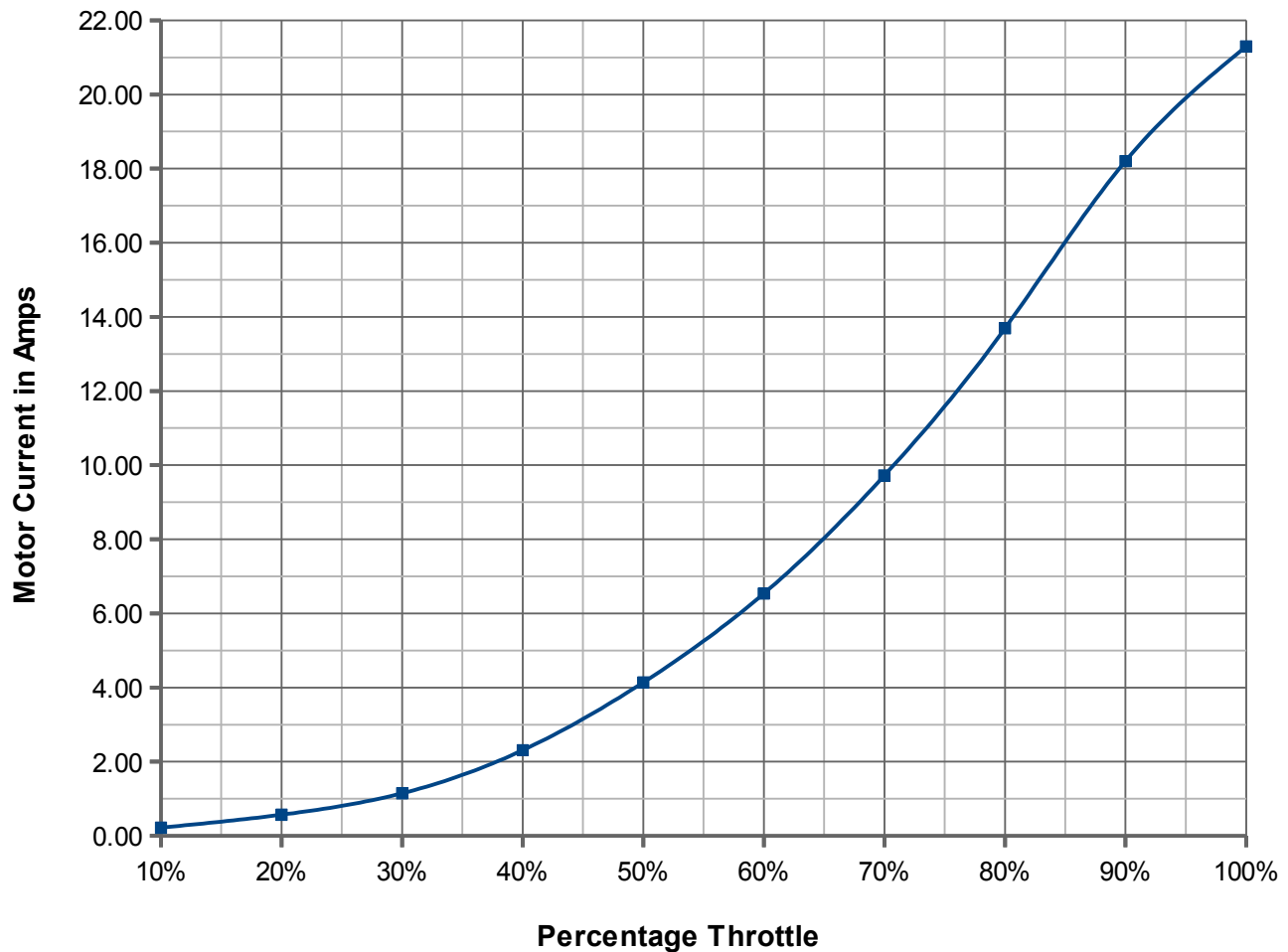


# Cobra CM-2820/24 Motor Test Data, Kv=490

Data Collected at 14.8 volts with APC 16x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.22	3.24	968	60.2	2.12	18.57
20%	0.57	8.45	1,515	145.5	5.13	17.22
30%	1.15	17.01	2,016	262.2	9.24	15.42
40%	2.31	34.20	2,596	456.4	16.08	13.34
50%	4.14	61.26	3,146	712.1	25.10	11.62
60%	6.54	96.72	3,677	975.2	34.37	10.08
70%	9.72	143.86	4,163	1293.5	45.59	8.99
80%	13.69	202.66	4,616	1618.4	57.04	7.99
90%	18.21	269.43	5,050	1935.5	68.21	7.18
100%	21.30	315.18	5,277	2141.4	75.47	6.79

