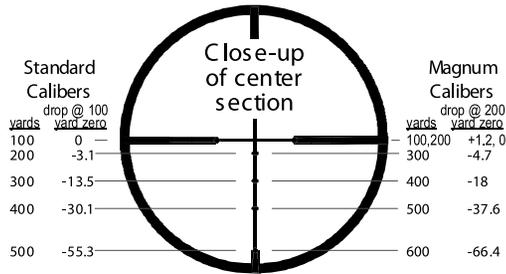


Description

The Ballistic Plex reticle is a copyrighted Burris design on the lower vertical crosshair that compensates for bullet drop. The Ballistic Plex reticle is set to provide dead on aiming from 100 yards to 500 yards for many of the most common hunting cartridges. The actual bullet path and numerous examples are shown in Table 1. As can be seen, the bullet path of the most common cartridges comes very close to the Ballistic Plex calibration.



The Ballistic Plex is extremely useful even if you do not shoot one of the example cartridges. Each ballistic line represents some exact yardage for whatever cartridge you shoot. It's a simple trip to a long distance shooting range to make your own yardage chart to correspond to each ballistic line for your cartridge. By shooting at known distances (i.e. 100, 200, 300, 400, 500 and 600 yds.), you can determine the bullet drop that corresponds to each ballistic line for your cartridge. For instance, the 500 yard ballistic line for a less powerful cartridge may be 465 yards.

How to Make Your Own Ballistic Chart

1. Sight-in exactly at 100 yards or 200 yards depending on your cartridge and bullet selection.
2. For most scopes, set your scope to the highest magnification. If your scope has a calibration dot on the power ring, line it up with the reference line on the scope tube.
3. Determine the bullet path of your cartridge at the climactic conditions you will be shooting. We highly recommend actual firing at each 100 yard increment for best accuracy. Make a table like Table 1 for our rifle/cartridge combination.
4. Determine your distance to target and select the corresponding ballistic line. Slight hold-over or under may be necessary to handle in-between yardages.
5. Good shooting!

Practice Makes Perfect

The Ballistic Plex reticle is much more accurate than guessing hold over or hold off. It can also be faster and more reassuring to most shooters than using target-type adjustments. The nature of ballistics is such that everything is theoretical and if any one of the variables changes (altitude, temperature, barometric pressure, humidity, bullet design, barrel length, chamber fit, seating depth, etc.) so does the ballistic table.

For maximum accuracy, practice at long ranges under similar conditions to those which you will experience in the field.

Technical Tip

For maximum accuracy at long ranges, instead of sighting in at 100 yards using the center of the reticle, sight in at a longer range such as 400 yards using the 400 yard ballistic line. This will decrease the amount of long-range error that can occur under various environmental conditions, or when slightly under estimating point-of-impact at shorter ranges.

Shoot Responsibly

Long range shooting is extremely challenging and can be very rewarding. But along with it comes tremendous responsibility, especially when hunting. To ensure you take ethical shots at longer ranges, it is essential to know the exact yardage to an animal, exact wind drift, the exact muzzle velocity at the current climactic conditions, and to what degree the angle of sight will effect bullet drop. For these reasons, we highly discourage taking shots in the field beyond 400 yards or your own capabilities.

