

ACCURACY AND CHRONOGRAPH DATA

Black Hills 22-250 Rem 50-gr Hornady V-Max	CZ USA 550 Varmint	Thompson Center Venture	Howa Predator Talon	Kimber Longmaster VT
Average Velocity	3756 fps	3728 fps	3746 fps	3902 fps
Standard Deviation	20 fps	21 fps	28 fps	14 fps
Muzzle Energy	1567 ft.-lbs.	1543 ft.-lbs.	1558 ft.-lbs.	1690 ft.-lbs.
Average Group Radius	0.46 in.	0.59 in.	0.72 in.	0.53 in.
Maximum Spread	1.11 in.	1.46 in.	1.22 in.	1.62 in.
Maximum Shot Radius	0.57 in.	0.79 in.	1.18 in.	0.86 in.

Black Hills 22-250 Rem 36-gr Varmint Grenade	CZ USA 550 Varmint	Thompson Center Venture	Howa Predator Talon	Kimber Longmaster VT
Average Velocity	4275 fps	4235 fps	4208 fps	4388 fps
Standard Deviation	39 fps	36 fps	25 fps	24 fps
Muzzle Energy	1461 ft.-lbs.	1434 ft.-lbs.	1415 ft.-lbs.	1539 ft.-lbs.
Average Group Radius	0.64 in.	0.70 in.	0.69 in.	0.57 in.
Maximum Spread	1.89 in.	1.86 in.	1.57 in.	1.79 in.
Maximum Shot Radius	1.07 in.	0.98 in.	0.90 in.	0.98 in.

Winchester USA 22-250 Rem 45-gr JHP USA222502	CZ USA 550 Varmint	Thompson Venture	Center Howa Predator Talon	Kimber Longmaster VT
Average Velocity	4067 fps	3995 fps	3912 fps	4154 fps
Standard Deviation	44 fps	25 fps	13 fps	29 fps
Muzzle Energy	1653 ft.-lbs.	1595 ft.-lbs.	1529 ft.-lbs.	1725 ft.-lbs.
Average Group Radius	0.53 in.	0.78 in.	0.55 in.	0.40 in.
Maximum Spread	1.83 in.	2.4 in.	1.42 in.	1.17 in.
Maximum Shot Radius	0.94 in.	1.39 in.	0.80 in.	0.61 in.

To collect accuracy data, we fired from a sandbag rest. Distance: 100 yards. To calculate Average Group Radius, we fired 10 shots, then found the center of the 10-shot group. We then measured the distances from the group center to each shot, and averaged them. Maximum Shot Radius is the distance from a group's statistical center to the center of the most distant hole, the worst shot in the string. Maximum Spread (group diameter) is the distance between the centers of the two widest shots in the group. We recorded velocities using an Oehler 35P chronograph, with the sky screens set 10 feet from the muzzle.

We tested each rifle with Black Hills 50-grain V-Max and the 36-grain Varmint Grenade premium ammunition. We chose these rounds after seeing spectacular results from gelatin tests. Shown here, the Varmint Grenade is a lead-free frangible bullet that was developed to meet mil-spec standards for limited collateral damage. We recorded average velocity of the 36-grain bullet to be as high as 4388 fps fired from Kimber Longmaster VT.

