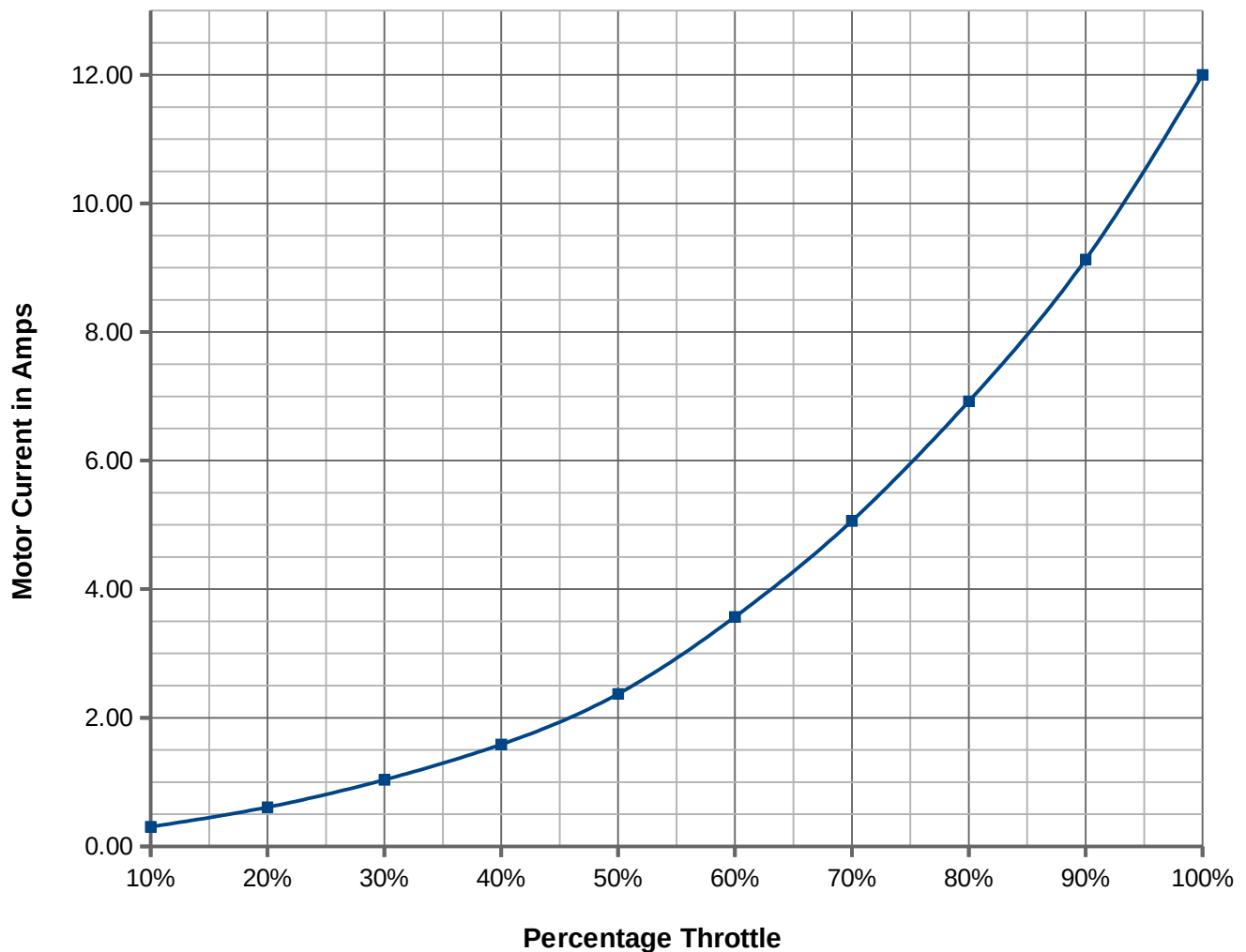


# Cobra CM-1806/30 Motor Test Data, Kv=2450

| Data Collected at 14.8 volts with HQ 5x3 Prop |            |             |          |                |                 |                    |
|-----------------------------------------------|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting                              | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10%                                           | 0.30       | 4.50        | 5,698    | 24.6           | 0.87            | 5.47               |
| 20%                                           | 0.61       | 9.01        | 8,640    | 61.5           | 2.17            | 6.82               |
| 30%                                           | 1.04       | 15.33       | 11,050   | 100.8          | 3.55            | 6.57               |
| 40%                                           | 1.59       | 23.47       | 13,255   | 148.7          | 5.24            | 6.33               |
| 50%                                           | 2.37       | 35.09       | 15,483   | 206.4          | 7.27            | 5.88               |
| 60%                                           | 3.57       | 52.84       | 18,144   | 277.5          | 9.78            | 5.25               |
| 70%                                           | 5.06       | 74.92       | 20,533   | 360.4          | 12.70           | 4.81               |
| 80%                                           | 6.92       | 102.46      | 22,427   | 446.9          | 15.75           | 4.36               |
| 90%                                           | 9.13       | 135.12      | 24,257   | 541.8          | 19.09           | 4.01               |
| 100%                                          | 12.00      | 177.61      | 26,355   | 647.8          | 22.83           | 3.65               |

