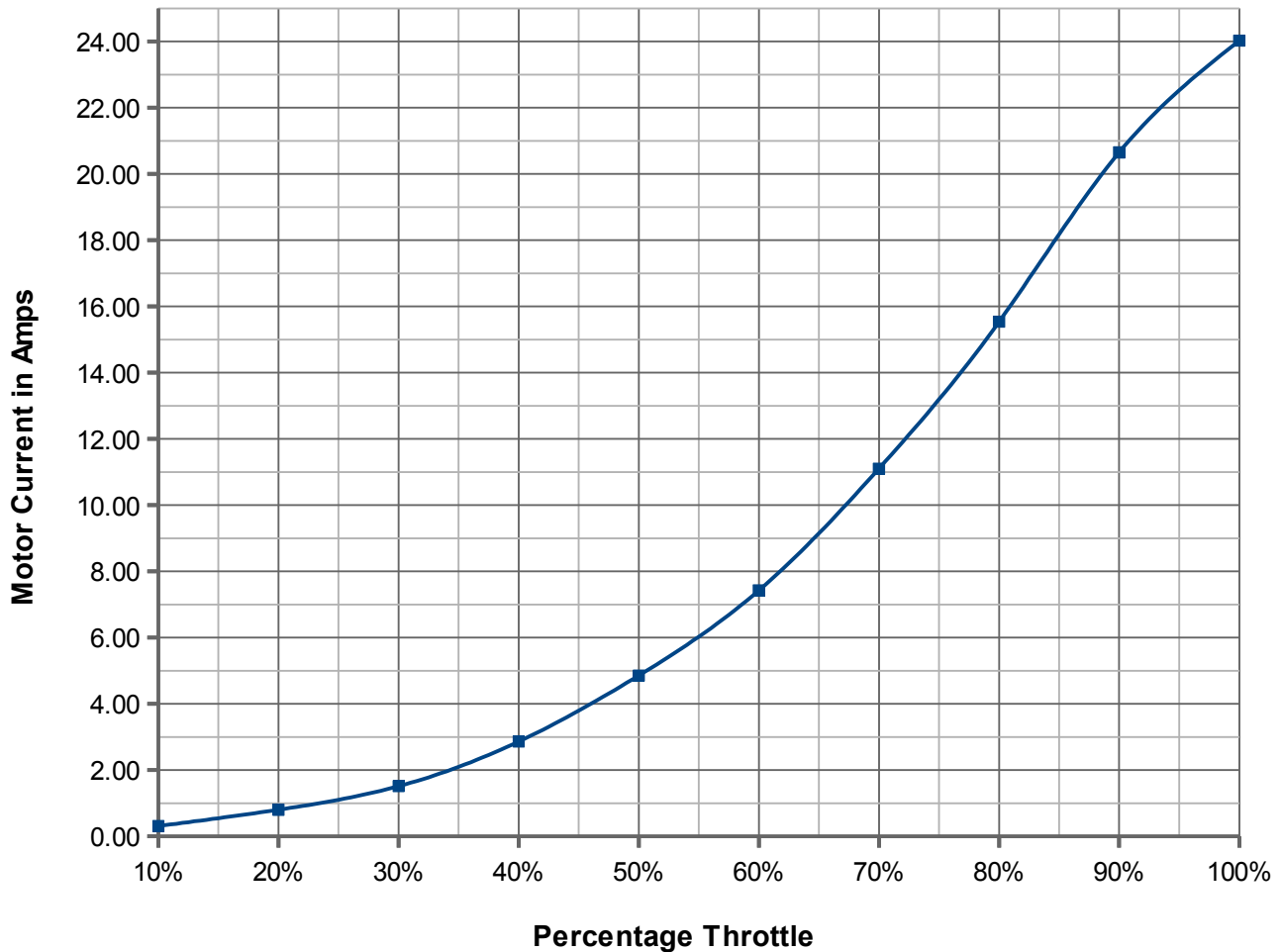


Cobra CM-2820/24 Motor Test Data, Kv=490

| Data Collected at 22.2 volts with GemFan 14x4.5-MR Wood Prop | | | | | | |
|--|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.31 | 6.88 | 1,660 | 93.9 | 3.31 | 13.64 |
| 20% | 0.80 | 17.85 | 2,503 | 221.6 | 7.81 | 12.42 |
| 30% | 1.51 | 33.61 | 3,203 | 374.0 | 13.18 | 11.13 |
| 40% | 2.86 | 63.54 | 4,063 | 622.4 | 21.93 | 9.80 |
| 50% | 4.86 | 107.78 | 4,894 | 942.1 | 33.20 | 8.74 |
| 60% | 7.43 | 164.84 | 5,677 | 1269.9 | 44.75 | 7.70 |
| 70% | 11.10 | 246.46 | 6,486 | 1686.0 | 59.42 | 6.84 |
| 80% | 15.54 | 344.97 | 7,221 | 2106.8 | 74.25 | 6.11 |
| 90% | 20.65 | 458.47 | 7,899 | 2534.3 | 89.31 | 5.53 |
| 100% | 24.03 | 533.36 | 8,255 | 2775.2 | 97.80 | 5.20 |

