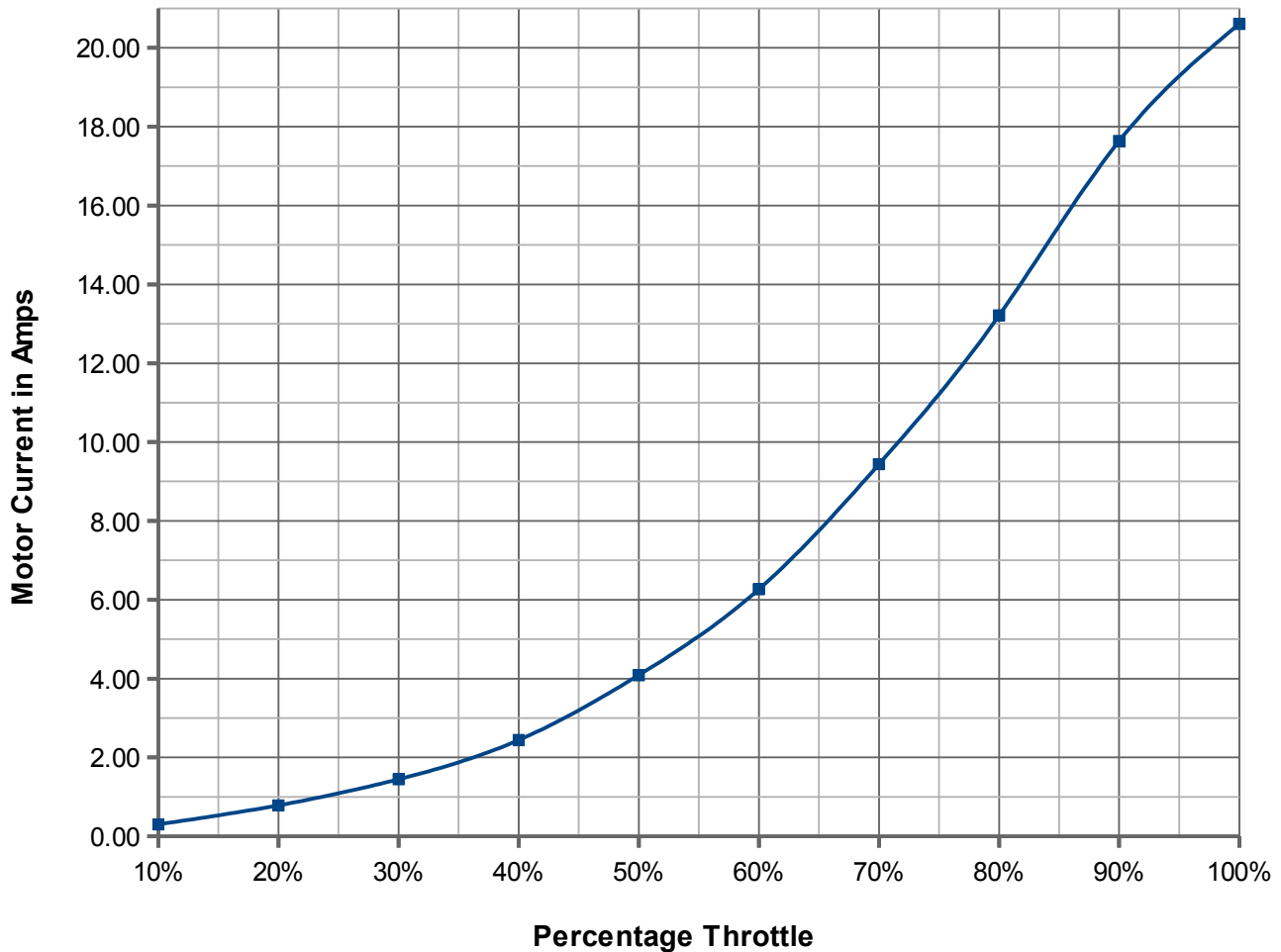


Cobra CM-2820/24 Motor Test Data, Kv=490

Data Collected at 22.2 volts with GemFan 13x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.31	6.77	1,780	87.2	3.07	12.88
20%	0.79	17.47	2,694	211.0	7.44	12.08
30%	1.45	32.17	3,408	356.7	12.57	11.09
40%	2.44	54.19	4,176	535.7	18.88	9.89
50%	4.09	90.78	5,022	791.9	27.91	8.72
60%	6.27	139.08	5,842	1076.6	37.94	7.74
70%	9.44	209.50	6,702	1445.3	50.94	6.90
80%	13.21	293.33	7,500	1806.7	63.67	6.16
90%	17.64	391.52	8,234	2194.2	77.33	5.60
100%	20.61	457.45	8,631	2427.0	85.53	5.31

