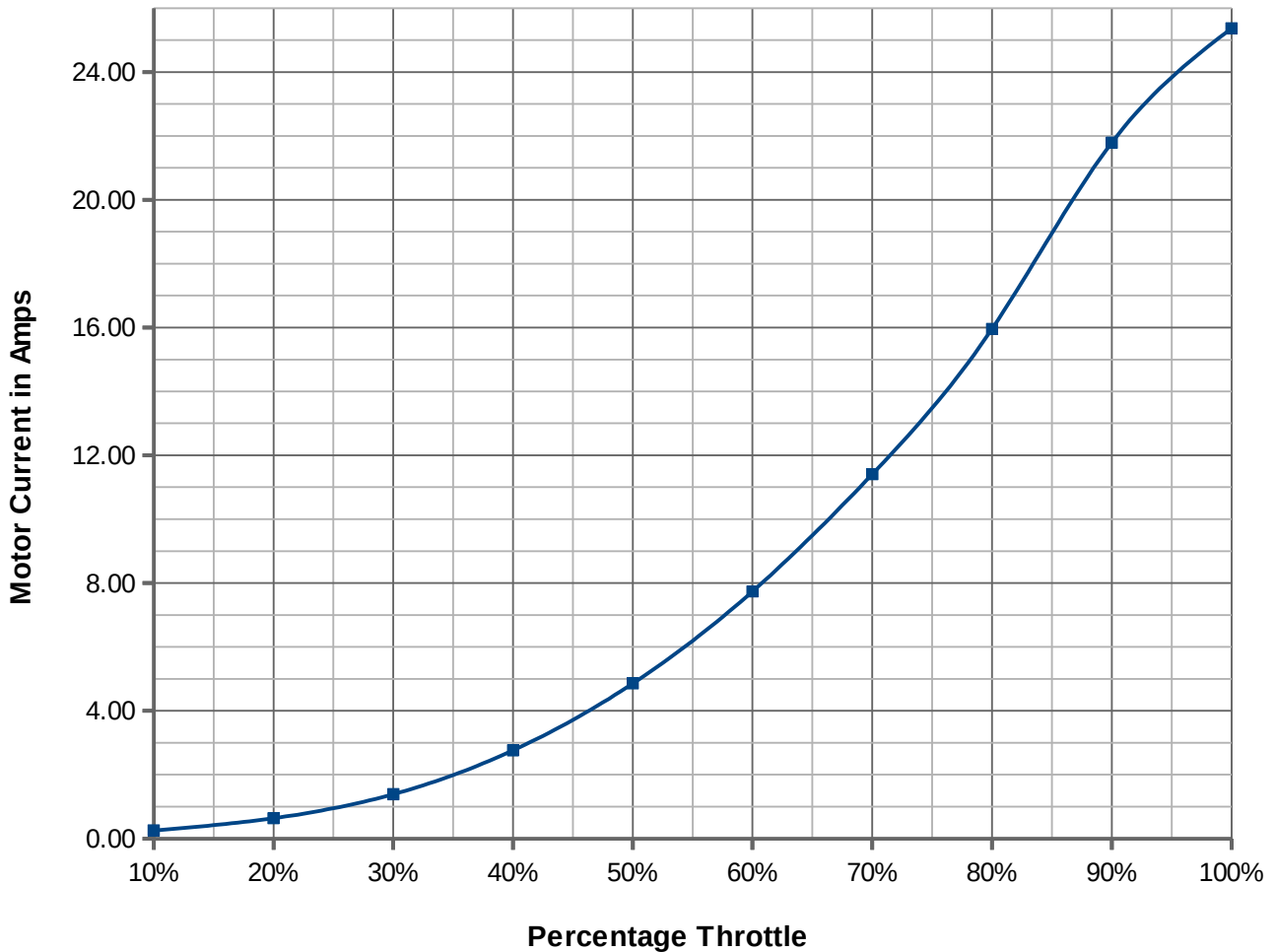


# Cobra CM-4510-28 Motor Test Data, Kv=420

Data Collected at 22.2 volts with GemFan 16x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.25	5.62	1,275	69.8	2.46	12.43
20%	0.64	14.14	1,992	186.9	6.59	13.22
30%	1.39	30.86	2,729	368.8	13.00	11.95
40%	2.76	61.32	3,513	650.1	22.91	10.60
50%	4.86	107.80	4,284	1001.7	35.30	9.29
60%	7.74	171.78	4,984	1427.0	50.29	8.31
70%	11.41	253.21	5,662	1884.1	66.40	7.44
80%	15.96	354.33	6,338	2328.4	82.06	6.57
90%	21.79	483.74	6,933	2890.8	101.88	5.98
100%	25.37	563.28	7,276	3220.4	113.49	5.72

