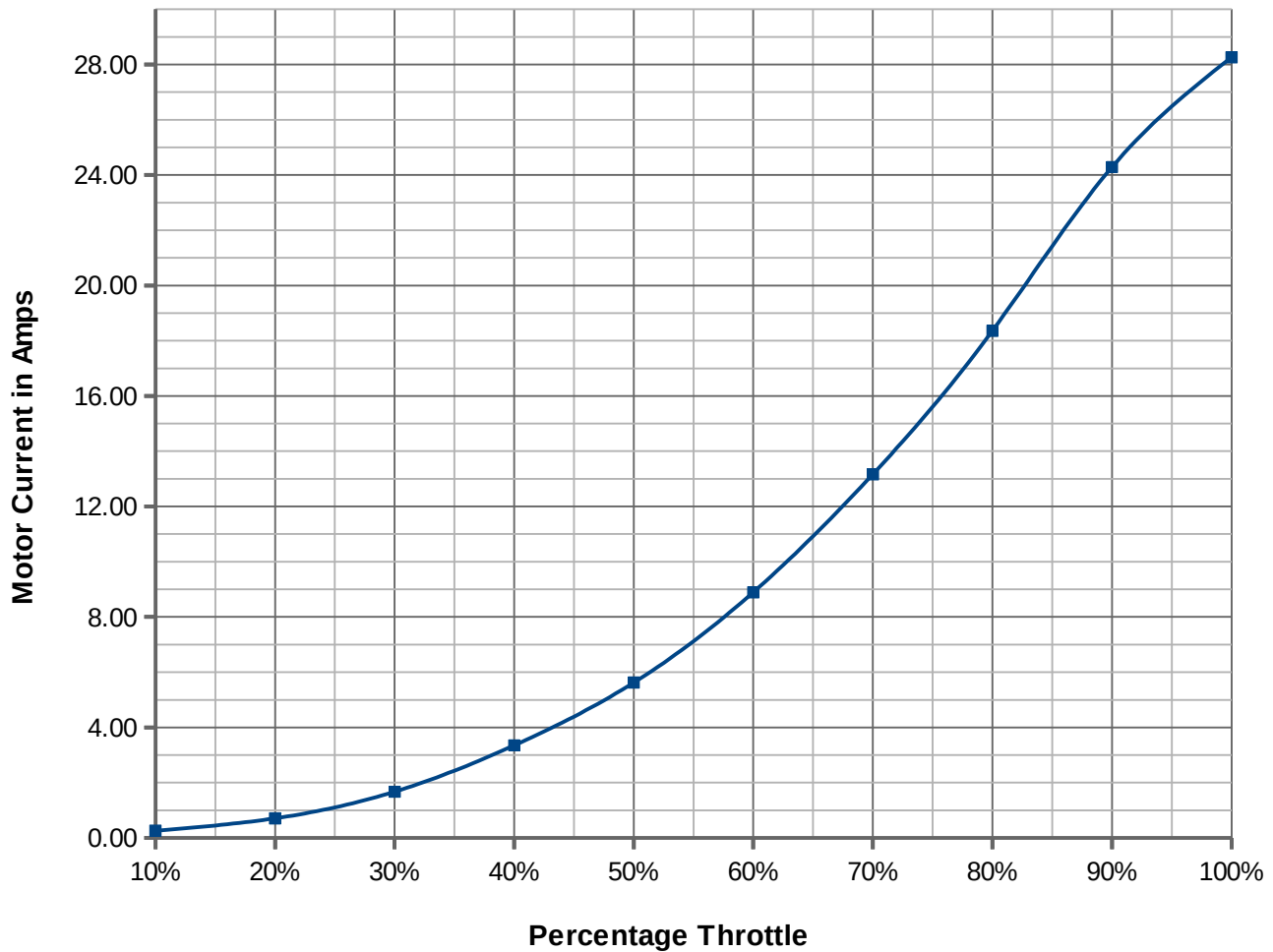


Cobra CM-3515-20 Motor Test Data, Kv=650

Data Collected at 18.5 volts with GemFan 13x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.81	1,458	59.1	2.08	12.29
20%	0.71	13.14	2,355	162.6	5.73	12.38
30%	1.67	30.93	3,368	344.6	12.14	11.14
40%	3.35	61.99	4,384	588.9	20.75	9.50
50%	5.62	104.01	5,278	864.7	30.47	8.31
60%	8.89	164.50	6,160	1213.5	42.77	7.38
70%	13.16	243.53	7,006	1595.4	56.23	6.55
80%	18.36	339.68	7,806	2000.4	70.50	5.89
90%	24.29	449.35	8,521	2381.7	83.94	5.30
100%	28.26	522.85	8,915	2640.1	93.04	5.05

