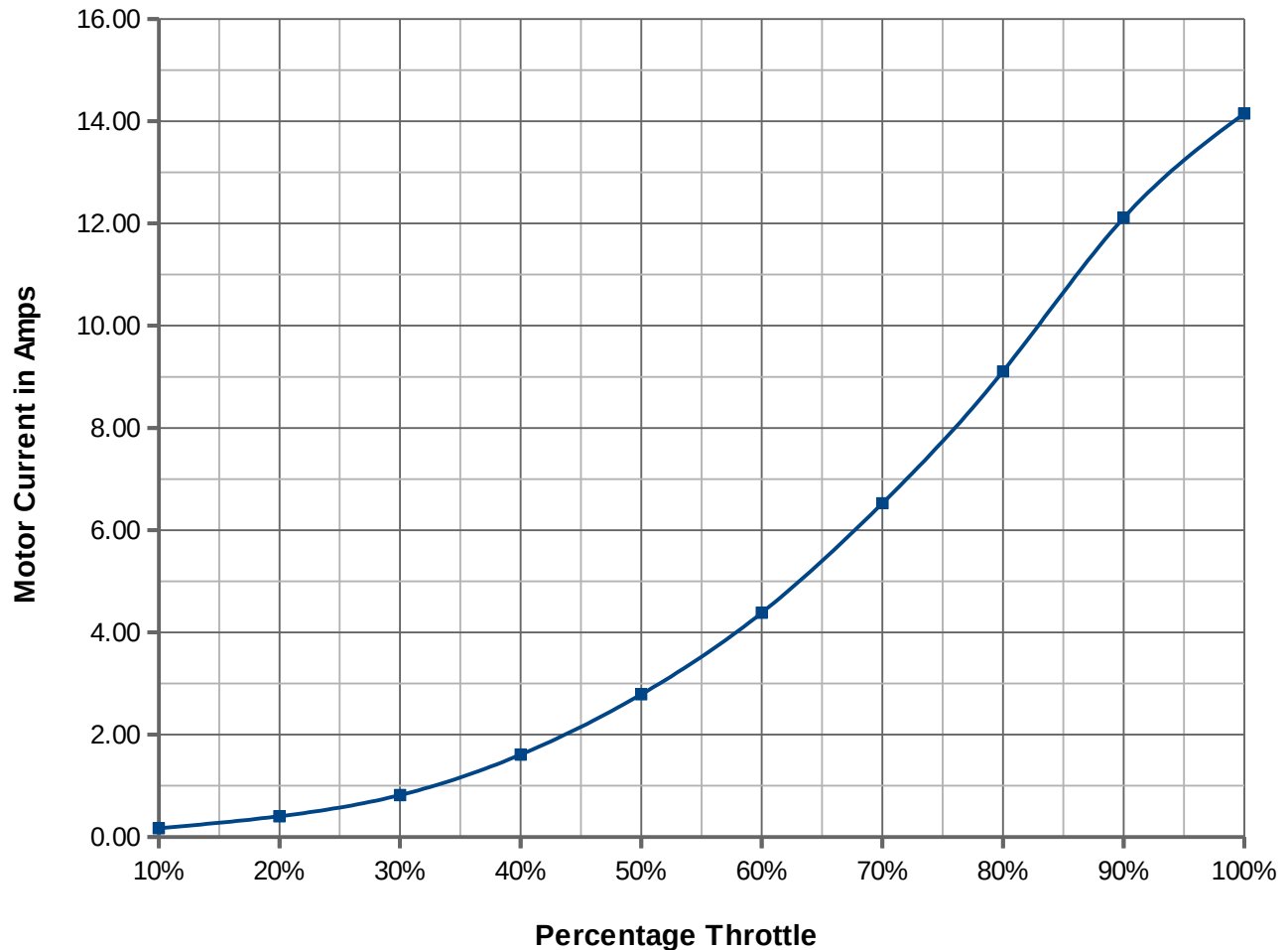


# Cobra CM-2814/36 Motor Test Data, Kv=470

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%	0.17	3.13	1,143	44.3	1.56	14.17
20%	0.41	7.49	1,766	114.2	4.02	15.24
30%	0.82	15.13	2,358	211.7	7.46	13.99
40%	1.61	29.77	3,043	366.0	12.90	12.30
50%	2.79	51.60	3,684	561.8	19.80	10.89
60%	4.39	81.12	4,306	786.5	27.72	9.70
70%	6.53	120.73	4,875	1047.6	36.92	8.68
80%	9.11	168.48	5,435	1306.7	46.05	7.76
90%	12.11	224.04	5,961	1577.5	55.59	7.04
100%	14.15	261.83	6,236	1712.1	60.34	6.54

