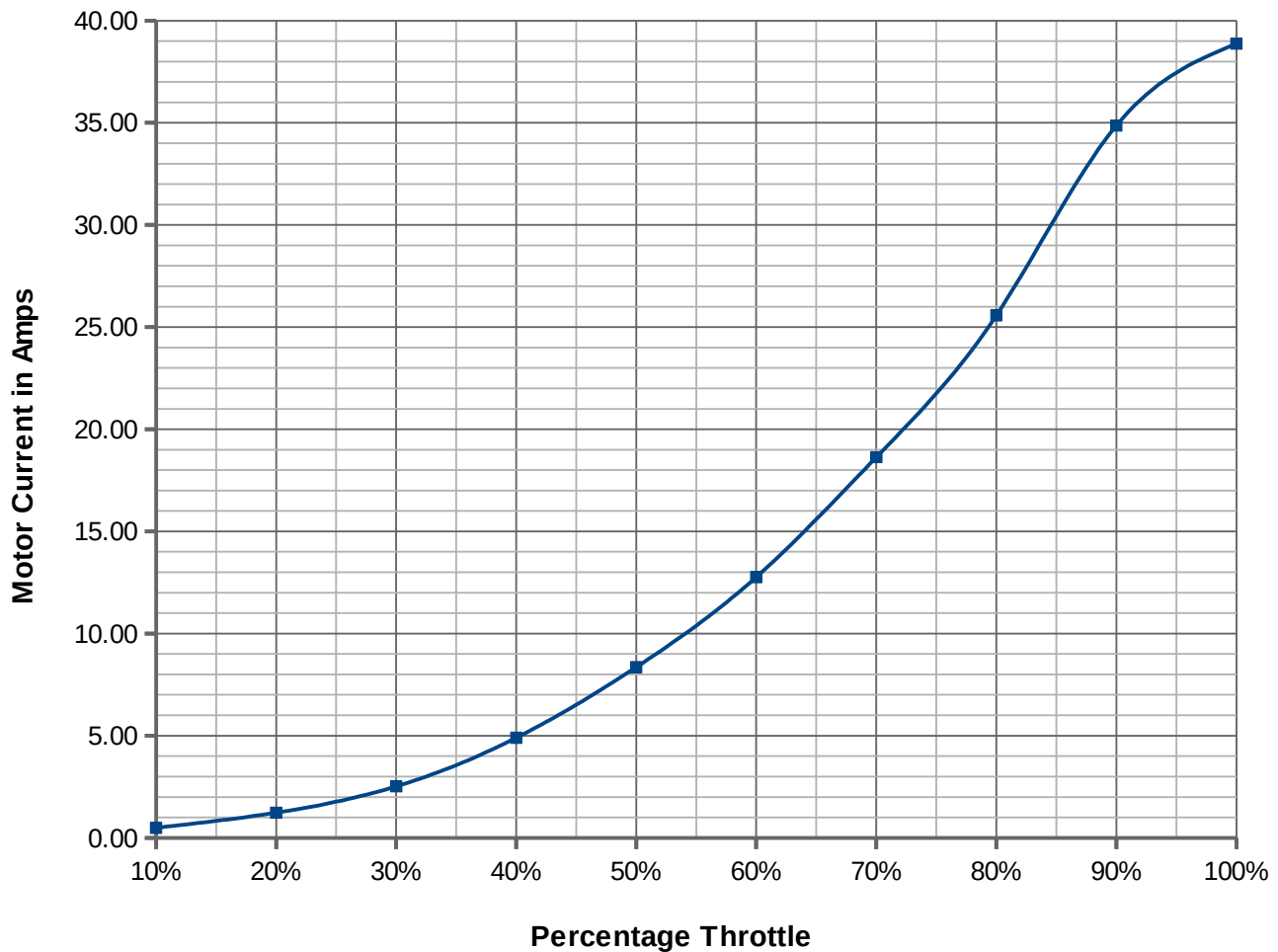


Cobra CM-4520-14 Motor Test Data, Kv=400

Data Collected at 18.5 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.49	9.14	1,140	122.8	4.33	13.44
20%	1.23	22.81	1,793	308.5	10.87	13.52
30%	2.52	46.64	2,393	585.5	20.63	12.55
40%	4.90	90.65	3,081	1001.4	35.29	11.05
50%	8.36	154.57	3,709	1514.9	53.39	9.80
60%	12.76	236.06	4,287	2056.1	72.46	8.71
70%	18.63	344.64	4,871	2657.2	93.65	7.71
80%	25.57	473.03	5,394	3298.6	116.25	6.97
90%	34.87	645.00	5,905	4117.9	145.12	6.38
100%	38.87	719.13	6,144	4394.6	154.88	6.11

