

SOFTBALL

SPINBALL WIZARD SOFTBALL PITCH CHART ©2014 SPINBALL SPORTS LLC

| PITCH | LEFT HANDED | | | | | | UNDERHAND | | | RIGHT HANDED | | | | | |
|---------------------------------|-------------|-----------|-----------------|------------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-------------------|-----------|---------|
| | CURVE | SCREWBALL | SINKING CURVE | RISING SCREWBALL | RISING CURVE | SINKING SCREWBALL | RISER | DROP | KNUCKLEBALL | SINKING CURVE | RISING SCREWBALL | RISING CURVE | SINKING SCREWBALL | SCREWBALL | CURVE |
| MACHINE ANGLE PITCHER'S VIEW | | | | | | | | | | | | | | | |
| PITCH SPEED | | | | | | | | | | | | | | | |
| 40 | 60 35 | 35 60 | $\frac{60}{35}$ | $\frac{35}{60}$ | $\frac{60}{35}$ | $\frac{35}{60}$ | $\frac{35}{60}$ | $\frac{60}{35}$ | $\frac{48}{48}$ | $\frac{35}{60}$ | $\frac{60}{35}$ | $\frac{35}{60}$ | $\frac{60}{35}$ | 60 35 | 35 60 |
| 45 | 67 40 | 40 67 | $\frac{67}{40}$ | $\frac{40}{67}$ | $\frac{67}{40}$ | $\frac{40}{67}$ | $\frac{40}{67}$ | $\frac{67}{40}$ | $\frac{54}{54}$ | $\frac{40}{67}$ | $\frac{67}{40}$ | $\frac{40}{67}$ | $\frac{67}{40}$ | 67 40 | 40 67 |
| 50 | 75 45 | 45 75 | $\frac{75}{45}$ | $\frac{45}{75}$ | $\frac{75}{45}$ | $\frac{45}{75}$ | $\frac{45}{75}$ | $\frac{75}{45}$ | $\frac{60}{60}$ | $\frac{45}{75}$ | $\frac{75}{45}$ | $\frac{45}{75}$ | $\frac{75}{45}$ | 75 45 | 45 75 |
| 55 | 82 50 | 50 82 | $\frac{82}{50}$ | $\frac{50}{82}$ | $\frac{82}{50}$ | $\frac{50}{82}$ | $\frac{50}{82}$ | $\frac{82}{50}$ | $\frac{66}{66}$ | $\frac{50}{82}$ | $\frac{82}{50}$ | $\frac{50}{82}$ | $\frac{82}{50}$ | 82 50 | 50 82 |
| 60 | 90 55 | 55 90 | $\frac{90}{55}$ | $\frac{55}{90}$ | $\frac{90}{55}$ | $\frac{55}{90}$ | $\frac{55}{90}$ | $\frac{90}{55}$ | $\frac{72}{72}$ | $\frac{55}{90}$ | $\frac{90}{55}$ | $\frac{55}{90}$ | $\frac{90}{55}$ | 90 55 | 55 90 |

THREE FUNDAMENTALS: 1) THE BALL CURVES AWAY FROM THE FASTER WHEEL. 2) THE GREATER THE WHEEL SPEED DIFFERENCE, THE GREATER THE CURVE. 3) PITCH SPEED IS THE AVERAGE OF THE WHEEL SPEEDS -16%.