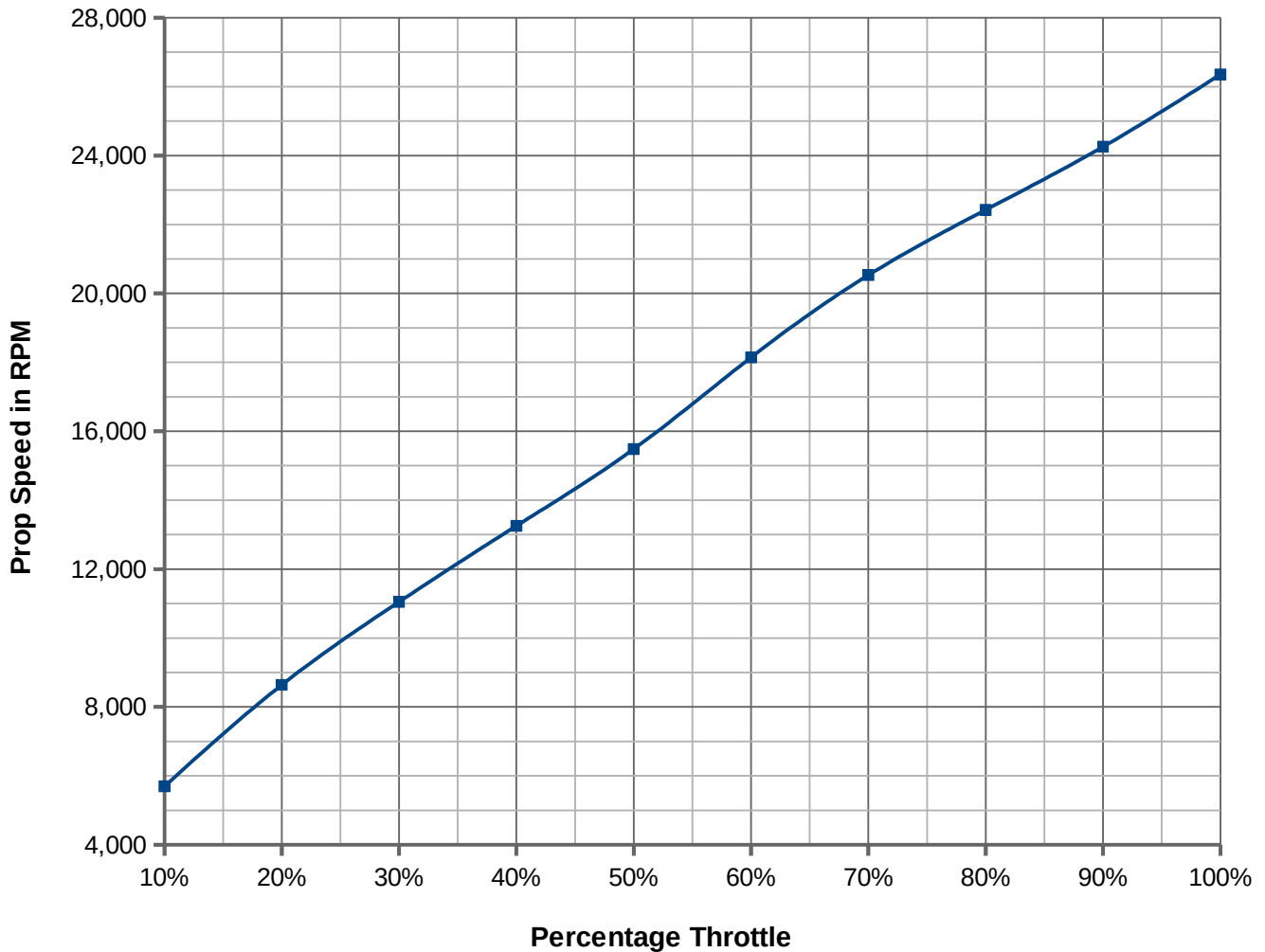
## Motor Current vs Throttle Position



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

| Data Collected at 14.8 volts with HQ 5x3 Prop |            |             |          |                |                 |                    |
|-----------------------------------------------|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting                              | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10%                                           | 0.30       | 4.50        | 5,698    | 24.6           | 0.87            | 5.47               |
| 20%                                           | 0.61       | 9.01        | 8,640    | 61.5           | 2.17            | 6.82               |
| 30%                                           | 1.04       | 15.33       | 11,050   | 100.8          | 3.55            | 6.57               |
| 40%                                           | 1.59       | 23.47       | 13,255   | 148.7          | 5.24            | 6.33               |
| 50%                                           | 2.37       | 35.09       | 15,483   | 206.4          | 7.27            | 5.88               |
| 60%                                           | 3.57       | 52.84       | 18,144   | 277.5          | 9.78            | 5.25               |
| 70%                                           | 5.06       | 74.92       | 20,533   | 360.4          | 12.70           | 4.81               |
| 80%                                           | 6.92       | 102.46      | 22,427   | 446.9          | 15.75           | 4.36               |
| 90%                                           | 9.13       | 135.12      | 24,257   | 541.8          | 19.09           | 4.01               |
| 100%                                          | 12.00      | 177.61      | 26,355   | 647.8          | 22.83           | 3.65               |

