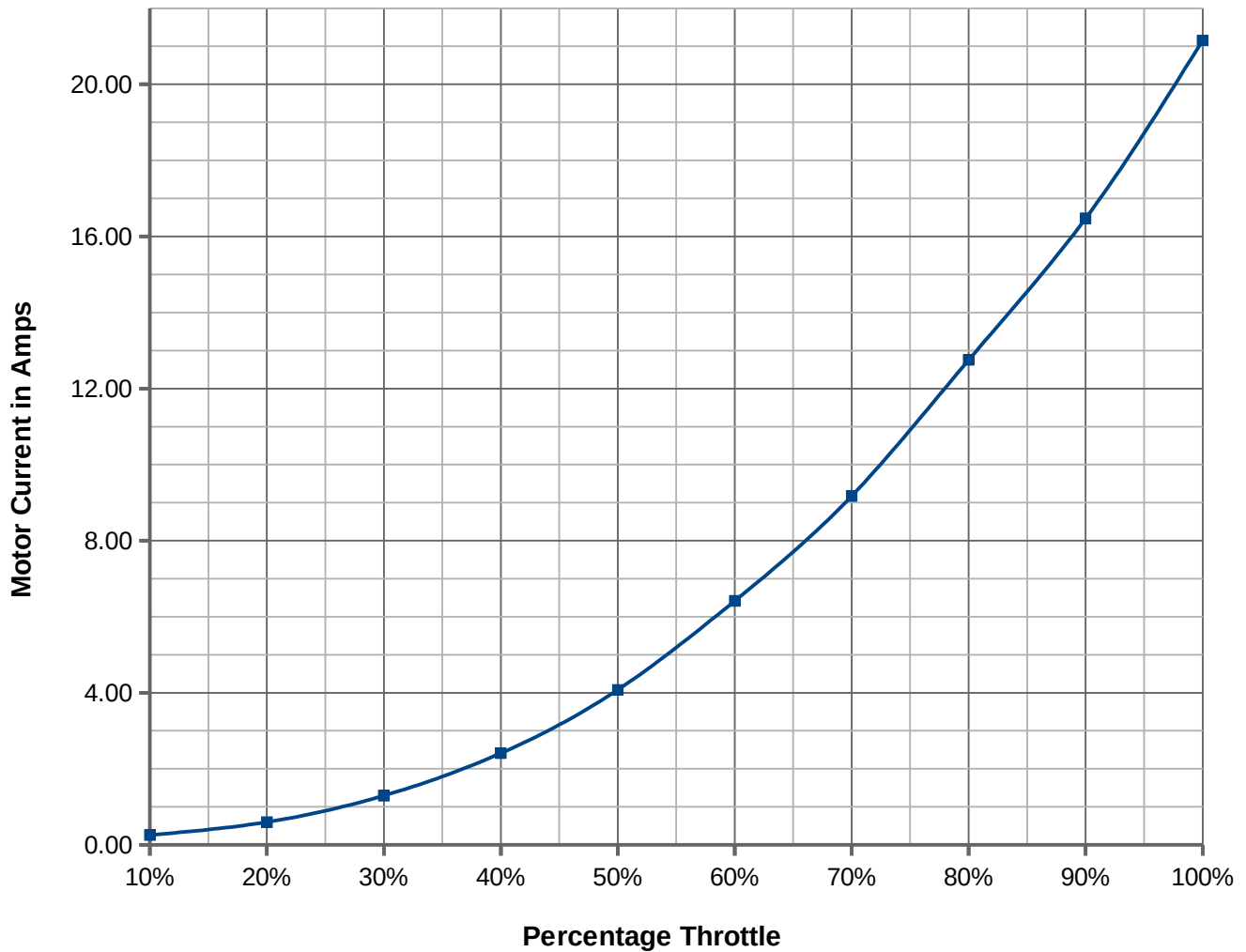


Cobra CM-4012/30 Motor Test Data, Kv=300

Data Collected at 18.5 volts with GemFan 20x6-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.79	610	35.7	1.26	7.45
20%	0.60	11.08	1,093	158.5	5.59	14.30
30%	1.30	23.96	1,580	344.2	12.14	14.37
40%	2.41	44.59	2,025	587.5	20.72	13.18
50%	4.08	75.42	2,464	879.3	31.02	11.66
60%	6.42	118.68	2,882	1219.6	43.02	10.28
70%	9.17	169.70	3,254	1550.2	54.68	9.13
80%	12.75	235.95	3,615	1925.0	67.90	8.16
90%	16.48	304.82	3,936	2269.8	80.06	7.45
100%	21.16	391.37	4,252	2656.3	93.70	6.79

