

Bonneville Pro - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

File: sports.dat

Note: test case for Bonneville Pro 3.2

General Data

Elevation - feet 850
Barometer - in Hg 29.92
Temperature - deg F 72
Relative Humidity - % 35
Wind Velocity - MPH 0.0
Wind Angle - degs 0

Track: One Mile Asphalt
Traction Index 5

Vehicle Data

Weight - lbs 2300
Wheelbase - inches 101

Engine Dyno Data

RPM	HP	Torque
3500	267	401
4500	351	410
5500	432	413
6500	491	397
7000	505	379
7500	468	328
8000	421	276
7800	3630	2444
10500	73	37
11000	74	35
11500	73	33

Fuel System:

Gasoline Carburetor

HP/Torque Multiplier 1.000

Transmission Data

Torque Converter:
Stall RPM 5500
Converter Slippage 1.060
Lock-up option? No
Torque Multiplication 1.70

Gear	Ratio	Eff	Shift@
2nd -	1.76	0.970	7600
3rd -	1.00	0.990	100

Final Drive Data

Gear Ratio 4.56
Efficiency 0.970
Tire Diameter - inches 32.4
Tire Width - inches 12.00

Aerodynamic Data

Frontal Area - sq ft 22.1
Drag Coefficient 0.400
Lift Coefficient 0.250

Time	Distance	MPH	Acceleration	Gear	RPM
0.00	0.00	0.0	1.43	1	5,500
1.00	0.00	31.5	1.12	1	5,500
2.00	0.02	51.9	0.83	1	5,760
2.46	0.02	60.0	0.76	1	5,890
3.00	0.03	67.5	0.52	1	6,230
4.00	0.05	78.3	0.44	1	7,220
4.45	0.06	82.3	0.39	1	7,590
4.70	0.07	85.1	0.49	2	5,700
5.00	0.08	88.1	0.46	2	5,730
6.00	0.10	97.8	0.42	2	5,820
6.25	0.11	100.0	0.41	2	5,840
6.79	0.13	104.8	0.38	2	5,880
7.00	0.13	106.5	0.38	2	5,900
8.00	0.16	114.3	0.31	2	5,980
9.00	0.19	120.7	0.28	2	6,310
10.00	0.23	126.7	0.26	2	6,620
10.60	0.25	130.0	0.25	2	6,800
11.00	0.26	132.2	0.25	2	6,910
12.00	0.30	137.1	0.21	2	7,160
13.00	0.34	141.3	0.17	2	7,380
13.86	0.37	144.3	0.15	2	7,540
14.00	0.38	144.8	0.15	2	7,560
15.00	0.42	147.7	0.12	2	7,710
16.00	0.46	153.1	0.80	2	7,990
16.82	0.50	174.5	0.92	2	9,100
17.00	0.51	177.7	0.76	2	9,260
18.00	0.56	187.8	0.27	2	9,780
19.00	0.61	191.5	0.11	2	9,970
19.23	0.63	192.0	0.08	2	10,000
20.00	0.67	193.0	0.04	2	10,050
21.00	0.72	193.6	0.02	2	10,080
21.56	0.75	193.7	0.01	2	10,090
22.00	0.77	193.8	0.01	2	10,090
23.00	0.83	193.9	0.00	2	10,100
23.88	0.87	194.0	0.00	2	10,100
24.00	0.88	194.0	0.00	2	10,100
25.00	0.94	194.1	0.00	2	10,100
26.00	0.99	194.2	0.00	2	10,110
26.20	1.00	194.2	0.00	2	10,110