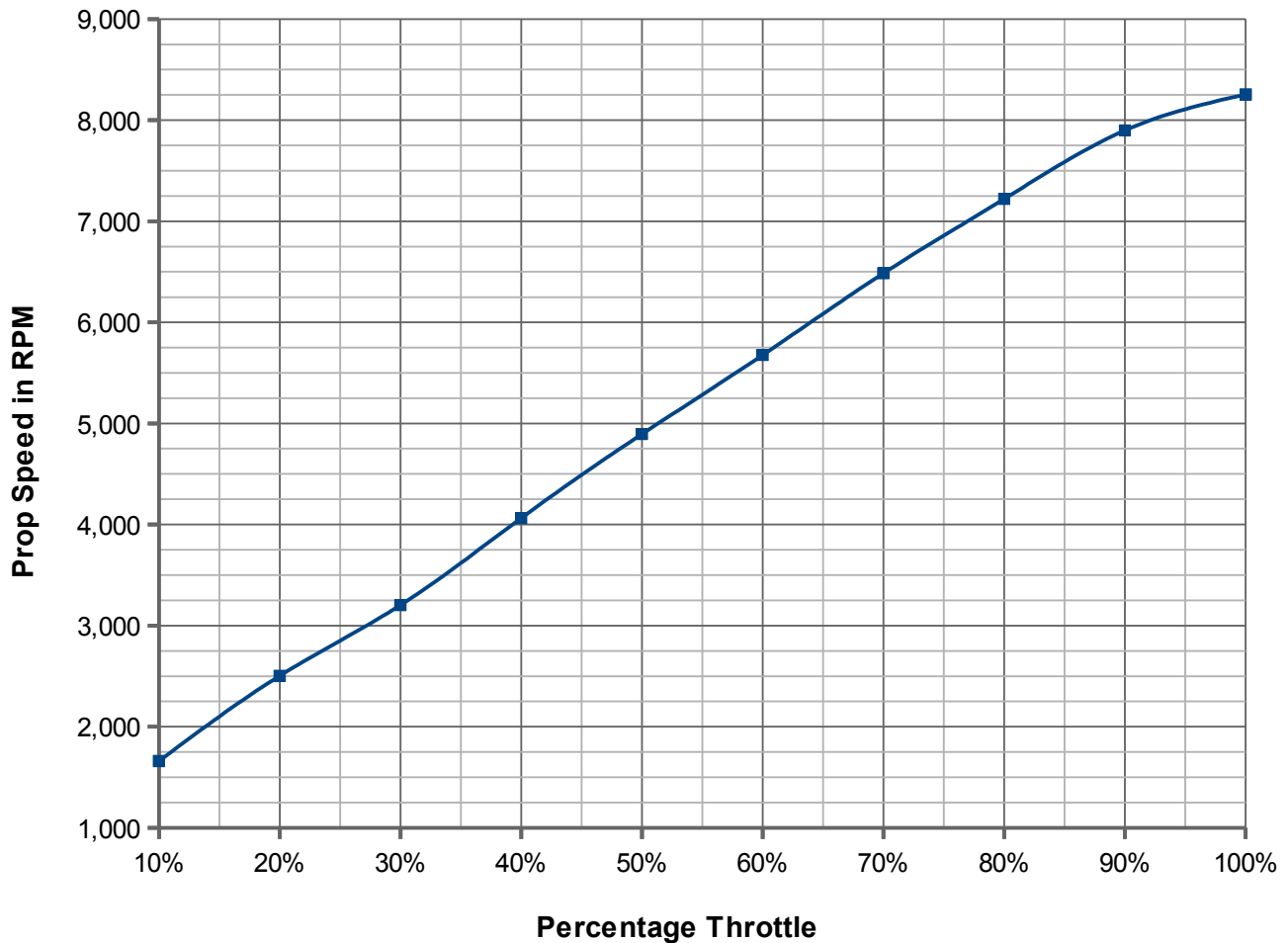
Motor Current vs Throttle Position



Cobra CM-2820/24 Motor Test Data, Kv=490

| Data Collected at 22.2 volts with GemFan 14x4.5-MR Wood Prop | | | | | | |
|--|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.31 | 6.88 | 1,660 | 93.9 | 3.31 | 13.64 |
| 20% | 0.80 | 17.85 | 2,503 | 221.6 | 7.81 | 12.42 |
| 30% | 1.51 | 33.61 | 3,203 | 374.0 | 13.18 | 11.13 |
| 40% | 2.86 | 63.54 | 4,063 | 622.4 | 21.93 | 9.80 |
| 50% | 4.86 | 107.78 | 4,894 | 942.1 | 33.20 | 8.74 |
| 60% | 7.43 | 164.84 | 5,677 | 1269.9 | 44.75 | 7.70 |
| 70% | 11.10 | 246.46 | 6,486 | 1686.0 | 59.42 | 6.84 |
| 80% | 15.54 | 344.97 | 7,221 | 2106.8 | 74.25 | 6.11 |
| 90% | 20.65 | 458.47 | 7,899 | 2534.3 | 89.31 | 5.53 |
| 100% | 24.03 | 533.36 | 8,255 | 2775.2 | 97.80 | 5.20 |

