



**HIGHWAY FACTORS GROUP CHAIRMAN'S
FACTUAL REPORT**

**Highway Attachment – Roadway Surface Friction Test Data for
I-65 in Vicinity of Crash Location**

Greenville, Alabama

HWY21MH009

(9 pages)

Friction Testing Survey Report

Montgomery Area

Description: Along IN0065 from 2 miles north of AL0185 to 0.6 miles south of the Lowndes county line

Mileposts: 132.02 to 139.365 in Butler County

Project accepted for maintenance: 07/10/14

New project awarded:

Project number: IM-I065(442)

Northbound

Test date: 9/9/2016
Temperature: 77
Driver: Josh Matthews
Operator: Tommy Turner
Truck: 14943

MP	FN	Modifier
132.10	44	Bridge
132.50	36	
133.00	36	
133.50	35	
133.50	32	
133.90	45	Bridge
134.00	35	
134.50	35	
135.00	35	
136.00	35	
136.50	36	
137.00	34	
137.50	33	
138.00	33	
138.20	43	Bridge
138.50	35	
139.00	36	

Average: 35

Southbound

Test date: 9/8/2016
Temperature: 80
Driver: Josh Matthews
Operator: Tommy Turner
Truck: 14943

MP	FN	Modifier
139.00	38	
138.50	37	
138.20	47	Bridge
138.00	36	
137.50	34	
137.00	37	
136.50	38	
136.00	39	
135.50	37	
135.00	39	
134.50	37	
134.00	38	
133.90	49	Bridge
133.50	36	
133.00	39	
132.50	35	
132.10	46	Bridge

Average: 37

Tested in the right lane, left wheelpath according to AASHTO T242-96(2013), "Frictional Properties of Paved Surfaces Using A Full Scale Tire."

Friction Testing Survey Report

Southeast Region

Description: Along IN0065 from 2 miles north of AL0185 to 0.6 miles south of the Lowndes county line

Mileposts: 132.02 to 139.365 in Butler County

Project accepted for maintenance: 07/10/14

New project awarded:

Project number: IM-I065(442)

Northbound

Test date: 4/12/2017
Temperature: 70
Driver: Josh Matthews
Operator: Jonathon Ward
Truck: 14943

MP	FN	Modifier	Verified
132.50	36		
133.00	38		
133.50	35		
133.80	42	Bridge	
134.00	36		
134.50	36		
135.00	36		
135.50	38		
136.00	35		
136.50	36		
137.00	37		
137.50	38		
138.00	35		
138.30	46	Bridge	
138.50	38		
139.00	37		

Average: 36

Southbound

Test date: 4/12/2017
Temperature: 65
Driver: Josh Matthews
Operator: Jonathon Ward
Truck: 14943

MP	FN	Modifier	Verified
139.00	38		
138.50	39		
138.30	46	Bridge	
138.00	38		
137.50	37		
137.00	37		
136.50	38		
136.00	39		
135.50	38		
135.00	39		
134.50	36		
134.00	39		
133.80	46	Bridge	
133.50	38		
133.00	38		
132.50	36		

Average: 38

Tested in the right lane, left wheelpath according to AASHTO T242-96(2013), "Frictional Properties of Paved Surfaces Using A Full Scale Tire."

Friction Testing Survey Report

Montgomery Area

Description: Along IN0065 from 2 miles north of ALO185 to 0.6 miles south of the Lowndes county line

Mileposts: from MP 132.02 to MP 139.365 in Butler County

Project accepted for maintenance: 07/10/14

New project awarded:

Project number: IM-I065(442)

Northbound

Test date: 8/15/2018
Temperature: 85
Driver: Stan Reid
Operator: Jonathon Ward
Truck: 16241

MP	FN	Modifier	Verified
132.50	41		
133.00	42		
133.50	38		
133.80	48	Bridge	
134.00	40		
134.50	42		
135.00	42		
135.50	43		
136.00	42		
136.50	41		
137.00	43		
137.50	39		
138.00	40		
138.20	50	Bridge	
138.50	40		
139.00	41		

Average: 41

Southbound

Test date: 8/20/2018
Temperature: 85
Driver: Stan Reid
Operator: Jonathon Ward
Truck: 16241

MP	FN	Modifier	Verified
139.00	42		
138.50	42		
138.20	49	Bridge	
138.00	40		
137.50	40		
137.00	41		
136.50	40		
136.00	42		
135.50	41		
135.00	40		
134.50	40		
134.00	42		
133.80	51	Bridge	
133.50	41		
133.00	42		
132.50	38		

Average: 41

Tested in the right lane, left wheelpath according to AASHTO T242-96(2013), "Frictional Properties of Paved Surfaces Using A Full Scale Tire."

