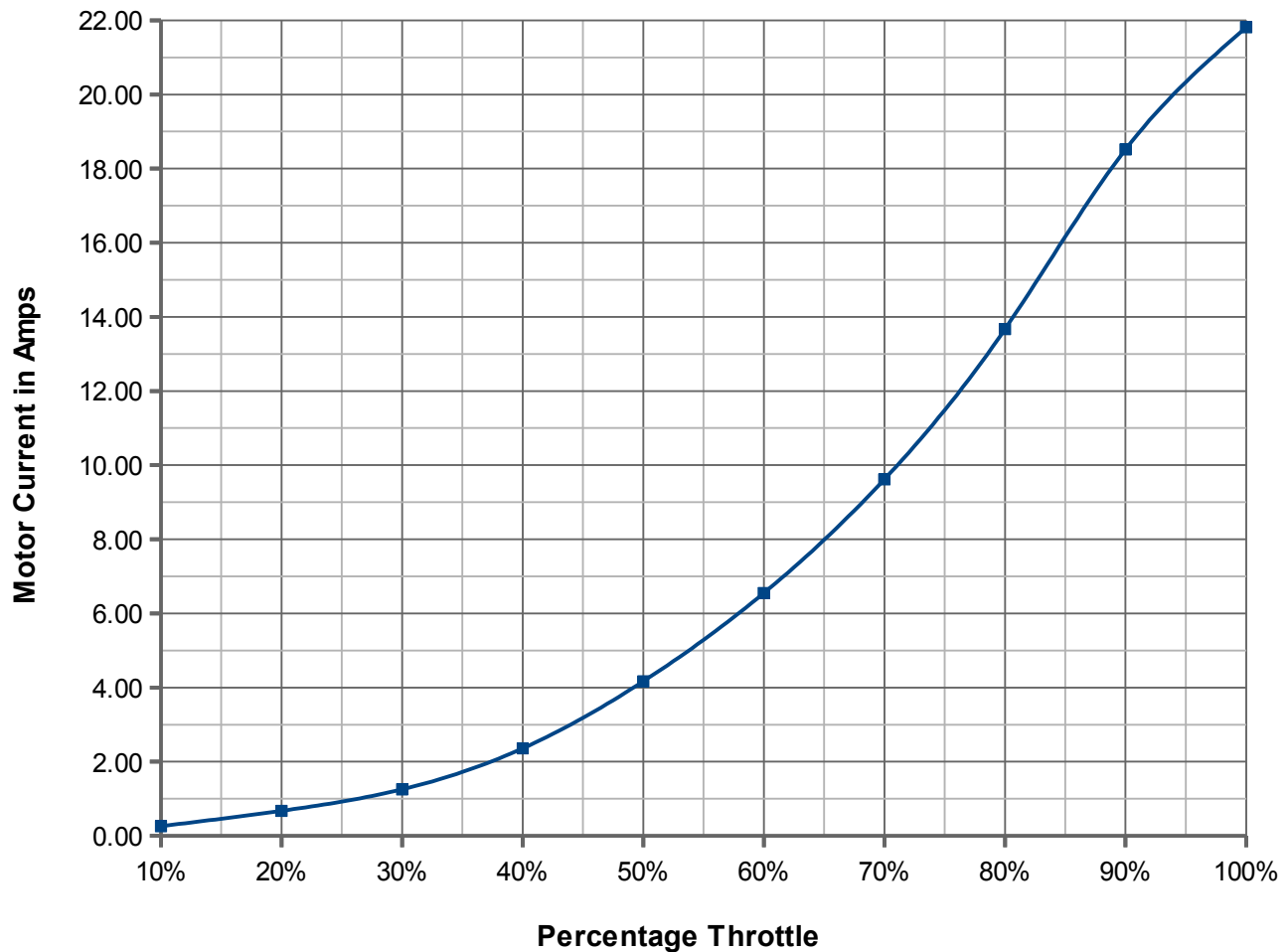


# Cobra CM-2820/24 Motor Test Data, Kv=490

Data Collected at 18.5 volts with APC 14x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.83	1,382	78.8	2.78	16.32
20%	0.68	12.51	2,097	187.8	6.62	15.02
30%	1.26	23.24	2,664	310.7	10.95	13.37
40%	2.36	43.68	3,368	496.8	17.51	11.37
50%	4.17	77.11	4,090	779.2	27.46	10.11
60%	6.55	121.16	4,765	1065.7	37.56	8.80
70%	9.62	177.91	5,406	1380.7	48.66	7.76
80%	13.67	252.93	6,023	1755.6	61.87	6.94
90%	18.52	342.58	6,578	2132.3	75.15	6.22
100%	21.81	403.49	6,893	2365.9	83.38	5.86