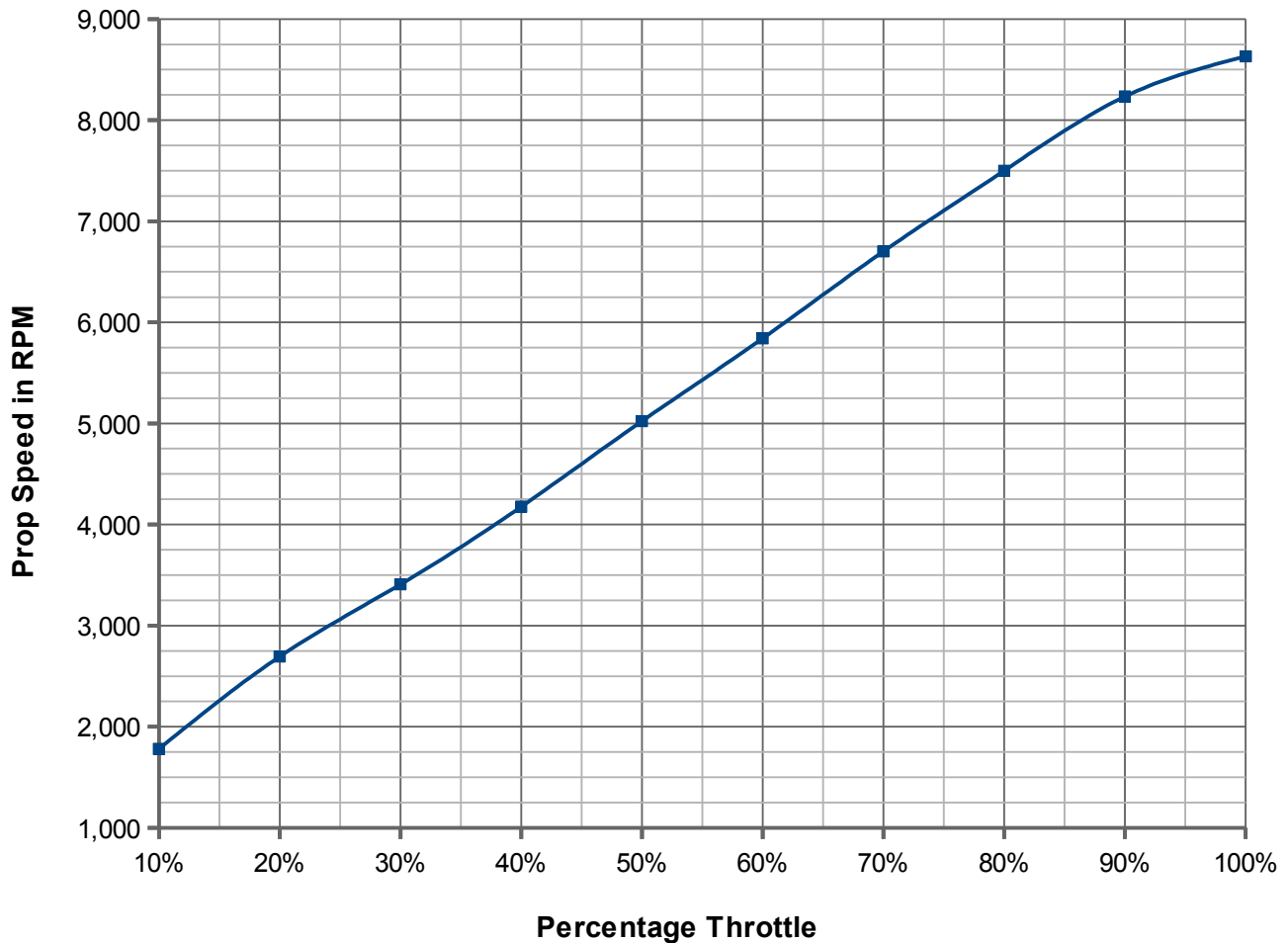
Motor Current vs Throttle Position



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

Data Collected at 22.2 volts with GemFan 13x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.31	6.77	1,780	87.2	3.07	12.88
20%	0.79	17.47	2,694	211.0	7.44	12.08
30%	1.45	32.17	3,408	356.7	12.57	11.09
40%	2.44	54.19	4,176	535.7	18.88	9.89
50%	4.09	90.78	5,022	791.9	27.91	8.72
60%	6.27	139.08	5,842	1076.6	37.94	7.74
70%	9.44	209.50	6,702	1445.3	50.94	6.90
80%	13.21	293.33	7,500	1806.7	63.67	6.16
90%	17.64	391.52	8,234	2194.2	77.33	5.60
100%	20.61	457.45	8,631	2427.0	85.53	5.31

