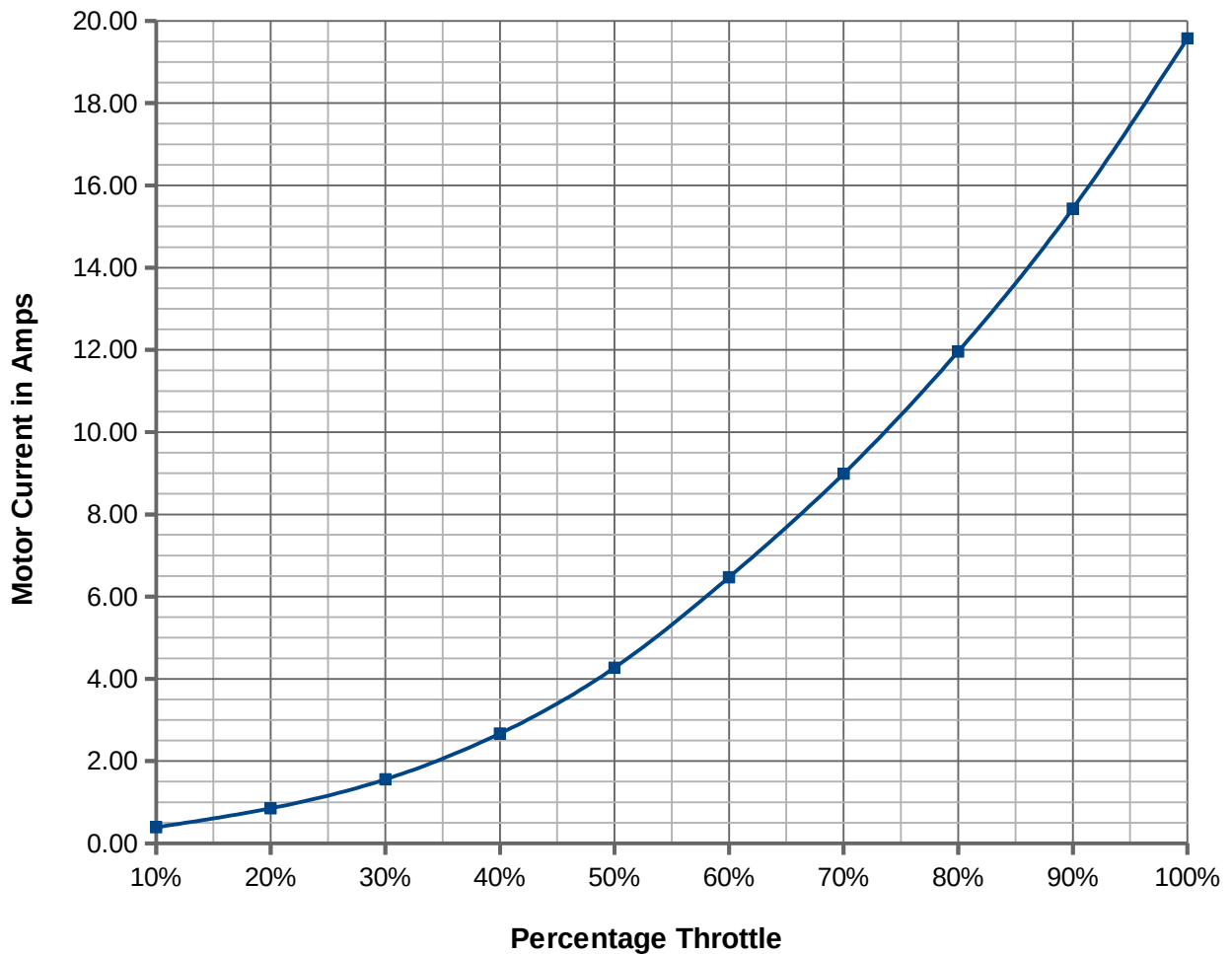


# Scorpion M-2205-2350 Motor Test Data, Kv=2350

| Data Collected at 11.1 volts with HQ 6x4.5 Prop |            |             |          |                |                 |                    |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting                                | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10%   | 0.39       | 4.35        | 3,491    | 31.5           | 1.11            | 7.24               |
| 20%   | 0.85       | 9.46        | 5,306    | 73.2           | 2.58            | 7.74               |
| 30%   | 1.56       | 17.27       | 6,923    | 116.6          | 4.11            | 6.75               |
| 40%   | 2.67       | 29.65       | 8,630    | 186.9          | 6.59            | 6.30               |
| 50%   | 4.27       | 47.41       | 10,339   | 268.8          | 9.47            | 5.67               |
| 60%   | 6.47       | 71.83       | 12,016   | 368.4          | 12.98           | 5.13               |
| 70%   | 8.99       | 99.76       | 13,401   | 457.8          | 16.13           | 4.59               |
| 80%   | 11.96      | 132.77      | 14,768   | 560.7          | 19.76           | 4.22               |
| 90%   | 15.44      | 171.34      | 16,086   | 657.0          | 23.15           | 3.83               |
| 100%  | 19.57      | 217.27      | 17,163   | 767.2          | 27.04           | 3.53               |

