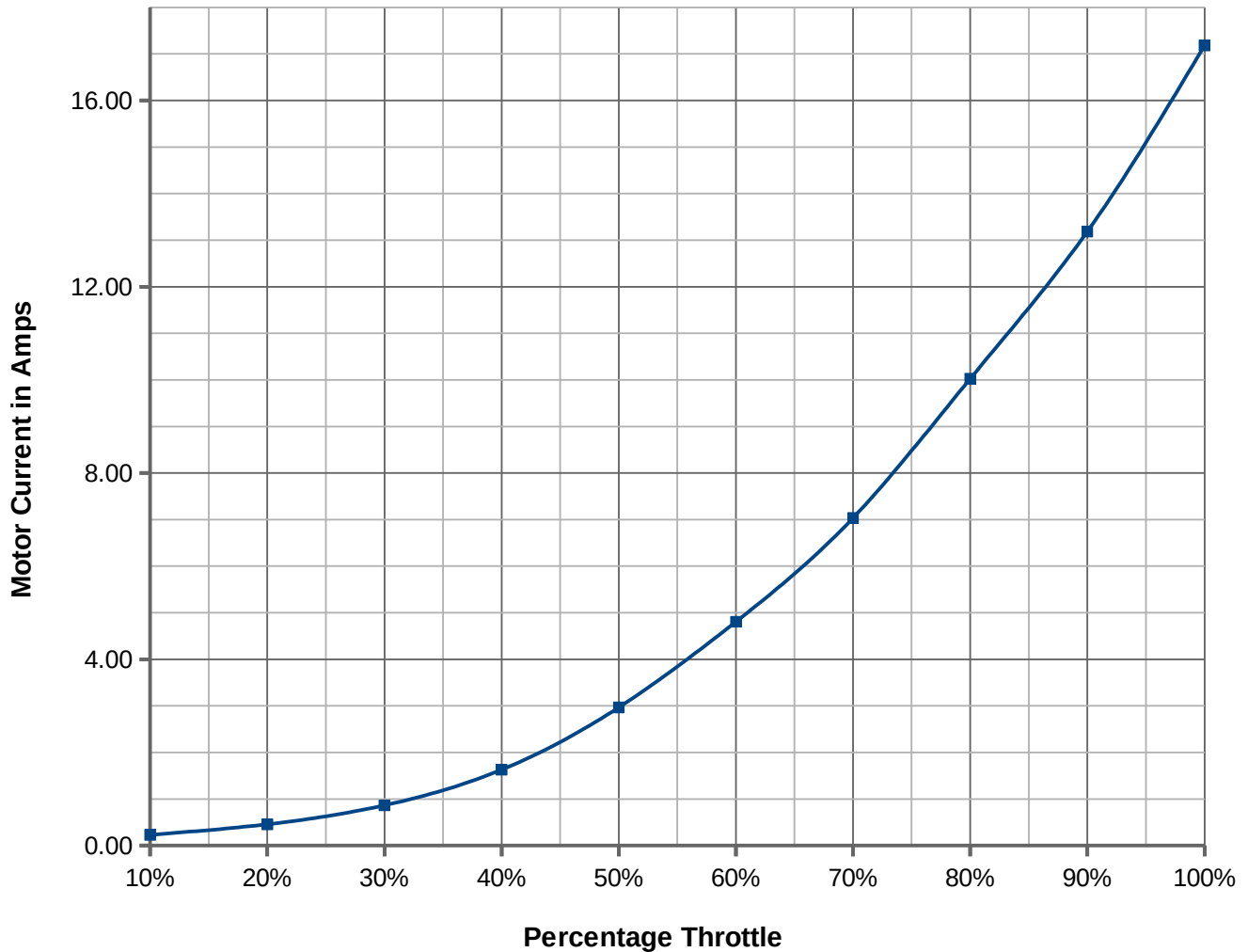


Cobra CM-4012/30 Motor Test Data, Kv=300

| Data Collected at 18.5 volts with APC 18x5.5-MR Prop | | | | | | |
|--|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.23 | 4.26 | 654 | 40.0 | 1.41 | 9.40 |
| 20% | 0.46 | 8.44 | 1,145 | 122.8 | 4.33 | 14.56 |
| 30% | 0.86 | 15.98 | 1,619 | 254.0 | 8.96 | 15.89 |
| 40% | 1.63 | 30.14 | 2,094 | 433.0 | 15.27 | 14.37 |
| 50% | 2.97 | 54.87 | 2,584 | 693.7 | 24.47 | 12.64 |
| 60% | 4.81 | 88.91 | 3,058 | 999.0 | 35.24 | 11.24 |
| 70% | 7.03 | 130.13 | 3,471 | 1310.3 | 46.22 | 10.07 |
| 80% | 10.03 | 185.48 | 3,886 | 1681.3 | 59.31 | 9.06 |
| 90% | 13.19 | 243.96 | 4,239 | 2026.8 | 71.49 | 8.31 |
| 100% | 17.18 | 317.87 | 4,606 | 2424.3 | 85.51 | 7.63 |

