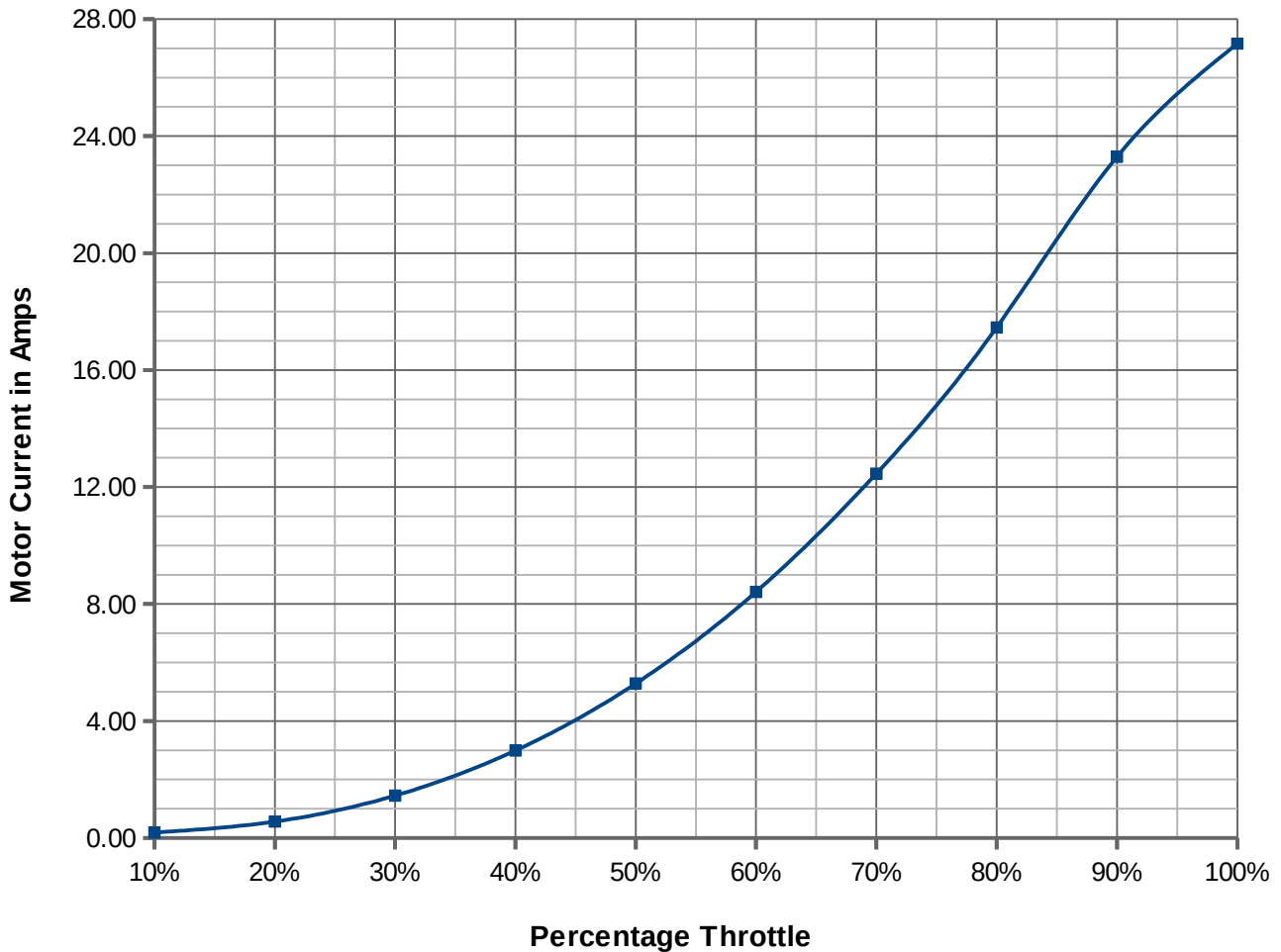


# Cobra CM-3520/20 Motor Test Data, Kv=480

Data Collected at 14.8 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.19	2.80	706	46.4	1.64	16.59
20%	0.56	8.30	1,297	145.4	5.12	17.51
30%	1.45	21.47	1,908	338.2	11.92	15.75
40%	2.99	44.27	2,468	595.5	20.99	13.45
50%	5.28	78.16	3,000	923.9	32.56	11.82
60%	8.42	124.54	3,502	1267.8	44.68	10.18
70%	12.46	184.33	3,977	1648.7	58.10	8.94
80%	17.46	258.38	4,411	2093.1	73.77	8.10
90%	23.29	344.75	4,815	2490.2	87.76	7.22
100%	27.16	401.92	5,039	2775.9	97.83	6.91

