



# NATIONAL RIFLE ASSOCIATION

## Small-Bore Long Range Match .22RF Ballistics (approximate)

**Practical Rises Between Ranges** (sight line 1.25 inch or 32mm above bore line)

Standard Velocity Ammo (1075 ft/s) RWS R50, Lapua Midas, Eley Tenex etc		
Rise from (yds)	Rise to (yds)	Minutes of angle
25	50	2.0
50	100	7.0
100	200	20.0
200	300	26.5

High Velocity Ammo (1125 ft/s) RWS R100		
Rise from (yds)	Rise to (yds)	Minutes of angle
25	50	1.5
50	100	6.0
100	200	19.0
200	300	26.0

### Wind Deflections

Distance (yds)		100			200			300		
Direction o'clock		1	2	3	1	2	3	1	2	3
<i>Strength (mph)</i>	Gentle 4	0.7	1.1	1.3	1.2	2.1	2.4	1.8	3.1	3.6
	Mod 8	1.3	2.3	2.6	2.4	4.2	4.8	3.6	6.2	7.2
	Fresh 12	2.0	3.4	3.9	3.6	6.2	7.2	5.4	9.4	10.8
	Strong 16	2.6	4.5	5.2	4.8	8.3	9.6	7.2	12.5	14.4
	V.Strong 20	3.3	5.6	6.5	6.0	10.4	12.0	9.0	15.6	18.0

### Gyroscopic Drift

Drift in minutes due to spin of the bullet, to the right for 16 inch right hand twist barrels, is (approx):

**100 yds:** 0.5 min

**200 yds:** 1.0 min

**300 yds:** 1.5 mins