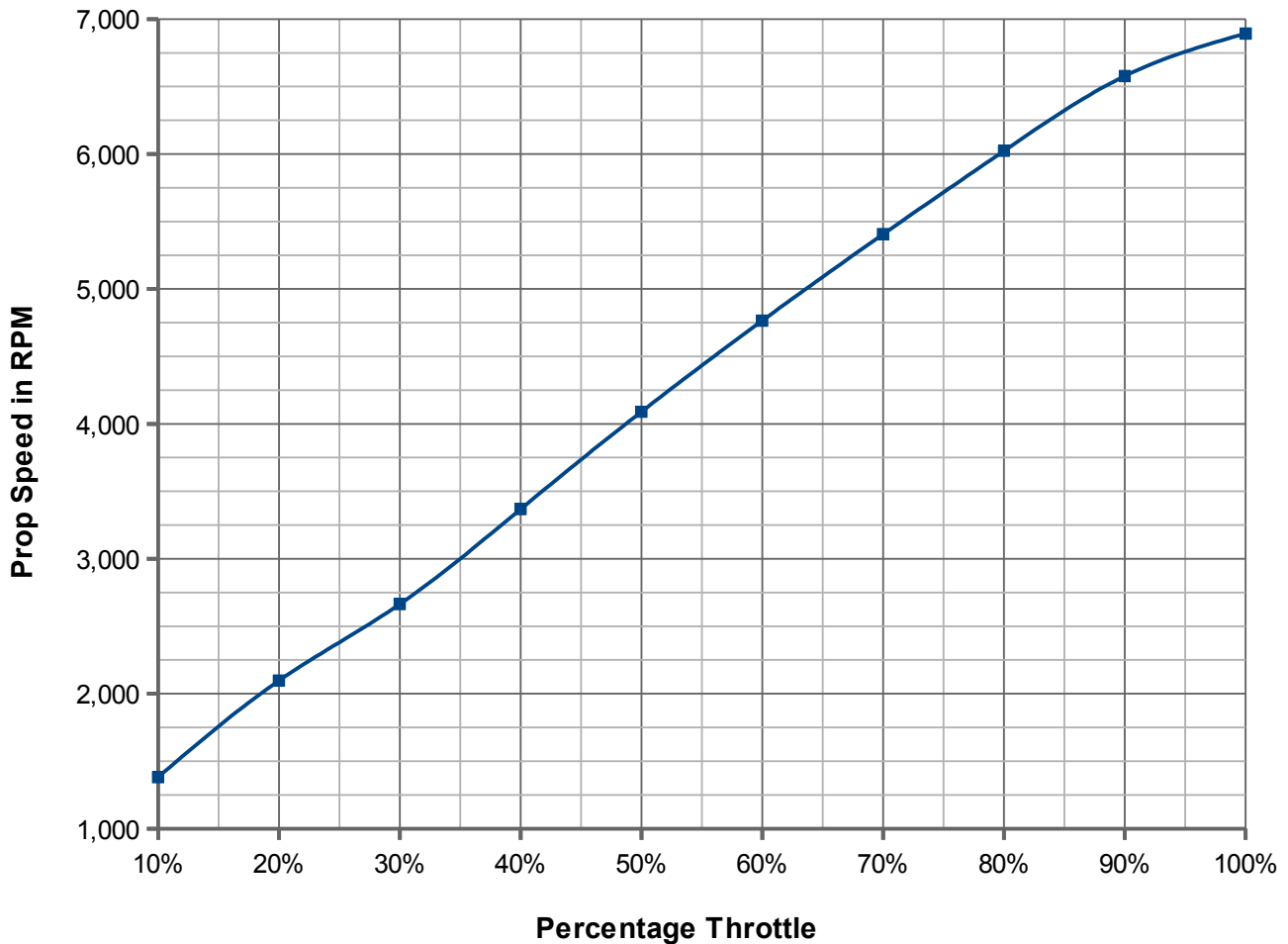
## Motor Current vs Throttle Position



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

Data Collected at 18.5 volts with APC 14x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.83	1,382	78.8	2.78	16.32
20%	0.68	12.51	2,097	187.8	6.62	15.02
30%	1.26	23.24	2,664	310.7	10.95	13.37
40%	2.36	43.68	3,368	496.8	17.51	11.37
50%	4.17	77.11	4,090	779.2	27.46	10.11
60%	6.55	121.16	4,765	1065.7	37.56	8.80
70%	9.62	177.91	5,406	1380.7	48.66	7.76
80%	13.67	252.93	6,023	1755.6	61.87	6.94
90%	18.52	342.58	6,578	2132.3	75.15	6.22
100%	21.81	403.49	6,893	2365.9	83.38	5.86