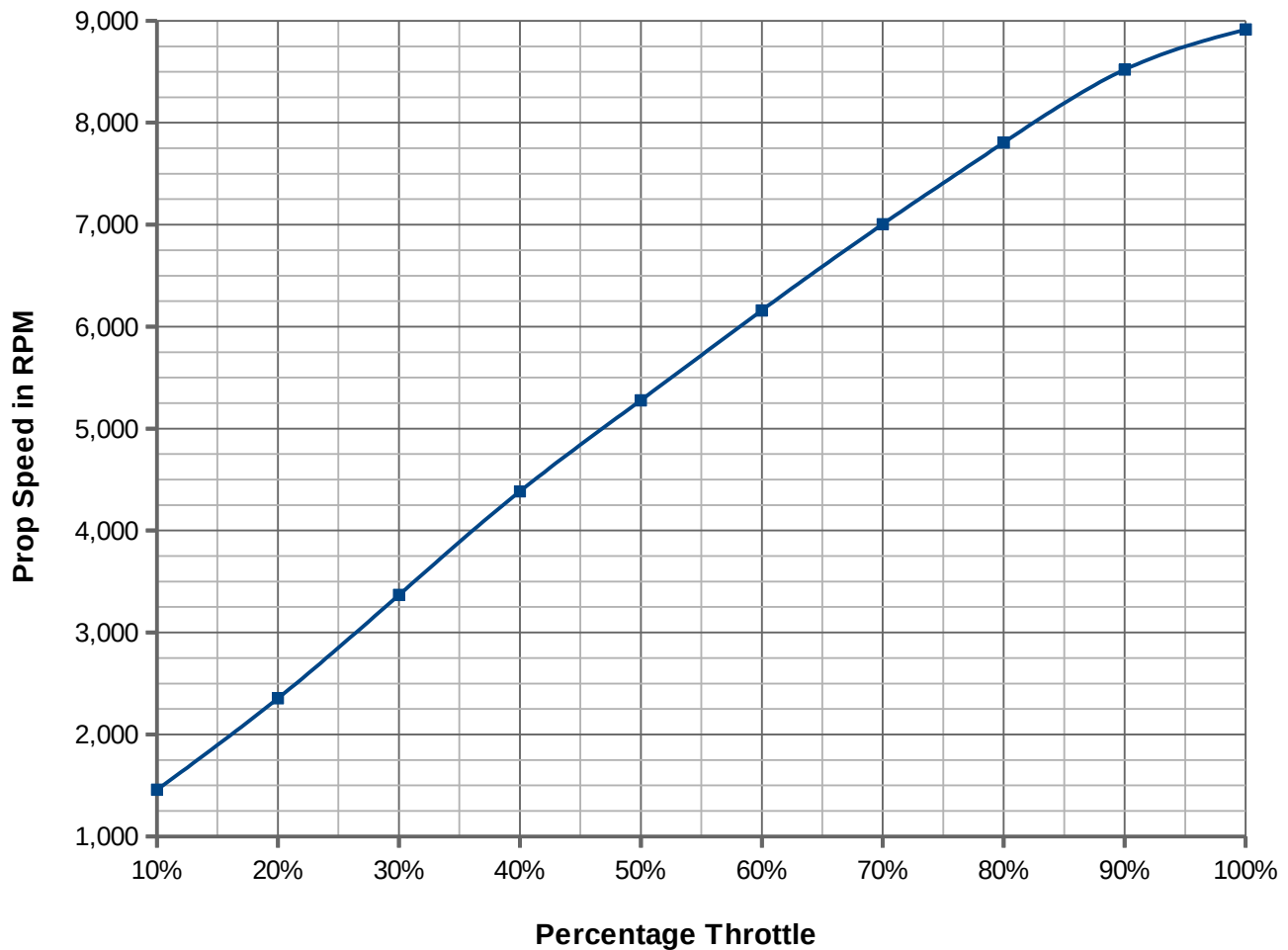
Motor Current vs Throttle Position



Cobra CM-3515-20 Motor Test Data, Kv=650

Data Collected at 18.5 volts with GemFan 13x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
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20%	0.71	13.14	2,355	162.6	5.73	12.38
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90%	24.29	449.35	8,521	2381.7	83.94	5.30
100%	28.26	522.85	8,915	2640.1	93.04	5.05