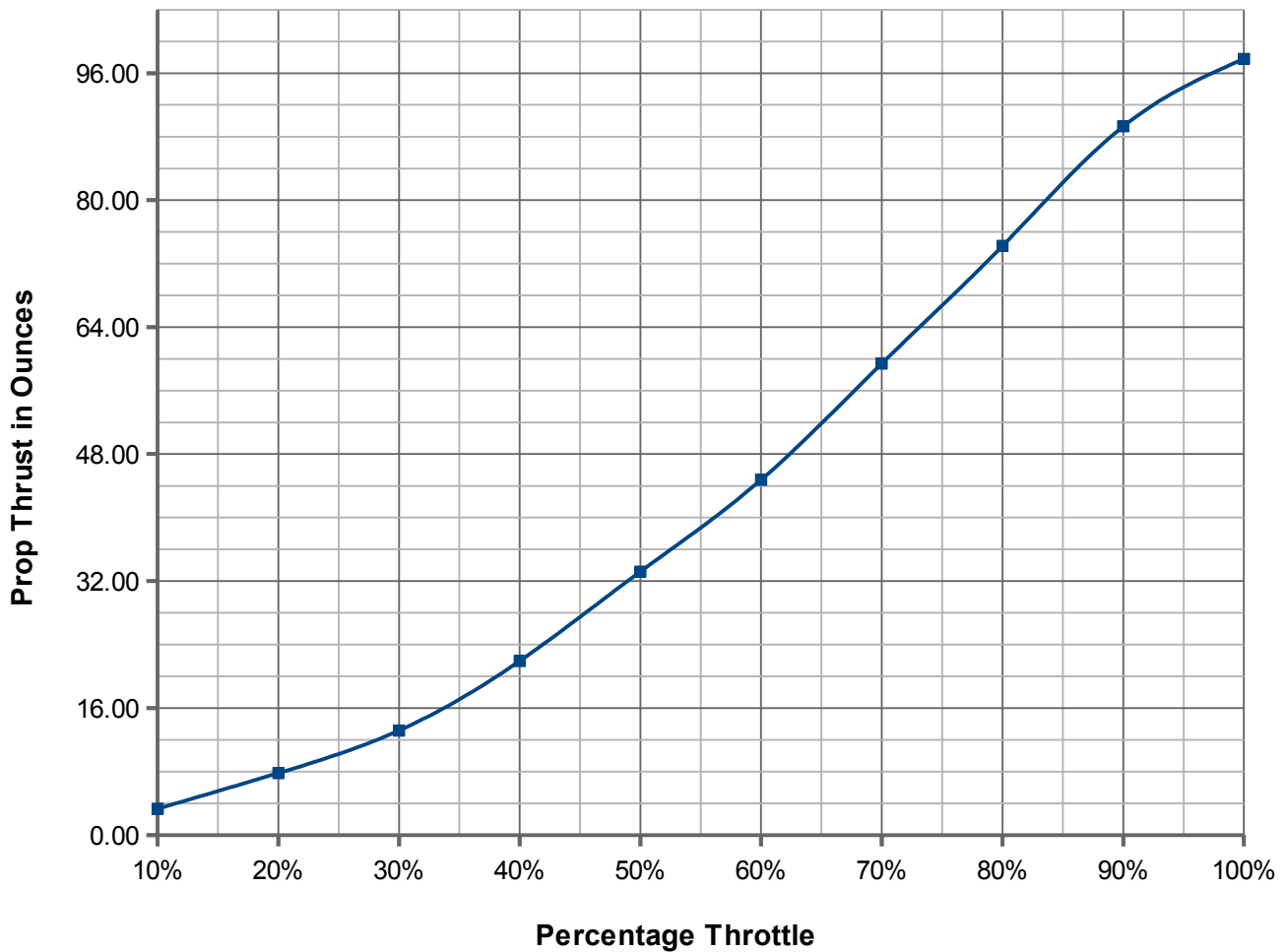
Propeller RPM vs Throttle Position



Cobra CM-2820/24 Motor Test Data, Kv=490

| Data Collected at 22.2 volts with GemFan 14x4.5-MR Wood Prop | | | | | | |
|--|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.31 | 6.88 | 1,660 | 93.9 | 3.31 | 13.64 |
| 20% | 0.80 | 17.85 | 2,503 | 221.6 | 7.81 | 12.42 |
| 30% | 1.51 | 33.61 | 3,203 | 374.0 | 13.18 | 11.13 |
| 40% | 2.86 | 63.54 | 4,063 | 622.4 | 21.93 | 9.80 |
| 50% | 4.86 | 107.78 | 4,894 | 942.1 | 33.20 | 8.74 |
| 60% | 7.43 | 164.84 | 5,677 | 1269.9 | 44.75 | 7.70 |
| 70% | 11.10 | 246.46 | 6,486 | 1686.0 | 59.42 | 6.84 |
| 80% | 15.54 | 344.97 | 7,221 | 2106.8 | 74.25 | 6.11 |
| 90% | 20.65 | 458.47 | 7,899 | 2534.3 | 89.31 | 5.53 |
| 100% | 24.03 | 533.36 | 8,255 | 2775.2 | 97.80 | 5.20 |

