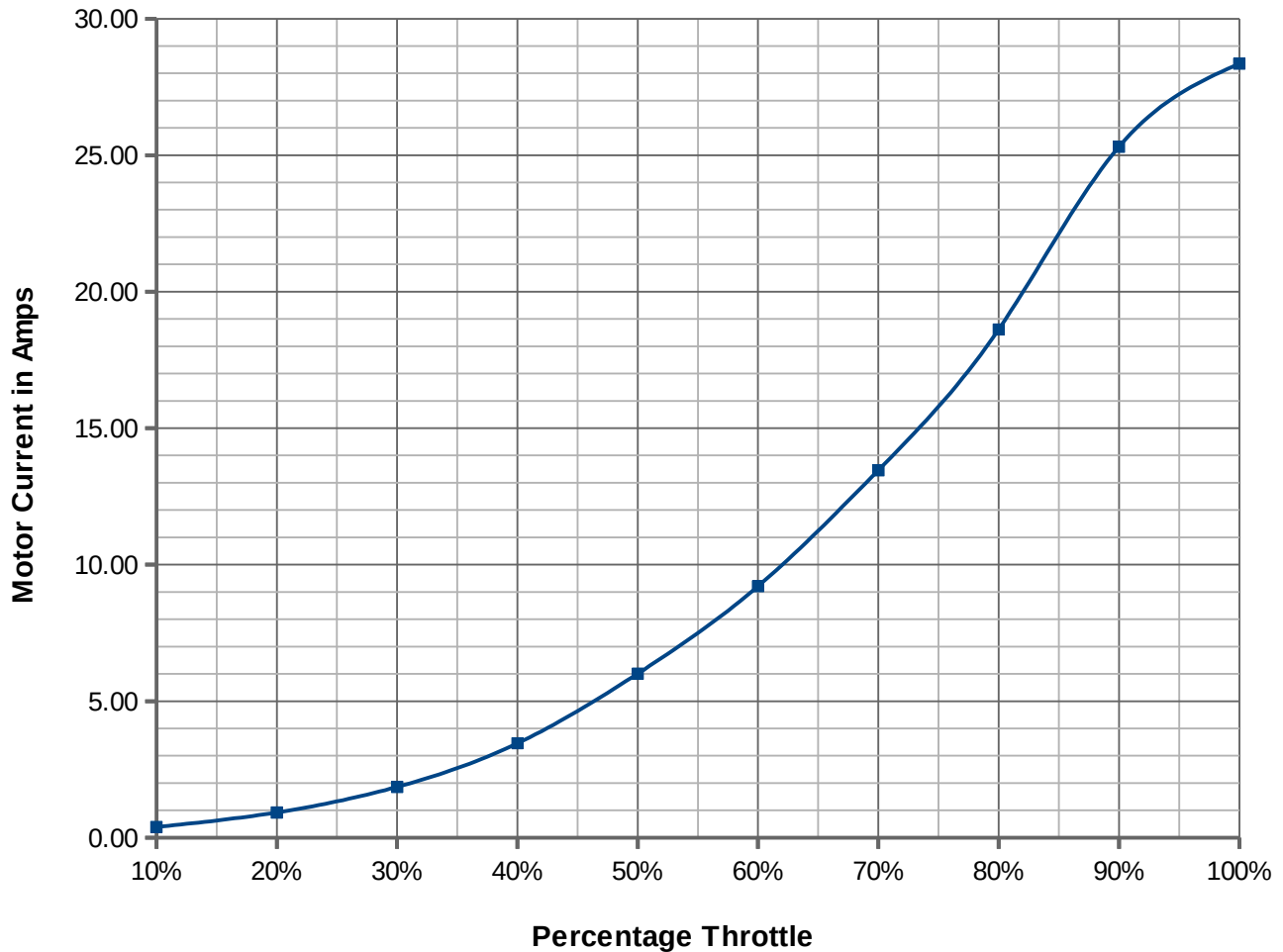


# Cobra CM-4520-18 Motor Test Data, Kv=310

Data Collected at 22.2 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.39	8.68	1,037	101.5	3.58	11.69
20%	0.92	20.49	1,725	281.3	9.91	13.73
30%	1.86	41.29	2,308	533.5	18.80	12.92
40%	3.46	76.72	2,919	902.8	31.82	11.77
50%	6.01	133.38	3,563	1374.2	48.43	10.30
60%	9.21	204.44	4,130	1885.1	66.44	9.22
70%	13.46	298.77	4,685	2477.5	87.31	8.29
80%	18.62	413.32	5,221	3059.0	107.81	7.40
90%	25.31	561.97	5,735	3811.0	134.31	6.78
100%	28.35	629.41	5,972	4107.0	144.74	6.53