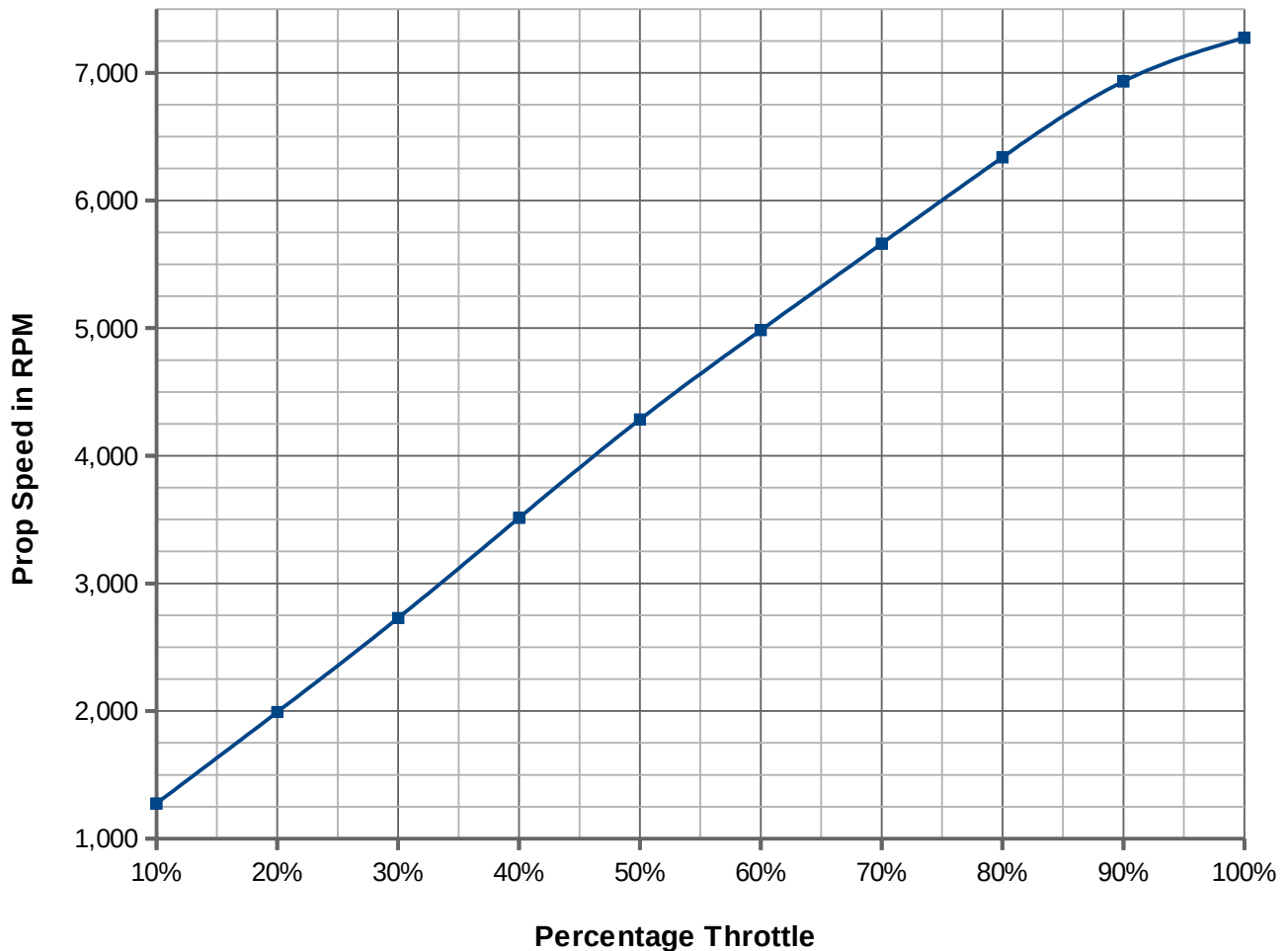
## Motor Current vs Throttle Position



# Cobra CM-4510-28 Motor Test Data, Kv=420

Data Collected at 22.2 volts with GemFan 16x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.25	5.62	1,275	69.8	2.46	12.43
20%	0.64	14.14	1,992	186.9	6.59	13.22
30%	1.39	30.86	2,729	368.8	13.00	11.95
40%	2.76	61.32	3,513	650.1	22.91	10.60
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60%	7.74	171.78	4,984	1427.0	50.29	8.31
70%	11.41	253.21	5,662	1884.1	66.40	7.44
80%	15.96	354.33	6,338	2328.4	82.06	6.57
90%	21.79	483.74	6,933	2890.8	101.88	5.98
100%	25.37	563.28	7,276	3220.4	113.49	5.72

