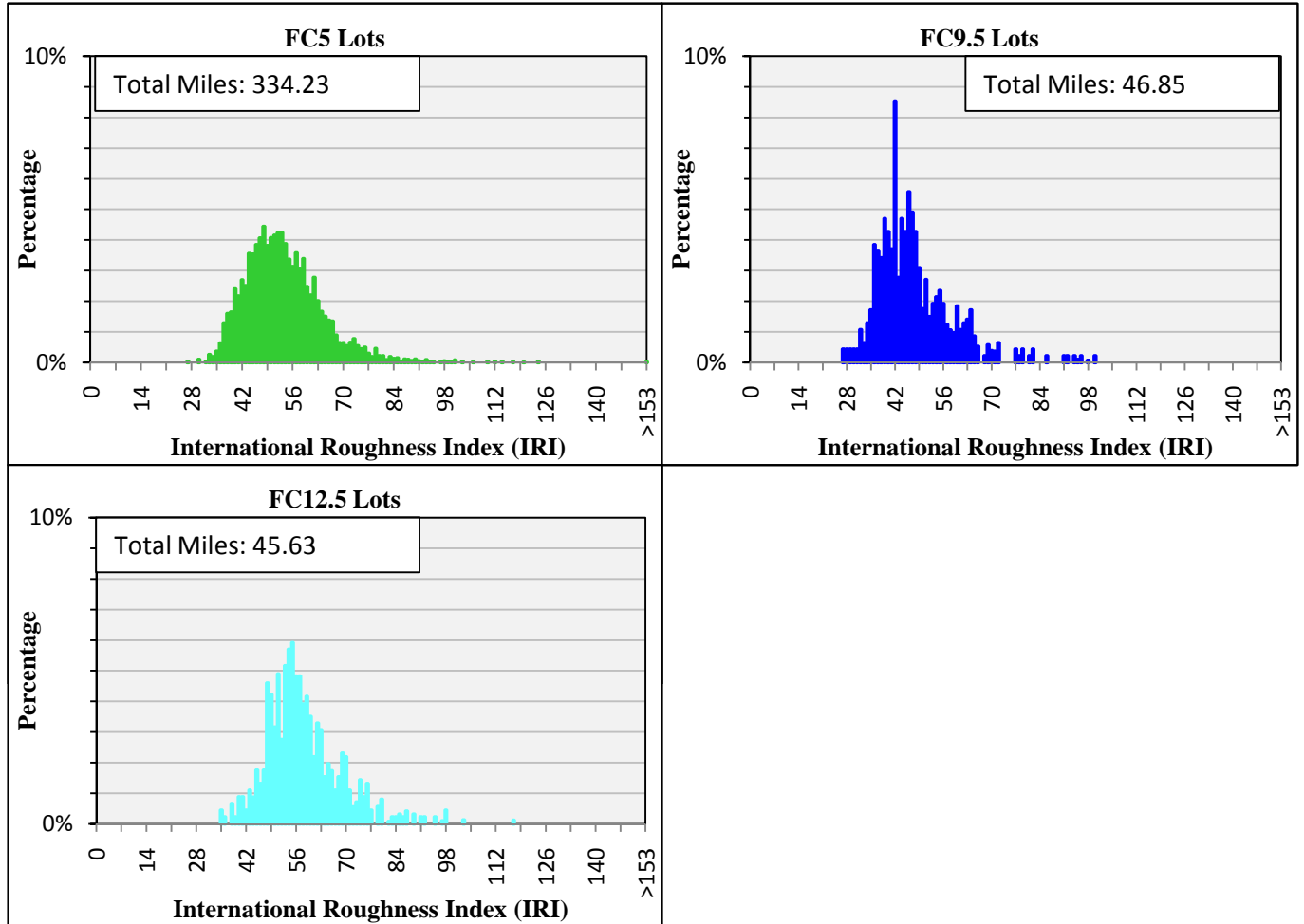


**Figure 28 District 7 Ride Distribution, by System Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Primary	2766	269.81	27	54	269	11.89	55	4.48
Interstate	1629	156.90	33	52	100	9.22	8	0.57