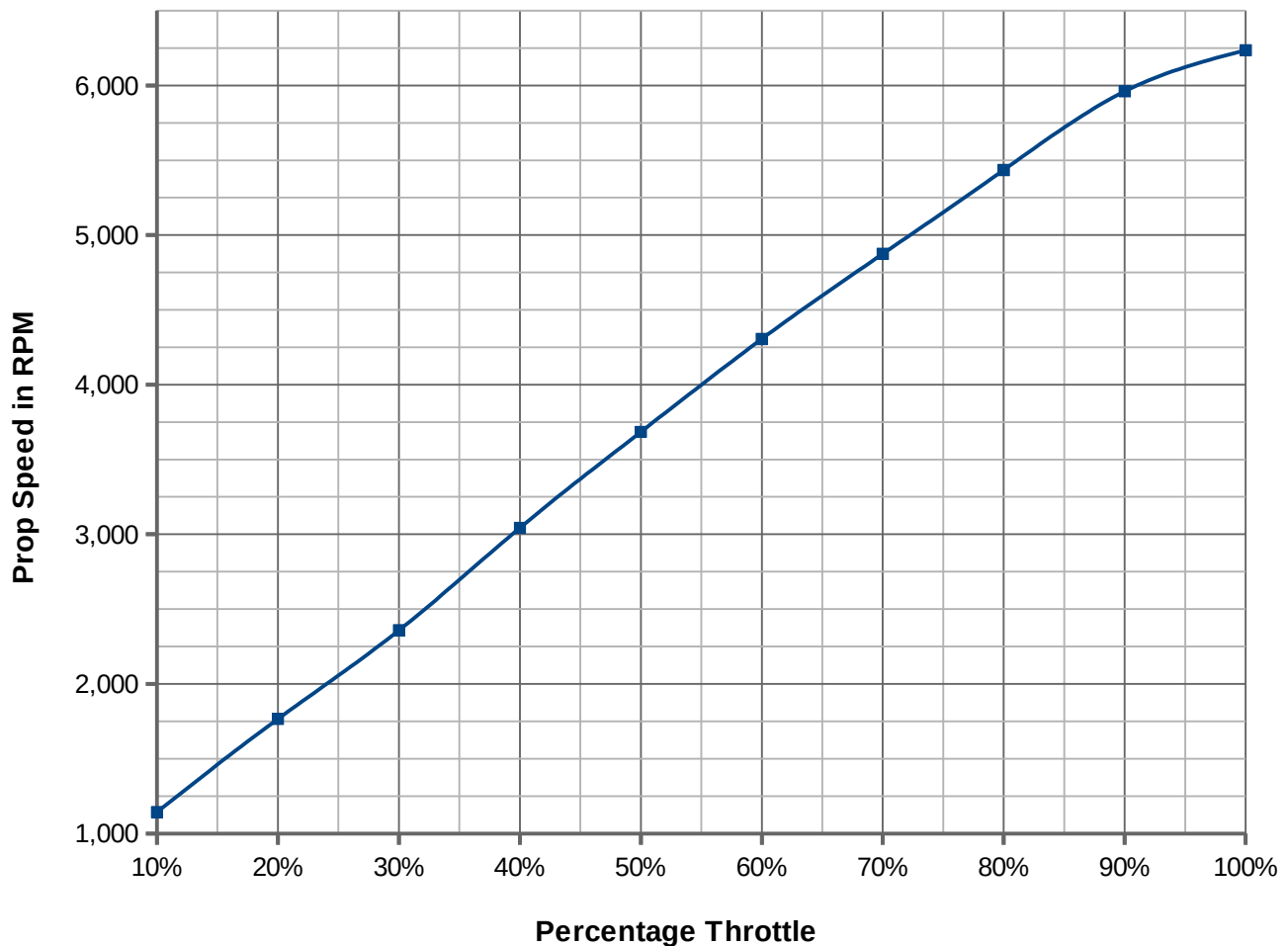
## Motor Current vs Throttle Position



## Cobra CM-2814/36 Motor Test Data, Kv=470

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%	0.17	3.13	1,143	44.3	1.56	14.17
20%	0.41	7.49	1,766	114.2	4.02	15.24
30%	0.82	15.13	2,358	211.7	7.46	13.99
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100%	14.15	261.83	6,236	1712.1	60.34	6.54

