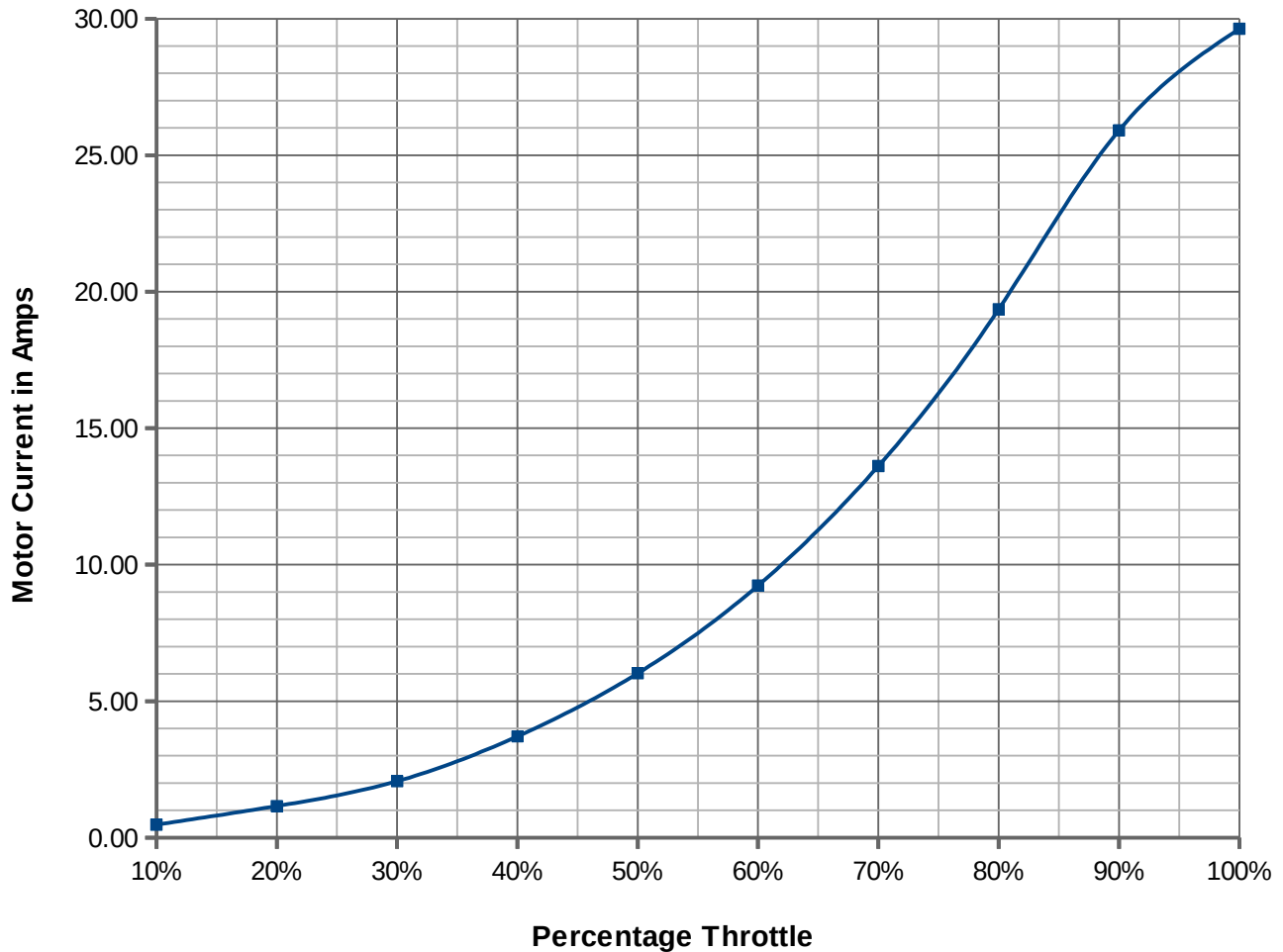


# Cobra CM-4520-14 Motor Test Data, Kv=400

Data Collected at 18.5 volts with APC 16x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.48	8.79	1,263	105.8	3.73	12.04
20%	1.16	21.42	1,992	263.4	9.28	12.30
30%	2.07	38.26	2,544	455.7	16.06	11.91
40%	3.71	68.64	3,171	755.4	26.62	11.01
50%	6.02	111.35	3,812	1095.0	38.59	9.83
60%	9.23	170.77	4,432	1518.4	53.51	8.89
70%	13.61	251.80	5,067	2018.3	71.13	8.02
80%	19.36	358.10	5,670	2587.4	91.19	7.23
90%	25.91	479.34	6,217	3127.6	110.22	6.52
100%	29.63	548.17	6,480	3445.2	121.42	6.28