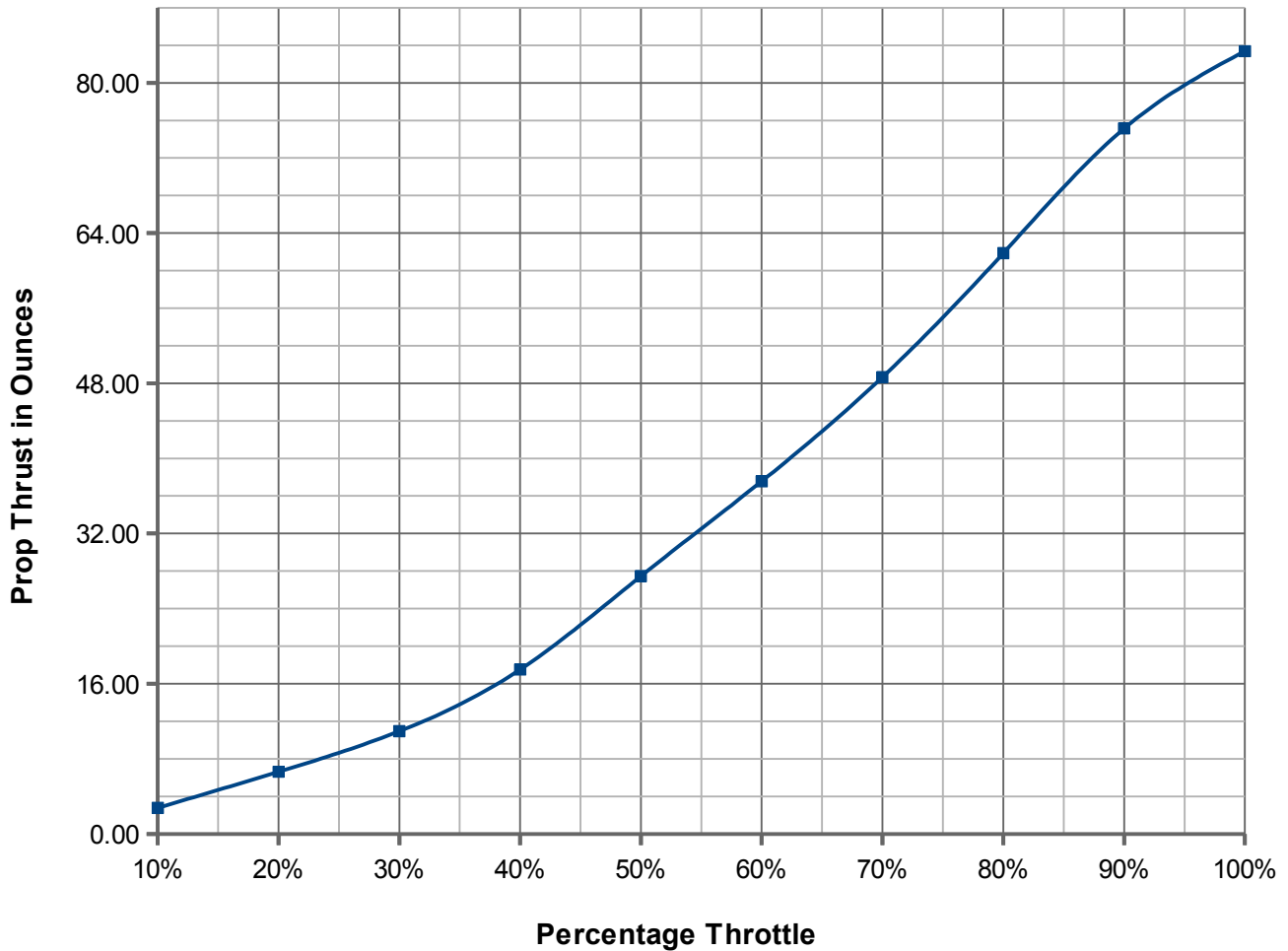
## Propeller RPM vs Throttle Position



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

Data Collected at 18.5 volts with APC 14x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.83	1,382	78.8	2.78	16.32
20%	0.68	12.51	2,097	187.8	6.62	15.02
30%	1.26	23.24	2,664	310.7	10.95	13.37
40%	2.36	43.68	3,368	496.8	17.51	11.37
50%	4.17	77.11	4,090	779.2	27.46	10.11
60%	6.55	121.16	4,765	1065.7	37.56	8.80
70%	9.62	177.91	5,406	1380.7	48.66	7.76
80%	13.67	252.93	6,023	1755.6	61.87	6.94
90%	18.52	342.58	6,578	2132.3	75.15	6.22
100%	21.81	403.49	6,893	2365.9	83.38	5.86

## Propeller Thrust vs Throttle Position



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

Data Collected at 18.5 volts with APC 14x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.26	4.83	1,382	78.8	2.78	16.32
20%	0.68	12.51	2,097	187.8	6.62	15.02
30%	1.26	23.24	2,664	310.7	10.95	13.37
40%	2.36	43.68	3,368	496.8	17.51	11.37
50%	4.17	77.11	4,090	779.2	27.46	10.11
60%	6.55	121.16	4,765	1065.7	37.56	8.80
70%	9.62	177.91	5,406	1380.7	48.66	7.76
80%	13.67	252.93	6,023	1755.6	61.87	6.94
90%	18.52	342.58	6,578	2132.3	75.15	6.22
100%	21.81	403.49	6,893	2365.9	83.38	5.86

## Propeller Efficiency vs Throttle Position