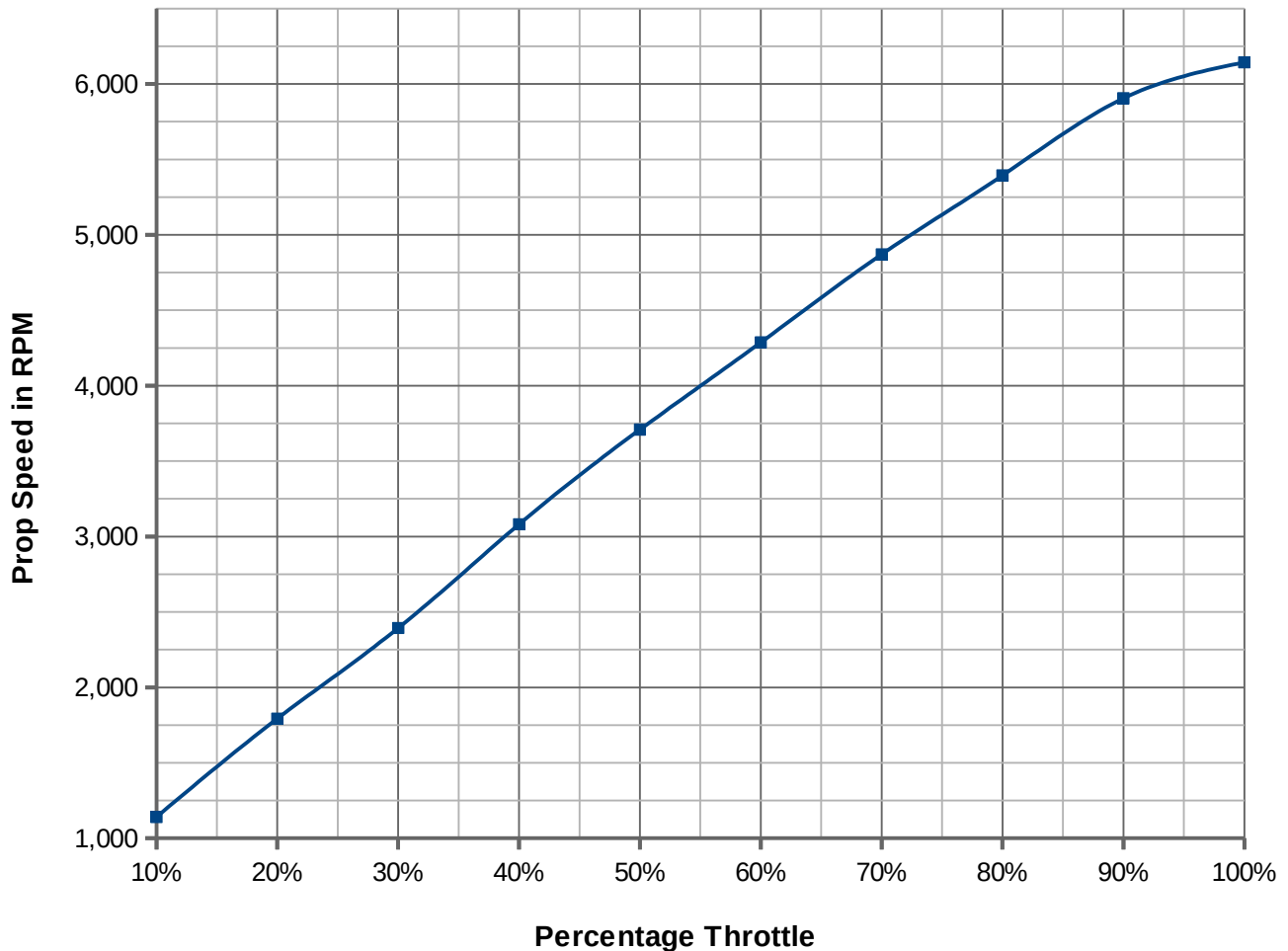
Motor Current vs Throttle Position



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

Data Collected at 18.5 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.49	9.14	1,140	122.8	4.33	13.44
20%	1.23	22.81	1,793	308.5	10.87	13.52
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90%	34.87	645.00	5,905	4117.9	145.12	6.38
100%	38.87	719.13	6,144	4394.6	154.88	6.11