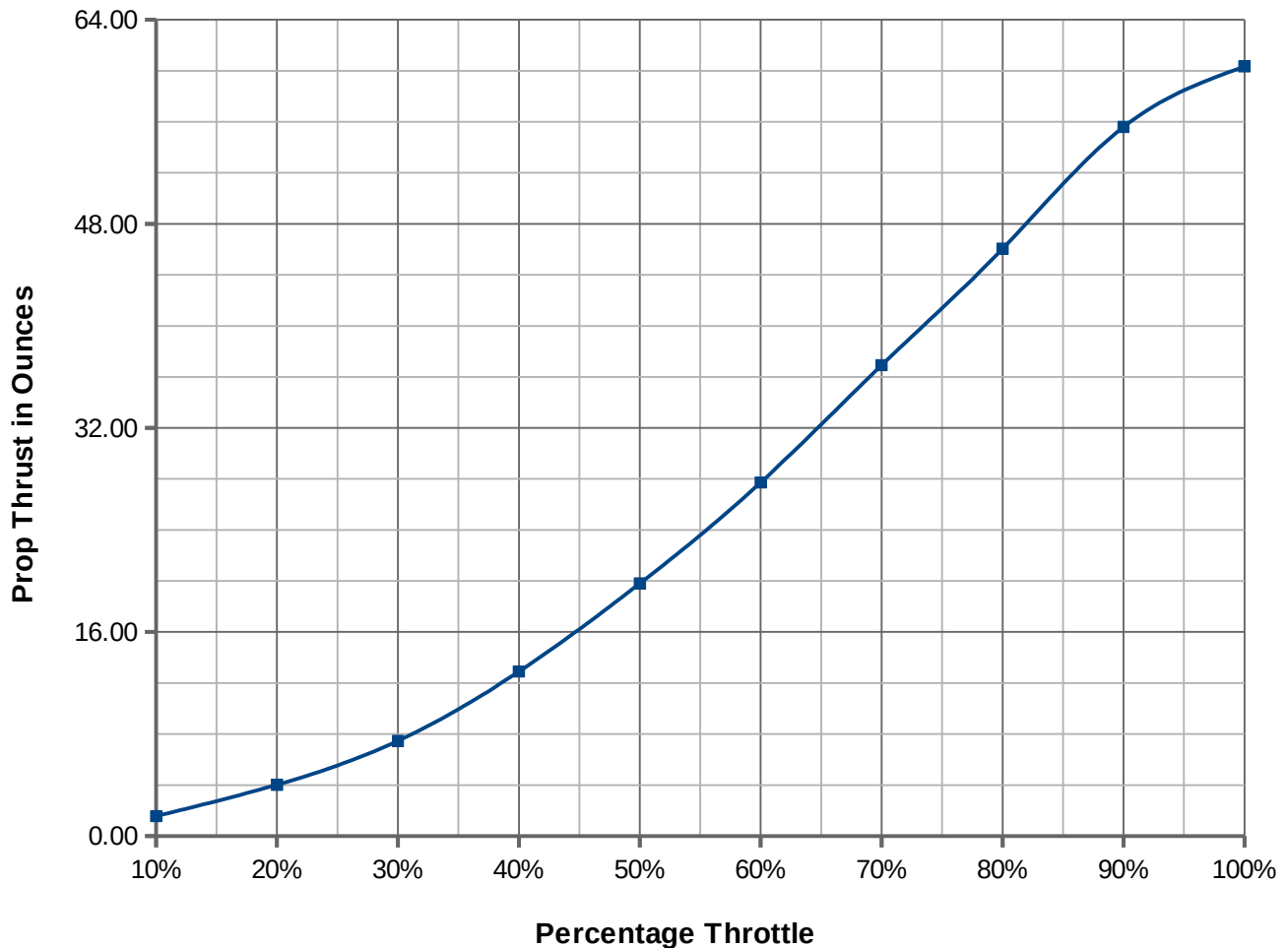
### Propeller RPM vs Throttle Position



## Cobra CM-2814/36 Motor Test Data, Kv=470

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%	0.17	3.13	1,143	44.3	1.56	14.17
20%	0.41	7.49	1,766	114.2	4.02	15.24
30%	0.82	15.13	2,358	211.7	7.46	13.99
40%	1.61	29.77	3,043	366.0	12.90	12.30
50%	2.79	51.60	3,684	561.8	19.80	10.89
60%	4.39	81.12	4,306	786.5	27.72	9.70
70%	6.53	120.73	4,875	1047.6	36.92	8.68
80%	9.11	168.48	5,435	1306.7	46.05	7.76
90%	12.11	224.04	5,961	1577.5	55.59	7.04
100%	14.15	261.83	6,236	1712.1	60.34	6.54

### Propeller Thrust vs Throttle Position



## Cobra CM-2814/36 Motor Test Data, Kv=470

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%	0.17	3.13	1,143	44.3	1.56	14.17
20%	0.41	7.49	1,766	114.2	4.02	15.24
30%	0.82	15.13	2,358	211.7	7.46	13.99
40%	1.61	29.77	3,043	366.0	12.90	12.30
50%	2.79	51.60	3,684	561.8	19.80	10.89
60%	4.39	81.12	4,306	786.5	27.72	9.70
70%	6.53	120.73	4,875	1047.6	36.92	8.68
80%	9.11	168.48	5,435	1306.7	46.05	7.76
90%	12.11	224.04	5,961	1577.5	55.59	7.04
100%	14.15	261.83	6,236	1712.1	60.34	6.54

### Propeller Efficiency vs Throttle Position