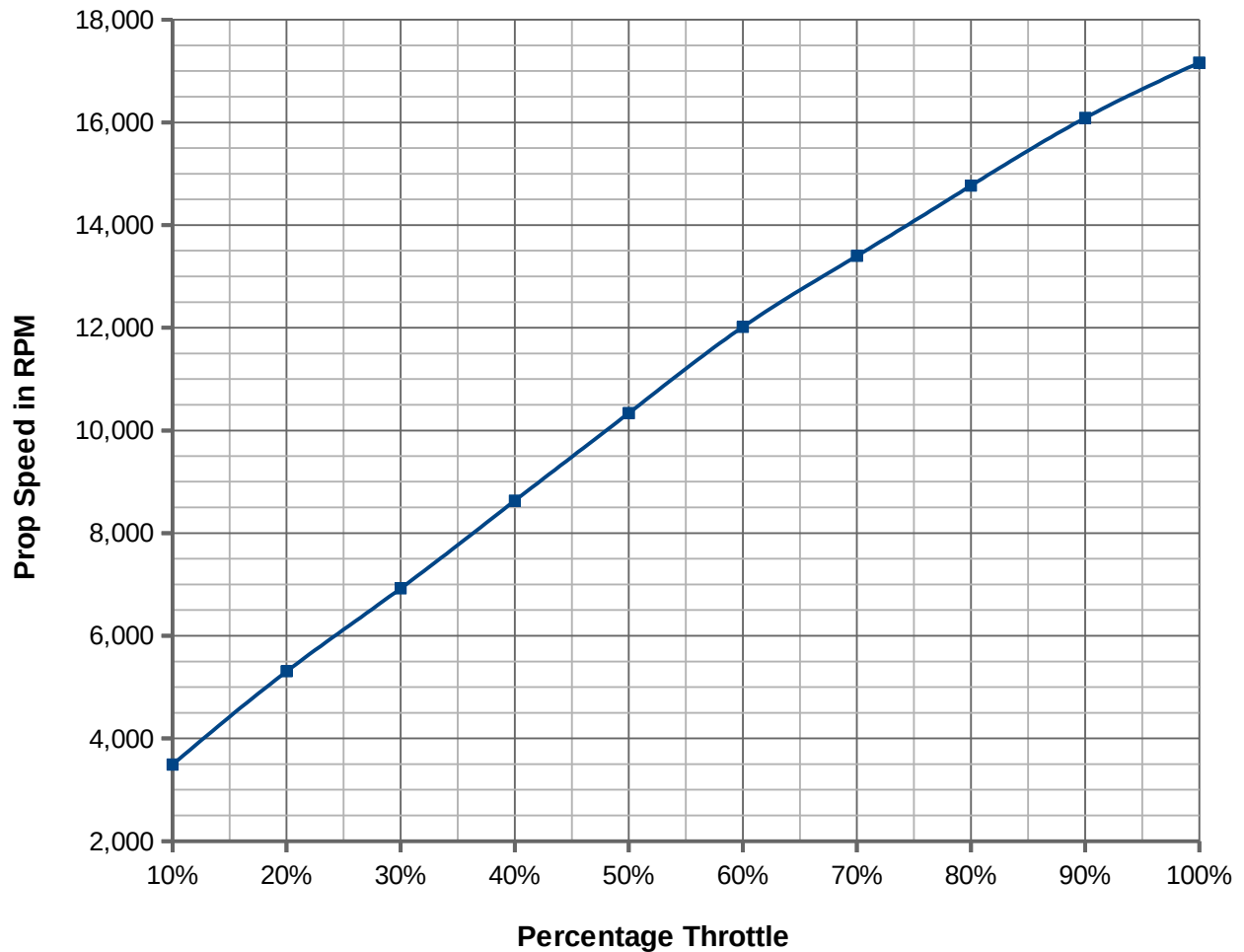
## Motor Current vs Throttle Position



# Scorpion M-2205-2350 Motor Test Data, Kv=2350

| Data Collected at 11.1 volts with HQ 6x4.5 Prop |            |             |          |                |                 |                    |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting                                | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10%   | 0.39       | 4.35        | 3,491    | 31.5           | 1.11            | 7.24               |
| 20%   | 0.85       | 9.46        | 5,306    | 73.2           | 2.58            | 7.74               |
| 30%   | 1.56       | 17.27       | 6,923    | 116.6          | 4.11            | 6.75               |
| 40%   | 2.67       | 29.65       | 8,630    | 186.9          | 6.59            | 6.30               |
| 50%   | 4.27       | 47.41       | 10,339   | 268.8          | 9.47            | 5.67               |
| 60%   | 6.47       | 71.83       | 12,016   | 368.4          | 12.98           | 5.13               |
| 70%   | 8.99       | 99.76       | 13,401   | 457.8          | 16.13           | 4.59               |
| 80%   | 11.96      | 132.77      | 14,768   | 560.7          | 19.76           | 4.22               |
| 90%   | 15.44      | 171.34      | 16,086   | 657.0          | 23.15           | 3.83               |
| 100%  | 19.57      | 217.27      | 17,163   | 767.2          | 27.04           | 3.53               |