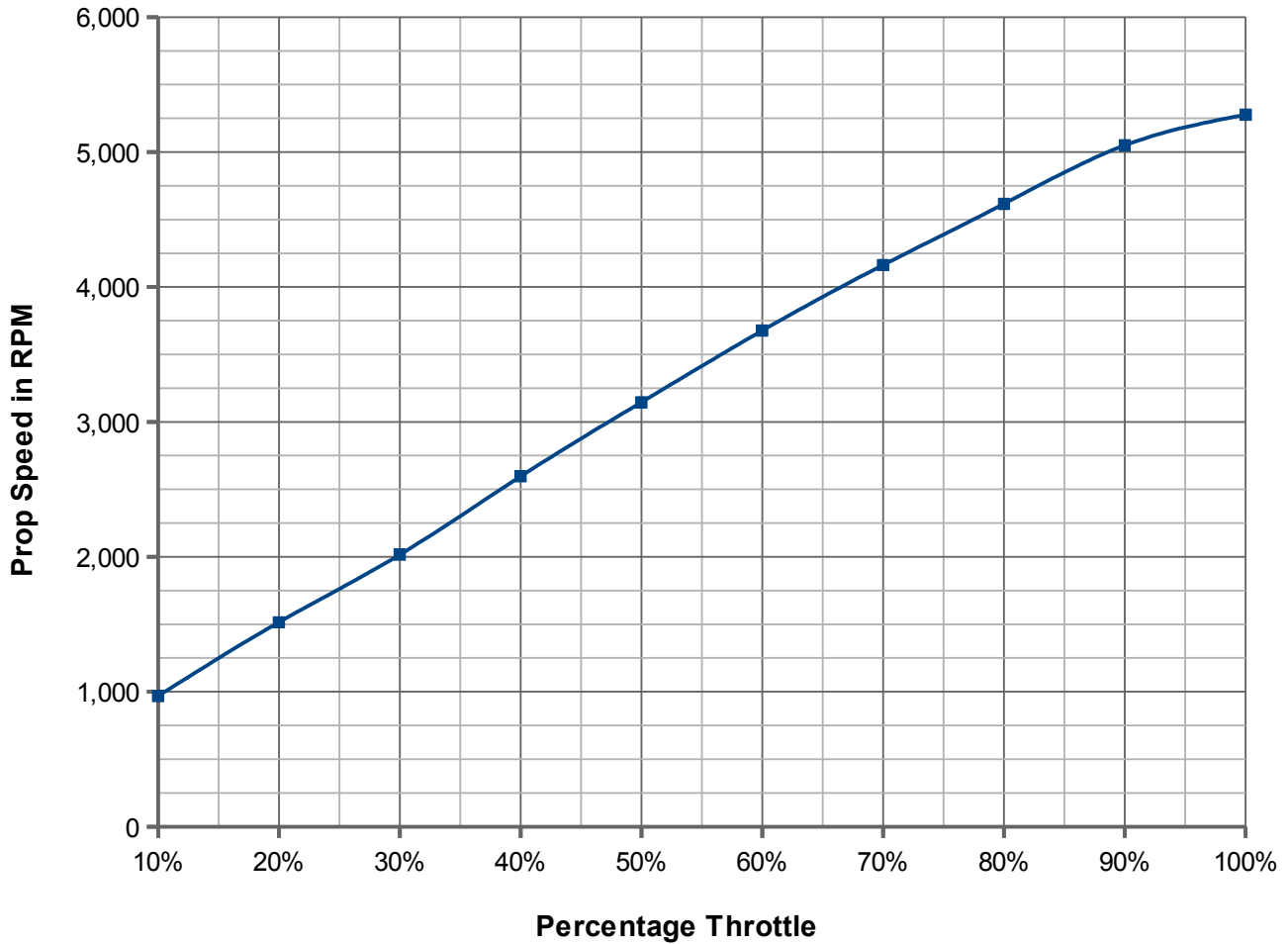
## Motor Current vs Throttle Position



# Cobra CM-2820/24 Motor Test Data, Kv=490

Data Collected at 14.8 volts with APC 16x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.22	3.24	968	60.2	2.12	18.57
20%	0.57	8.45	1,515	145.5	5.13	17.22
30%	1.15	17.01	2,016	262.2	9.24	15.42
40%	2.31	34.20	2,596	456.4	16.08	13.34
50%	4.14	61.26	3,146	712.1	25.10	11.62
60%	6.54	96.72	3,677	975.2	34.37	10.08
70%	9.72	143.86	4,163	1293.5	45.59	8.99
80%	13.69	202.66	4,616	1618.4	57.04	7.99
90%	18.21	269.43	5,050	1935.5	68.21	7.18
100%	21.30	315.18	5,277	2141.4	75.47	6.79

