

| | |
|----------------------|-------------|
| Color code | |
| Blue w/white numbers | input |
| Red | do not use |
| Green | Calculation |

Model A speed comparison

| | |
|----------------------|-----------------|
| | calculate speed |
| tire height (inches) | 29 |
| Rear end ratio | 3.78 |
| engine (RPM) | 2300 |
| speed (MPH) | 50 |

notes rear end ratios 4.11, 3.78, & 3.54

| gear | Stock | ratio | Final drive ratio | T-5 | ratio | Final drive ratio | Mitchel overdrive | | |
|------|-------|-------|-------------------|-----|-------|-------------------|-------------------|------|-------|
| 1 | | 3.12 | 11.79 | | 3.35 | 12.66 | | 3.12 | 11.79 |
| 2 | | 1.85 | 6.99 | | 1.99 | 7.52 | | 2.48 | 9.36 |
| 3 | | 1 | 3.78 | | 1.34 | 5.07 | | 1.85 | 6.99 |
| 4 | | | | | 1 | 3.78 | | 1.47 | 5.55 |
| 5 | | | | | 0.83 | 3.14 | | 1 | 3.78 |
| 6 | | | | | | | | 0.79 | 3.00 |

Speed Calculations

Stock

| gear | Speed | RPM |
|------|-------|-------|
| 1 | 17 | 6,835 |
| 2 | 28 | 4,053 |
| 3 | 52 | 2,191 |

T-5

| gear | Speed | RPM |
|------|-------|-------|
| 1 | 16 | 7,339 |
| 2 | 26 | 4,359 |
| 3 | 39 | 2,936 |
| 4 | 52 | 2,191 |
| 5 | 63 | 1,818 |

Mitchel overdrive

| gear | Speed | RPM |
|------|-------|-------|
| 1 | 17 | 6,835 |
| 2 | 21 | 5,425 |
| 3 | 28 | 4,053 |
| 4 | 36 | 3,216 |
| 5 | 52 | 2,191 |
| 6 | 66 | 1,739 |

Graph calculation

stock

| gear | 1 | 2 | 3 |
|------|------|------|------|
| | 3.3 | 5.6 | 10.3 |
| | 3.7 | 6.2 | 11.4 |
| | 4.0 | 6.8 | 12.6 |
| | 4.4 | 7.4 | 13.7 |
| | 4.8 | 8.0 | 14.8 |
| | 5.1 | 8.6 | 16.0 |
| | 5.5 | 9.3 | 17.1 |
| | 5.9 | 9.9 | 18.3 |
| | 6.2 | 10.5 | 19.4 |
| | 6.6 | 11.1 | 20.5 |
| | 6.9 | 11.7 | 21.7 |
| | 7.3 | 12.3 | 22.8 |
| | 7.7 | 13.0 | 24.0 |
| | 8.0 | 13.6 | 25.1 |
| | 8.4 | 14.2 | 26.2 |
| | 8.8 | 14.8 | 27.4 |
| | 9.1 | 15.4 | 28.5 |
| | 9.5 | 16.0 | 29.7 |
| | 9.9 | 16.7 | 30.8 |
| | 10.2 | 17.3 | 32.0 |
| | 10.6 | 17.9 | 33.1 |
| | 11.0 | 18.5 | 34.2 |
| | 11.3 | 19.1 | 35.4 |
| | 11.7 | 19.7 | 36.5 |
| | 12.1 | 20.4 | 37.7 |
| | 12.4 | 21.0 | 38.8 |
| | 12.8 | 21.6 | 39.9 |
| | 13.2 | 22.2 | 41.1 |
| | 13.5 | 22.8 | 42.2 |
| | 13.9 | 23.4 | 43.4 |
| | 14.3 | 24.1 | 44.5 |
| | 14.6 | 24.7 | 45.6 |
| | 15.0 | 25.3 | 46.8 |
| | 15.4 | 25.9 | 47.9 |