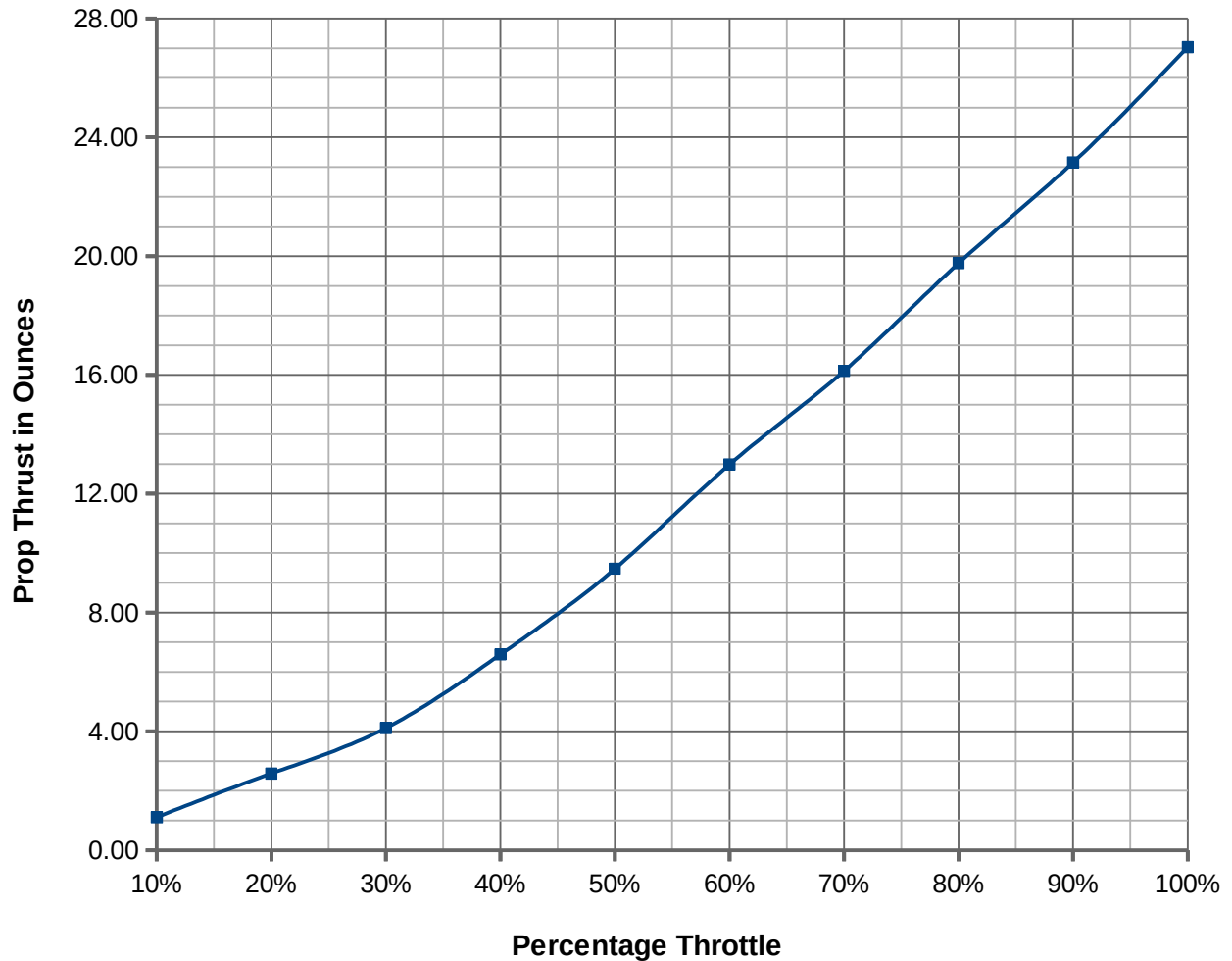
### Propeller RPM vs Throttle Position



# Scorpion M-2205-2350 Motor Test Data, Kv=2350

| Data Collected at 11.1 volts with HQ 6x4.5 Prop |            |             |          |                |                 |                    |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting                                | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10%   | 0.39       | 4.35        | 3,491    | 31.5           | 1.11            | 7.24               |
| 20%   | 0.85       | 9.46        | 5,306    | 73.2           | 2.58            | 7.74               |
| 30%   | 1.56       | 17.27       | 6,923    | 116.6          | 4.11            | 6.75               |
| 40%   | 2.67       | 29.65       | 8,630    | 186.9          | 6.59            | 6.30               |
| 50%   | 4.27       | 47.41       | 10,339   | 268.8          | 9.47            | 5.67               |
| 60%   | 6.47       | 71.83       | 12,016   | 368.4          | 12.98           | 5.13               |
| 70%   | 8.99       | 99.76       | 13,401   | 457.8          | 16.13           | 4.59               |
| 80%   | 11.96      | 132.77      | 14,768   | 560.7          | 19.76           | 4.22               |
| 90%   | 15.44      | 171.34      | 16,086   | 657.0          | 23.15           | 3.83               |
| 100%  | 19.57      | 217.27      | 17,163   | 767.2          | 27.04           | 3.53               |