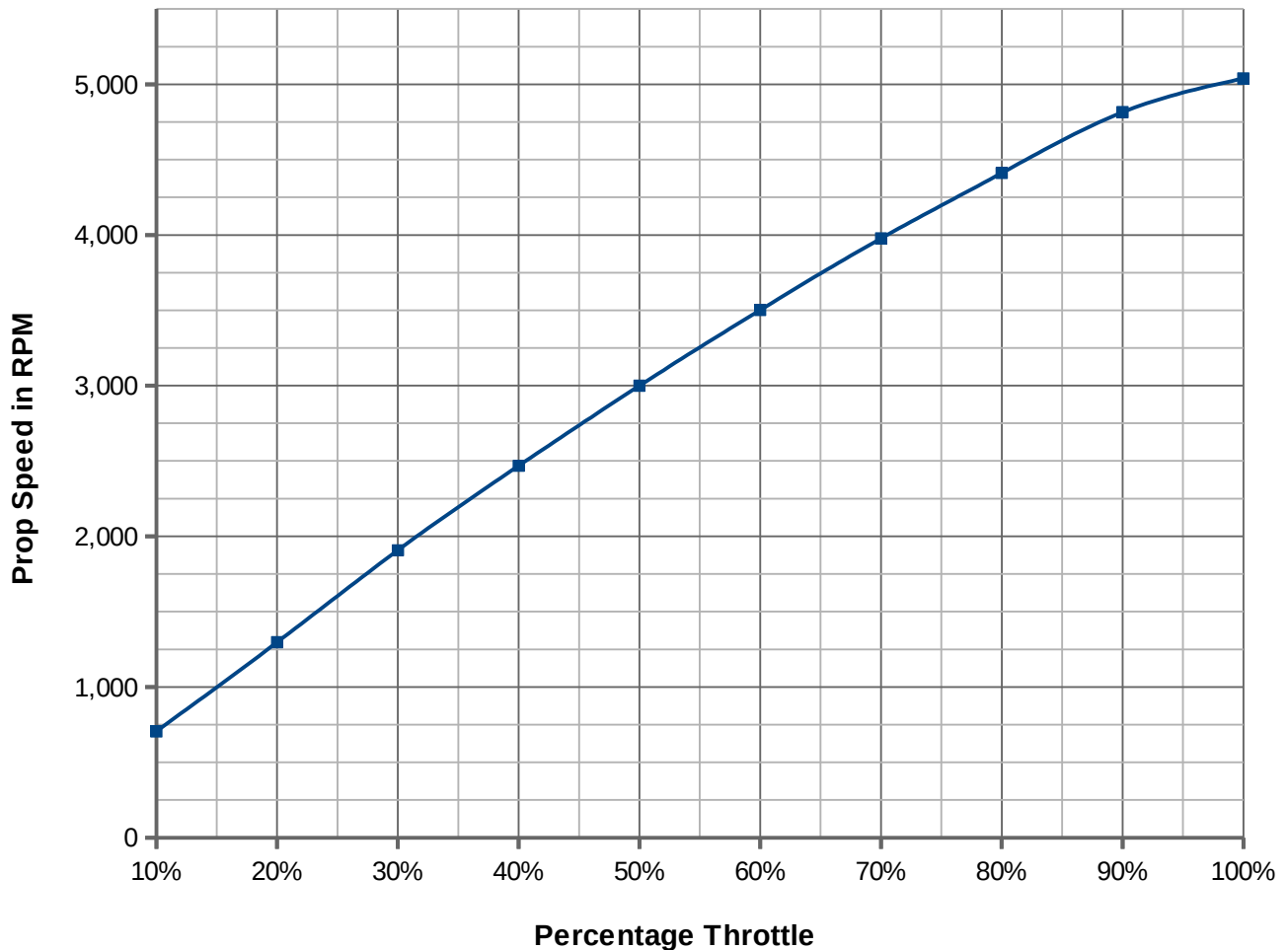
## Motor Current vs Throttle Position



# Cobra CM-3520/20 Motor Test Data, Kv=480

Data Collected at 14.8 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.19	2.80	706	46.4	1.64	16.59
20%	0.56	8.30	1,297	145.4	5.12	17.51
30%	1.45	21.47	1,908	338.2	11.92	15.75
40%	2.99	44.27	2,468	595.5	20.99	13.45
50%	5.28	78.16	3,000	923.9	32.56	11.82
60%	8.42	124.54	3,502	1267.8	44.68	10.18
70%	12.46	184.33	3,977	1648.7	58.10	8.94
80%	17.46	258.38	4,411	2093.1	73.77	8.10
90%	23.29	344.75	4,815	2490.2	87.76	7.22
100%	27.16	401.92	5,039	2775.9	97.83	6.91

