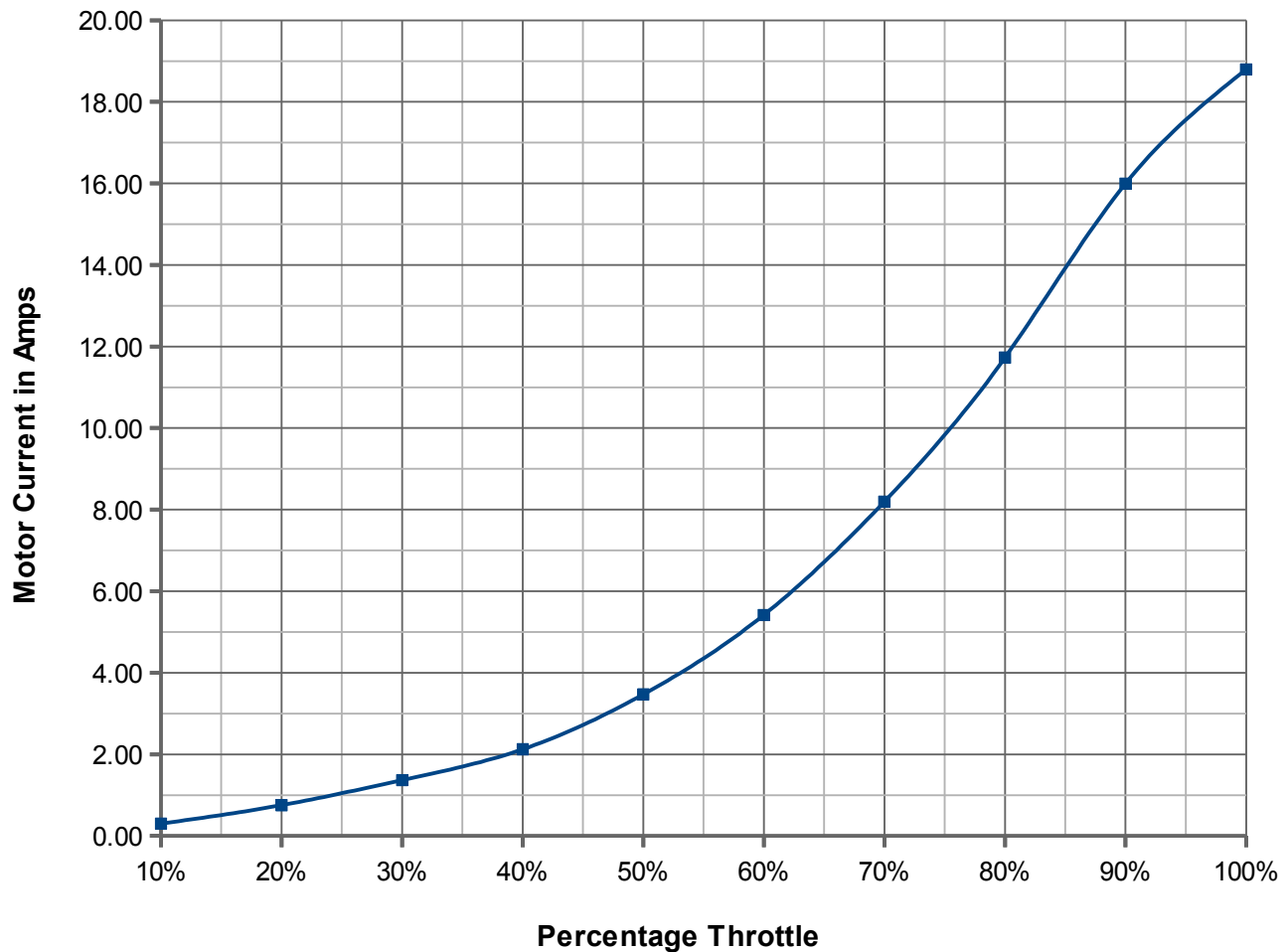


Cobra CM-2820/24 Motor Test Data, Kv=490

Data Collected at 22.2 volts with APC 12x4.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.30	6.64	1,973	94.2	3.32	14.19
20%	0.75	16.72	2,950	209.2	7.37	12.51
30%	1.37	30.33	3,686	342.0	12.05	11.28
40%	2.12	47.13	4,338	480.8	16.94	10.20
50%	3.47	76.99	5,157	703.7	24.80	9.14
60%	5.42	120.26	5,979	971.1	34.22	8.08
70%	8.20	181.93	6,866	1295.7	45.66	7.12
80%	11.73	260.41	7,684	1653.3	58.27	6.35
90%	16.00	355.13	8,416	2032.4	71.63	5.72
100%	18.80	417.29	8,834	2242.0	79.01	5.37

