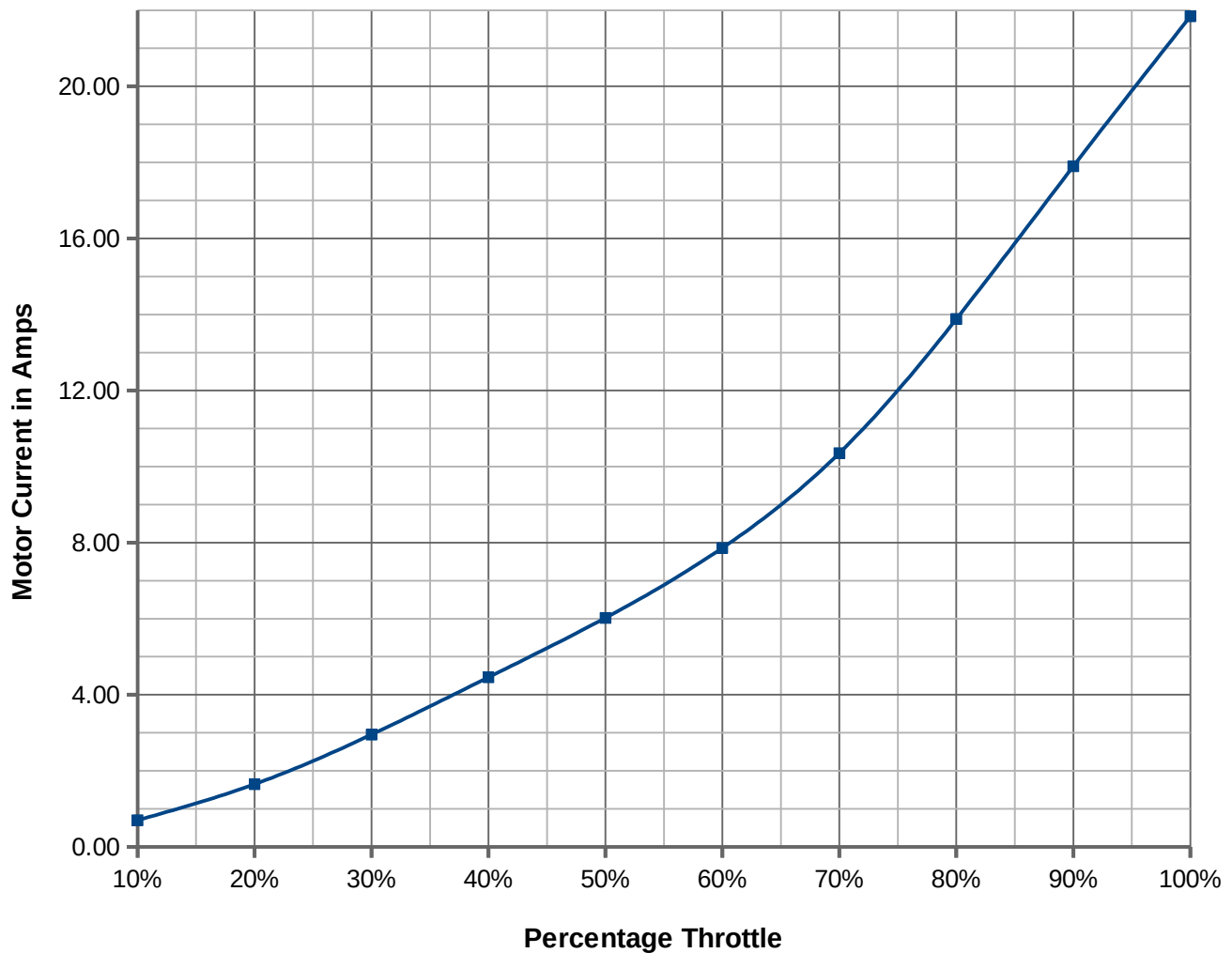


Cobra CM-2205-2300 Champion Motor Test Data

| Data Collected at 18.5 volts with HQ 4x4x3 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.70 | 12.97 | 7,651 | 54.8 | 1.93 | 4.23 |
| 20% | 1.65 | 30.51 | 11,365 | 122.9 | 4.34 | 4.03 |
| 30% | 2.95 | 54.63 | 14,464 | 201.6 | 7.11 | 3.69 |
| 40% | 4.46 | 82.53 | 17,200 | 282.9 | 9.98 | 3.43 |
| 50% | 6.02 | 111.41 | 19,463 | 356.9 | 12.59 | 3.20 |
| 60% | 7.86 | 145.43 | 21,843 | 441.4 | 15.57 | 3.04 |
| 70% | 10.36 | 191.57 | 24,467 | 549.6 | 19.39 | 2.87 |
| 80% | 13.88 | 256.80 | 27,557 | 679.8 | 23.98 | 2.65 |
| 90% | 17.90 | 331.13 | 30,730 | 829.6 | 29.26 | 2.51 |
| 100% | 21.84 | 404.00 | 33,383 | 956.5 | 33.74 | 2.37 |

