



## Weismann Underdrive Ratio Chart

### 4.110 Ring & Pinion Ratio

34/32 Rear Q.C. Ratio		35/32 Rear Q.C. Ratio	
Overall	mph	Overall	mph

### 4.290 Ring & Pinion Ratio

34/32 Rear Q.C. Ratio		35/32 Rear Q.C. Ratio	
Overall	mph	Overall	mph

### 4.560 Ring & Pinion Ratio

34/32 Rear Q.C. Ratio		35/32 Rear Q.C. Ratio	
Overall	mph	Overall	mph

### 4.880 Ring & Pinion Ratio

34/32 Rear Q.C. Ratio		35/32 Rear Q.C. Ratio	
Overall	mph	Overall	mph

#### Teeth Ratio

42	24	1.750
42	25	1.680
42	26	1.615
41	25	1.640
41	26	1.577
41	27	1.519
40	26	1.538
40	27	1.481
40	28	1.429
39	27	1.444
39	28	1.393
39	29	1.345
38	29	1.310

7.642	122.6	7.867	119.1
7.336	127.7	7.552	124.1
7.054	132.8	7.262	129.1
7.162	130.9	7.372	127.1
6.886	136.1	7.089	132.2
6.631	141.3	6.826	137.3
6.718	139.5	6.916	135.5
6.469	144.9	6.660	140.7
6.238	150.2	6.422	145.9
6.308	148.6	6.493	144.3
6.082	154.1	6.261	149.7
5.873	159.6	6.045	155.0
5.722	163.8	5.890	159.1

7.977	117.5	8.211	114.1
7.658	122.4	7.883	118.9
7.363	127.3	7.580	123.6
7.475	125.4	7.695	121.8
7.188	130.4	7.399	126.7
6.922	135.4	7.125	131.5
7.013	133.6	7.219	129.8
6.753	138.8	6.951	134.8
6.512	143.9	6.703	139.8
6.584	142.3	6.778	138.3
6.349	147.6	6.536	143.4
6.130	152.9	6.310	148.5
5.973	156.9	6.148	152.4

8.479	110.5	8.728	107.4
8.140	115.1	8.379	111.8
7.827	119.7	8.057	116.3
7.946	117.9	8.180	114.6
7.640	122.7	7.865	119.2
7.357	127.4	7.574	123.7
7.454	125.7	7.673	122.1
7.178	130.6	7.389	126.8
6.921	135.4	7.125	131.5
6.998	133.9	7.204	130.1
6.748	138.9	6.947	134.9
6.516	143.8	6.707	139.7
6.349	147.6	6.535	143.4

9.074	103.3	9.341	100.3
8.711	107.6	8.967	104.5
8.376	111.9	8.622	108.7
8.503	110.2	8.754	107.1
8.176	114.6	8.417	111.3
7.874	119.0	8.105	115.6
7.977	117.5	8.212	114.1
7.681	122.0	7.907	118.5
7.407	126.5	7.625	122.9
7.489	125.1	7.710	121.6
7.222	129.8	7.434	126.1
6.973	134.4	7.178	130.6
6.794	137.9	6.994	134.0

#### Power Path

$$\begin{array}{l}
 \text{In} \\
 42 = \frac{42}{24} \\
 \parallel \\
 32 = \frac{34}{32} \\
 \text{Out}
 \end{array}
 \times
 = 1.433 \text{ Underdrive Ratio} \times 4.110 \text{ R\&P Ratio} = \boxed{7.462}$$

Engine RPM  
Tire Dia.

9000  
35

To recalculate mph with a different engine rpm, divide mph by 9000 and multiply by new engine rpm.  
To recalculate mph with a different tire diameter, divide mph by 35 and multiply by new tire diameter.