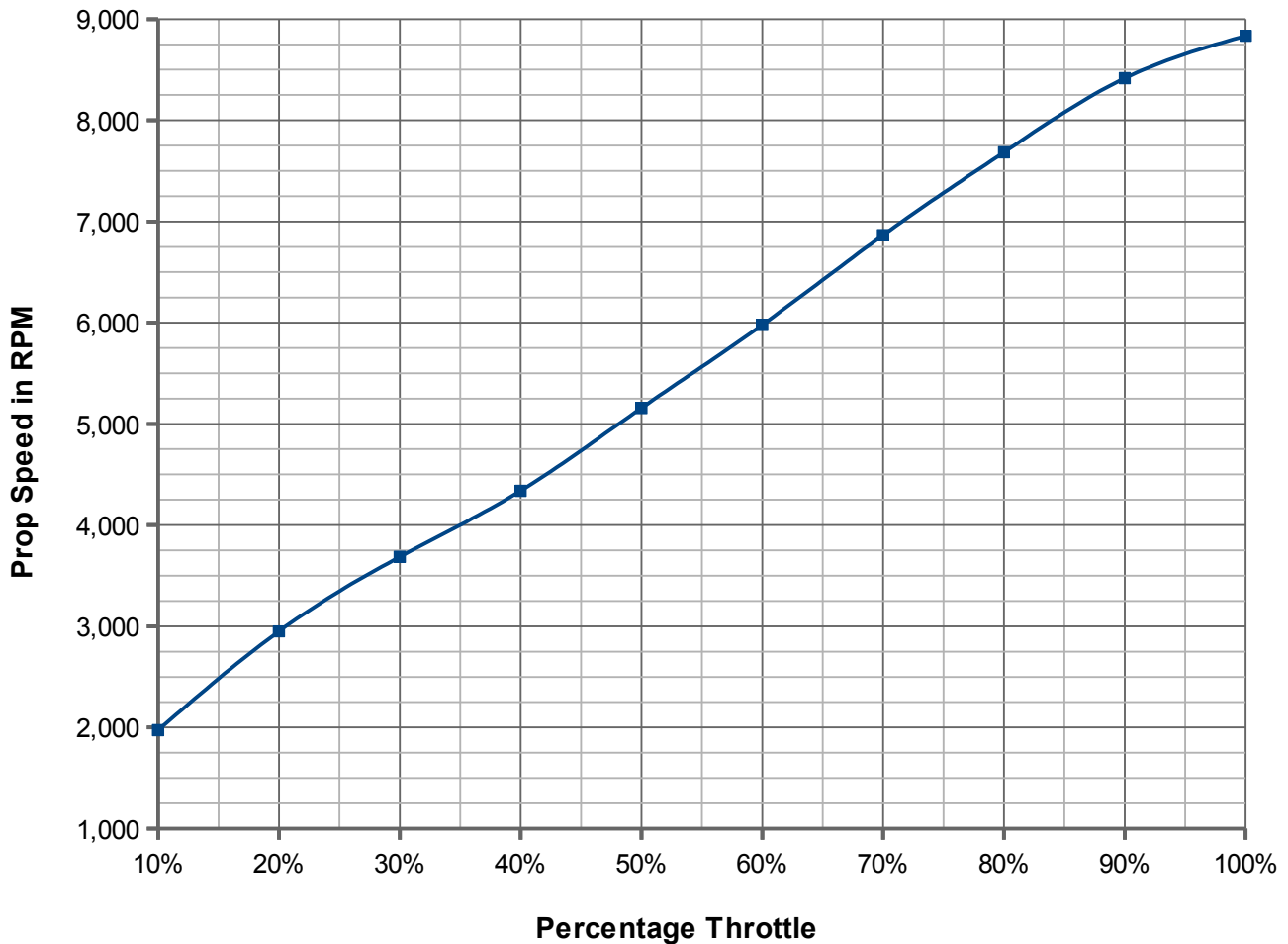
Motor Current vs Throttle Position



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

Data Collected at 22.2 volts with APC 12x4.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.30	6.64	1,973	94.2	3.32	14.19
20%	0.75	16.72	2,950	209.2	7.37	12.51
30%	1.37	30.33	3,686	342.0	12.05	11.28
40%	2.12	47.13	4,338	480.8	16.94	10.20
50%	3.47	76.99	5,157	703.7	24.80	9.14
60%	5.42	120.26	5,979	971.1	34.22	8.08
70%	8.20	181.93	6,866	1295.7	45.66	7.12
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90%	16.00	355.13	8,416	2032.4	71.63	5.72
100%	18.80	417.29	8,834	2242.0	79.01	5.37