T-5

| gear | 1 | 2 | 3 | 4 | 5 |
|------|------|------|------|------|------|
| | 3.1 | 5.2 | 7.7 | 10.3 | 12.4 |
| | 3.4 | 5.7 | 8.5 | 11.4 | 13.7 |
| | 3.7 | 6.3 | 9.4 | 12.6 | 15.1 |
| | 4.1 | 6.9 | 10.2 | 13.7 | 16.5 |
| | 4.4 | 7.5 | 11.1 | 14.8 | 17.9 |
| | 4.8 | 8.0 | 11.9 | 16.0 | 19.2 |
| | 5.1 | 8.6 | 12.8 | 17.1 | 20.6 |
| | 5.5 | 9.2 | 13.6 | 18.3 | 22.0 |
| | 5.8 | 9.7 | 14.5 | 19.4 | 23.4 |
| | 6.1 | 10.3 | 15.3 | 20.5 | 24.7 |
| | 6.5 | 10.9 | 16.2 | 21.7 | 26.1 |
| | 6.8 | 11.5 | 17.0 | 22.8 | 27.5 |
| | 7.2 | 12.0 | 17.9 | 24.0 | 28.9 |
| | 7.5 | 12.6 | 18.7 | 25.1 | 30.2 |
| | 7.8 | 13.2 | 19.6 | 26.2 | 31.6 |
| | 8.2 | 13.8 | 20.4 | 27.4 | 33.0 |
| | 8.5 | 14.3 | 21.3 | 28.5 | 34.4 |
| | 8.9 | 14.9 | 22.1 | 29.7 | 35.7 |
| | 9.2 | 15.5 | 23.0 | 30.8 | 37.1 |
| | 9.5 | 16.1 | 23.8 | 32.0 | 38.5 |
| | 9.9 | 16.6 | 24.7 | 33.1 | 39.9 |
| | 10.2 | 17.2 | 25.5 | 34.2 | 41.2 |
| | 10.6 | 17.8 | 26.4 | 35.4 | 42.6 |
| | 10.9 | 18.4 | 27.3 | 36.5 | 44.0 |
| | 11.2 | 18.9 | 28.1 | 37.7 | 45.4 |
| | 11.6 | 19.5 | 29.0 | 38.8 | 46.7 |
| | 11.9 | 20.1 | 29.8 | 39.9 | 48.1 |
| | 12.3 | 20.6 | 30.7 | 41.1 | 49.5 |
| | 12.6 | 21.2 | 31.5 | 42.2 | 50.9 |
| | 12.9 | 21.8 | 32.4 | 43.4 | 52.2 |
| | 13.3 | 22.4 | 33.2 | 44.5 | 53.6 |
| | 13.6 | 22.9 | 34.1 | 45.6 | 55.0 |
| | 14.0 | 23.5 | 34.9 | 46.8 | 56.4 |
| | 14.3 | 24.1 | 35.8 | 47.9 | 57.7 |

Mitchel overdrive

| rpm | 1 | 2 | 3 | 4 | 5 | 6 |
|------|------|------|------|------|------|------|
| 450 | 3.3 | 4.1 | 5.6 | 7.0 | 10.3 | 12.9 |
| 500 | 3.7 | 4.6 | 6.2 | 7.8 | 11.4 | 14.4 |
| 550 | 4.0 | 5.1 | 6.8 | 8.5 | 12.6 | 15.8 |
| 600 | 4.4 | 5.5 | 7.4 | 9.3 | 13.7 | 17.3 |
| 650 | 4.8 | 6.0 | 8.0 | 10.1 | 14.8 | 18.7 |
| 700 | 5.1 | 6.5 | 8.6 | 10.9 | 16.0 | 20.1 |
| 750 | 5.5 | 6.9 | 9.3 | 11.7 | 17.1 | 21.6 |
| 800 | 5.9 | 7.4 | 9.9 | 12.4 | 18.3 | 23.0 |
| 850 | 6.2 | 7.8 | 10.5 | 13.2 | 19.4 | 24.4 |
| 900 | 6.6 | 8.3 | 11.1 | 14.0 | 20.5 | 25.9 |
| 950 | 6.9 | 8.8 | 11.7 | 14.8 | 21.7 | 27.3 |
| 1000 | 7.3 | 9.2 | 12.3 | 15.5 | 22.8 | 28.8 |
| 1050 | 7.7 | 9.7 | 13.0 | 16.3 | 24.0 | 30.2 |
| 1100 | 8.0 | 10.1 | 13.6 | 17.1 | 25.1 | 31.6 |
| 1150 | 8.4 | 10.6 | 14.2 | 17.9 | 26.2 | 33.1 |
| 1200 | 8.8 | 11.1 | 14.8 | 18.7 | 27.4 | 34.5 |
| 1250 | 9.1 | 11.5 | 15.4 | 19.4 | 28.5 | 35.9 |
| 1300 | 9.5 | 12.0 | 16.0 | 20.2 | 29.7 | 37.4 |
| 1350 | 9.9 | 12.4 | 16.7 | 21.0 | 30.8 | 38.8 |
| 1400 | 10.2 | 12.9 | 17.3 | 21.8 | 32.0 | 40.3 |
| 1450 | 10.6 | 13.4 | 17.9 | 22.5 | 33.1 | 41.7 |
| 1500 | 11.0 | 13.8 | 18.5 | 23.3 | 34.2 | 43.1 |
| 1550 | 11.3 | 14.3 | 19.1 | 24.1 | 35.4 | 44.6 |
| 1600 | 11.7 | 14.7 | 19.7 | 24.9 | 36.5 | 46.0 |
| 1650 | 12.1 | 15.2 | 20.4 | 25.6 | 37.7 | 47.5 |
| 1700 | 12.4 | 15.7 | 21.0 | 26.4 | 38.8 | 48.9 |
| 1750 | 12.8 | 16.1 | 21.6 | 27.2 | 39.9 | 50.3 |
| 1800 | 13.2 | 16.6 | 22.2 | 28.0 | 41.1 | 51.8 |
| 1850 | 13.5 | 17.1 | 22.8 | 28.8 | 42.2 | 53.2 |
| 1900 | 13.9 | 17.5 | 23.4 | 29.5 | 43.4 | 54.6 |
| 1950 | 14.3 | 18.0 | 24.1 | 30.3 | 44.5 | 56.1 |
| 2000 | 14.6 | 18.4 | 24.7 | 31.1 | 45.6 | 57.5 |
| 2050 | 15.0 | 18.9 | 25.3 | 31.9 | 46.8 | 59.0 |
| 2100 | 15.4 | 19.4 | 25.9 | 32.6 | 47.9 | 60.4 |