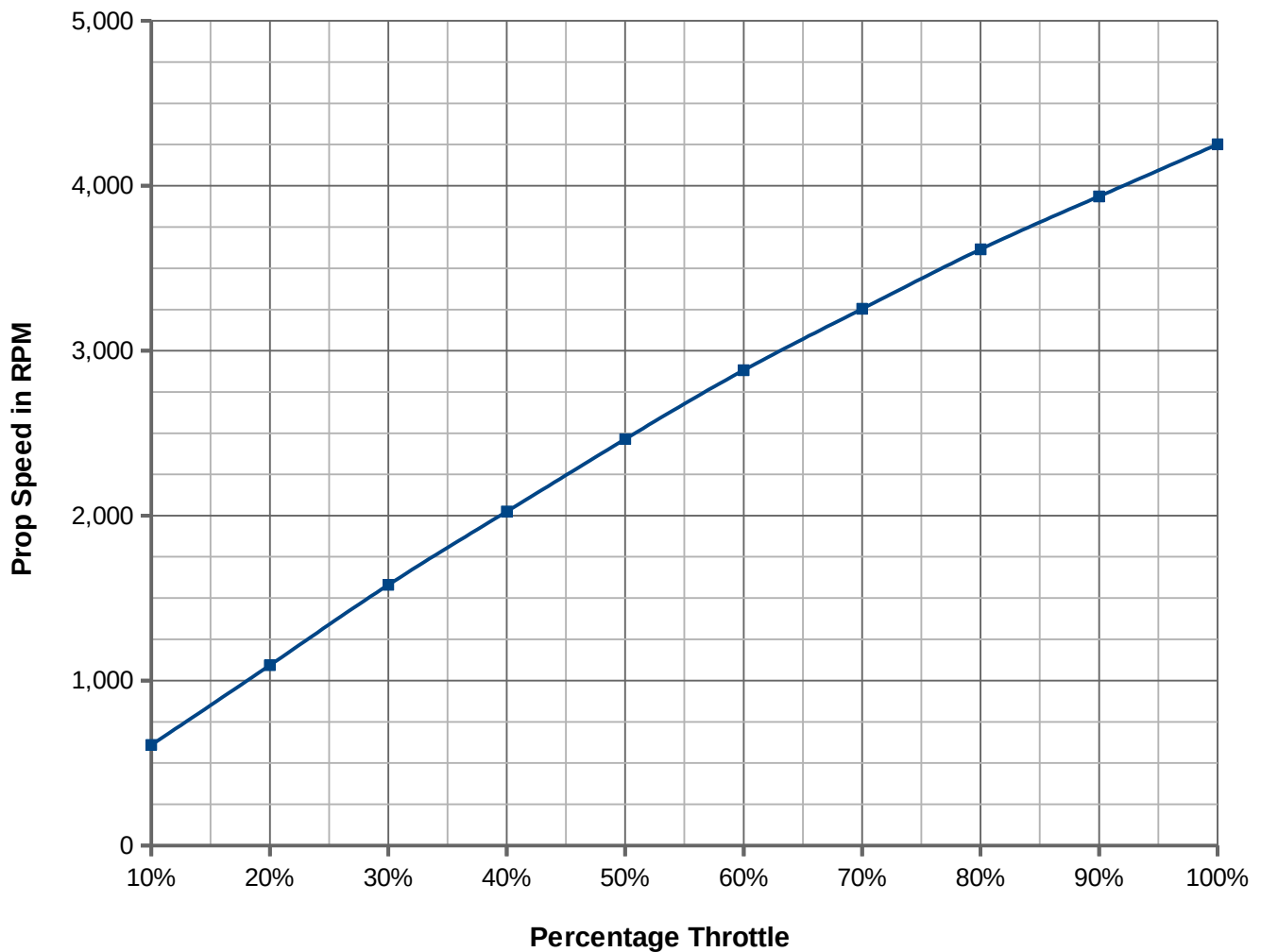
Motor Current vs Throttle Position



Cobra CM-4012/30 Motor Test Data, Kv=300

Data Collected at 18.5 volts with GemFan 20x6-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.79	610	35.7	1.26	7.45
20%	0.60	11.08	1,093	158.5	5.59	14.30
30%	1.30	23.96	1,580	344.2	12.14	14.37
40%	2.41	44.59	2,025	587.5	20.72	13.18
50%	4.08	75.42	2,464	879.3	31.02	11.66
60%	6.42	118.68	2,882	1219.6	43.02	10.28
70%	9.17	169.70	3,254	1550.2	54.68	9.13
80%	12.75	235.95	3,615	1925.0	67.90	8.16
90%	16.48	304.82	3,936	2269.8	80.06	7.45
100%	21.16	391.37	4,252	2656.3	93.70	6.79