## 7.3 Ride Distribution by Friction Course Type



**Figure 29 District 7 Ride Distribution, by Friction Course Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI ≥ 86	
							Lots	Miles
FC5	3448	334.23	27	53	269	10.74	42	3.29
FC9.5	477	46.85	27	48	100	11.31	8	0.67
FC12.5	470	45.63	35	58	117	10.64	13	1.08

## 7.4 District 7 Statistics

**Table 72 District 7 Statistical Summary for Year**

Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
2005	378	35.90	36	51	100	8.08	1	0.03
2006	1072	105.02	33	55	269	12.77	35	2.99
2007	307	29.42	38	55	98	9.45	7	0.52
2008	1357	133.21	27	54	103	10.28	8	0.76
2009	1281	123.16	27	52	164	11.10	12	0.75

**Table 73 District 7 Statistical Summary for System Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Primary	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	561	54.41	35	58	269	14.05	33	2.79
	2007	212	20.73	38	53	98	8.75	4	0.31
	2008	1233	121.27	27	54	103	10.50	7	0.66
	2009	760	73.39	27	52	164	12.34	11	0.72
Interstate	2005	378	35.90	36	51	100	8.08	1	0.03
	2006	511	50.61	33	50	90	9.66	2	0.20
	2007	95	8.69	42	58	93	10.14	3	0.21
	2008	124	11.93	45	57	91	7.29	1	0.10
	2009	521	49.77	33	51	90	8.87	1	0.03

**Table 74 District 7 Statistical Summary for Friction Course Type, by Year**

	Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	2005	378	35.90	36	51	100	8.08	1	0.03
	2006	825	80.97	33	53	269	12.72	22	1.87
	2007	307	29.42	38	55	98	9.45	7	0.52
	2008	1213	119.35	27	54	103	10.16	6	0.56
	2009	725	68.59	33	53	164	10.69	6	0.31
FC9.5	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	123	11.87	35	60	100	13.10	8	0.67
	2007	0	0.00	0	0	0	0.00	0	0.00
	2008	0	0.00	0	0	0	0.00	0	0.00
	2009	354	34.99	27	43	71	6.66	0	0.00
FC12.5	2005	0	0.00	0	0	0	0.00	0	0.00
	2006	124	12.19	42	58	98	10.58	5	0.45
	2007	0	0.00	0	0	0	0.00	0	0.00
	2008	144	13.86	35	55	98	11.19	2	0.20
	2009	202	19.59	42	60	117	9.86	6	0.44

**Table 75 District 7 Statistical Summary for Friction Course Type, by System Type**

	System Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Primary	1819	177.32	27	55	269	11.68	34	2.72
	Interstate	1629	156.90	33	52	100	9.22	8	0.57
FC9.5	Primary	477	46.85	27	48	100	11.31	8	0.67
	Interstate	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Primary	470	45.63	35	58	117	10.64	13	1.08
	Interstate	0	0.00	0	0	0	0.00	0	0.00

**Table 76 District 7 Statistical Summary for Friction Course Type, by Aggregate Type**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limestone	104	9.99	45	56	91	7.48	1	0.10
	Granite	3230	313.47	27	53	269	10.83	40	3.15
	Mixed	114	10.77	37	56	95	9.70	1	0.04
FC9.5	Limestone	123	11.87	35	60	100	13.10	8	0.67
	Granite	354	34.99	27	43	71	6.66	0	0.00
	Mixed	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Limestone	0	0.00	0	0	0	0.00	0	0.00
	Granite	352	34.02	35	59	98	10.99	9	0.77
	Mixed	118	11.61	42	56	117	9.32	4	0.31

**Table 77 District 7 Statistical Summary for Friction Course Type, by Binder Type**

	Binder Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Asphalt-Rubber	1667	162.39	27	54	269	11.11	26	2.11
	Polymer-Modified	1781	171.84	33	53	164	10.35	16	1.19
FC9.5	Asphalt-Rubber	477	46.85	27	48	100	11.31	8	0.67
	Polymer-Modified	0	0.00	0	0	0	0.00	0	0.00
FC12.5	Asphalt-Rubber	208	20.16	42	61	98	10.25	7	0.57
	Polymer-Modified	262	25.47	35	56	117	10.38	6	0.51