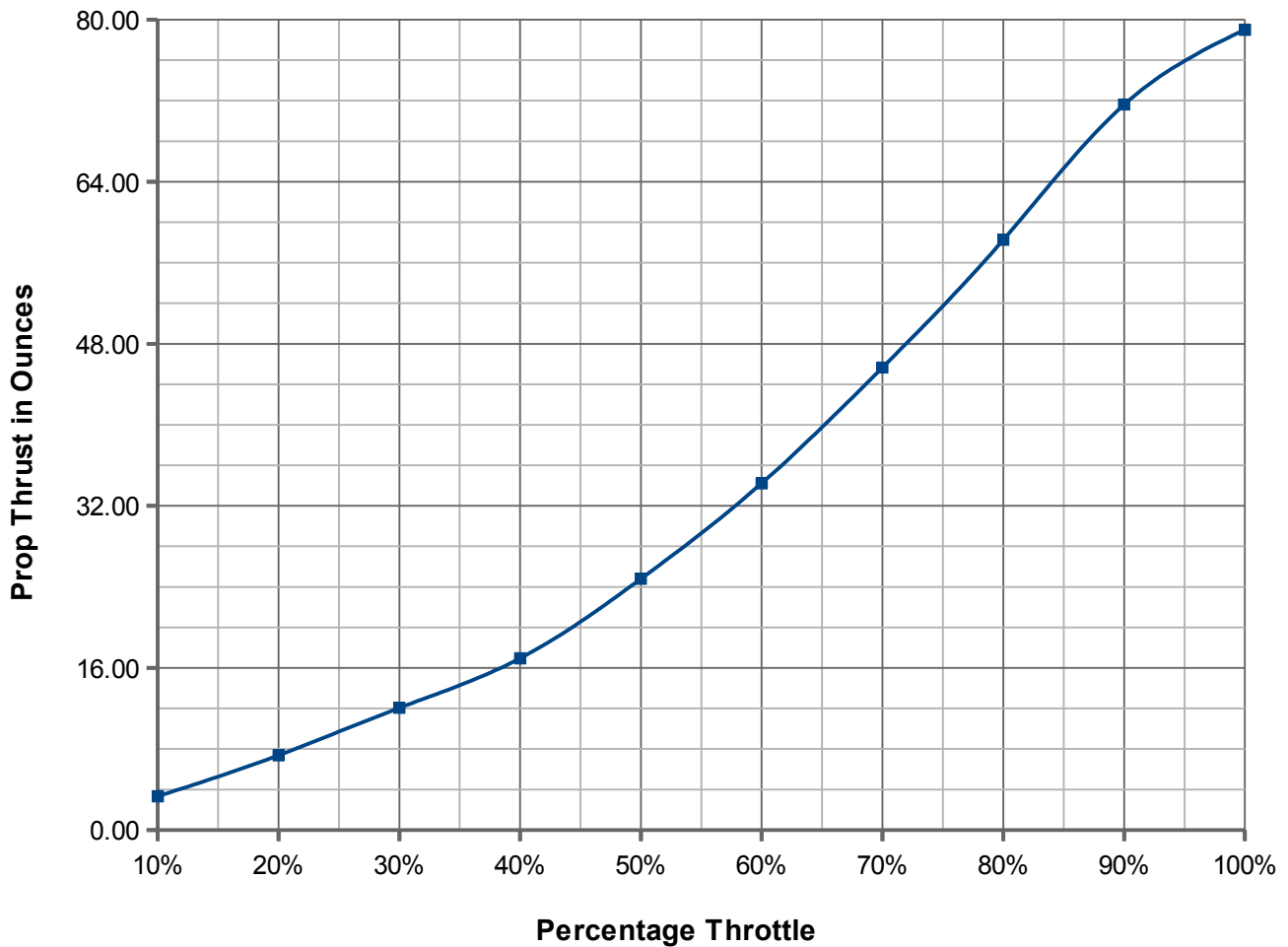
Propeller RPM vs Throttle Position



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

Data Collected at 22.2 volts with APC 12x4.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.30	6.64	1,973	94.2	3.32	14.19
20%	0.75	16.72	2,950	209.2	7.37	12.51
30%	1.37	30.33	3,686	342.0	12.05	11.28
40%	2.12	47.13	4,338	480.8	16.94	10.20
50%	3.47	76.99	5,157	703.7	24.80	9.14
60%	5.42	120.26	5,979	971.1	34.22	8.08
70%	8.20	181.93	6,866	1295.7	45.66	7.12
80%	11.73	260.41	7,684	1653.3	58.27	6.35
90%	16.00	355.13	8,416	2032.4	71.63	5.72
100%	18.80	417.29	8,834	2242.0	79.01	5.37

Propeller Thrust vs Throttle Position



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

Data Collected at 22.2 volts with APC 12x4.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.30	6.64	1,973	94.2	3.32	14.19
20%	0.75	16.72	2,950	209.2	7.37	12.51
30%	1.37	30.33	3,686	342.0	12.05	11.28
40%	2.12	47.13	4,338	480.8	16.94	10.20
50%	3.47	76.99	5,157	703.7	24.80	9.14
60%	5.42	120.26	5,979	971.1	34.22	8.08
70%	8.20	181.93	6,866	1295.7	45.66	7.12
80%	11.73	260.41	7,684	1653.3	58.27	6.35
90%	16.00	355.13	8,416	2032.4	71.63	5.72
100%	18.80	417.29	8,834	2242.0	79.01	5.37

Propeller Efficiency vs Throttle Position