Friction Testing Survey Report

Southeast Region

Description: Along IN0065 from 2 miles north of AL0185 to 0.6 miles south of the Lowndes county line

Mileposts: from MP 132.02 to MP 139.365 in Butler County

Project accepted for maintenance: 07/10/14

New project awarded:

Project number: IM-I065(442)

Northbound

Test date: 8/9/2019
Temperature: 90
Driver: Jeffrey Ransom
Operator: Ron Stokes
Truck: 17707

MP	FN	Modifier	Verified
132.10	48	Bridge	
132.20	48	Bridge	
132.50	40		
133.00	42		
133.50	38		
133.80	50	Bridge	
134.00	41		
134.50	42		
135.00	42		
135.50	43		
136.00	43		
136.50	43		
137.00	42		
137.50	40		
138.00	41		
138.20	51	Bridge	
138.50	41		
139.00	42		

Average: 41

Southbound

Test date: 8/9/2019
Temperature: 85
Driver: Jeffrey Ransom
Operator: Ron Stokes
Truck: 17707

MP	FN	Modifier	Verified
139.00	42		
138.50	42		
138.20	51	Bridge	
138.00	41		
137.50	41		
137.00	41		
136.50	41		
136.00	43		
135.50	42		
135.00	43		
134.50	43		
134.00	44		
133.80	52	Bridge	
133.50	44		
133.00	42		
132.50	40		
132.20	50	Bridge	
132.10	53	Bridge	

Average: 42

Tested in the right lane, left wheelpath according to AASHTO T242-96(2013), "Frictional Properties of Paved Surfaces Using A Full Scale Tire."

Friction Testing Survey Report

Montgomery Area

Description: Along IN0065 from 2 miles north of AL0185 to 0.6 miles south of the Lowndes county line

Mileposts: from MP 132.02 to MP 139.365 in Butler County

Project accepted for maintenance: 07/10/14

New project awarded:

Project number: IM-I065(442)

Northbound

Test date: 8/26/2020
Temperature: 95
Driver: Shane Bragg
Operator: Jonathon Ward
Truck: 16241

MP	FN	Modifier	Verified
132.10	44	Bridge	
132.50	40		
133.00	40		
133.50	36		
133.80	43	Bridge	
134.00	38		
134.50	38		
135.00	41		
135.50	38		
136.00	40		
136.50	39		
137.00	39		
137.50	38		
138.00	37		
138.20	46	Bridge	
138.50	38		
139.00	39		

Average: 39

Southbound

Test date: 8/26/2020
Temperature: 85
Driver: Jonathon Ward
Operator: Shane Bragg
Truck: 16241

MP	FN	Modifier	Verified
139.00	42		
138.50	43		
138.20	43	Bridge	
138.00	42		
137.50	42		
137.00	43		
136.50	42		
136.00	44		
135.50	41		
135.00	43		
134.50	43		
134.00	44		
133.80	52	Bridge	
133.50	43		
133.00	44		
132.50	41		
132.10	51	Bridge	

Average: 43

Tested in the right lane, left wheelpath according to AASHTO T242-96(2013), "Frictional Properties of Paved Surfaces Using A Full Scale Tire."

Friction Testing Survey Report

Montgomery Area

Description: Along IN0065 from 2 miles north of AL0185 to 0.6 miles south of the Lowndes county line

Mileposts: from MP 132.02 to MP 139.365 in Butler County

Project accepted for maintenance: 07/10/14

New project awarded:

Project number: IM-I065(442)

Northbound

Test date: 6/21/2021
Temperature: 95
Driver: Jonathon Ward
Operator: Tommy Turner
Truck: 16241

MP	FN	Modifier	Verified
132.10	45	Bridge	
132.50	38		
133.00	39		
133.50	36		
133.80	46	Bridge	
134.00	37		
134.50	37		
135.00	38		
135.50	40		
136.00	41		
136.50	37		
137.00	40		
137.50	37		
138.00	38		
138.20	49	Bridge	
138.50	38		
139.00	36		

Average: 38

Southbound

Test date: 6/21/2021
Temperature: 85
Driver: Jonathon Ward
Operator: Tommy Turner
Truck: 16241

MP	FN	Modifier	Verified
139.00	39		
138.50	42		
138.20	48	Bridge	
138.00	40		
137.50	39		
137.00	39		
136.50	39		
136.00	41		
135.50	41		
135.00	41		
134.50	39		
134.00	41		
133.80	48	Bridge	
133.50	40		
133.00	41		
132.50	37		
132.10	46	Bridge	

Average: 40

Tested in the right lane, left wheelpath according to AASHTO T242-96(2013), "Frictional Properties of Paved Surfaces Using A Full Scale Tire."

