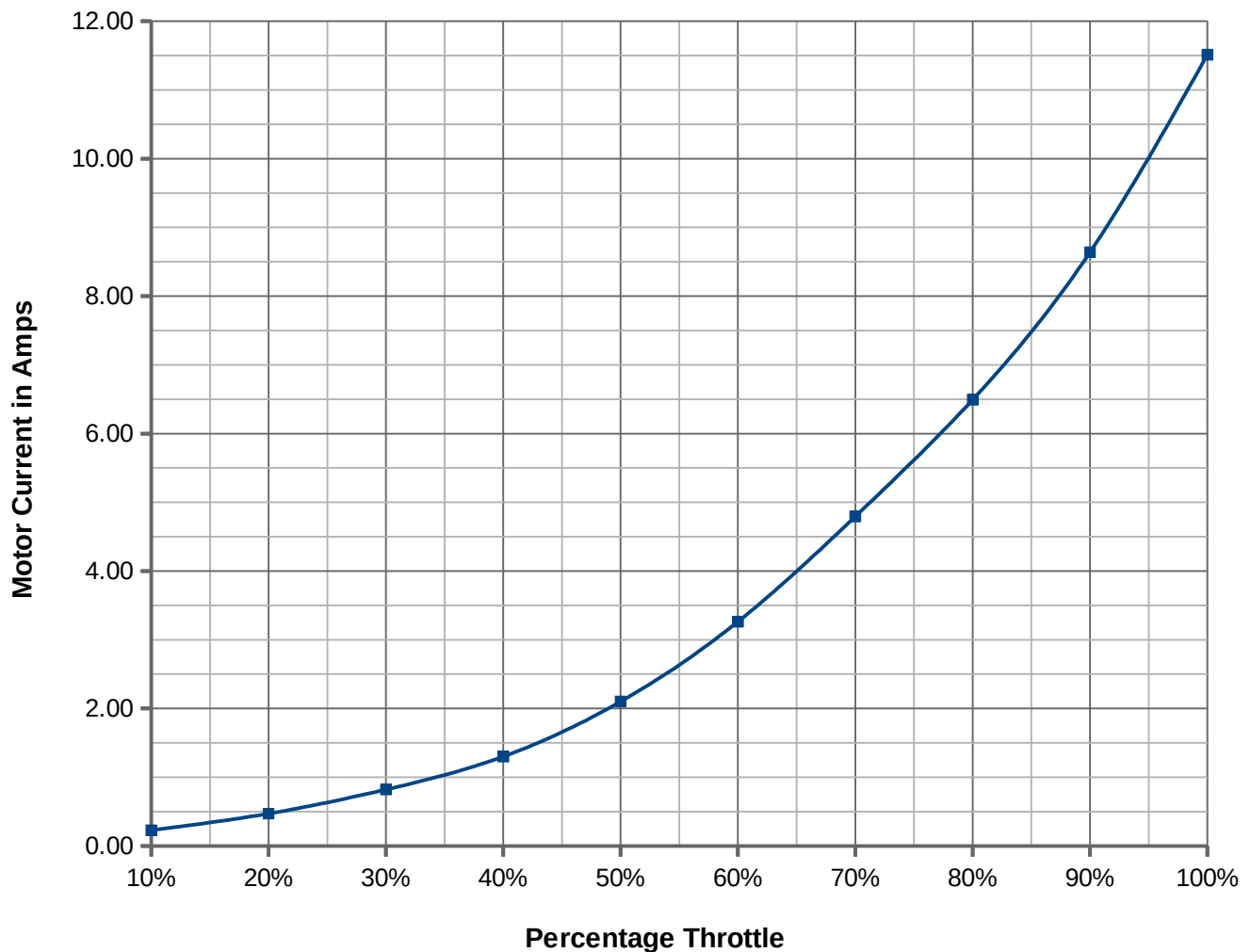


Cobra CM-1806/30 Motor Test Data, Kv=2450

| Data Collected at 11.1 volts with HQ 5x4.5 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.23 | 2.54 | 3,517 | 18.1 | 0.64 | 7.12 |
| 20% | 0.47 | 5.22 | 5,724 | 40.2 | 1.42 | 7.71 |
| 30% | 0.82 | 9.11 | 7,540 | 66.8 | 2.35 | 7.33 |
| 40% | 1.30 | 14.43 | 9,240 | 103.3 | 3.64 | 7.16 |
| 50% | 2.10 | 23.32 | 11,148 | 149.6 | 5.27 | 6.41 |
| 60% | 3.26 | 36.22 | 13,160 | 207.7 | 7.32 | 5.73 |
| 70% | 4.79 | 53.20 | 14,973 | 269.3 | 9.49 | 5.06 |
| 80% | 6.49 | 72.08 | 16,709 | 338.1 | 11.92 | 4.69 |
| 90% | 8.64 | 95.90 | 18,316 | 406.5 | 14.33 | 4.24 |
| 100% | 11.51 | 127.81 | 19,134 | 495.3 | 17.46 | 3.88 |