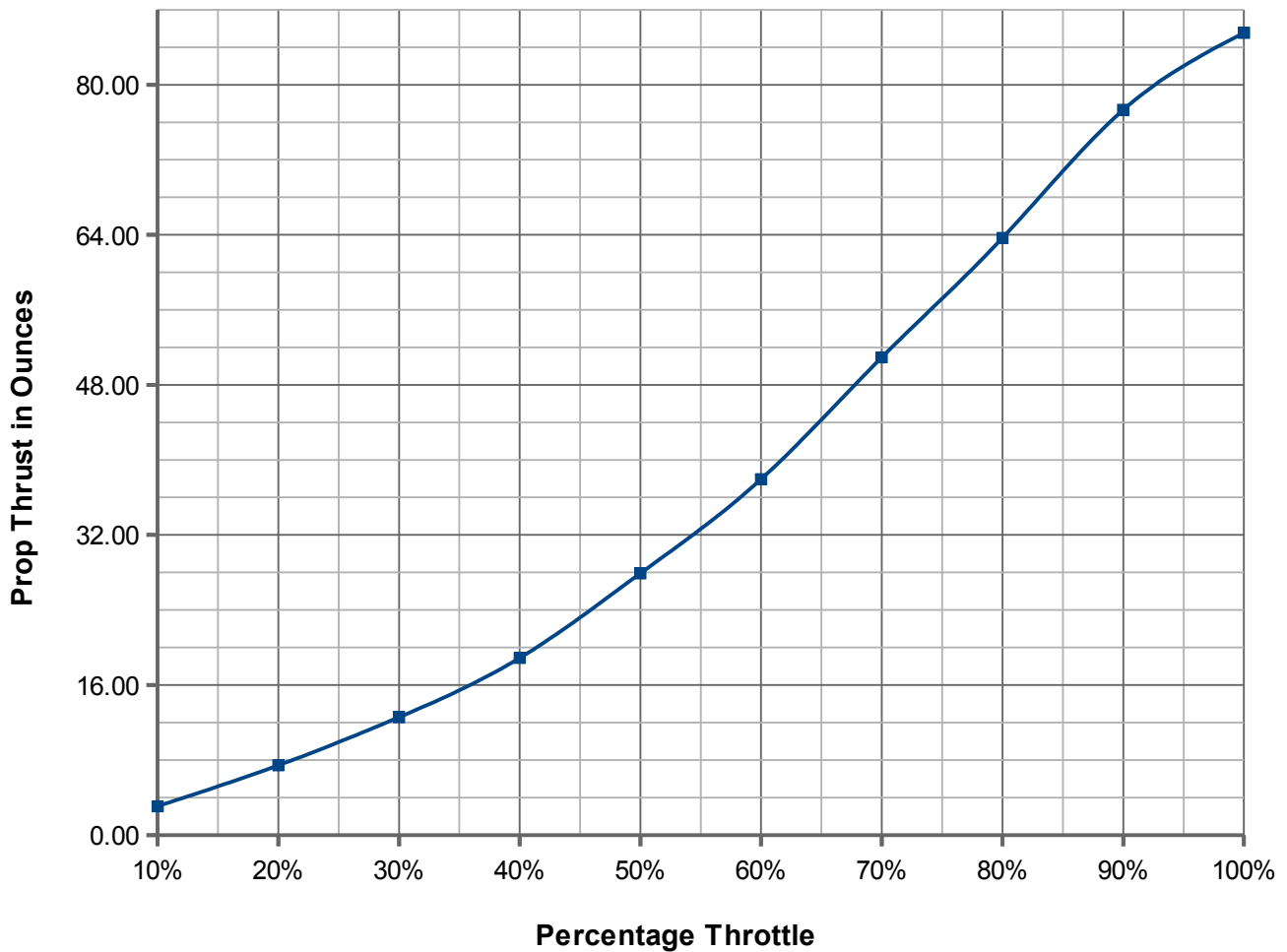
Propeller RPM vs Throttle Position



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

Data Collected at 22.2 volts with GemFan 13x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.31	6.77	1,780	87.2	3.07	12.88
20%	0.79	17.47	2,694	211.0	7.44	12.08
30%	1.45	32.17	3,408	356.7	12.57	11.09
40%	2.44	54.19	4,176	535.7	18.88	9.89
50%	4.09	90.78	5,022	791.9	27.91	8.72
60%	6.27	139.08	5,842	1076.6	37.94	7.74
70%	9.44	209.50	6,702	1445.3	50.94	6.90
80%	13.21	293.33	7,500	1806.7	63.67	6.16
90%	17.64	391.52	8,234	2194.2	77.33	5.60
100%	20.61	457.45	8,631	2427.0	85.53	5.31

Propeller Thrust vs Throttle Position



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

Data Collected at 22.2 volts with GemFan 13x4.5-MR Wood Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.31	6.77	1,780	87.2	3.07	12.88
20%	0.79	17.47	2,694	211.0	7.44	12.08
30%	1.45	32.17	3,408	356.7	12.57	11.09
40%	2.44	54.19	4,176	535.7	18.88	9.89
50%	4.09	90.78	5,022	791.9	27.91	8.72
60%	6.27	139.08	5,842	1076.6	37.94	7.74
70%	9.44	209.50	6,702	1445.3	50.94	6.90
80%	13.21	293.33	7,500	1806.7	63.67	6.16
90%	17.64	391.52	8,234	2194.2	77.33	5.60
100%	20.61	457.45	8,631	2427.0	85.53	5.31

Propeller Efficiency vs Throttle Position

