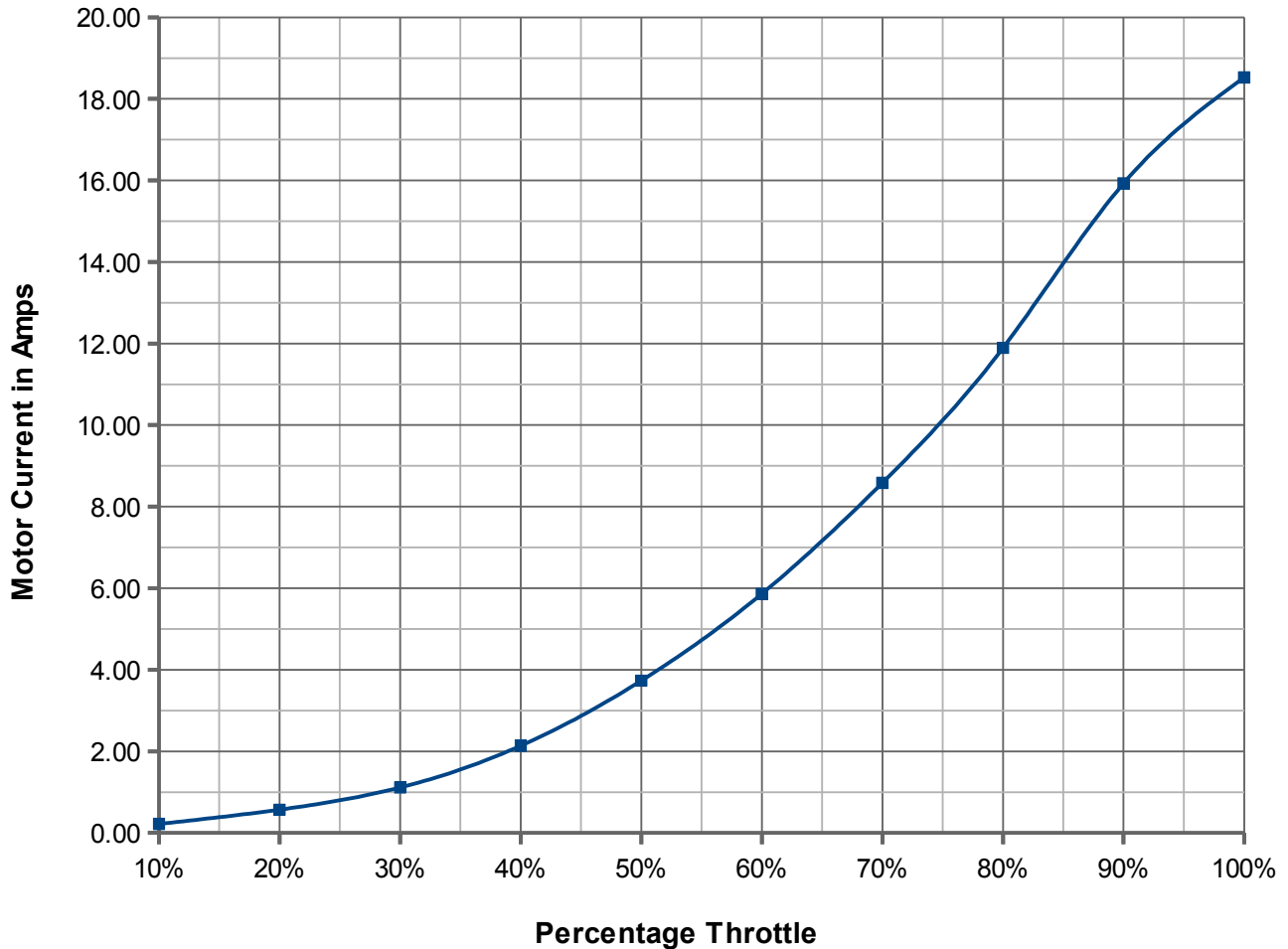


Cobra CM-2820/24 Motor Test Data, Kv=490

Data Collected at 14.8 volts with GemFan 16x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.22	3.24	987	45.9	1.62	14.16
20%	0.57	8.42	1,532	126.3	4.45	15.00
30%	1.11	16.47	2,023	227.9	8.03	13.84
40%	2.14	31.61	2,618	398.9	14.06	12.62
50%	3.73	55.23	3,200	624.2	22.00	11.30
60%	5.86	86.77	3,762	875.3	30.85	10.09
70%	8.58	127.03	4,290	1137.0	40.07	8.95
80%	11.89	176.03	4,788	1420.1	50.05	8.07
90%	15.93	235.73	5,263	1739.6	61.31	7.38
100%	18.53	274.20	5,533	1917.6	67.58	6.99