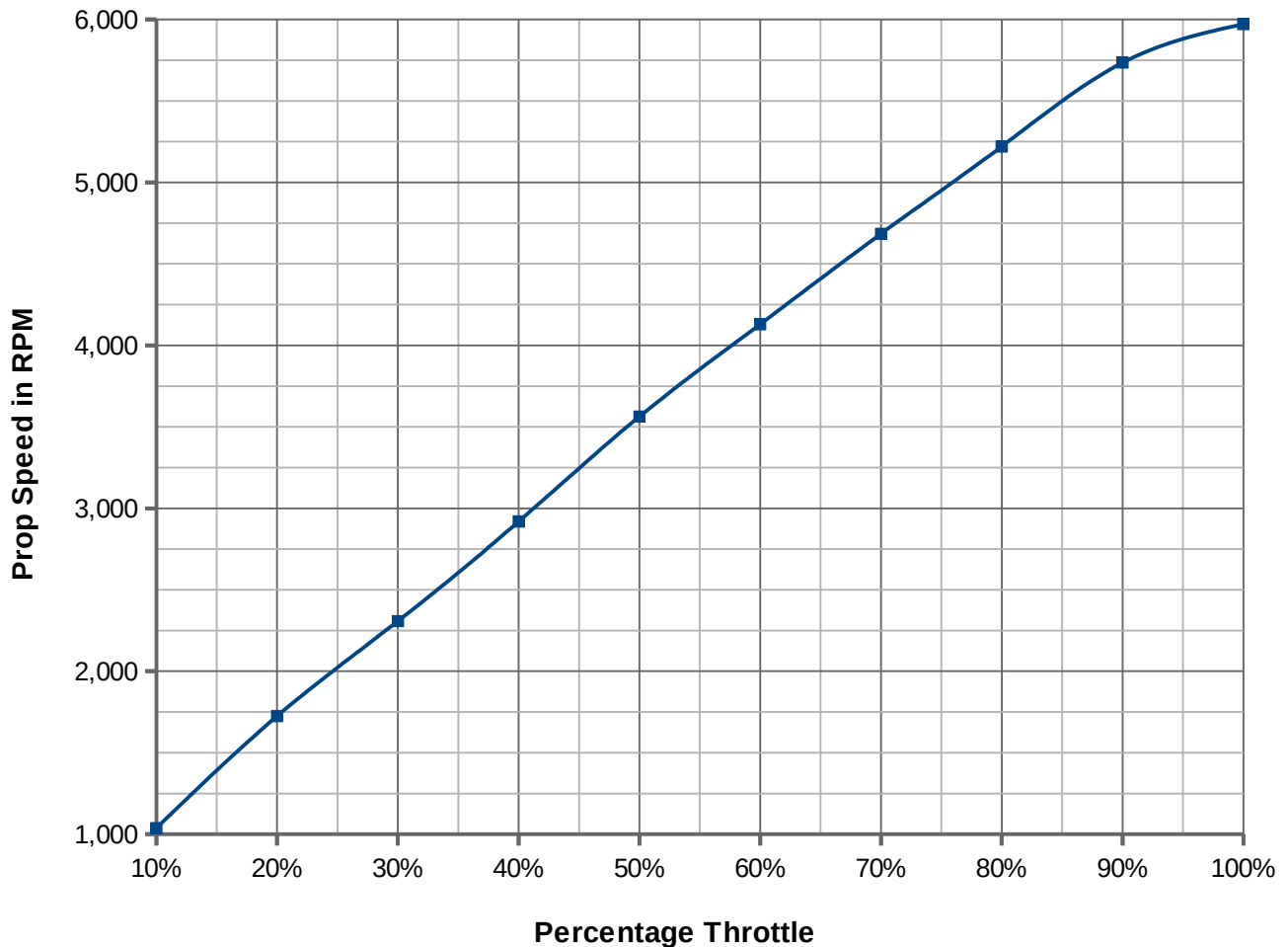
## Motor Current vs Throttle Position



# Cobra CM-4520-18 Motor Test Data, Kv=310

Data Collected at 22.2 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.39	8.68	1,037	101.5	3.58	11.69
20%	0.92	20.49	1,725	281.3	9.91	13.73
30%	1.86	41.29	2,308	533.5	18.80	12.92
40%	3.46	76.72	2,919	902.8	31.82	11.77
50%	6.01	133.38	3,563	1374.2	48.43	10.30
60%	9.21	204.44	4,130	1885.1	66.44	9.22
70%	13.46	298.77	4,685	2477.5	87.31	8.29
80%	18.62	413.32	5,221	3059.0	107.81	7.40
90%	25.31	561.97	5,735	3811.0	134.31	6.78
100%	28.35	629.41	5,972	4107.0	144.74	6.53