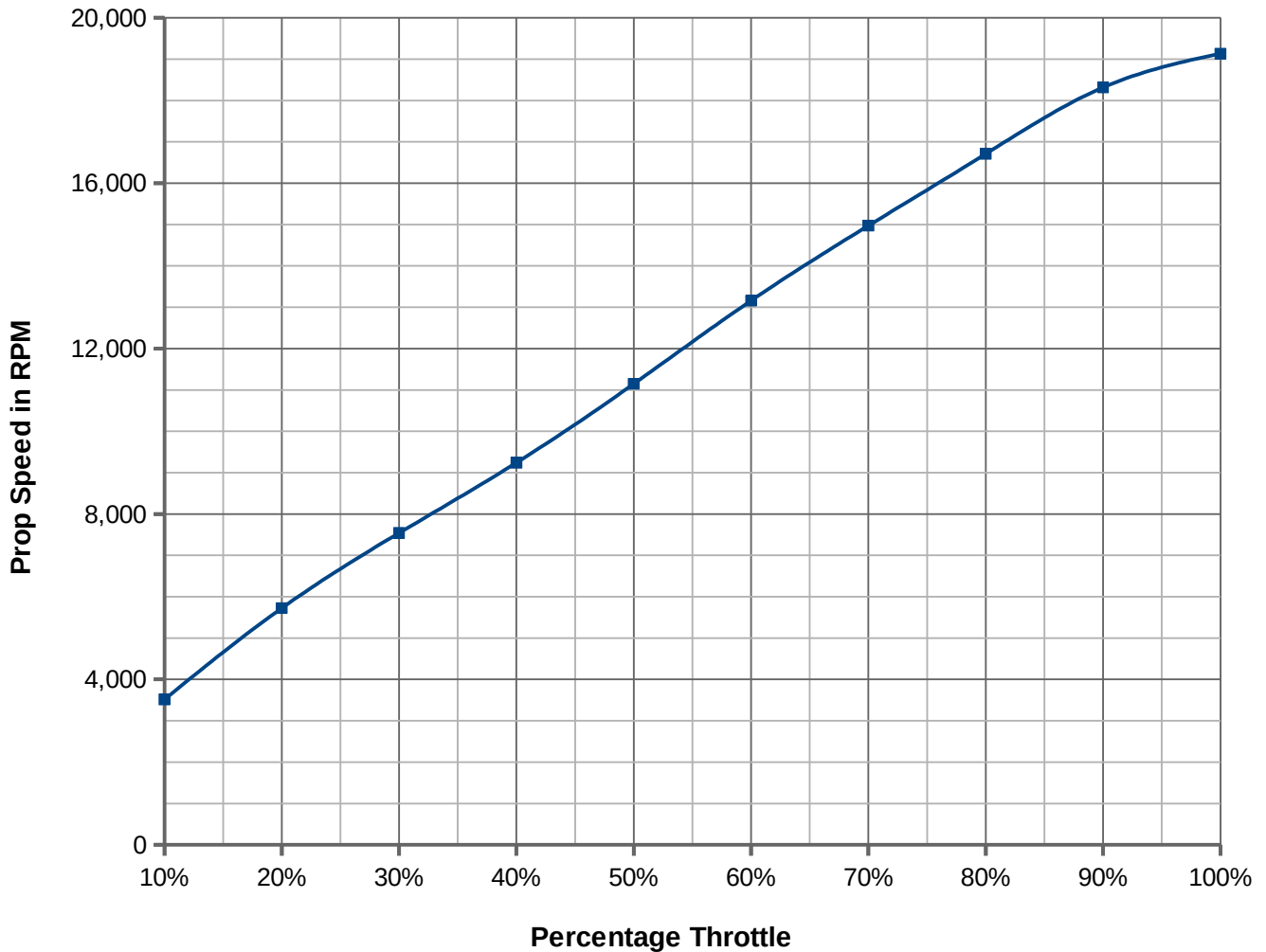
Motor Current vs Throttle Position



Cobra CM-1806/30 Motor Test Data, Kv=2450

| Data Collected at 11.1 volts with HQ 5x4.5 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.23 | 2.54 | 3,517 | 18.1 | 0.64 | 7.12 |
| 20% | 0.47 | 5.22 | 5,724 | 40.2 | 1.42 | 7.71 |
| 30% | 0.82 | 9.11 | 7,540 | 66.8 | 2.35 | 7.33 |
| 40% | 1.30 | 14.43 | 9,240 | 103.3 | 3.64 | 7.16 |
| 50% | 2.10 | 23.32 | 11,148 | 149.6 | 5.27 | 6.41 |
| 60% | 3.26 | 36.22 | 13,160 | 207.7 | 7.32 | 5.73 |
| 70% | 4.79 | 53.20 | 14,973 | 269.3 | 9.49 | 5.06 |
| 80% | 6.49 | 72.08 | 16,709 | 338.1 | 11.92 | 4.69 |
| 90% | 8.64 | 95.90 | 18,316 | 406.5 | 14.33 | 4.24 |
| 100% | 11.51 | 127.81 | 19,134 | 495.3 | 17.46 | 3.88 |