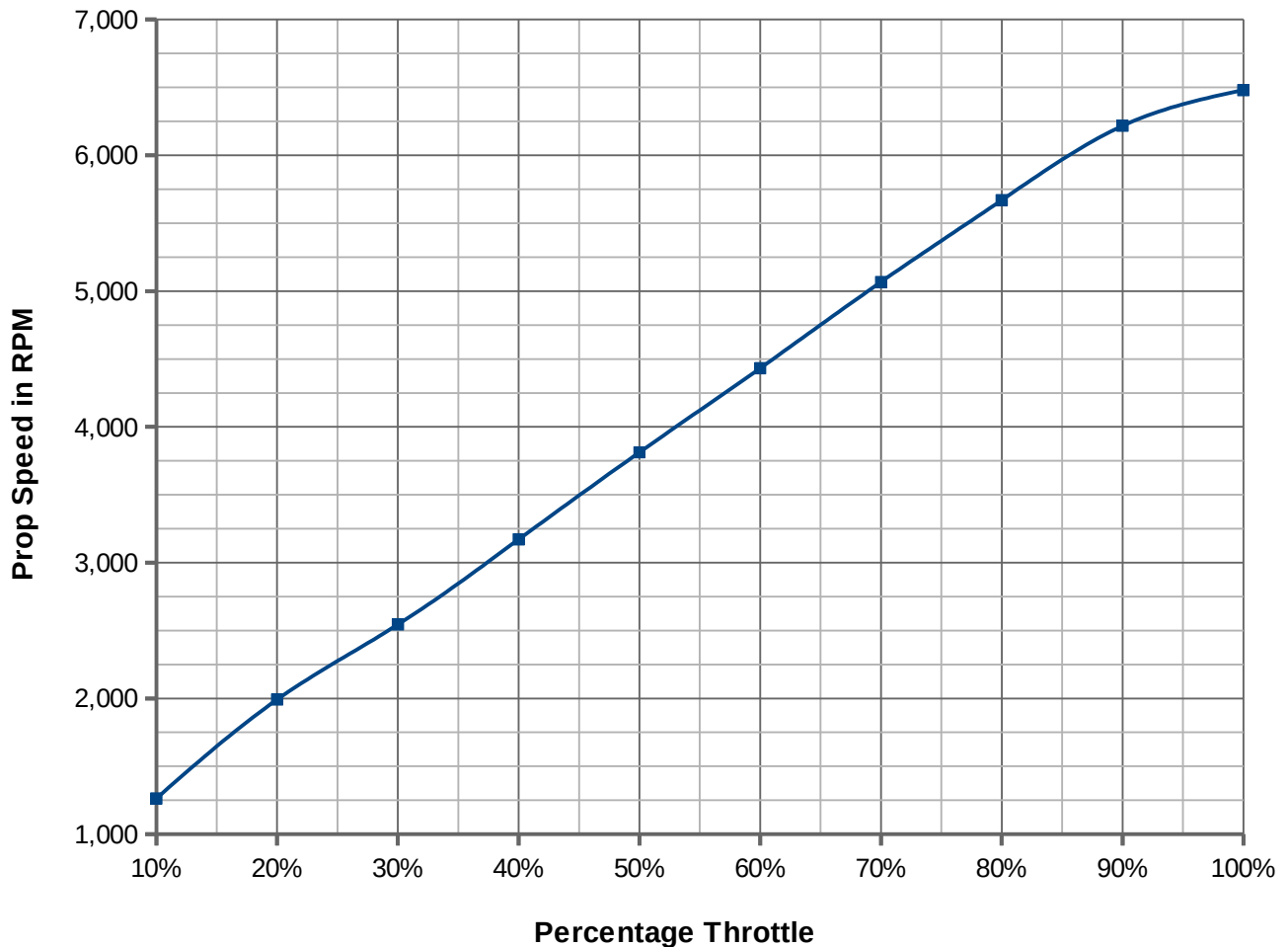
## Motor Current vs Throttle Position



# Cobra CM-4520-14 Motor Test Data, Kv=400

Data Collected at 18.5 volts with APC 16x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.48	8.79	1,263	105.8	3.73	12.04
20%	1.16	21.42	1,992	263.4	9.28	12.30
30%	2.07	38.26	2,544	455.7	16.06	11.91
40%	3.71	68.64	3,171	755.4	26.62	11.01
50%	6.02	111.35	3,812	1095.0	38.59	9.83
60%	9.23	170.77	4,432	1518.4	53.51	8.89
70%	13.61	251.80	5,067	2018.3	71.13	8.02
80%	19.36	358.10	5,670	2587.4	91.19	7.23
90%	25.91	479.34	6,217	3127.6	110.22	6.52
100%	29.63	548.17	6,480	3445.2	121.42	6.28

