

MOTORCYCLE DYNAMICS TESTING- SEPTEMBER 16, 2021

Vehicles	Drivers	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Average
BMW R 1250 RT-P	ROGERS	01:35.52	01:35.49	01:35.55	01:35.11	01:34.97	01:35.33
	CUPP	01:35.32	01:34.90	01:34.99	01:35.30	01:34.96	01:35.10
	AGEMA	01:43.31	01:42.40	01:42.77	01:42.48	01:42.19	01:42.63
	DARLINGTON	01:37.22	01:37.11	01:36.65	01:36.62	01:36.35	01:36.79
Overall Average							01:37.46
Harley-Davidson FLHTP	AGEMA	01:52.84	01:52.90	01:52.08	01:51.66	01:52.32	01:52.36
	DARLINGTON	01:48.66	01:49.19	01:49.24	01:49.32	01:48.98	01:49.08
	CUPP	01:48.76	01:49.27	01:48.51	01:48.52	01:47.76	01:48.57
	ROGERS	01:47.40	01:47.34	01:47.39	01:47.20	01:47.12	01:47.29
Overall Average							01:49.32
Harley-Davidson FLHP	DARLINGTON	01:51.16	01:50.95	01:50.90	01:50.77	01:50.46	01:50.85
	AGEMA	01:54.80	01:54.61	01:54.41	01:54.30	01:54.73	01:54.57
	ROGERS	01:49.06	01:49.71	01:49.50	01:49.20	01:49.48	01:49.39
	CUPP	01:49.23	01:48.57	01:48.74	01:49.09	01:48.93	01:48.91
Overall Average							01:50.93
Yamaha FJR1300P-AB	CUPP	01:37.96	01:37.18	01:36.68	01:36.74	01:36.22	01:36.95
	ROGERS	01:35.89	01:36.02	01:35.31	01:35.34	01:36.01	01:35.71
	DARLINGTON	01:37.59	01:37.55	01:37.36	01:37.13	01:37.00	01:37.33
	AGEMA	01:43.52	01:43.79	01:43.47	01:42.73	01:42.99	01:43.30
Overall Average							01:38.32

SUMMARY OF MOTORCYCLE BRAKE TESTING- SEPTEMBER 18, 2021

	Phase 1 Average Deceleration Rate	Phase 2 Average Deceleration Rate	Overall Average Deceleration Rate	Projected Stopping Distance from 60.0 MPH
BMW R 1250 RT-P	27.86	28.13	28.00	138.30
Harley-Davidson FLHTP	26.38	27.00	26.69	145.10
Harley-Davidson FLHP	27.36	27.40	27.38	141.40
Yamaha FJR1300P-AB	25.86	26.51	26.19	147.90

SUMMARY OF MOTORCYCLE ACCELERATION & TOP SPEED SEPTEMBER 18, 2021

	BMW R 1250 RT-P	Harley-Davidson FLHTP	Harley-Davidson FLHP	Yamaha FJR1300 P-AB
ACCELERATION (seconds)				
0-20 mph	1.42	1.38	1.26	1.75
0-30 mph	2.08	2.05	1.89	2.37
0-40 mph	2.67	2.84	2.68	2.98
0-50 mph	3.37	4.17	3.96	3.56
0-60 mph	4.17	5.56	5.30	4.45
0-70 mph	4.95	7.16	6.85	5.26
0-80 mph	5.98	9.48	9.04	6.42
0-90 mph	7.16	12.48	11.81	7.62
0-100 mph	9.29	18.74	17.20	9.25
TOP SPEED (mph)	134	110	110	145
DISTANCE TO REACH (miles)				
100 mph	0.15	0.37	0.33	0.15
120 mph	0.35	N/A	N/A	0.30
Top Speed	2.42	0.83	0.71	0.94

**SUMMARY OF ACCELERATION AND TOP SPEED
SEPTEMBER 18, 2021**

	Chevrolet Tahoe 5.3L RWD	Chevrolet Tahoe 5.3L 4WD	Dodge Charger 3.6L AWD	Dodge Charger 5.7L RWD
--	-----------------------------	-----------------------------	---------------------------	---------------------------

ACCELERATION (seconds)				
0-20 mph	2.09	2.09	1.76	1.84
0-30 mph	3.07	3.14	2.72	2.63
0-40 mph	4.42	4.57	3.89	3.59
0-50 mph	5.84	6.07	5.35	4.67
0-60 mph	7.65	7.95	7.17	6.15
0-70 mph	9.64	10.08	9.33	7.73
0-80 mph	12.18	12.77	11.57	9.44
0-90 mph	15.12	16.01	14.60	11.70
0-100 mph	18.81	19.98	17.91	14.06
TOP SPEED (mph)	130	124	139	139
DISTANCE TO REACH (miles)				
100 mph	0.33	0.35	0.31	0.24
120 mph	0.73	0.82	0.71	0.46
Top Speed	1.58	0.98	2.62	0.93