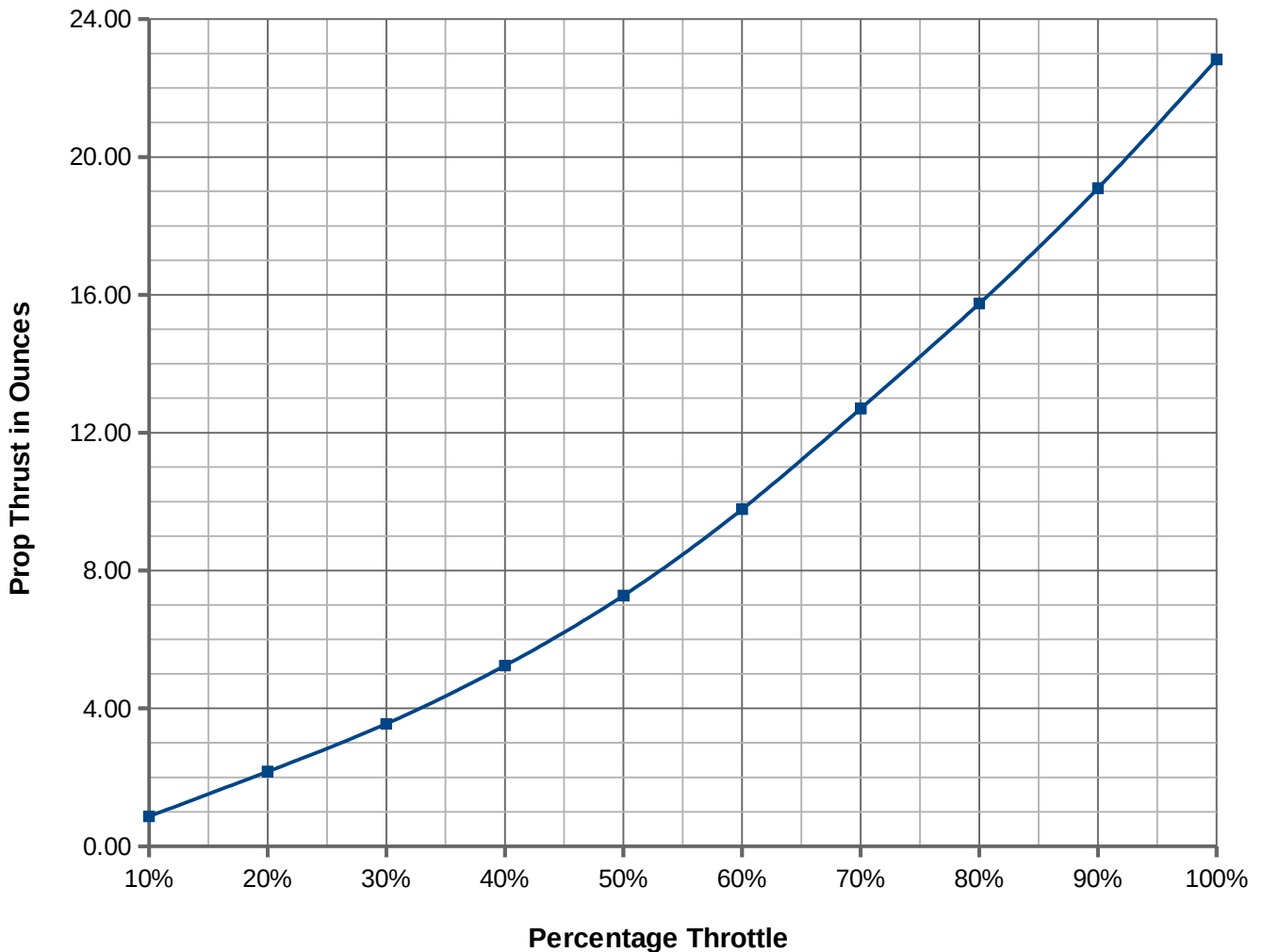
## Propeller RPM vs Throttle Position



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

| Data Collected at 14.8 volts with HQ 5x3 Prop |            |             |          |                |                 |                    |
|-----------------------------------------------|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting                              | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10%                                           | 0.30       | 4.50        | 5,698    | 24.6           | 0.87            | 5.47               |
| 20%                                           | 0.61       | 9.01        | 8,640    | 61.5           | 2.17            | 6.82               |
| 30%                                           | 1.04       | 15.33       | 11,050   | 100.8          | 3.55            | 6.57               |
| 40%                                           | 1.59       | 23.47       | 13,255   | 148.7          | 5.24            | 6.33               |
| 50%                                           | 2.37       | 35.09       | 15,483   | 206.4          | 7.27            | 5.88               |
| 60%                                           | 3.57       | 52.84       | 18,144   | 277.5          | 9.78            | 5.25               |
| 70%                                           | 5.06       | 74.92       | 20,533   | 360.4          | 12.70           | 4.81               |
| 80%                                           | 6.92       | 102.46      | 22,427   | 446.9          | 15.75           | 4.36               |
| 90%                                           | 9.13       | 135.12      | 24,257   | 541.8          | 19.09           | 4.01               |
| 100%                                          | 12.00      | 177.61      | 26,355   | 647.8          | 22.83           | 3.65               |