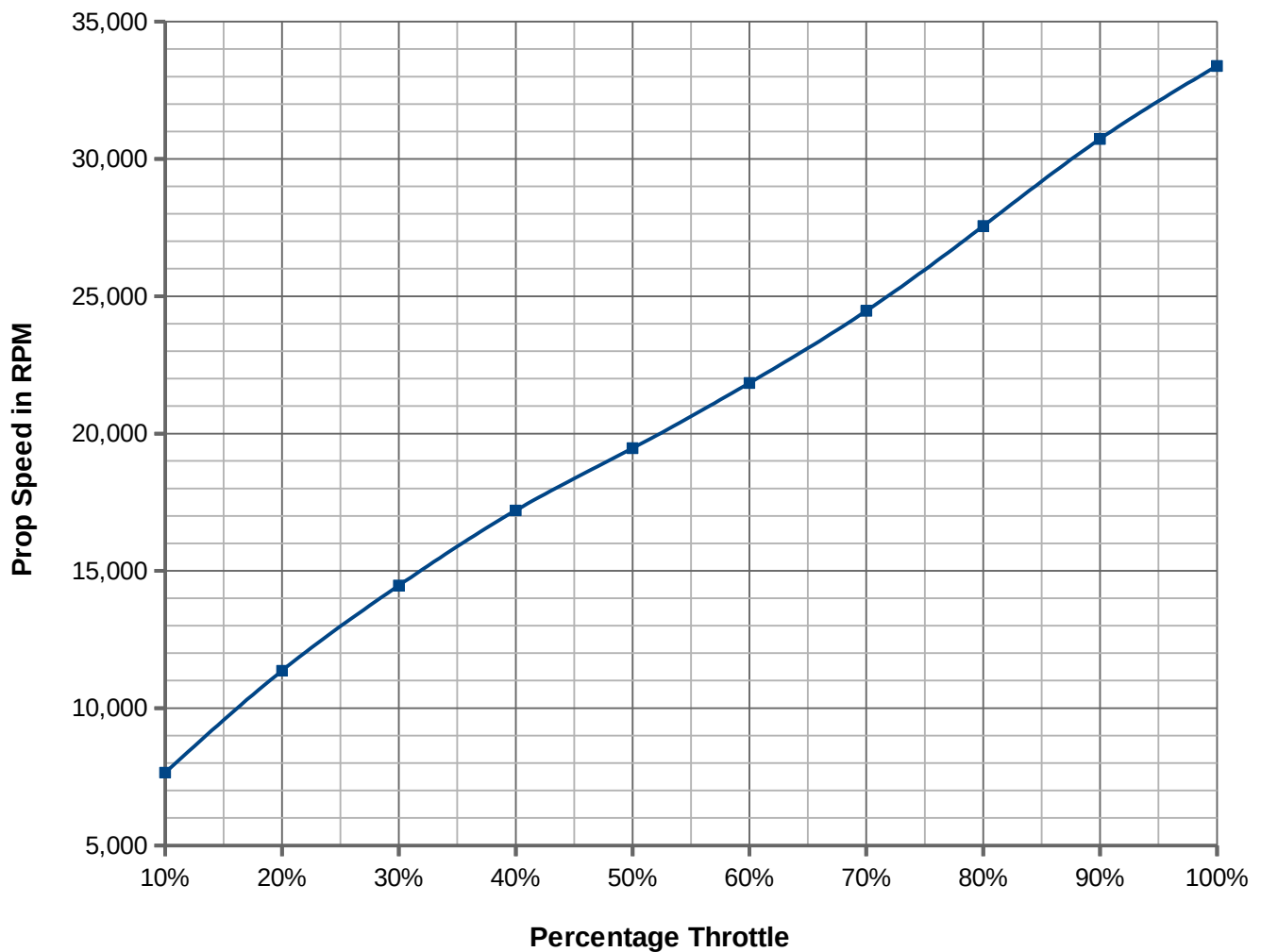
Motor Current vs Throttle Position



Cobra CM-2205-2300 Champion Motor Test Data

| Data Collected at 18.5 volts with HQ 4x4x3 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.70 | 12.97 | 7,651 | 54.8 | 1.93 | 4.23 |
| 20% | 1.65 | 30.51 | 11,365 | 122.9 | 4.34 | 4.03 |
| 30% | 2.95 | 54.63 | 14,464 | 201.6 | 7.11 | 3.69 |
| 40% | 4.46 | 82.53 | 17,200 | 282.9 | 9.98 | 3.43 |
| 50% | 6.02 | 111.41 | 19,463 | 356.9 | 12.59 | 3.20 |
| 60% | 7.86 | 145.43 | 21,843 | 441.4 | 15.57 | 3.04 |
| 70% | 10.36 | 191.57 | 24,467 | 549.6 | 19.39 | 2.87 |
| 80% | 13.88 | 256.80 | 27,557 | 679.8 | 23.98 | 2.65 |
| 90% | 17.90 | 331.13 | 30,730 | 829.6 | 29.26 | 2.51 |
| 100% | 21.84 | 404.00 | 33,383 | 956.5 | 33.74 | 2.37 |