	Dodge Durango 3.6L AWD	Dodge Durango 5.7L AWD	Ford Police Interceptor Utility Hybrid AWD	Ford Police Interceptor Utility 3.0L EcoBoost AWD
--	---------------------------	---------------------------	---	--

ACCELERATION (seconds)				
0-20 mph	1.84	1.54	1.76	1.49
0-30 mph	2.92	2.42	2.94	2.19
0-40 mph	4.28	3.61	4.22	3.11
0-50 mph	5.89	5.03	5.65	4.15
0-60 mph	8.16	6.79	7.25	5.45
0-70 mph	10.67	8.74	9.19	6.88
0-80 mph	13.85	11.25	11.45	8.78
0-90 mph	17.77	14.17	14.18	10.92
0-100 mph	22.80	18.10	17.40	13.47
TOP SPEED (mph)	127	130	136	148
DISTANCE TO REACH (miles)				
100 mph	0.42	0.33	0.30	0.23
120 mph	1.14	0.33	0.61	0.46
Top Speed	2.87	1.28	1.25	1.55

	Ford Police Interceptor Utility 3.3L AWD	Ford F150 Police Responder 3.5L EcoBoost	Ford Mustang Mach-E AWD
--	--	--	----------------------------

ACCELERATION (seconds)			
0-20 mph	2.09	1.63	1.28
0-30 mph	3.21	2.35	1.87
0-40 mph	4.55	3.36	2.45
0-50 mph	6.09	4.42	3.16
0-60 mph	7.79	5.79	4.03
0-70 mph	9.86	7.28	5.08
0-80 mph	12.42	9.17	6.46
0-90 mph	15.46	11.30	8.58
0-100 mph	19.32	14.34	11.94
TOP SPEED (mph)	136	120	124
DISTANCE TO REACH (miles)			
100 mph	0.34	0.25	0.22
120 mph	0.75	0.55	0.68
Top Speed	1.83	0.55	2.10

SUMMARY OF VEHICLE BRAKE TESTING- SEPTEMBER 18, 2021

	Phase 1 Average Deceleration Rate	Phase 2 Average Deceleration Rate	Overall Average Deceleration Rate	Projected Stopping Distance from 60.0 MPH
Chevrolet Tahoe 5.3L RWD	29.65	30.33	29.99	129.10
Chevrolet Tahoe 5.3L 4WD	29.00	29.92	29.46	131.50
Dodge Charger 3.6L AWD	29.82	29.89	29.85	129.70
Dodge Charger 5.7L RWD	29.28	29.53	29.40	131.70
Dodge Durango 3.6L AWD	28.76	29.13	28.94	133.80
Dodge Durango 5.7L AWD	28.63	28.08	28.36	136.60
Ford Police Interceptor Utility Hybrid AWD	28.82	29.31	29.07	133.20
Ford Police Interceptor Utility 3.0L EcoBoost AWD	28.71	29.30	29.00	133.50
Ford Police Interceptor Utility 3.3L AWD	28.59	29.00	28.79	134.50
Ford F150 Police Responder 3.5L EcoBoost	23.78	24.35	24.07	160.90
Ford Mustang Mach-E AWD	30.94	31.01	30.98	125.00