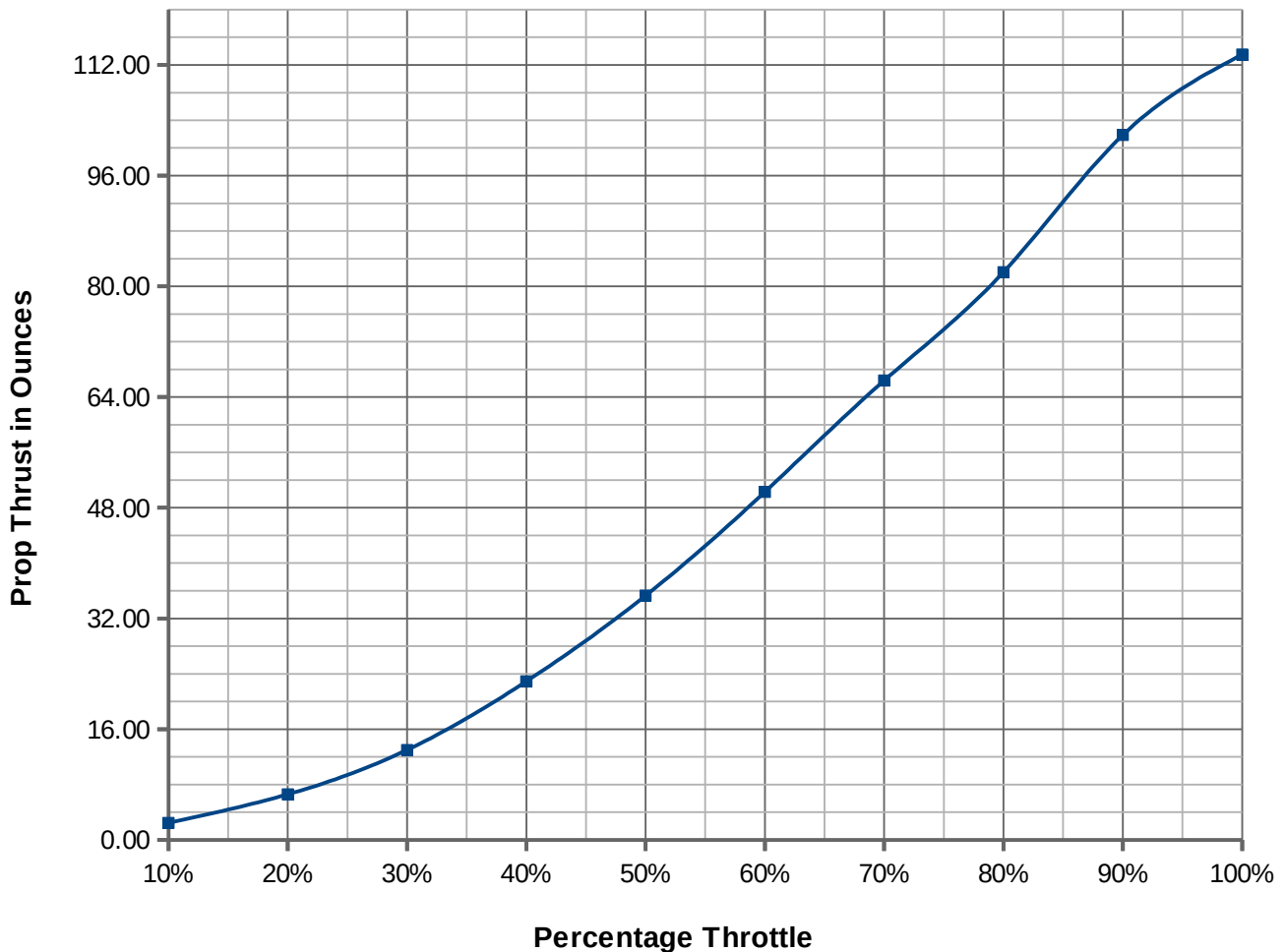
## Propeller RPM vs Throttle Position



# Cobra CM-4510-28 Motor Test Data, Kv=420

Data Collected at 22.2 volts with GemFan 16x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.25	5.62	1,275	69.8	2.46	12.43
20%	0.64	14.14	1,992	186.9	6.59	13.22
30%	1.39	30.86	2,729	368.8	13.00	11.95
40%	2.76	61.32	3,513	650.1	22.91	10.60
50%	4.86	107.80	4,284	1001.7	35.30	9.29
60%	7.74	171.78	4,984	1427.0	50.29	8.31
70%	11.41	253.21	5,662	1884.1	66.40	7.44
80%	15.96	354.33	6,338	2328.4	82.06	6.57
90%	21.79	483.74	6,933	2890.8	101.88	5.98
100%	25.37	563.28	7,276	3220.4	113.49	5.72

## Propeller Thrust vs Throttle Position



## Cobra CM-4510-28 Motor Test Data, Kv=420

Data Collected at 22.2 volts with GemFan 16x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.25	5.62	1,275	69.8	2.46	12.43
20%	0.64	14.14	1,992	186.9	6.59	13.22
30%	1.39	30.86	2,729	368.8	13.00	11.95
40%	2.76	61.32	3,513	650.1	22.91	10.60
50%	4.86	107.80	4,284	1001.7	35.30	9.29
60%	7.74	171.78	4,984	1427.0	50.29	8.31
70%	11.41	253.21	5,662	1884.1	66.40	7.44
80%	15.96	354.33	6,338	2328.4	82.06	6.57
90%	21.79	483.74	6,933	2890.8	101.88	5.98
100%	25.37	563.28	7,276	3220.4	113.49	5.72

### Propeller Efficiency vs Throttle Position

