

Bonneville Pro - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

File: gascoupe.dat
 Note: test case for Bonneville Pro 3.2

General Data

Elevation - feet 4500
 Barometer - in Hg 29.92
 Temperature - deg F 75
 Relative Humidity - % 55
 Wind Velocity - MPH 5.0
 Wind Angle - degs 90

 Track: Bonneville - 5 Miles
 Traction Index 5

Vehicle Data

Weight - lbs 2350
 Wheelbase - inches 110

Engine Dyno Data

RPM	HP	Torque
6700	1030	807
7200	1100	802
7600	1140	788
8200	1190	762
8500	1200	741
8800	1180	704
9100	1080	623
9300	950	537

Fuel System:
 Gasoline Carburetor
 HP/Torque Multiplier 1.000

Transmission Data

Clutch:
 Slip RPM 7200
 Clutch Slippage 1.005
 Lock-up option? No

Gear	Ratio	Eff	Shift@
2nd -	2.40	0.990	8900
3rd -	1.99	0.991	9000
4th -	1.59	0.992	9000
5th -	1.24	0.993	9000
6th -	1.00	0.994	0

Final Drive Data

Gear Ratio 3.10
 Efficiency 0.970
 Tire Rollout - inches 103.0
 Tire Width - inches 10.00

Aerodynamic Data

Frontal Area - sq ft 19.5
 Drag Coefficient 0.290
 Lift Coefficient 0.600

Time	Distance	MPH	Acceleration	Gear	RPM
0.00	0.00	0.0	1.16	1	7,200
3.38	0.05	100.0	1.08	1	8,000
3.88	0.06	111.2	0.93	1	8,900
4.08	0.07	115.7	0.99	2	7,670
5.18	0.11	136.0	0.71	2	9,000
5.38	0.12	139.3	0.75	3	7,370
7.63	0.21	170.5	0.50	3	9,000
7.83	0.22	172.7	0.50	4	7,200
10.00	0.33	194.2	0.41	4	7,980
10.66	0.37	200.0	0.39	4	8,220
13.27	0.52	218.9	0.25	4	8,990
13.47	0.54	220.0	0.25	5	7,280
20.00	0.96	247.8	0.15	5	8,190
20.56	1.00	249.5	0.14	5	8,250
30.00	1.68	267.4	0.04	5	8,830
34.25	2.00	270.1	0.02	5	8,920
40.00	2.43	271.4	0.01	5	8,960
40.89	2.50	271.5	0.00	5	8,960
47.52	3.00	272.1	0.00	5	8,980
50.00	3.19	272.3	0.00	5	8,990
54.12	3.50	272.7	0.00	5	9,000
60.00	3.95	273.2	0.00	5	9,020
60.72	4.00	273.3	0.00	5	9,020
67.30	4.50	273.9	0.00	5	9,040
70.00	4.71	274.1	0.00	5	9,050
73.86	5.00	274.4	0.00	5	9,060