

Bonneville Pro - Version 3.2
Racing Systems Analysis - www.QUARTERjr.com

File: motorcyc.dat

Note: test case for Bonneville Pro 3.2

General Data		Engine Dyno Data			Transmission Data			
		RPM	HP	Torque	Gear	Ratio	Eff	Shift@
Elevation - feet	600	6500	40	32	Clutch:			
Barometer - in Hg	29.92	7000	47	35	Slip RPM		9000	
Temperature - deg F	69	7500	54	38	Clutch Slippage		1.000	
Relative Humidity - %	45	8000	58	38	Lock-up option?		Yes	
Wind Velocity - MPH	6.0	8500	62	38				
Wind Angle - degs	45	9000	65	38				
-----		9500	70	39				
Track: El Mirage Dry Lake		10000	72	38				
Traction Index	8	10500	73	37				
		11000	74	35				
Vehicle Data		11500	73	33				
Weight - lbs	615	Fuel System:						
Wheelbase - inches	80	Gasoline Carburetor						
		HP/Torque Multiplier	1.000					

Final Drive Data

Gear Ratio	5.72
Efficiency	0.990
Tire Diameter - inches	25.0
Tire Width - inches	5.00

Aerodynamic Data	
Frontal Area - sq ft	6.6
Drag Coefficient	0.550
Lift Coefficient	0.050

1.055

Time	Distance	MPH	Acceleration	Gear	RPM
0.00	0.00	0.0	0.76	1	9,000
2.08	0.01	43.1	0.73	1	11,000
2.28	0.02	45.7	0.56	2	7,790
3.88	0.04	63.8	0.47	2	10,880
4.08	0.04	65.6	0.40	3	8,960
5.00	0.06	73.5	0.37	3	10,020
5.75	0.08	79.2	0.33	3	10,800
5.95	0.08	80.5	0.30	4	9,320
7.74	0.13	91.1	0.24	4	10,540
8.19	0.14	93.4	0.23	4	10,800
8.39	0.14	94.3	0.21	5	9,590
9.75	0.18	100.0	0.18	5	10,160
10.00	0.19	101.0	0.17	5	10,250
11.56	0.23	106.3	0.14	5	10,790
11.75	0.24	106.8	0.13	6	9,700
12.22	0.25	108.1	0.12	6	9,810
15.00	0.34	114.4	0.09	6	10,380
19.99	0.50	121.5	0.05	6	11,030
20.00	0.50	121.5	0.05	6	11,030
25.00	0.67	125.2	0.02	6	11,350
27.24	0.75	126.1	0.02	6	11,440
30.00	0.85	126.9	0.01	6	11,510
34.32	1.00	127.7	0.01	6	11,580
35.00	1.02	127.7	0.01	6	11,580
37.14	1.10	127.9	0.00	6	11,600
39.95	1.20	128.2	0.00	6	11,620
40.00	1.20	128.2	0.00	6	11,620
42.75	1.30	128.4	0.00	6	11,650