**Table 78 District 7 Statistical Summary for Friction Course Type, by Access Type**

	Access Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	Limited (Full Control)	1629	156.90	33	52	100	9.22	8	0.57
	Non-Limited (No Control)	1819	177.32	27	55	269	11.68	34	2.72
FC9.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	477	46.85	27	48	100	11.31	8	0.67
FC12.5	Limited (Full Control)	0	0.00	0	0	0	0.00	0	0.00
	Non-Limited (No Control)	470	45.63	35	58	117	10.64	13	1.08

## 7.5 District 7 Contractor Statistics

**Table 79 District 7 Statistical Summary for Contractors**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	2060	199.09	27	55	164	11.01	30	2.33
Ajax Paving Industry	1258	121.92	27	49	269	10.36	11	0.84
D.A.B. Constructors	640	63.22	35	54	117	9.80	8	0.67
Lane Construction Corp.	393	38.29	35	53	100	11.09	9	0.77
Overstreet Paving	44	4.19	42	64	98	14.31	5	0.45

**Table 80 District 7 Statistical Summary for Friction Course Type, by Contractor**

	Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
FC5	A.P.A.C.	1896	183.12	27	55	164	11.10	28	2.20
	Ajax Paving Industry	926	89.52	33	50	269	9.90	9	0.64
	D.A.B. Constructors	522	51.60	35	53	101	9.82	4	0.36
	Lane Construction Corp.	104	9.99	45	56	91	7.48	1	0.10
FC9.5	Ajax Paving Industry	188	18.55	27	42	64	7.15	0	0.00
	Lane Construction Corp.	289	28.30	35	51	100	11.85	8	0.67
FC12.5	A.P.A.C.	164	15.97	45	60	89	8.67	2	0.13
	Ajax Paving Industry	144	13.86	35	55	98	11.19	2	0.20
	D.A.B. Constructors	118	11.61	42	56	117	9.32	4	0.31
	Overstreet Paving	44	4.19	42	64	98	14.31	5	0.45

