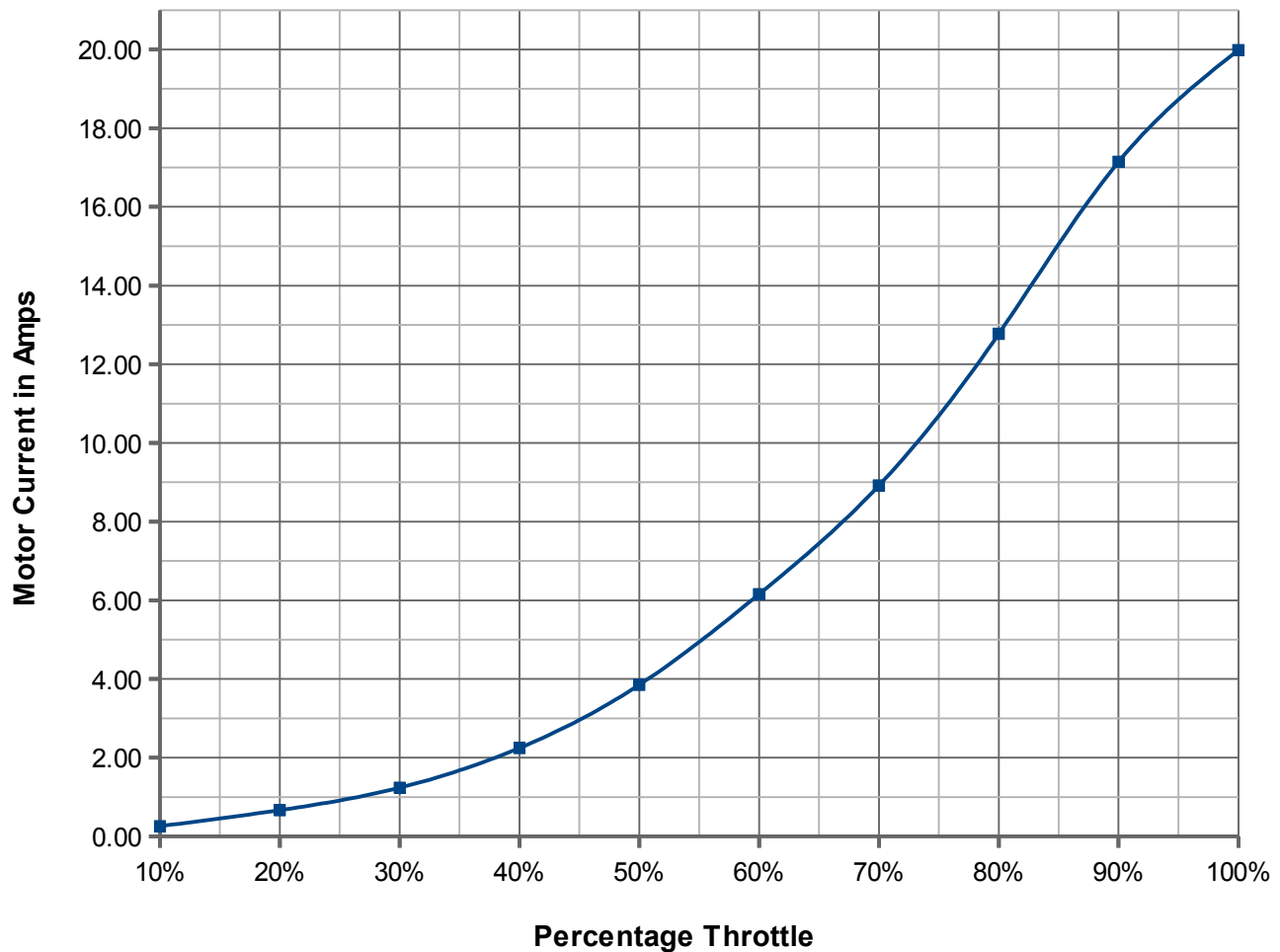


Cobra CM-2820/24 Motor Test Data, Kv=490

Data Collected at 18.5 volts with GemFan 15x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.81	1,389	72.4	2.55	15.05
20%	0.67	12.34	2,131	165.8	5.84	13.44
30%	1.24	22.90	2,733	280.7	9.89	12.26
40%	2.25	41.55	3,401	461.0	16.25	11.09
50%	3.85	71.24	4,135	696.5	24.55	9.78
60%	6.16	113.89	4,823	995.0	35.07	8.74
70%	8.92	164.95	5,475	1310.6	46.19	7.95
80%	12.77	236.30	6,128	1679.7	59.20	7.11
90%	17.14	317.16	6,712	2043.8	72.03	6.44
100%	19.99	369.74	7,048	2250.7	79.32	6.09

