

Bullets begin to fall as soon as they leave the muzzle, so typically sights are set to make the line of sight appear as though the bullet is traveling on a direct line to the target. If the gun is sighted to hit the target at 100 yards, the Ballistics of the two sample bullets would be as follows:

Velocity (ft/sec.)					
Cartridge	Bullet Wt.	Muzzle	100 yds.	200 yds.	300 yds.
45-70 Govt.	300	1810	1497	1299	1073
7mm-08 Rem	140	2860	2625	2402	2189

Energy (ft-lbs)					
Cartridge	Bullet Wt.	Muzzle	100 yds.	200 yds.	300 yds.
45-70 Govt.	300	2182	1492	1031	767
7mm-08 Rem	140	2542	2142	1793	1490

Trajectory					
Cartridge	Bullet Wt.	100 yards	200 yds.	300 yds.	
45-70 Govt.	300	zero	18.8"	50.1"	
7mm-08 Rem	140	zero	-7.8"	12.3"	

The 45-70 with its larger and heavier bullet flies slower than the 7mm-08, at 200 yards the Velocity is half of 7mm-08.

The energy of the 45-70 is 85% of the 7mm-08 at the muzzle, but the heavier bullet quickly losses energy and at 200 yards it has only 57% of the 7mm-08's energy.

The trajectory will also vary with the slower and heavier 45-70 bullet falling faster than the 7mm-08, more than 2 times more drop than the 7mm-08 in this example – shots at 300 yards.

Edit note, show chart first shoot the 45-70



Then the shoot the 7mm-08

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