Propeller Thrust vs Throttle Position



Cobra CM-2820/24 Motor Test Data, Kv=490

| Data Collected at 22.2 volts with GemFan 14x4.5-MR Wood Prop | | | | | | |
|--|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.31 | 6.88 | 1,660 | 93.9 | 3.31 | 13.64 |
| 20% | 0.80 | 17.85 | 2,503 | 221.6 | 7.81 | 12.42 |
| 30% | 1.51 | 33.61 | 3,203 | 374.0 | 13.18 | 11.13 |
| 40% | 2.86 | 63.54 | 4,063 | 622.4 | 21.93 | 9.80 |
| 50% | 4.86 | 107.78 | 4,894 | 942.1 | 33.20 | 8.74 |
| 60% | 7.43 | 164.84 | 5,677 | 1269.9 | 44.75 | 7.70 |
| 70% | 11.10 | 246.46 | 6,486 | 1686.0 | 59.42 | 6.84 |
| 80% | 15.54 | 344.97 | 7,221 | 2106.8 | 74.25 | 6.11 |
| 90% | 20.65 | 458.47 | 7,899 | 2534.3 | 89.31 | 5.53 |
| 100% | 24.03 | 533.36 | 8,255 | 2775.2 | 97.80 | 5.20 |

Propeller Efficiency vs Throttle Position