## Propeller Thrust vs Throttle Position



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

| Data Collected at 14.8 volts with HQ 5x3 Prop |            |             |          |                |                 |                    |
|-----------------------------------------------|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting                              | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10%                                           | 0.30       | 4.50        | 5,698    | 24.6           | 0.87            | 5.47               |
| 20%                                           | 0.61       | 9.01        | 8,640    | 61.5           | 2.17            | 6.82               |
| 30%                                           | 1.04       | 15.33       | 11,050   | 100.8          | 3.55            | 6.57               |
| 40%                                           | 1.59       | 23.47       | 13,255   | 148.7          | 5.24            | 6.33               |
| 50%                                           | 2.37       | 35.09       | 15,483   | 206.4          | 7.27            | 5.88               |
| 60%                                           | 3.57       | 52.84       | 18,144   | 277.5          | 9.78            | 5.25               |
| 70%                                           | 5.06       | 74.92       | 20,533   | 360.4          | 12.70           | 4.81               |
| 80%                                           | 6.92       | 102.46      | 22,427   | 446.9          | 15.75           | 4.36               |
| 90%                                           | 9.13       | 135.12      | 24,257   | 541.8          | 19.09           | 4.01               |
| 100%                                          | 12.00      | 177.61      | 26,355   | 647.8          | 22.83           | 3.65               |

## Propeller Efficiency vs Throttle Position