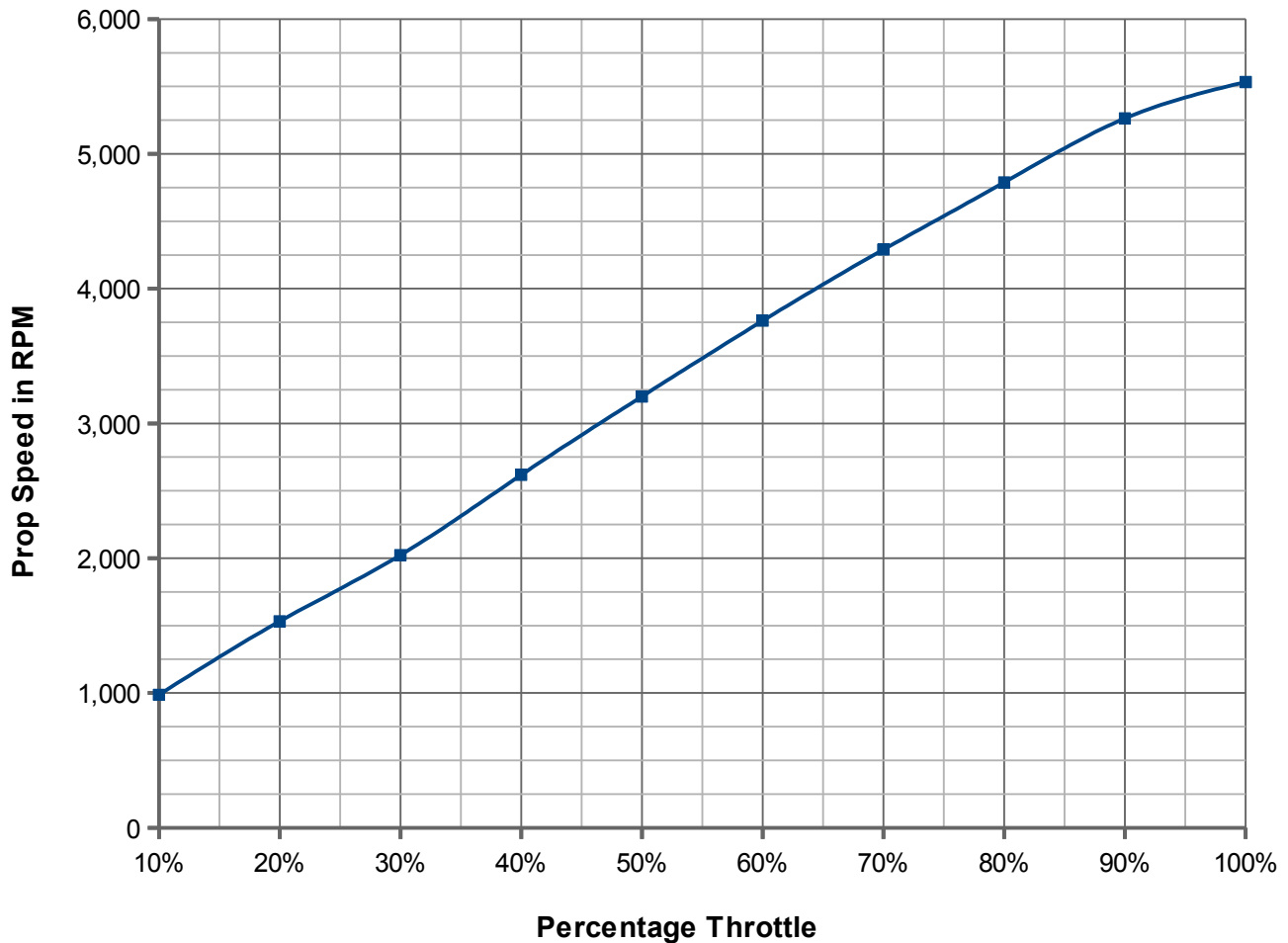
Motor Current vs Throttle Position



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

Data Collected at 14.8 volts with GemFan 16x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.22	3.24	987	45.9	1.62	14.16
20%	0.57	8.42	1,532	126.3	4.45	15.00
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80%	11.89	176.03	4,788	1420.1	50.05	8.07
90%	15.93	235.73	5,263	1739.6	61.31	7.38
100%	18.53	274.20	5,533	1917.6	67.58	6.99