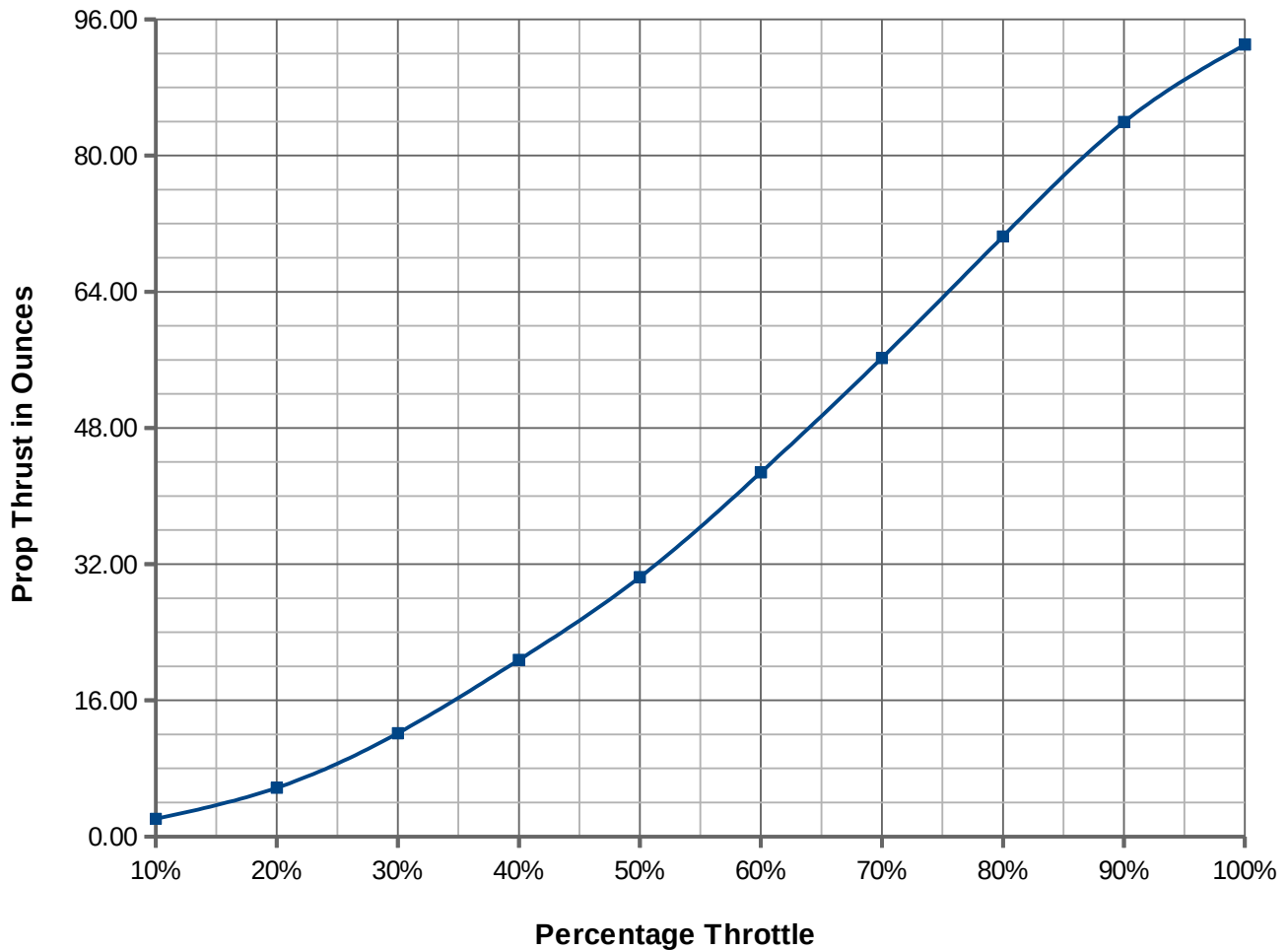
Propeller RPM vs Throttle Position



Cobra CM-3515-20 Motor Test Data, Kv=650

Data Collected at 18.5 volts with GemFan 13x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.81	1,458	59.1	2.08	12.29
20%	0.71	13.14	2,355	162.6	5.73	12.38
30%	1.67	30.93	3,368	344.6	12.14	11.14
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70%	13.16	243.53	7,006	1595.4	56.23	6.55
80%	18.36	339.68	7,806	2000.4	70.50	5.89
90%	24.29	449.35	8,521	2381.7	83.94	5.30
100%	28.26	522.85	8,915	2640.1	93.04	5.05

Propeller Thrust vs Throttle Position



Cobra CM-3515-20 Motor Test Data, Kv=650

Data Collected at 18.5 volts with GemFan 13x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.81	1,458	59.1	2.08	12.29
20%	0.71	13.14	2,355	162.6	5.73	12.38
30%	1.67	30.93	3,368	344.6	12.14	11.14
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70%	13.16	243.53	7,006	1595.4	56.23	6.55
80%	18.36	339.68	7,806	2000.4	70.50	5.89
90%	24.29	449.35	8,521	2381.7	83.94	5.30
100%	28.26	522.85	8,915	2640.1	93.04	5.05

Propeller Efficiency vs Throttle Position