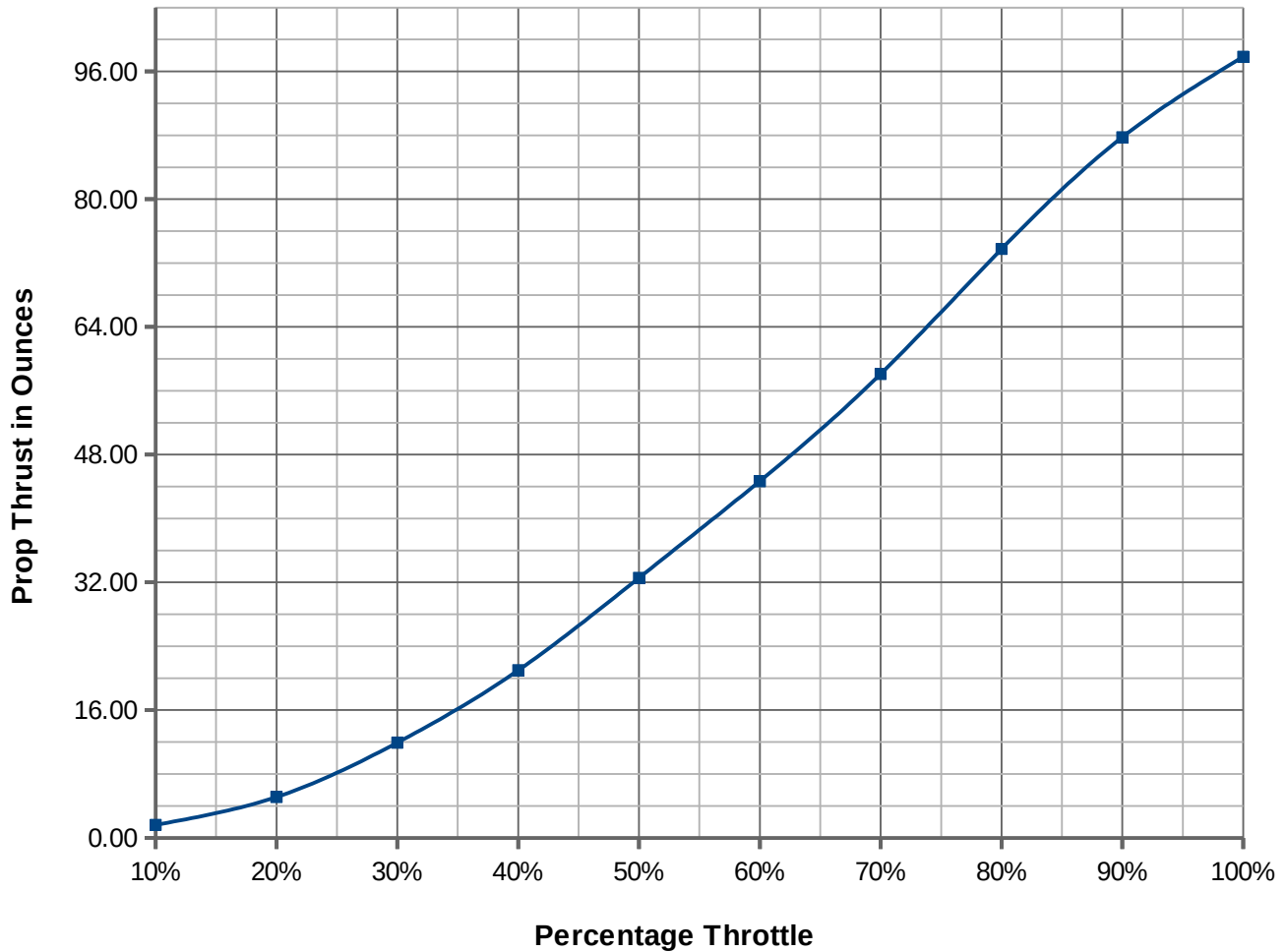
## Propeller RPM vs Throttle Position



# Cobra CM-3520/20 Motor Test Data, Kv=480

Data Collected at 14.8 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.19	2.80	706	46.4	1.64	16.59
20%	0.56	8.30	1,297	145.4	5.12	17.51
30%	1.45	21.47	1,908	338.2	11.92	15.75
40%	2.99	44.27	2,468	595.5	20.99	13.45
50%	5.28	78.16	3,000	923.9	32.56	11.82
60%	8.42	124.54	3,502	1267.8	44.68	10.18
70%	12.46	184.33	3,977	1648.7	58.10	8.94
80%	17.46	258.38	4,411	2093.1	73.77	8.10
90%	23.29	344.75	4,815	2490.2	87.76	7.22
100%	27.16	401.92	5,039	2775.9	97.83	6.91

## Propeller Thrust vs Throttle Position



## Cobra CM-3520/20 Motor Test Data, Kv=480

Data Collected at 14.8 volts with APC 18x5.5-MR Prop						
Throttle Setting	Motor Amps	Input Watts	Prop RPM	Thrust (Grams)	Thrust (Ounces)	Efficiency Grams/W
10%	0.19	2.80	706	46.4	1.64	16.59
20%	0.56	8.30	1,297	145.4	5.12	17.51
30%	1.45	21.47	1,908	338.2	11.92	15.75
40%	2.99	44.27	2,468	595.5	20.99	13.45
50%	5.28	78.16	3,000	923.9	32.56	11.82
60%	8.42	124.54	3,502	1267.8	44.68	10.18
70%	12.46	184.33	3,977	1648.7	58.10	8.94
80%	17.46	258.38	4,411	2093.1	73.77	8.10
90%	23.29	344.75	4,815	2490.2	87.76	7.22
100%	27.16	401.92	5,039	2775.9	97.83	6.91

### Propeller Efficiency vs Throttle Position