VEHICLE DYNAMICS TESTING- SEPTEMBER 20, 2021

Vehicles	Drivers	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Average			
Chevrolet Tahoe 5.3L RWD	AGEMA	01:39.66	01:39.34	01:39.24	01:38.83	01:39.08	01:39.23			
	DARLINGTON	01:38.21	01:37.92	01:37.85	01:37.58	01:37.81	01:37.87			
	LOONEY	01:38.06	01:38.06	01:38.06	01:37.87	01:38.23	01:38.06			
	ROGERS	01:37.90	01:37.68	01:38.04	01:38.01	01:38.23	01:37.97			
OVERALL AVERAGE								01:38.28		
Chevrolet Tahoe 5.3L 4WD	LOONEY	01:38.98	01:39.17	01:39.30	01:39.28	01:39.30	01:39.21			
	ROGERS	01:38.98	01:38.68	01:38.74	01:38.76	01:38.70	01:38.77			
	MERCER	01:38.01	01:38.29	01:38.06	01:37.66	01:38.33	01:38.07			
	AGEMA	01:39.90	01:39.92	01:40.34	01:40.30	01:40.59	01:40.21			
OVERALL AVERAGE								01:39.07		
Dodge Charger 3.6L AWD	DARLINGTON	01:37.95	01:38.04	01:37.52	01:37.65	01:37.55	01:37.74			
	LOONEY	01:38.12	01:38.63	01:38.25	01:38.26	01:38.70	01:38.39			
	ROGERS	01:37.28	01:37.04	01:37.23	01:37.27	01:37.36	01:37.24			
	MERCER	01:37.39	01:37.64	01:37.77	01:37.47	01:37.34	01:37.52			
OVERALL AVERAGE								01:37.72		
Dodge Charger 5.7L RWD	AGEMA	01:36.98	01:36.64	01:36.65	01:36.54	01:36.85	01:36.73			
	DARLINGTON	01:36.56	01:36.05	01:36.01	01:36.27	01:36.35	01:36.25			
	LOONEY	01:36.84	01:36.65	01:36.74	01:36.63	01:36.86	01:36.74			
	ROGERS	01:36.08	01:35.84	01:35.97	01:36.02	01:36.11	01:36.00			
OVERALL AVERAGE								01:36.43		
Dodge Durango 3.6L AWD	ROGERS	01:40.65	01:40.45	01:40.61	01:40.52	01:40.48	01:40.54			
	MERCER	01:41.45	01:41.04	01:41.01	01:41.74	01:41.88	01:41.42			
	AGEMA	01:42.03	01:41.89	01:42.01	01:41.60	01:41.79	01:41.86			
	DARLINGTON	01:41.27	01:41.56	01:41.52	01:41.80	01:41.15	01:41.46			
OVERALL AVERAGE								01:41.32		
Dodge Durango 5.7L AWD	ROGERS	01:38.57	01:38.54	01:38.25	01:38.55	01:38.42	01:38.47			
	MERCER	01:38.19	01:37.98	01:38.02	01:38.13	01:38.02	01:38.07			
	AGEMA	01:40.26	01:39.70	01:39.92	01:40.24	01:40.26	01:40.08			
	DARLINGTON	01:38.91	01:38.71	01:38.59	01:38.87	01:38.94	01:38.81			
OVERALL AVERAGE								01:38.85		
Ford Police Interceptor Utility Hybrid AWD	LOONEY	01:39.60	01:39.75	01:40.14	01:39.78	01:39.66	01:39.78			
	ROGERS	01:38.69	01:38.72	01:38.92	01:38.95	01:38.90	01:38.84			
	MERCER	01:38.36	01:38.48	01:38.56	01:38.56	01:38.64	01:38.52			
	AGEMA	01:39.32	01:39.69	01:39.77	01:39.20	01:39.38	01:39.47			
OVERALL AVERAGE								01:39.15		
Ford Police Interceptor Utility 3.0L EcoBoost AWD	MERCER	01:35.69	01:35.76	01:35.06	01:35.54	01:35.57	01:35.53			
	AGEMA	01:36.89	01:36.95	01:36.22	01:36.40	01:36.85	01:36.66			
	DARLINGTON	01:35.66	01:35.79	01:35.40	01:35.21	01:35.82	01:35.58			
	LOONEY	01:36.35	01:36.64	01:36.13	01:36.02	01:36.21	01:36.27			
OVERALL AVERAGE								01:36.01		
Ford Police Interceptor Utility 3.3L AWD	DARLINGTON	01:38.65	01:38.43	01:38.50	01:38.45	01:37.72	01:38.35			
	LOONEY	01:39.47	01:39.29	01:39.07	01:39.59	01:39.48	01:39.38			
	ROGERS	01:38.31	01:38.70	01:38.68	01:38.60	01:38.29	01:38.49			
	MERCER	01:37.99	01:37.81	01:38.27	01:38.45	01:38.29	01:38.16			
OVERALL AVERAGE								01:38.60		
Ford F-150 Police Responder 3.5L EcoBoost	MERCER	01:39.04	01:38.80	01:38.92	01:38.79	01:39.09	01:38.93			
	AGEMA	01:39.06	01:38.99	01:39.08	01:39.14	01:39.00	01:39.05			
	DARLINGTON	01:38.89	01:38.18	01:39.01	01:39.11	01:38.83	01:38.81			
	LOONEY	01:39.75	01:39.56	01:39.39	01:39.63	01:39.06	01:39.48			
OVERALL AVERAGE								01:39.07		
Ford Mustang Mach-E AWD	MCCARTHY	8:12	99%	01:40.84	01:42.50	01:42.10	01:42.08	01:42.17	70%	01:41.94
	MCCARTHY	9:23	80%	01:40.67	01:41.98	01:42.79	01:42.67	01:42.93	51%	01:42.21
	MCCARTHY	11:42	87%	01:41.08	01:41.89	01:42.71	01:42.88	01:43.72	57%	01:42.46
	MCCARTHY	13:38	75%	01:40.14	01:42.35	01:42.58	01:42.84	01:42.96	48%	01:42.17
	OVERALL AVERAGE									