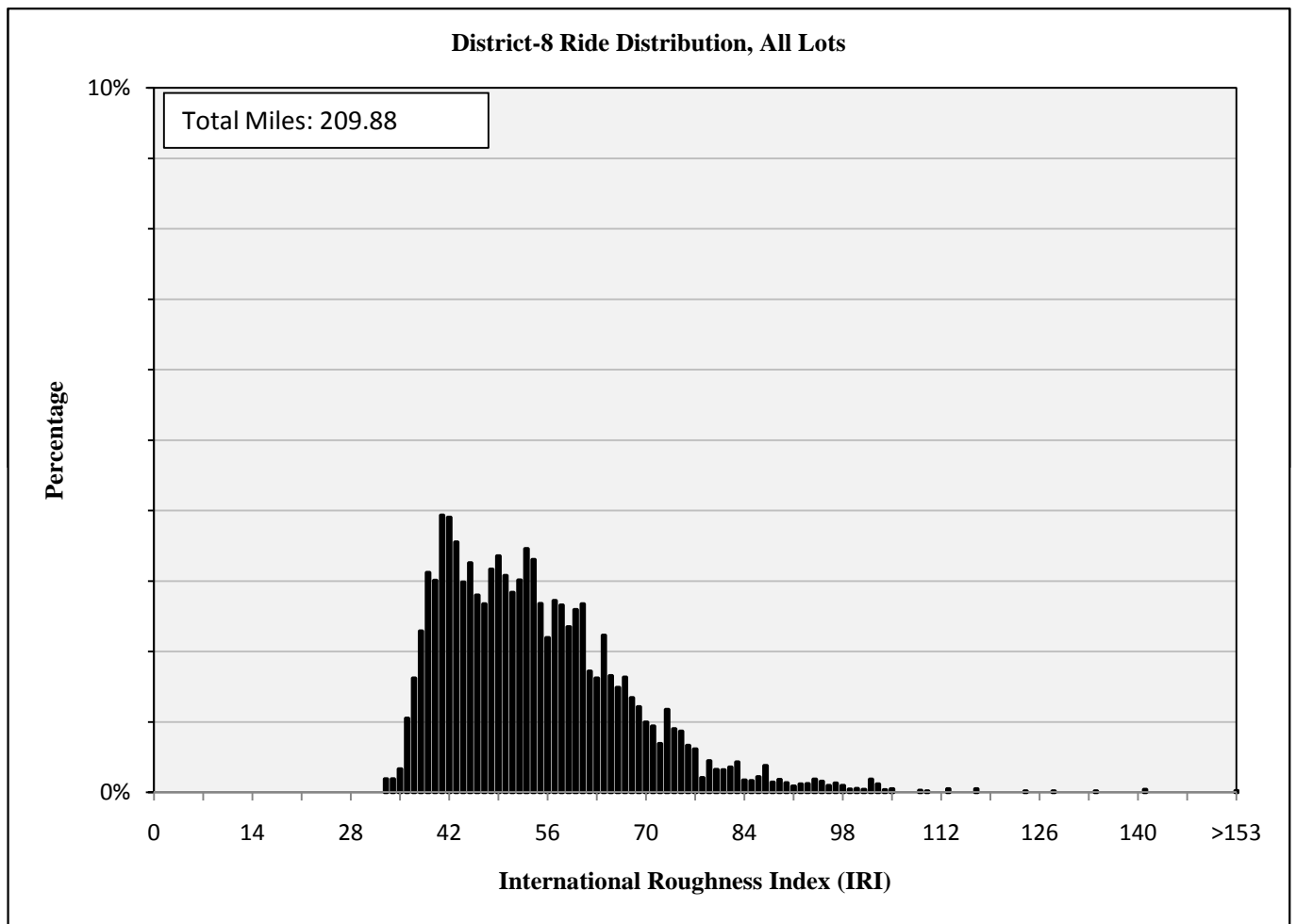
**Table 81 District 7 Statistical Summary for Aggregate Type, by Contractor**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Limestone	Lane Construction Corp.	227	21.85	35	58	100	11.03	9	0.77
Granite	A.P.A.C.	1946	188.32	27	55	164	11.08	29	2.29
	Ajax Paving Industry	1258	121.92	27	49	269	10.36	11	0.84
	D.A.B. Constructors	522	51.60	35	53	101	9.82	4	0.36
	Lane Construction Corp.	166	16.44	36	45	71	5.43	0	0.00
	Overstreet Paving	44	4.19	42	64	98	14.31	5	0.45
Mixed	A.P.A.C.	114	10.77	37	56	95	9.70	1	0.04
	D.A.B. Constructors	118	11.61	42	56	117	9.32	4	0.31



District 8 consists solely of the Florida's Turnpike Enterprise system.

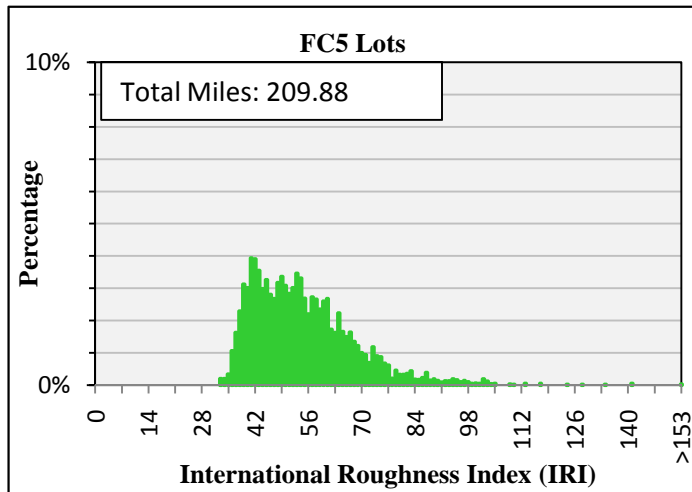
## 8.1 District 8 Ride Distribution



**Figure 30 District 8 Ride Distribution, All Turnpike Lots**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
All Lots	2207	209.88	33	54	177	13.31	79	5.95

## 8.2 Ride Distribution by Friction Course Type



**Figure 31 District 8 Ride Distribution, by Friction Course Type**

Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
FC5	2207	209.88	33	54	177	13.31	79	5.95