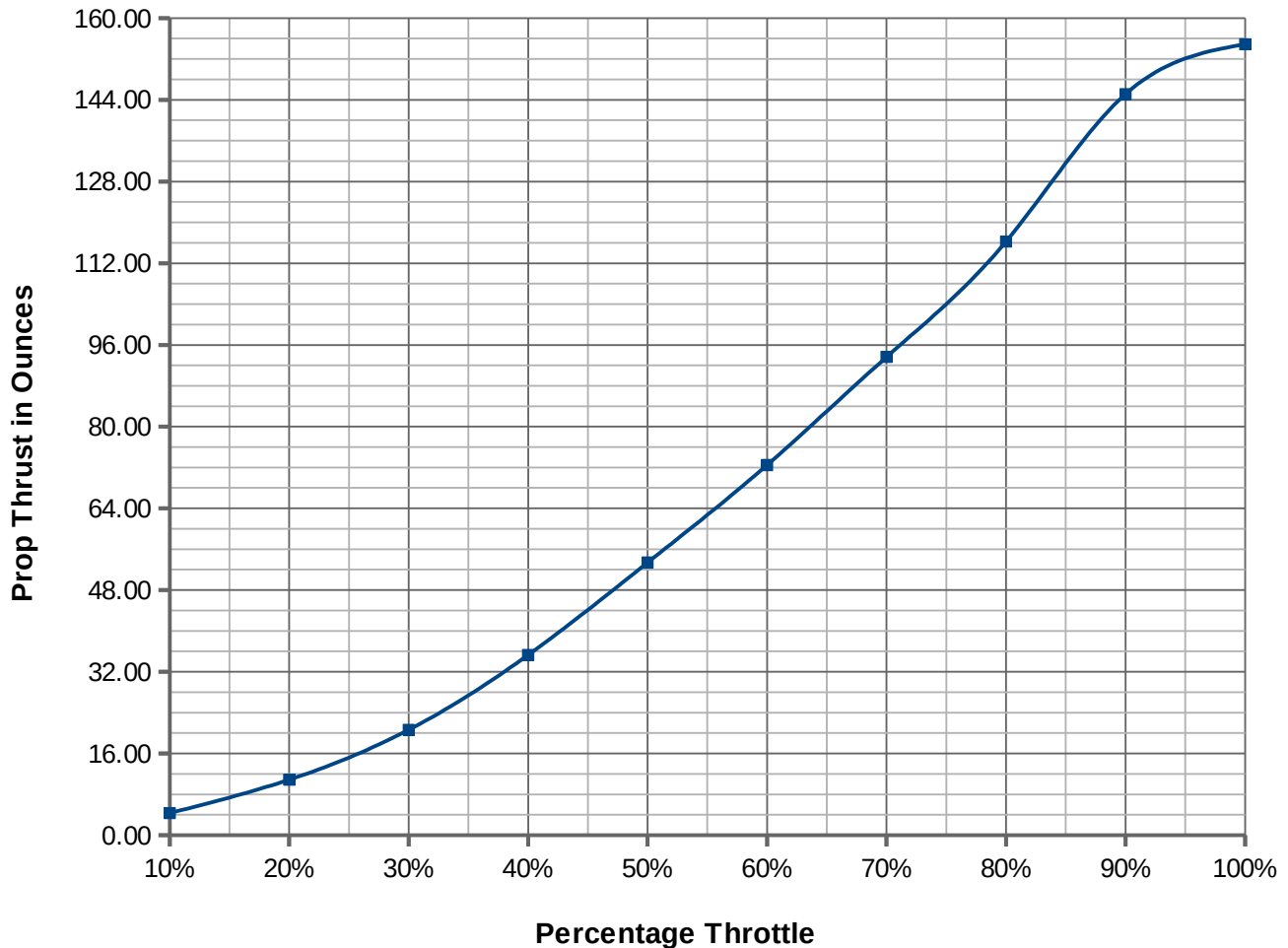
Propeller RPM vs Throttle Position



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

Data Collected at 18.5 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.49	9.14	1,140	122.8	4.33	13.44
20%	1.23	22.81	1,793	308.5	10.87	13.52
30%	2.52	46.64	2,393	585.5	20.63	12.55
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70%	18.63	344.64	4,871	2657.2	93.65	7.71
80%	25.57	473.03	5,394	3298.6	116.25	6.97
90%	34.87	645.00	5,905	4117.9	145.12	6.38
100%	38.87	719.13	6,144	4394.6	154.88	6.11

Propeller Thrust vs Throttle Position



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

Data Collected at 18.5 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.49	9.14	1,140	122.8	4.33	13.44
20%	1.23	22.81	1,793	308.5	10.87	13.52
30%	2.52	46.64	2,393	585.5	20.63	12.55
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50%	8.36	154.57	3,709	1514.9	53.39	9.80
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70%	18.63	344.64	4,871	2657.2	93.65	7.71
80%	25.57	473.03	5,394	3298.6	116.25	6.97
90%	34.87	645.00	5,905	4117.9	145.12	6.38
100%	38.87	719.13	6,144	4394.6	154.88	6.11

Propeller Efficiency vs Throttle Position