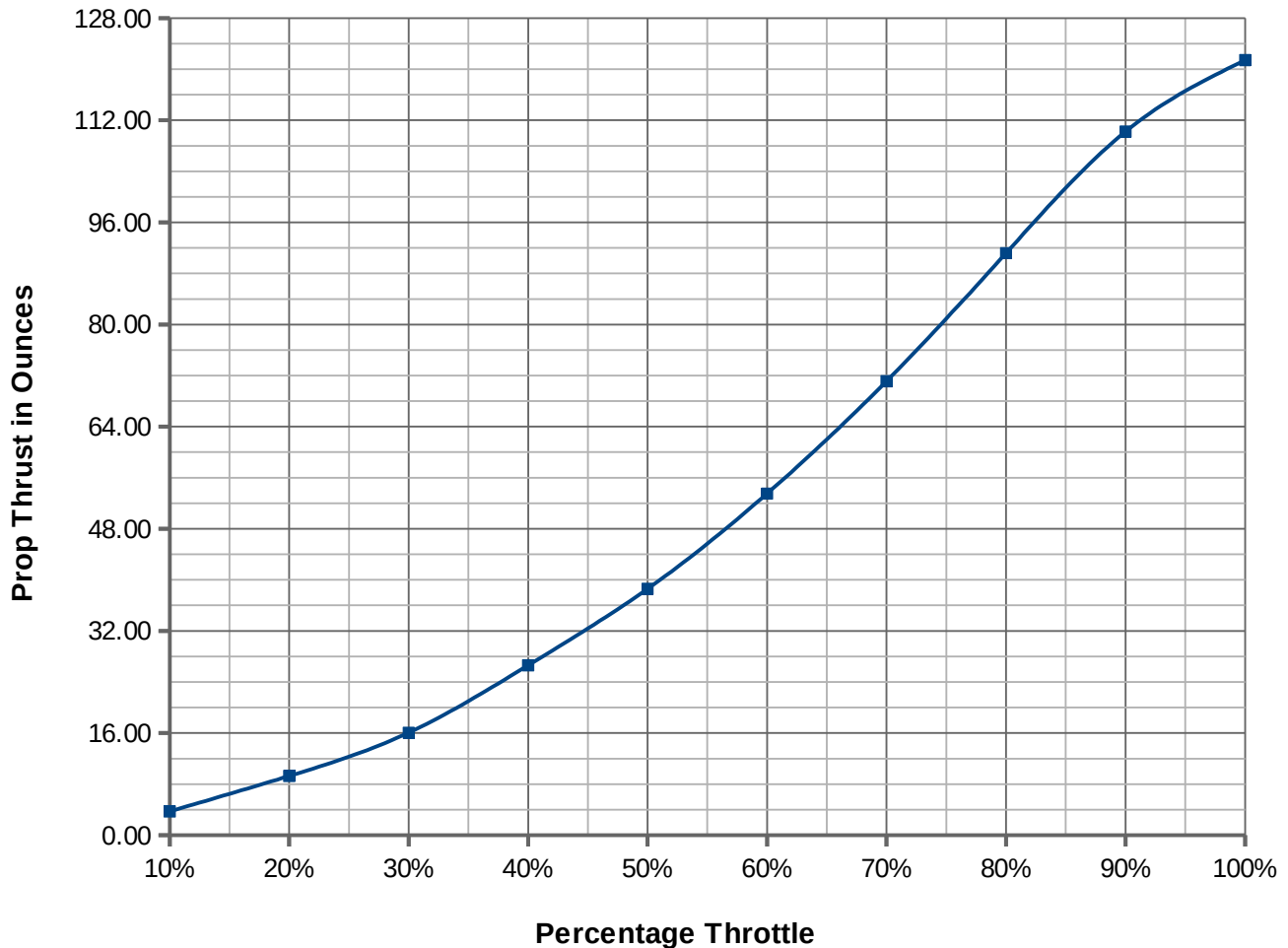
## Propeller RPM vs Throttle Position



## Cobra CM-4520-14 Motor Test Data, Kv=400

Data Collected at 18.5 volts with APC 16x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.48	8.79	1,263	105.8	3.73	12.04
20%	1.16	21.42	1,992	263.4	9.28	12.30
30%	2.07	38.26	2,544	455.7	16.06	11.91
40%	3.71	68.64	3,171	755.4	26.62	11.01
50%	6.02	111.35	3,812	1095.0	38.59	9.83
60%	9.23	170.77	4,432	1518.4	53.51	8.89
70%	13.61	251.80	5,067	2018.3	71.13	8.02
80%	19.36	358.10	5,670	2587.4	91.19	7.23
90%	25.91	479.34	6,217	3127.6	110.22	6.52
100%	29.63	548.17	6,480	3445.2	121.42	6.28

### Propeller Thrust vs Throttle Position



## Cobra CM-4520-14 Motor Test Data, Kv=400

Data Collected at 18.5 volts with APC 16x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.48	8.79	1,263	105.8	3.73	12.04
20%	1.16	21.42	1,992	263.4	9.28	12.30
30%	2.07	38.26	2,544	455.7	16.06	11.91
40%	3.71	68.64	3,171	755.4	26.62	11.01
50%	6.02	111.35	3,812	1095.0	38.59	9.83
60%	9.23	170.77	4,432	1518.4	53.51	8.89
70%	13.61	251.80	5,067	2018.3	71.13	8.02
80%	19.36	358.10	5,670	2587.4	91.19	7.23
90%	25.91	479.34	6,217	3127.6	110.22	6.52
100%	29.63	548.17	6,480	3445.2	121.42	6.28

### Propeller Efficiency vs Throttle Position