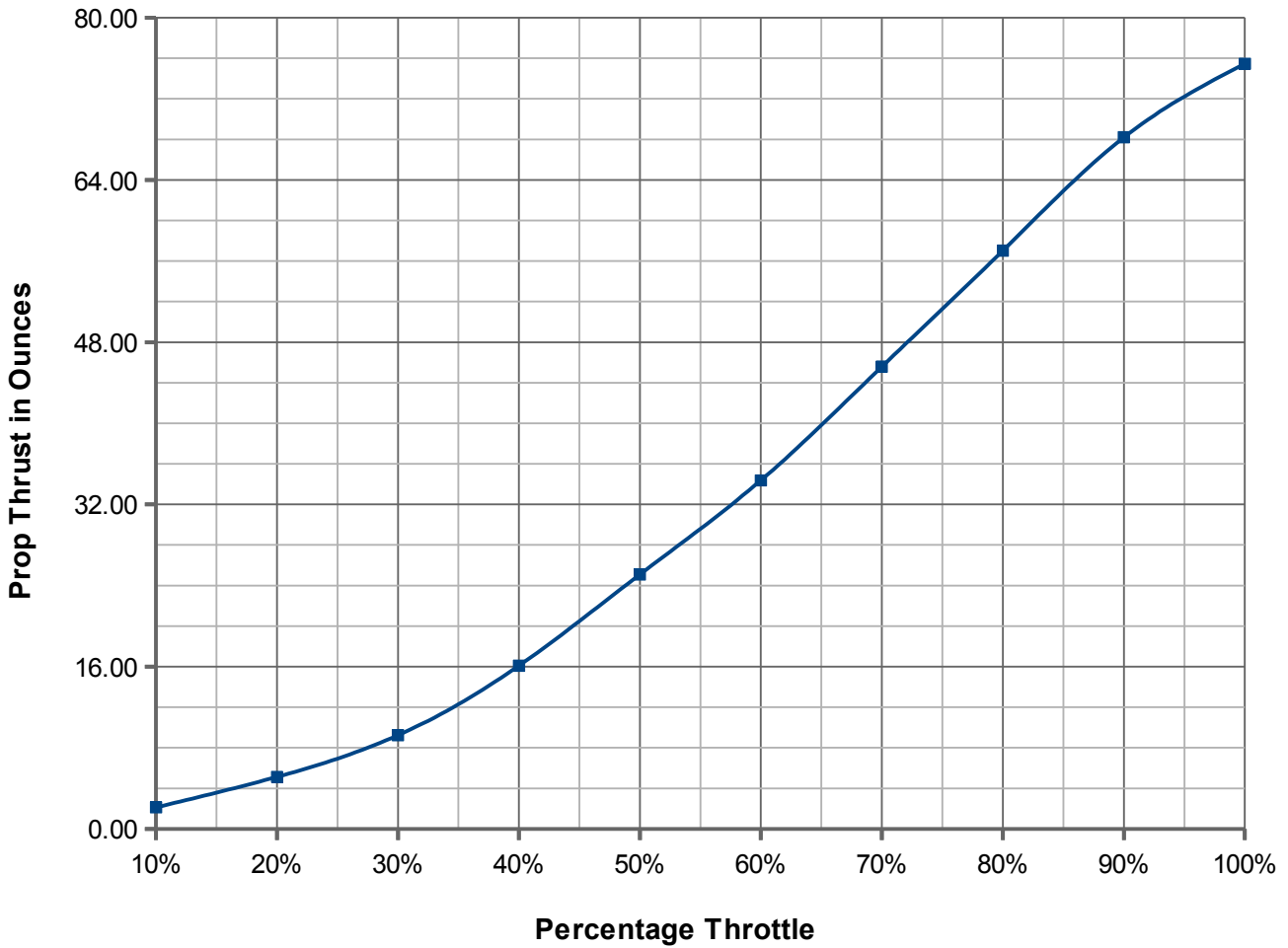
## Propeller RPM vs Throttle Position



# Cobra CM-2820/24 Motor Test Data, Kv=490

Data Collected at 14.8 volts with APC 16x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.22	3.24	968	60.2	2.12	18.57
20%	0.57	8.45	1,515	145.5	5.13	17.22
30%	1.15	17.01	2,016	262.2	9.24	15.42
40%	2.31	34.20	2,596	456.4	16.08	13.34
50%	4.14	61.26	3,146	712.1	25.10	11.62
60%	6.54	96.72	3,677	975.2	34.37	10.08
70%	9.72	143.86	4,163	1293.5	45.59	8.99
80%	13.69	202.66	4,616	1618.4	57.04	7.99
90%	18.21	269.43	5,050	1935.5	68.21	7.18
100%	21.30	315.18	5,277	2141.4	75.47	6.79

## Propeller Thrust vs Throttle Position



# Cobra CM-2820/24 Motor Test Data, Kv=490

Data Collected at 14.8 volts with APC 16x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.22	3.24	968	60.2	2.12	18.57
20%	0.57	8.45	1,515	145.5	5.13	17.22
30%	1.15	17.01	2,016	262.2	9.24	15.42
40%	2.31	34.20	2,596	456.4	16.08	13.34
50%	4.14	61.26	3,146	712.1	25.10	11.62
60%	6.54	96.72	3,677	975.2	34.37	10.08
70%	9.72	143.86	4,163	1293.5	45.59	8.99
80%	13.69	202.66	4,616	1618.4	57.04	7.99
90%	18.21	269.43	5,050	1935.5	68.21	7.18
100%	21.30	315.18	5,277	2141.4	75.47	6.79

## Propeller Efficiency vs Throttle Position