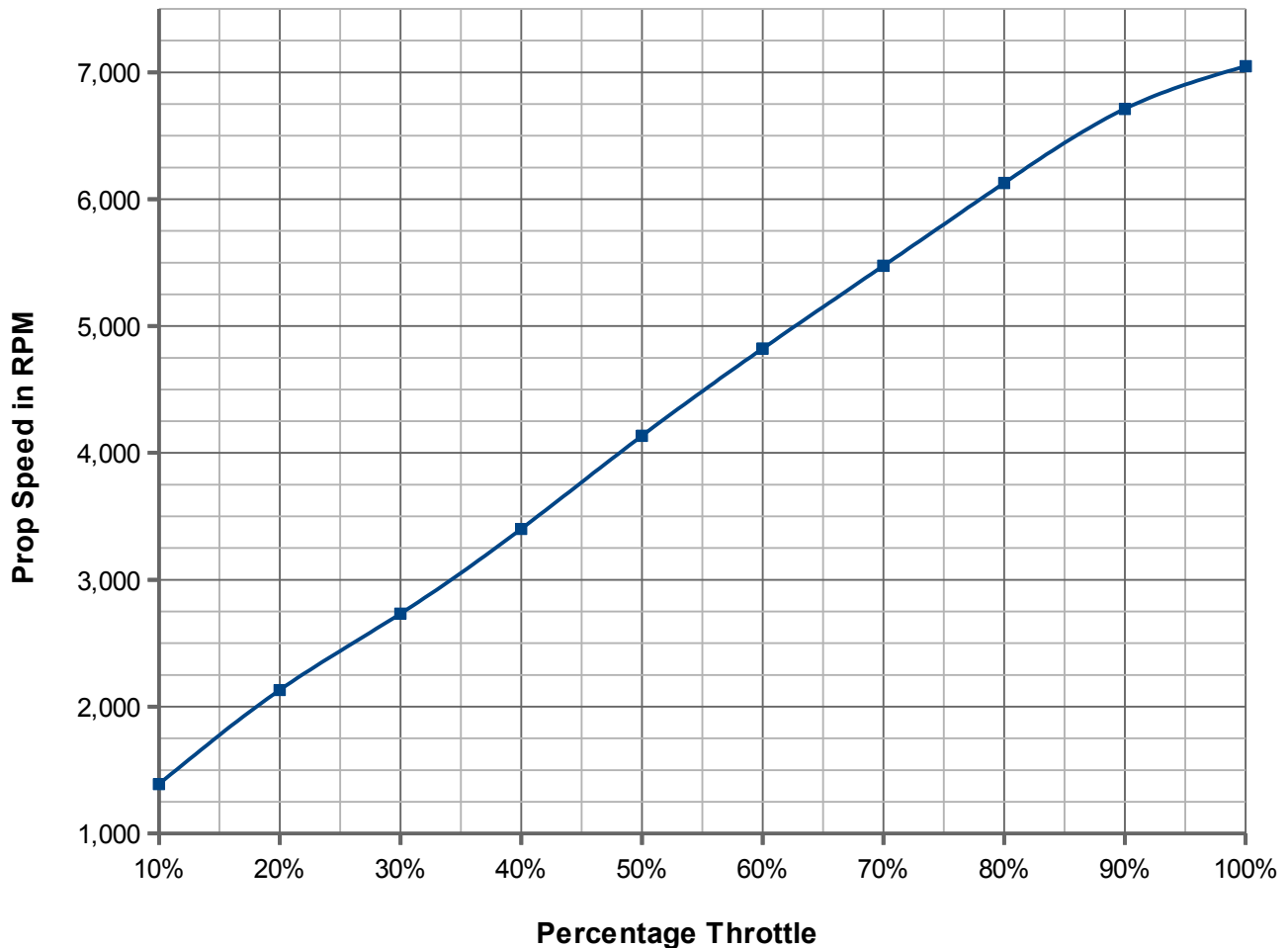
Motor Current vs Throttle Position



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

Data Collected at 18.5 volts with GemFan 15x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.81	1,389	72.4	2.55	15.05
20%	0.67	12.34	2,131	165.8	5.84	13.44
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100%	19.99	369.74	7,048	2250.7	79.32	6.09