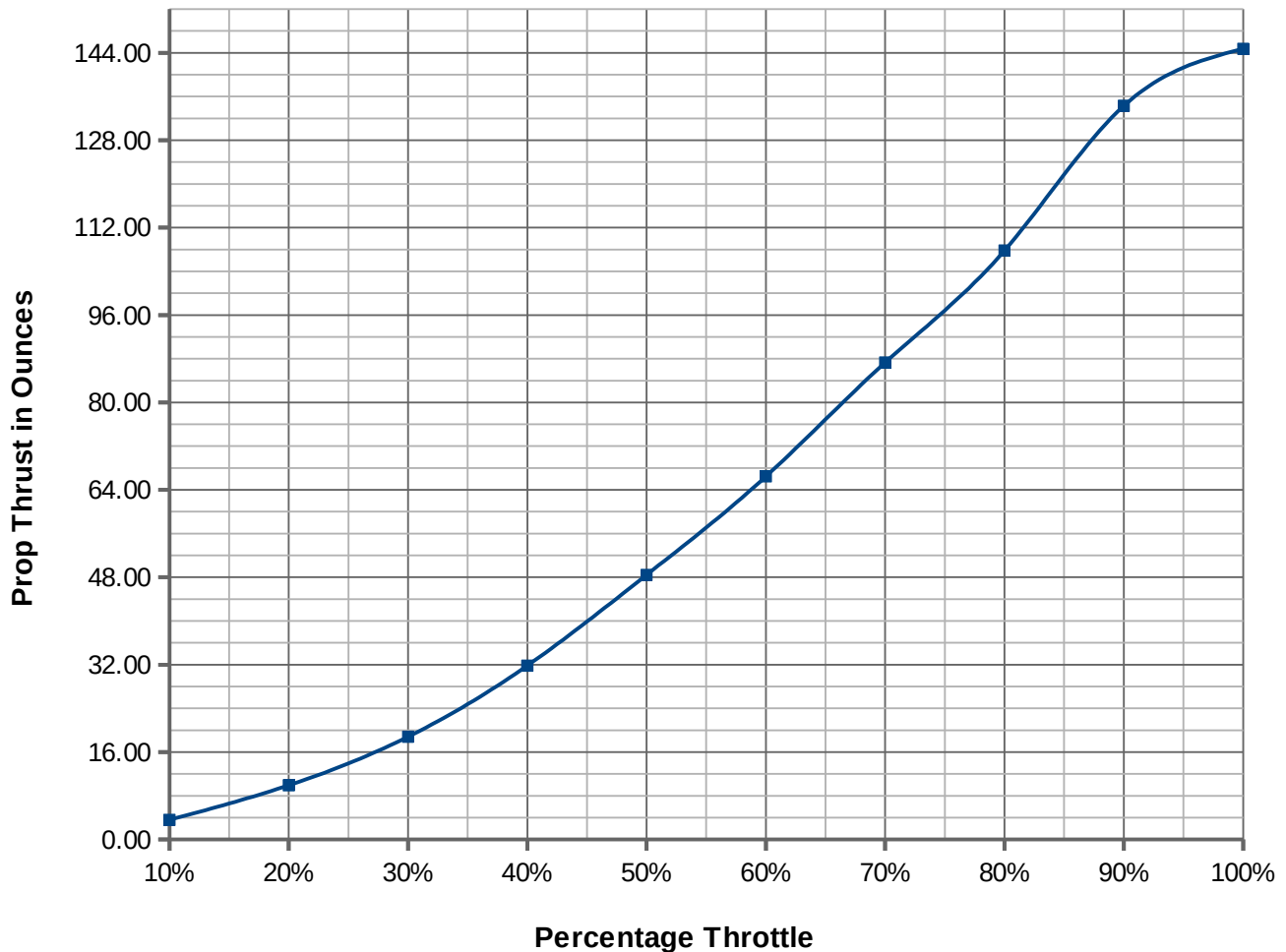
## Propeller RPM vs Throttle Position



## Cobra CM-4520-18 Motor Test Data, Kv=310

Data Collected at 22.2 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.39	8.68	1,037	101.5	3.58	11.69
20%	0.92	20.49	1,725	281.3	9.91	13.73
30%	1.86	41.29	2,308	533.5	18.80	12.92
40%	3.46	76.72	2,919	902.8	31.82	11.77
50%	6.01	133.38	3,563	1374.2	48.43	10.30
60%	9.21	204.44	4,130	1885.1	66.44	9.22
70%	13.46	298.77	4,685	2477.5	87.31	8.29
80%	18.62	413.32	5,221	3059.0	107.81	7.40
90%	25.31	561.97	5,735	3811.0	134.31	6.78
100%	28.35	629.41	5,972	4107.0	144.74	6.53

### Propeller Thrust vs Throttle Position



## Cobra CM-4520-18 Motor Test Data, Kv=310

Data Collected at 22.2 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.39	8.68	1,037	101.5	3.58	11.69
20%	0.92	20.49	1,725	281.3	9.91	13.73
30%	1.86	41.29	2,308	533.5	18.80	12.92
40%	3.46	76.72	2,919	902.8	31.82	11.77
50%	6.01	133.38	3,563	1374.2	48.43	10.30
60%	9.21	204.44	4,130	1885.1	66.44	9.22
70%	13.46	298.77	4,685	2477.5	87.31	8.29
80%	18.62	413.32	5,221	3059.0	107.81	7.40
90%	25.31	561.97	5,735	3811.0	134.31	6.78
100%	28.35	629.41	5,972	4107.0	144.74	6.53

### Propeller Efficiency vs Throttle Position