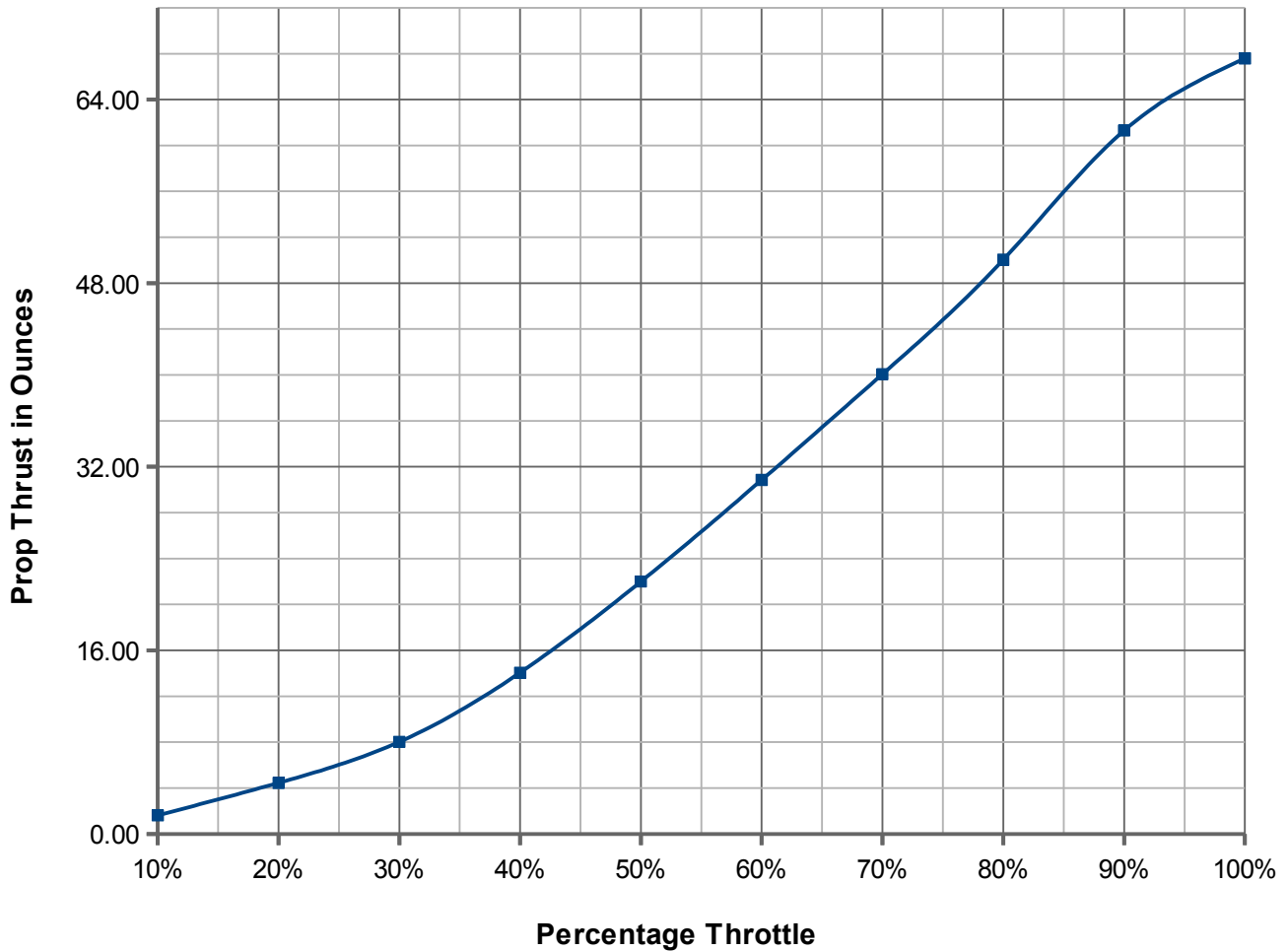
Propeller RPM vs Throttle Position



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

Data Collected at 14.8 volts with GemFan 16x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.22	3.24	987	45.9	1.62	14.16
20%	0.57	8.42	1,532	126.3	4.45	15.00
30%	1.11	16.47	2,023	227.9	8.03	13.84
40%	2.14	31.61	2,618	398.9	14.06	12.62
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70%	8.58	127.03	4,290	1137.0	40.07	8.95
80%	11.89	176.03	4,788	1420.1	50.05	8.07
90%	15.93	235.73	5,263	1739.6	61.31	7.38
100%	18.53	274.20	5,533	1917.6	67.58	6.99

Propeller Thrust vs Throttle Position



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

Data Collected at 14.8 volts with GemFan 16x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.22	3.24	987	45.9	1.62	14.16
20%	0.57	8.42	1,532	126.3	4.45	15.00
30%	1.11	16.47	2,023	227.9	8.03	13.84
40%	2.14	31.61	2,618	398.9	14.06	12.62
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80%	11.89	176.03	4,788	1420.1	50.05	8.07
90%	15.93	235.73	5,263	1739.6	61.31	7.38
100%	18.53	274.20	5,533	1917.6	67.58	6.99

Propeller Efficiency vs Throttle Position