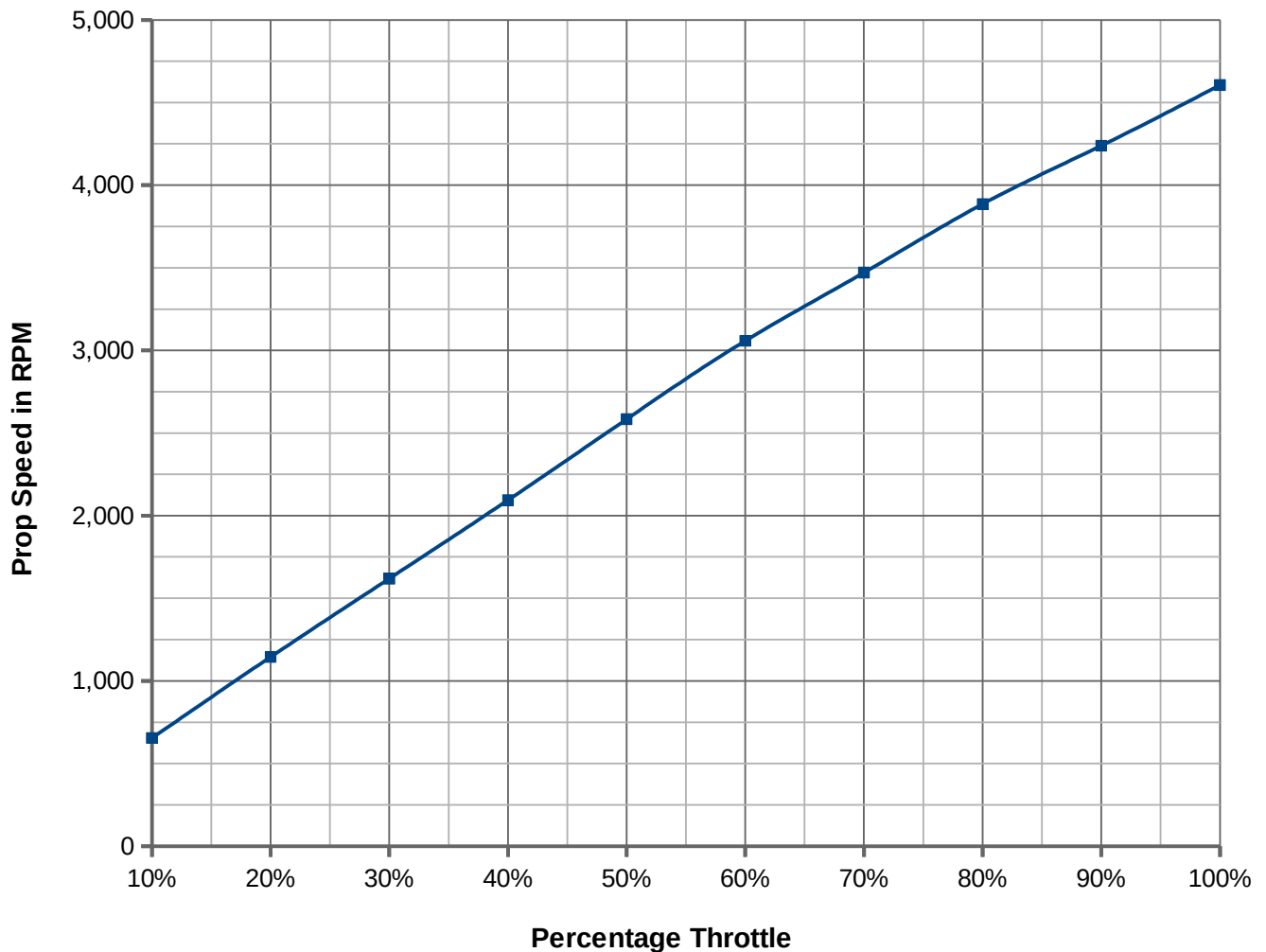
Motor Current vs Throttle Position



Cobra CM-4012/30 Motor Test Data, Kv=300

| Data Collected at 18.5 volts with APC 18x5.5-MR Prop | | | | | | |
|--|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.23 | 4.26 | 654 | 40.0 | 1.41 | 9.40 |
| 20% | 0.46 | 8.44 | 1,145 | 122.8 | 4.33 | 14.56 |
| 30% | 0.86 | 15.98 | 1,619 | 254.0 | 8.96 | 15.89 |
| 40% | 1.63 | 30.14 | 2,094 | 433.0 | 15.27 | 14.37 |
| 50% | 2.97 | 54.87 | 2,584 | 693.7 | 24.47 | 12.64 |
| 60% | 4.81 | 88.91 | 3,058 | 999.0 | 35.24 | 11.24 |
| 70% | 7.03 | 130.13 | 3,471 | 1310.3 | 46.22 | 10.07 |
| 80% | 10.03 | 185.48 | 3,886 | 1681.3 | 59.31 | 9.06 |
| 90% | 13.19 | 243.96 | 4,239 | 2026.8 | 71.49 | 8.31 |
| 100% | 17.18 | 317.87 | 4,606 | 2424.3 | 85.51 | 7.63 |