## 8.3 District 8 Statistics

**Table 82 District 8 Statistical Summary for Year**

Year	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
2005	158	15.55	37	50	82	7.82	0	0.00
2006	0	0.00	0	0	0	0.00	0	0.00
2007	420	41.05	42	62	102	8.94	7	0.67
2008	353	33.82	33	58	124	14.23	21	1.74
2009	1276	119.47	33	51	177	13.66	51	3.55

**No Statistical Summaries for System Type will be shown since all data is Turnpike system only.**

**No Statistical Summaries for Friction Course Type will be shown since all data is FC5 only.**

**Table 83 District 8 Statistical Summary for Aggregate Type**

Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Limestone	1278	119.30	33	60	177	13.19	73	5.56
Granite	929	90.59	33	47	124	9.24	6	0.40
Mixed	0	0.00	0	0	0	0.00	0	0.00

**Table 84 District 8 Statistical Summary for Binder Type**

Binder Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
Asphalt-Rubber	36	3.44	41	56	75	8.40	0	0.00
Polymer-Modified	2171	206.45	33	54	177	13.38	79	5.95

**No Statistical Summaries for Access Type will be shown since all data is Limited (Full Control) only.**

## 8.4 District 8 Contractor Statistics

**Table 85 District 8 Statistical Summary for Contractors**

Contractor	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
							Lots	Miles
A.P.A.C.	262	25.26	33	54	124	11.15	5	0.32
Community Asphalt Corp.	55	4.94	51	75	109	14.80	17	1.59
Condotte America	91	8.55	45	71	117	14.93	16	1.42
D.A.B. Constructors	122	12.11	37	49	82	6.89	0	0.00
Dickerson Asphalt	200	19.54	33	46	134	7.80	2	0.08
General Asphalt Company	422	36.85	41	62	177	12.40	27	1.53
Middlesex Corp.	114	11.04	37	48	66	6.08	0	0.00
Ranger Construction	941	91.59	33	52	103	12.24	12	1.02

**Table 86 District 8 Statistical Summary for Aggregate Type, by Contractor**

	Aggregate Type	Total Lots	Total Miles	Minimum	Mean	Maximum	St. Dev	IRI $\geq$ 86	
								Lots	Miles
Limestone	Community Asphalt Corp.	55	4.94	51	75	109	14.80	17	1.59
	Condotte America	91	8.55	45	71	117	14.93	16	1.42
	Dickerson Asphalt	200	19.54	33	46	134	7.80	2	0.08
	General Asphalt Company	422	36.85	41	62	177	12.40	27	1.53
	Ranger Construction	510	49.42	40	60	103	9.82	11	0.95
Granite	A.P.A.C.	262	25.26	33	54	124	11.15	5	0.32
	D.A.B. Constructors	122	12.11	37	49	82	6.89	0	0.00
	Middlesex Corp.	114	11.04	37	48	66	6.08	0	0.00
	Ranger Construction	431	42.17	33	42	87	5.94	1	0.08

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Appendix

A

**CUSTOMER SERVICE FORM**

# Customer Service Form

In an effort to continuously improve our customer service, the Pavement Material Systems Section of the State Materials Office requests your input by filling out and returning this survey form.

(Optional)

Your Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Company/Office/Organization: \_\_\_\_\_  
Address: \_\_\_\_\_ City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ e-mail: \_\_\_\_\_

Please rate each of the following factors using the scale provided. A "1" corresponds to **Very Poor**, and a "5" corresponds to **Excellent**.

Usefulness of Content	1	2	3	4	5
Organization of Information	1	2	3	4	5
Clarity of Graphical Information	1	2	3	4	5
Format of Tables	1	2	3	4	5
Overall Value of this Report	1	2	3	4	5

Please provide an answer to the following questions. Use an additional sheet(s) if needed.

What was the most useful/informative part of this report? \_\_\_\_\_  
\_\_\_\_\_

What was the least useful/informative part of this report? \_\_\_\_\_  
\_\_\_\_\_

What changes would you recommend to improve this report? \_\_\_\_\_  
\_\_\_\_\_

Detach and mail to:  
**State Materials Office**  
**Attn: Stacy Scott**  
**5007 NE 39th Ave.**  
**Gainesville, FL 32609**

Or Email to: [Stacy.scott@dot.state.fl.us](mailto:Stacy.scott@dot.state.fl.us)