## Propeller Thrust vs Throttle Position



# Scorpion M-2205-2350 Motor Test Data, Kv=2350

| Data Collected at 11.1 volts with HQ 6x4.5 Prop |            |             |          |                |                 |                    |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting                                | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10%   | 0.39       | 4.35        | 3,491    | 31.5           | 1.11            | 7.24               |
| 20%   | 0.85       | 9.46        | 5,306    | 73.2           | 2.58            | 7.74               |
| 30%   | 1.56       | 17.27       | 6,923    | 116.6          | 4.11            | 6.75               |
| 40%   | 2.67       | 29.65       | 8,630    | 186.9          | 6.59            | 6.30               |
| 50%   | 4.27       | 47.41       | 10,339   | 268.8          | 9.47            | 5.67               |
| 60%   | 6.47       | 71.83       | 12,016   | 368.4          | 12.98           | 5.13               |
| 70%   | 8.99       | 99.76       | 13,401   | 457.8          | 16.13           | 4.59               |
| 80%   | 11.96      | 132.77      | 14,768   | 560.7          | 19.76           | 4.22               |
| 90%   | 15.44      | 171.34      | 16,086   | 657.0          | 23.15           | 3.83               |
| 100%  | 19.57      | 217.27      | 17,163   | 767.2          | 27.04           | 3.53               |

## Propeller Efficiency vs Throttle Position

