

	A	B	C	D	E	F	G	H	I	J	K
1	<b>Calculation of Quad RPM vs MPH in low gear</b>	Diameter in inches	Circumference in inches	14/40 Sprocket Ratio	Revolutions	Travel in Inches	MPH	9/40 Sprocket Ratio	Revolutions	MPH	% of Original Speed
2	Low speed pulley	5.625	17.6625								
3	Wooden Pulley	7.5	23.55								
4	Ratio of Low speed pulley to wooden pulley			0.75				0.75			
5	Ratio of small sprocket to large sprocket			0.35				0.23			
6	Wheel size	28	87.92								
7	rear axle rev for 100 flywheel revolutions - 100RPM				26.25				16.88		
8	rear axle rev for 100 flywheel revolutions per hour				1575				1013		
9	distance travel for 1 hour at 100RPM					138474	<b>2.19</b>			<b>1.40</b>	<b>64%</b>
10	flywheel rpm = 200RPM						<b>4.37</b>			<b>2.81</b>	
11	flywheel rpm = 300RPM						<b>6.56</b>			<b>4.21</b>	
12	flywheel rpm = 400RPM						<b>8.74</b>			<b>5.62</b>	
13	flywheel rpm = 800RPM						<b>17.48</b>			<b>11.24</b>	
14											
15								<b>After changing the small sprocket from 14 teeth to 9 teeth.</b>			
16											