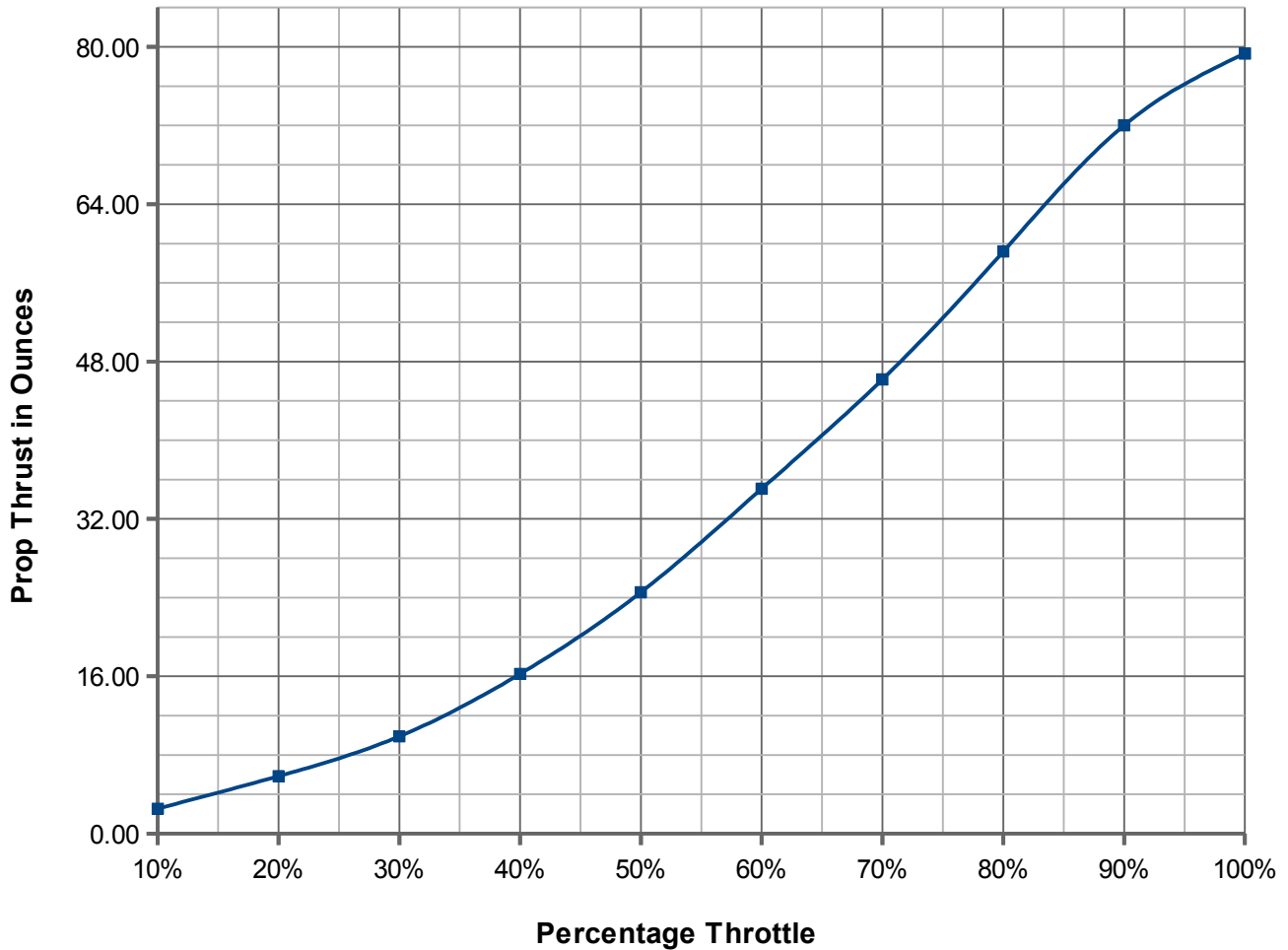
Propeller RPM vs Throttle Position



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

Data Collected at 18.5 volts with GemFan 15x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.81	1,389	72.4	2.55	15.05
20%	0.67	12.34	2,131	165.8	5.84	13.44
30%	1.24	22.90	2,733	280.7	9.89	12.26
40%	2.25	41.55	3,401	461.0	16.25	11.09
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70%	8.92	164.95	5,475	1310.6	46.19	7.95
80%	12.77	236.30	6,128	1679.7	59.20	7.11
90%	17.14	317.16	6,712	2043.8	72.03	6.44
100%	19.99	369.74	7,048	2250.7	79.32	6.09

Propeller Thrust vs Throttle Position



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

Data Collected at 18.5 volts with GemFan 15x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.81	1,389	72.4	2.55	15.05
20%	0.67	12.34	2,131	165.8	5.84	13.44
30%	1.24	22.90	2,733	280.7	9.89	12.26
40%	2.25	41.55	3,401	461.0	16.25	11.09
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70%	8.92	164.95	5,475	1310.6	46.19	7.95
80%	12.77	236.30	6,128	1679.7	59.20	7.11
90%	17.14	317.16	6,712	2043.8	72.03	6.44
100%	19.99	369.74	7,048	2250.7	79.32	6.09

Propeller Efficiency vs Throttle Position