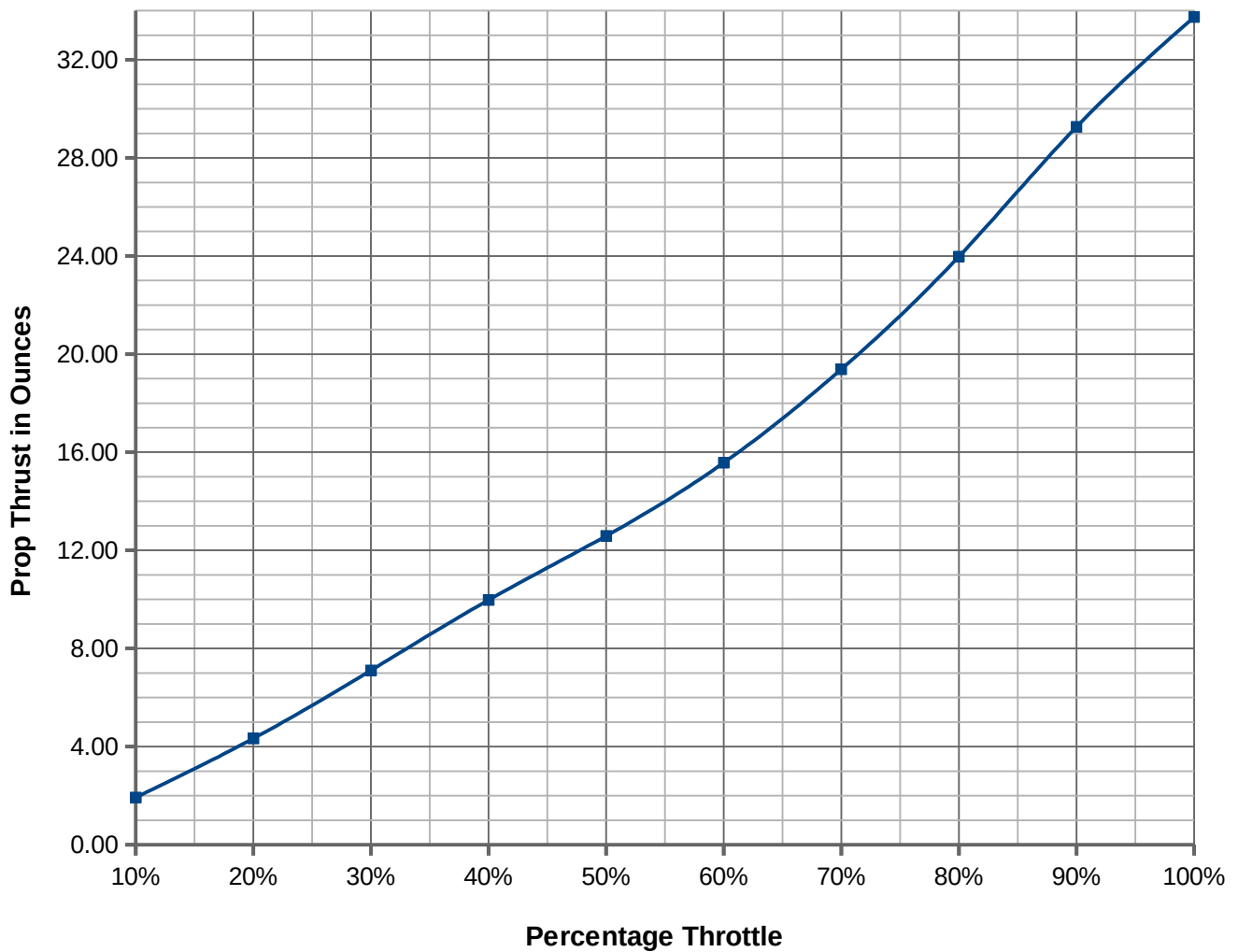
Propeller RPM vs Throttle Position



Cobra CM-2205-2300 Champion Motor Test Data

| Data Collected at 18.5 volts with HQ 4x4x3 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.70 | 12.97 | 7,651 | 54.8 | 1.93 | 4.23 |
| 20% | 1.65 | 30.51 | 11,365 | 122.9 | 4.34 | 4.03 |
| 30% | 2.95 | 54.63 | 14,464 | 201.6 | 7.11 | 3.69 |
| 40% | 4.46 | 82.53 | 17,200 | 282.9 | 9.98 | 3.43 |
| 50% | 6.02 | 111.41 | 19,463 | 356.9 | 12.59 | 3.20 |
| 60% | 7.86 | 145.43 | 21,843 | 441.4 | 15.57 | 3.04 |
| 70% | 10.36 | 191.57 | 24,467 | 549.6 | 19.39 | 2.87 |
| 80% | 13.88 | 256.80 | 27,557 | 679.8 | 23.98 | 2.65 |
| 90% | 17.90 | 331.13 | 30,730 | 829.6 | 29.26 | 2.51 |
| 100% | 21.84 | 404.00 | 33,383 | 956.5 | 33.74 | 2.37 |

Propeller Thrust vs Throttle Position



Cobra CM-2205-2300 Champion Motor Test Data

| Data Collected at 18.5 volts with HQ 4x4x3 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.70 | 12.97 | 7,651 | 54.8 | 1.93 | 4.23 |
| 20% | 1.65 | 30.51 | 11,365 | 122.9 | 4.34 | 4.03 |
| 30% | 2.95 | 54.63 | 14,464 | 201.6 | 7.11 | 3.69 |
| 40% | 4.46 | 82.53 | 17,200 | 282.9 | 9.98 | 3.43 |
| 50% | 6.02 | 111.41 | 19,463 | 356.9 | 12.59 | 3.20 |
| 60% | 7.86 | 145.43 | 21,843 | 441.4 | 15.57 | 3.04 |
| 70% | 10.36 | 191.57 | 24,467 | 549.6 | 19.39 | 2.87 |
| 80% | 13.88 | 256.80 | 27,557 | 679.8 | 23.98 | 2.65 |
| 90% | 17.90 | 331.13 | 30,730 | 829.6 | 29.26 | 2.51 |
| 100% | 21.84 | 404.00 | 33,383 | 956.5 | 33.74 | 2.37 |

Propeller Efficiency vs Throttle Position