Ballistics Reference Sources

Perry-Systems ExBal Ballistic Software - www.perry-systems.com

Barnes Bullets - www.barnesbullets.com
800-574-9200

RCBS - www.rcbs.com
800-533-5000

Sierra Bullets - www.sierrabullets.com
800-223-8799

Nosler - www.nosler.com
800-285-3701

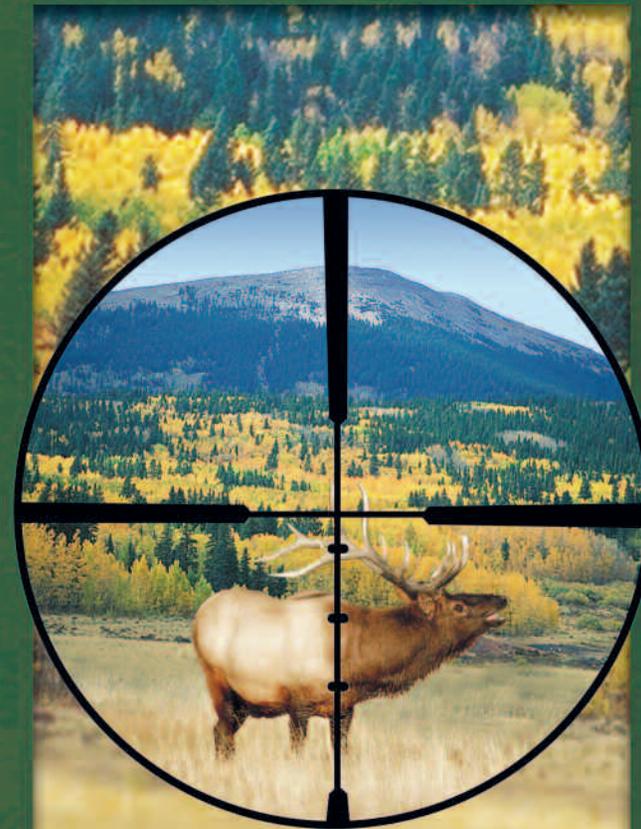
Hornady - www.hornady.com
800-338-3220

Speer - www.speer-bullets.com
866-286-7436

Lee Precision, Inc. - www.leeprecision.com
262-673-3075

Due to the extensive tooling cost of developing the Ballistic Plex reticle, we are unable to accommodate requests for customized reticles for specific cartridges. Burris does not have a staff of ballisticians to figure ballistic tables for you. Please reference various reloading manuals and ballistic software programs for help in this area.

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Ballistic Plex™ Reticle



Table 1



Best Fit Popular Factory Cartridges with 100 Yard Center-of-Reticle Zero

Ballistic Plex	Cartridge---		.223 Rem		.243 Win		.25-06		.260 Rem		.270 Win		.270 Win		7mm-08	
	<i>bullet weight---</i>		55gr	Diff ¹	100gr	Diff ¹	120gr	Diff ¹	140gr	Diff ¹	130gr	Diff ¹	150gr	Diff ¹	140gr	Diff ¹
	<i>muzzle velocity---</i>		3240	from	2960	from	2990	from	2750	from	3060	from	2850	from	2860	from
	Drop	yards	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex
	0.0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-3.1	200	-3	0	-3	+0	-3	+0	-4	-1	-3	+0	-3	+0	-3	+0
	-13.5	300	-13	1	-12	+2	-12	+2	-14	-1	-11	+3	-13	+1	-13	+1
	-30.1	400	-32	-2	-28	+2	-27	+3	-31	-1	-26	+4	-29	+1	-30	+0
	-55.3	500	-66	-11	-53	+2	-51	+4	-58	-3	-49	+6	-55	+0	-54	+1

Ballistic Plex	Cartridge---		7mm Rem Mag		.308 Win		30-06		30-06		30-06		.300 Win Mag		.338 Win Mag	
	<i>bullet weight---</i>		175gr	Diff ¹	150gr	Diff ¹	150gr	Diff ¹	165gr	Diff ¹	180gr	Diff ¹	180gr	Diff ¹	225gr	Diff ¹
	<i>muzzle velocity---</i>		2860	from	2820	from	2910	from	2800	from	2700	from	2960	from	2780	from
	Drop	yards	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex
	0.0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-3.1	200	-3	+0	-4	-0	-3	+0	-4	-1	-4	-1	-3	+0	-4	-1
	-13.5	300	-13	+1	-15	-2	-13	+1	-14	-1	-15	-2	-11	+3	-14	-1
	-30.1	400	-29	+1	-34	-4	-31	-1	-32	-2	-34	-4	-26	+4	-31	-1
	-55.3	500	-53	+2	-64	-9	-59	-4	-59	-4	-64	-9	-48	+7	-56	-1

Best Fit Popular Factory Cartridges with 200 Yard Center-of-Reticle Zero

Ballistic Plex	Cartridge---		.25-06		.270 Win		.270 WSM		7 mm Rem Mag		7 STW		.300 Win Mag		.300 Ultra Mag	
	<i>bullet weight---</i>		100gr	Diff ¹	130gr	Diff ¹	130gr	Diff ¹	140gr	Diff ¹	150gr	Diff ¹	150gr	Diff ¹	180gr	Diff ¹
	<i>muzzle velocity---</i>		3210	from	3060	from	3150	from	3140	from	3250	from	3290	from	3300	from
	Drop	yards	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex	Drop	BallPlex
		100	+1.2	+1.2	+1.4	+1.4	+1.2	+1.2	+1.3	+1.3	+1.1	+1.1	+1.3	+1.3	+1.3	+1.3
	0.0	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-4.5	300	-6	-1	-7	-2	-6	-1	-6	-2	-6	-2	-6	-2	-6	-2
	-18.0	400	-17	+1	-20	-2	-16	+2	-18	+0	-17	+1	-19	-1	-18	+0
	-37.6	500	-36	+2	-41	-3	-36	+2	-36	+2	-34	+4	-39	-1	-36	+2
	-66.4	600	-62	+5	-72	-5	-61	+5	-63	+3	-59	+7	-69	-2	-63	+3

¹Diff from BallPlex = bullet impact above(+) or below(-) point of aim from when using the yardage-corresponding ballistic line.

All data derived from Sierra Infinity™ Ballistics software program using a sampling of several popular factory loaded ammunition with spitzer-type bullets. 0ft Altitude; 59° F temperature; 78% Humidity; Center of Scope 1.6" above center of bore. Your rifle, cartridges, mounting, and environmental conditions may vary. Chronograph testing is recommended.