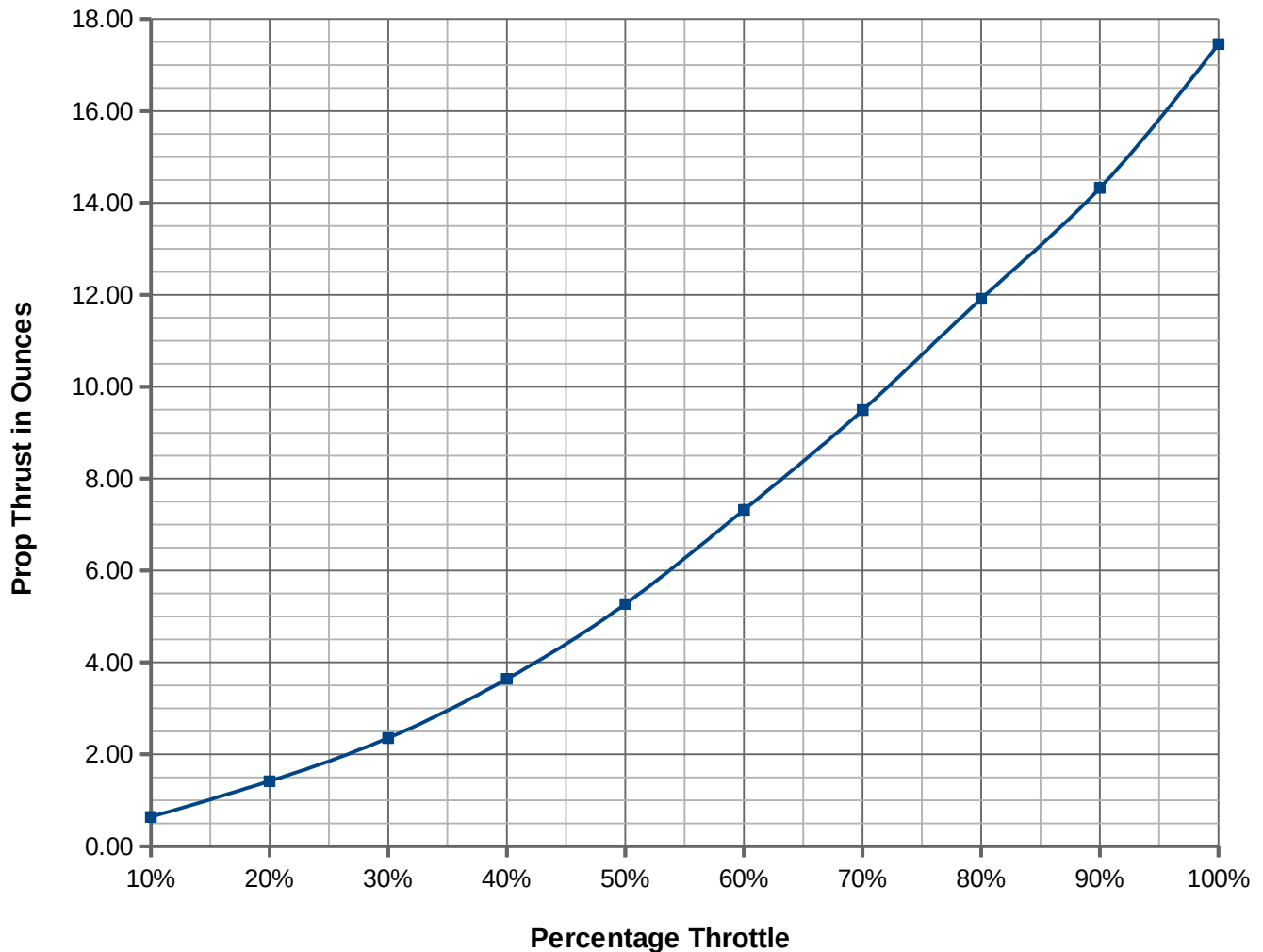
Propeller RPM vs Throttle Position



Cobra CM-1806/30 Motor Test Data, Kv=2450

| Data Collected at 11.1 volts with HQ 5x4.5 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.23 | 2.54 | 3,517 | 18.1 | 0.64 | 7.12 |
| 20% | 0.47 | 5.22 | 5,724 | 40.2 | 1.42 | 7.71 |
| 30% | 0.82 | 9.11 | 7,540 | 66.8 | 2.35 | 7.33 |
| 40% | 1.30 | 14.43 | 9,240 | 103.3 | 3.64 | 7.16 |
| 50% | 2.10 | 23.32 | 11,148 | 149.6 | 5.27 | 6.41 |
| 60% | 3.26 | 36.22 | 13,160 | 207.7 | 7.32 | 5.73 |
| 70% | 4.79 | 53.20 | 14,973 | 269.3 | 9.49 | 5.06 |
| 80% | 6.49 | 72.08 | 16,709 | 338.1 | 11.92 | 4.69 |
| 90% | 8.64 | 95.90 | 18,316 | 406.5 | 14.33 | 4.24 |
| 100% | 11.51 | 127.81 | 19,134 | 495.3 | 17.46 | 3.88 |

Propeller Thrust vs Throttle Position



Cobra CM-1806/30 Motor Test Data, Kv=2450

| Data Collected at 11.1 volts with HQ 5x4.5 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.23 | 2.54 | 3,517 | 18.1 | 0.64 | 7.12 |
| 20% | 0.47 | 5.22 | 5,724 | 40.2 | 1.42 | 7.71 |
| 30% | 0.82 | 9.11 | 7,540 | 66.8 | 2.35 | 7.33 |
| 40% | 1.30 | 14.43 | 9,240 | 103.3 | 3.64 | 7.16 |
| 50% | 2.10 | 23.32 | 11,148 | 149.6 | 5.27 | 6.41 |
| 60% | 3.26 | 36.22 | 13,160 | 207.7 | 7.32 | 5.73 |
| 70% | 4.79 | 53.20 | 14,973 | 269.3 | 9.49 | 5.06 |
| 80% | 6.49 | 72.08 | 16,709 | 338.1 | 11.92 | 4.69 |
| 90% | 8.64 | 95.90 | 18,316 | 406.5 | 14.33 | 4.24 |
| 100% | 11.51 | 127.81 | 19,134 | 495.3 | 17.46 | 3.88 |

Propeller Efficiency vs Throttle Position