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|------|------|------|
| 15.7 | 26.5 | 49.1 |
| 16.1 | 27.1 | 50.2 |
| 16.5 | 27.8 | 51.4 |
| 16.8 | 28.4 | 52.5 |
| 17.2 | 29.0 | 53.6 |
| 17.6 | 29.6 | 54.8 |
| 17.9 | 30.2 | 55.9 |
| 18.3 | 30.8 | 57.1 |
| 18.7 | 31.5 | 58.2 |
| 19.0 | 32.1 | 59.3 |
| 19.4 | 32.7 | 60.5 |
| 19.8 | 33.3 | 61.6 |
| 20.1 | 33.9 | 62.8 |
| 20.5 | 34.5 | 63.9 |
| 20.8 | 35.2 | 65.0 |
| 21.2 | 35.8 | 66.2 |
| 21.6 | 36.4 | 67.3 |
| 21.9 | 37.0 | 68.5 |

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|------|------|------|------|------|
| 14.6 | 24.7 | 36.6 | 49.1 | 59.1 |
| 15.0 | 25.2 | 37.5 | 50.2 | 60.5 |
| 15.3 | 25.8 | 38.3 | 51.4 | 61.9 |
| 15.7 | 26.4 | 39.2 | 52.5 | 63.2 |
| 16.0 | 27.0 | 40.0 | 53.6 | 64.6 |
| 16.4 | 27.5 | 40.9 | 54.8 | 66.0 |
| 16.7 | 28.1 | 41.7 | 55.9 | 67.4 |
| 17.0 | 28.7 | 42.6 | 57.1 | 68.7 |
| 17.4 | 29.2 | 43.4 | 58.2 | 70.1 |
| 17.7 | 29.8 | 44.3 | 59.3 | 71.5 |
| 18.1 | 30.4 | 45.1 | 60.5 | 72.9 |
| 18.4 | 31.0 | 46.0 | 61.6 | 74.2 |
| 18.7 | 31.5 | 46.8 | 62.8 | 75.6 |
| 19.1 | 32.1 | 47.7 | 63.9 | 77.0 |
| 19.4 | 32.7 | 48.5 | 65.0 | 78.4 |
| 19.8 | 33.3 | 49.4 | 66.2 | 79.7 |
| 20.1 | 33.8 | 50.2 | 67.3 | 81.1 |
| 20.4 | 34.4 | 51.1 | 68.5 | 82.5 |

| | | | | | | |
|------|------|------|------|------|------|------|
| 2150 | 15.7 | 19.8 | 26.5 | 33.4 | 49.1 | 61.8 |
| 2200 | 16.1 | 20.3 | 27.1 | 34.2 | 50.2 | 63.3 |
| 2250 | 16.5 | 20.7 | 27.8 | 35.0 | 51.4 | 64.7 |
| 2300 | 16.8 | 21.2 | 28.4 | 35.8 | 52.5 | 66.1 |
| 2350 | 17.2 | 21.7 | 29.0 | 36.5 | 53.6 | 67.6 |
| 2400 | 17.6 | 22.1 | 29.6 | 37.3 | 54.8 | 69.0 |
| 2450 | 17.9 | 22.6 | 30.2 | 38.1 | 55.9 | 70.5 |
| 2500 | 18.3 | 23.0 | 30.8 | 38.9 | 57.1 | 71.9 |
| 2550 | 18.7 | 23.5 | 31.5 | 39.6 | 58.2 | 73.3 |
| 2600 | 19.0 | 24.0 | 32.1 | 40.4 | 59.3 | 74.8 |
| 2650 | 19.4 | 24.4 | 32.7 | 41.2 | 60.5 | 76.2 |
| 2700 | 19.8 | 24.9 | 33.3 | 42.0 | 61.6 | 77.6 |
| 2750 | 20.1 | 25.3 | 33.9 | 42.7 | 62.8 | 79.1 |
| 2800 | 20.5 | 25.8 | 34.5 | 43.5 | 63.9 | 80.5 |
| 2850 | 20.8 | 26.3 | 35.2 | 44.3 | 65.0 | 82.0 |
| 2900 | 21.2 | 26.7 | 35.8 | 45.1 | 66.2 | 83.4 |
| 2950 | 21.6 | 27.2 | 36.4 | 45.9 | 67.3 | 84.8 |
| 3000 | 21.9 | 27.7 | 37.0 | 46.6 | 68.5 | 86.3 |