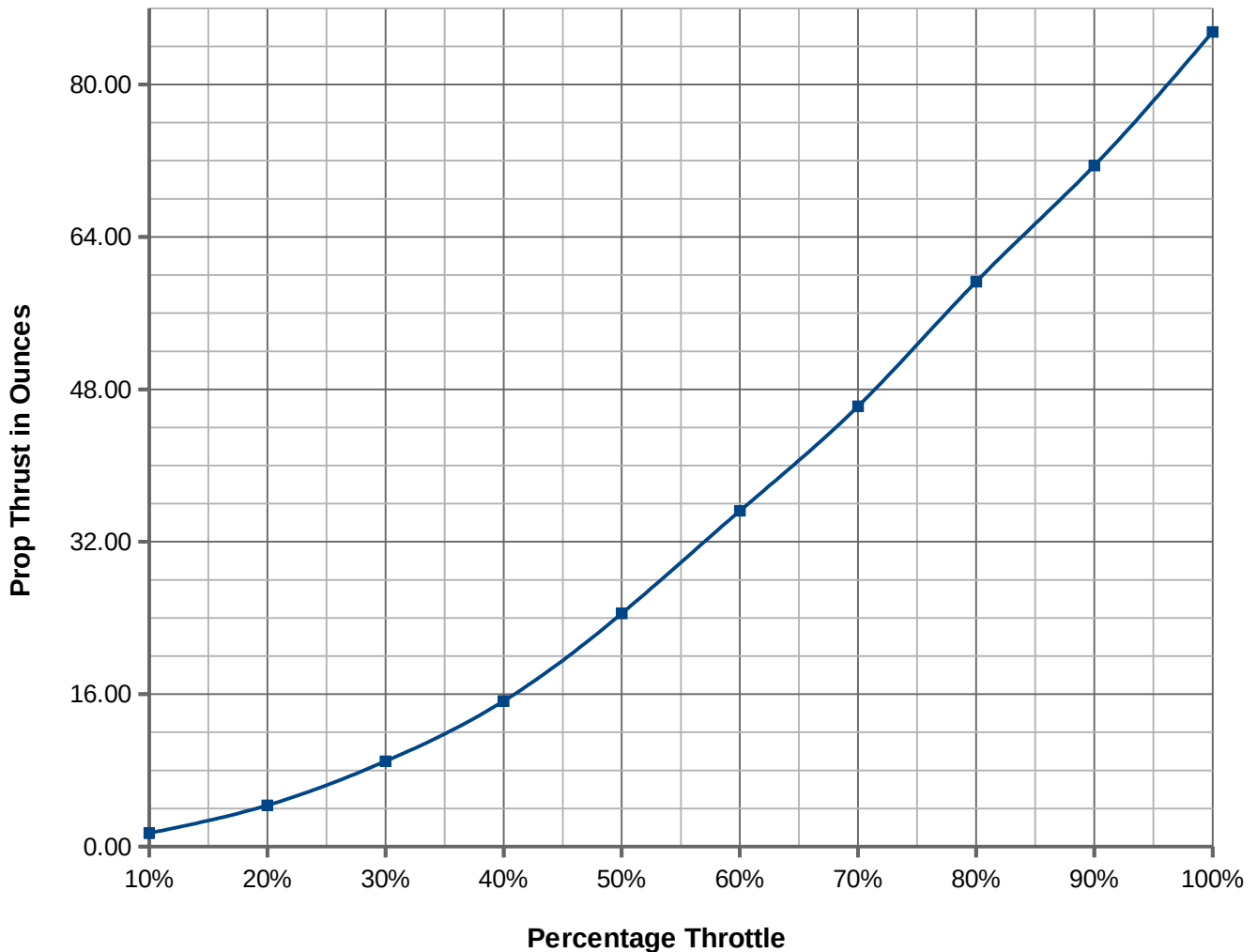
Propeller RPM vs Throttle Position



Cobra CM-4012/30 Motor Test Data, Kv=300

| Data Collected at 18.5 volts with APC 18x5.5-MR Prop | | | | | | |
|--|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.23 | 4.26 | 654 | 40.0 | 1.41 | 9.40 |
| 20% | 0.46 | 8.44 | 1,145 | 122.8 | 4.33 | 14.56 |
| 30% | 0.86 | 15.98 | 1,619 | 254.0 | 8.96 | 15.89 |
| 40% | 1.63 | 30.14 | 2,094 | 433.0 | 15.27 | 14.37 |
| 50% | 2.97 | 54.87 | 2,584 | 693.7 | 24.47 | 12.64 |
| 60% | 4.81 | 88.91 | 3,058 | 999.0 | 35.24 | 11.24 |
| 70% | 7.03 | 130.13 | 3,471 | 1310.3 | 46.22 | 10.07 |
| 80% | 10.03 | 185.48 | 3,886 | 1681.3 | 59.31 | 9.06 |
| 90% | 13.19 | 243.96 | 4,239 | 2026.8 | 71.49 | 8.31 |
| 100% | 17.18 | 317.87 | 4,606 | 2424.3 | 85.51 | 7.63 |