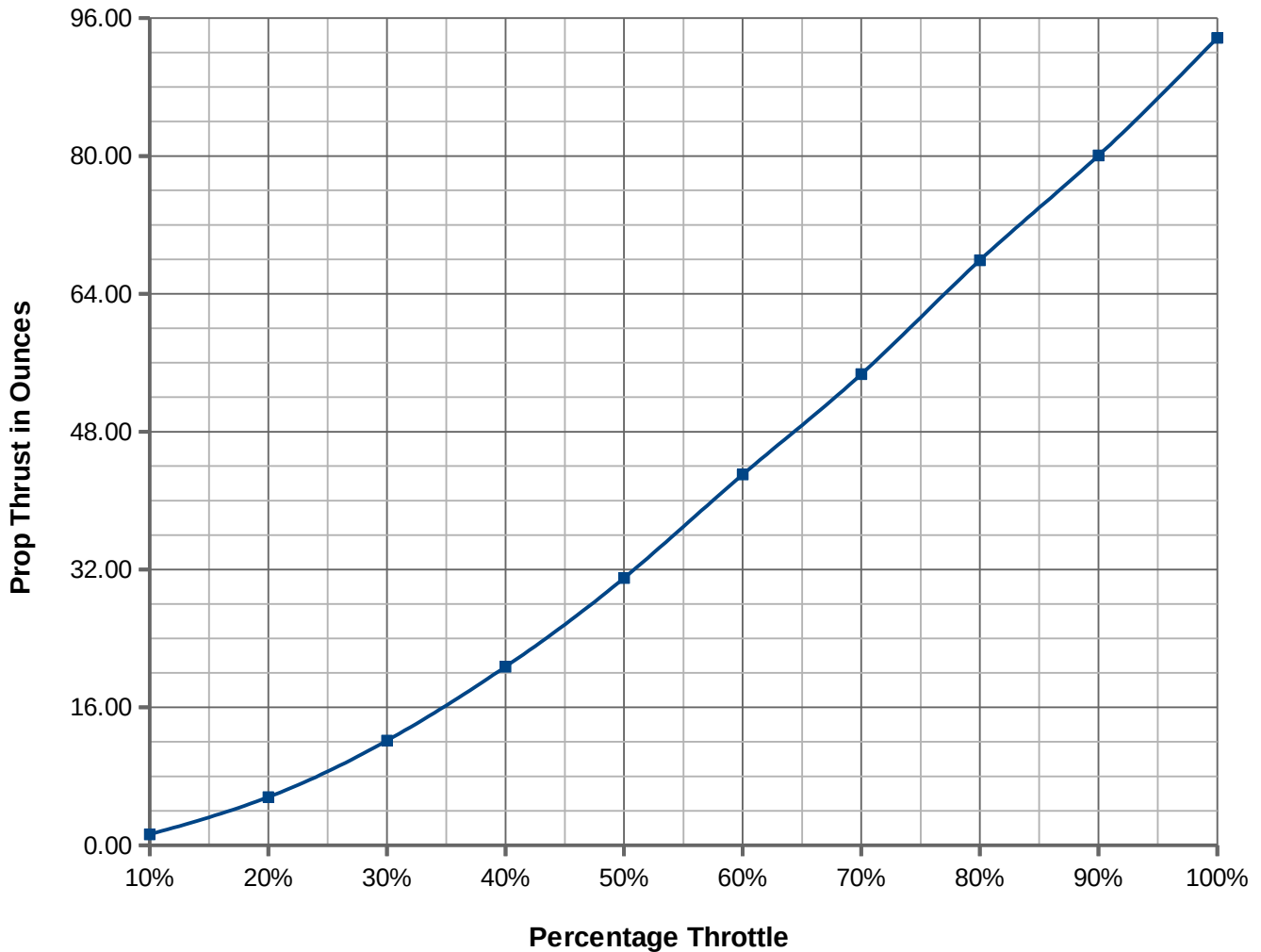
Propeller RPM vs Throttle Position



Cobra CM-4012/30 Motor Test Data, Kv=300

Data Collected at 18.5 volts with GemFan 20x6-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.79	610	35.7	1.26	7.45
20%	0.60	11.08	1,093	158.5	5.59	14.30
30%	1.30	23.96	1,580	344.2	12.14	14.37
40%	2.41	44.59	2,025	587.5	20.72	13.18
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60%	6.42	118.68	2,882	1219.6	43.02	10.28
70%	9.17	169.70	3,254	1550.2	54.68	9.13
80%	12.75	235.95	3,615	1925.0	67.90	8.16
90%	16.48	304.82	3,936	2269.8	80.06	7.45
100%	21.16	391.37	4,252	2656.3	93.70	6.79

Propeller Thrust vs Throttle Position



Cobra CM-4012/30 Motor Test Data, Kv=300

Data Collected at 18.5 volts with GemFan 20x6-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.79	610	35.7	1.26	7.45
20%	0.60	11.08	1,093	158.5	5.59	14.30
30%	1.30	23.96	1,580	344.2	12.14	14.37
40%	2.41	44.59	2,025	587.5	20.72	13.18
50%	4.08	75.42	2,464	879.3	31.02	11.66
60%	6.42	118.68	2,882	1219.6	43.02	10.28
70%	9.17	169.70	3,254	1550.2	54.68	9.13
80%	12.75	235.95	3,615	1925.0	67.90	8.16
90%	16.48	304.82	3,936	2269.8	80.06	7.45
100%	21.16	391.37	4,252	2656.3	93.70	6.79

Propeller Efficiency vs Throttle Position