Friction Test Survey Report

IN0065, Butler County

Materials & Tests, Pavement Management Section
Alabama Department of Transportation

NTSB_Friction_Located.xlsx
06/28/2021

ROUTE	MILEPOST	LANE	FN1	FN2	FN3	FN4	FN5	AVG_FN	STD_DEV	
IN0065	137.53	1	38	38	38	39	38	38	0.46	
IN0065	137.57	1	36	37	37	38	37	37	0.67	
IN0065	137.63	1	36	37	37	37	37	37	0.53	
IN0065	137.68	1	37	37	38	38	38	38	0.36	
IN0065	137.73	1	38	38	38	38	37	38	0.36	
IN0065	137.78	1	38	38	38	38	38	38	0.29	
IN0065	137.83	1	37	37	38	38	37	37	0.45	
IN0065	137.89	1	36	37	38	37	37	37	0.49	
IN0065	137.93	1	38	37	39	37	36	37	0.75	
IN0065	137.99	1	38	38	37	38	37	37	0.45	
IN0065	138.03	1	38	38	38	39	38	38	0.57	
IN0065	138.08	1	38	39	38	38	38	38	0.25	
IN0065	138.13	1	38	39	40	39	37	39	1.03	
IN0065	138.17	1	38	39	38	39	38	38	0.28	
IN0065	138.23	1	45	47	46	46	45	46	0.57	Bridge
IN0065	138.28	1	46	46	46	47	45	46	0.57	
IN0065	138.34	1	43	41	41	42	40	41	1.33	
IN0065	138.38	1	41	40	40	40	38	40	1.00	
IN0065	138.44	1	42	40	40	40	39	40	1.10	
IN0065	138.49	1	39	38	39	39	39	39	0.24	
IN0065	138.54	1	37	38	39	37	38	38	0.60	
IN0065	138.59	1	40	39	40	39	38	39	0.53	
IN0065	138.65	1	39	38	37	38	37	38	0.76	
IN0065	138.69	1	38	38	38	38	38	38	0.25	
IN0065	138.73	1	38	37	38	37	38	37	0.39	
IN0065	138.79	1	38	37	38	38	38	38	0.27	
IN0065	138.83	1	39	39	39	38	38	39	0.58	
IN0065	138.89	1	38	38	37	38	38	38	0.37	
IN0065	138.93	1	38	37	38	39	38	38	0.48	
IN0065	138.99	1	40	38	39	39	38	39	0.60	
IN0065	139.03	1	39	38	38	38	39	38	0.53	

Tested 06/28/2021, Air Temperature: 83°F

Friction Test Survey Report

IN0065, Butler County

Materials & Tests, Pavement Management Section
Alabama Department of Transportation

NTSB_Friction_Located.xlsx
06/28/2021

ROUTE	MILEPOST	LANE	FN1	FN2	FN3	FN4	FN5	AVG_FN	STD_DEV
IN0065	137.53	2	40	40	37	37	37	38	1.26
IN0065	137.57	2	40	39	39	37	37	38	1.56
IN0065	137.63	2	38	38	38	35	37	37	1.23
IN0065	137.68	2	41	38	38	37	39	39	1.31
IN0065	137.73	2	41	39	39	37	37	39	1.73
IN0065	137.78	2	41	40	39	38	37	39	1.73
IN0065	137.83	2	41	41	38	36	36	38	2.37
IN0065	137.88	2	40	38	37	36	36	37	1.80
IN0065	137.93	2	40	38	38	37	37	38	1.43
IN0065	137.98	2	40	38	36	36	36	37	1.72
IN0065	138.03	2	39	39	37	35	37	37	1.55
IN0065	138.08	2	40	38	38	37	36	38	1.39
IN0065	138.13	2	41	39	39	38	37	39	1.49
IN0065	138.18	2	41	38	38	36	37	38	1.81
IN0065	138.23	2	48	47	45	45	44	46	1.68
IN0065	138.28	2	44	43	44	41	41	43	1.67
IN0065	138.34	2	43	41	40	41	38	40	1.68
IN0065	138.39	2	40	39	40	39	38	39	0.63
IN0065	138.43	2	40	40	39	38	38	39	1.02
IN0065	138.49	2	41	40	38	38	38	39	1.34
IN0065	138.54	2	41	41	38	39	38	39	1.60
IN0065	138.59	2	40	39	38	38	38	39	0.67
IN0065	138.64	2	40	40	39	37	38	39	1.37
IN0065	138.69	2	38	36	37	37	35	37	0.88
IN0065	138.74	2	37	37	38	36	37	37	0.79
IN0065	138.79	2	40	38	39	37	37	38	1.28
IN0065	138.84	2	41	40	38	37	36	38	1.74
IN0065	138.88	2	40	38	37	37	37	38	1.52
IN0065	138.94	2	38	37	37	37	38	37	0.53
IN0065	138.98	2	39	40	40	38	38	39	0.96
IN0065	139.04	2	41	40	39	38	39	39	1.20

Tested 06/28/2021, Air Temperature: 83°F