Propeller Thrust vs Throttle Position



Cobra CM-4012/30 Motor Test Data, Kv=300

| Data Collected at 18.5 volts with APC 18x5.5-MR Prop | | | | | | |
|--|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.23 | 4.26 | 654 | 40.0 | 1.41 | 9.40 |
| 20% | 0.46 | 8.44 | 1,145 | 122.8 | 4.33 | 14.56 |
| 30% | 0.86 | 15.98 | 1,619 | 254.0 | 8.96 | 15.89 |
| 40% | 1.63 | 30.14 | 2,094 | 433.0 | 15.27 | 14.37 |
| 50% | 2.97 | 54.87 | 2,584 | 693.7 | 24.47 | 12.64 |
| 60% | 4.81 | 88.91 | 3,058 | 999.0 | 35.24 | 11.24 |
| 70% | 7.03 | 130.13 | 3,471 | 1310.3 | 46.22 | 10.07 |
| 80% | 10.03 | 185.48 | 3,886 | 1681.3 | 59.31 | 9.06 |
| 90% | 13.19 | 243.96 | 4,239 | 2026.8 | 71.49 | 8.31 |
| 100% | 17.18 | 317.87 | 4,606 | 2424.3 | 85.51 | 7.63 |

Propeller Efficiency vs Throttle Position

