

Conducted by Dan Reedy

All rounds tested were fired into Clear Ballistics Gel and through FBI style Heavy Clothing barrier purchased through Clear Ballistics unless noted otherwise. 10% Gel, two 16" Clear Ballistics FBI Blocks used for testing.
Competition Electronics ProChronoLTD chronograph used to record all velocities. Chronograph placed 6 feet in front of muzzle.

Load	Gun used	Barrel Length	Caliber	Weight (grains)	Bullet Type	Velocity (FPS)	Penetration (inches)	Diameter (inches)	Recovered weight (grains)	Notes						
Hornady Critical Defense	S&W 351C	1.88-inch	22WMR	45	FTX	1059	22.5	0.22	45.3	Did not recover						
						1123	12.5	0.44	43.7	n/a						
						1127	15.5	0.22	45.1	n/a						
Speer Gold Dot	Avidity Arms PD10	4-inch	30SC	115	JHP	1166	18	0.51	113.7	n/a						
						1147	17.5	0.55	115	180 degree flip						
						1141	14.5	0.5	114.8	180 degree flip						
						1128	14	0.51	114.6	180 degree flip						
						1091	14	0.49	114.4	180 degree flip						
Federal HST	Avidity Arms PD10	4-inch	30SC	100	JHP	1248	18	0.55	98.4	n/a						
						1242	18	0.55	98.5	90 degree flip						
						1240	18.5	0.51	98.5	90 degree flip						
						1238	17	0.55	99.2	90 degree flip						
						1254	32+	n/a	n/a	Did not recover						
						1178	16	0.45	99.5	n/a						
Hornady Critical Defense	Avidity Arms PD10	4-inch	30SC	100	XTP	1183	16	0.48	99.5	90 degree flip						
						1172	15	0.44	99.2	n/a						
						1172	16.5	0.44	99.2	90 degree flip						
						1181	16	0.45	98.8	180 degree flip						
						1096	17	0.6	102.3	90 degree flip						
Federal Punch	Avidity Arms PD10	4-inch	30SC	103	JHP	1098	16	0.6	102.1	180 degree flip						
						1098	15.5	0.55	101.7	90 degree flip						
						1090	17.5	0.6	101.6	90 degree flip						
						1073	17	0.57	100.5	90 degree flip						
						1170	15.5	0.55	113.9	180 degree flip						
Speer Gold Dot	Avidity Arms PD10	5-inch	30SC	115	JHP	1171	16+	n/a	n/a	Not recovered, exited side of block						
						1178	16.5	0.41	113.6	180 degree flip						
						1161	17	0.5	115.1	90 degree flip						
						1156	15	0.5	114.3	180 degree flip						
						1281	19.5	0.57	97.5	90 degree flip						
Federal HST	Avidity Arms PD10	5-inch	30SC	100	JHP	1280	20	0.57	97.5	180 degree flip						
						1272	18	0.55	97.7	90 degree flip						
						1285	18	0.55	97.7	90 degree flip						
						1266	18	0.54	97.5	90 degree flip						
						1208	15	0.5	99.2	90 degree flip						
						1205	16.5	0.5	99.1	180 degree flip						
Hornady Critical Defense	Avidity Arms PD10	5-inch	30SC	100	XTP	1198	15	0.5	99.5	180 degree flip						
						1202	17	0.45	99.6	90 degree flip						
						1200	16.5	0.45	99.5	90 degree flip						
						1119	17	0.6	102.2	90 degree flip						
						1109	17.5	0.55	102.1	90 degree flip						
Federal Punch	Avidity Arms PD10	5-inch	30SC	103	JHP	1114	16.5	0.6	100.9	90 degree flip						
						1117	15.5	0.57	100.8	90 degree flip						
						1126	18	0.6	100.7	180 degree flip						
						End of test data										

I was curious to see how changing to the Heavy Clothing barrier would impact performance when compared to previous Four Layer Denim (4LD) testing conducted with the same variables. Somewhat to my surprise, no rounds performed measurably worse, and some performed better. Of note is Speer Gold Dot, which gave its best performance in 30SC to date. Again, the 4-inch and 5-inch barrels show the potential of .30 Super Carry, giving excellent performance and improved capacity. Hornady Critical Defense seems to be incredibly consistent across barrel lengths and barrier materials, standing as the front runner for defensive use. Manufacturers should take notice, and reevaluate their marketing practices in order to help 30SC thrive.

Velocities per the manufacturer:

Federal HST 100gr: 1250FPS

Hornady Critical Defense 110gr: 1250FPS

Federal Punch 103gr: 1130FPS

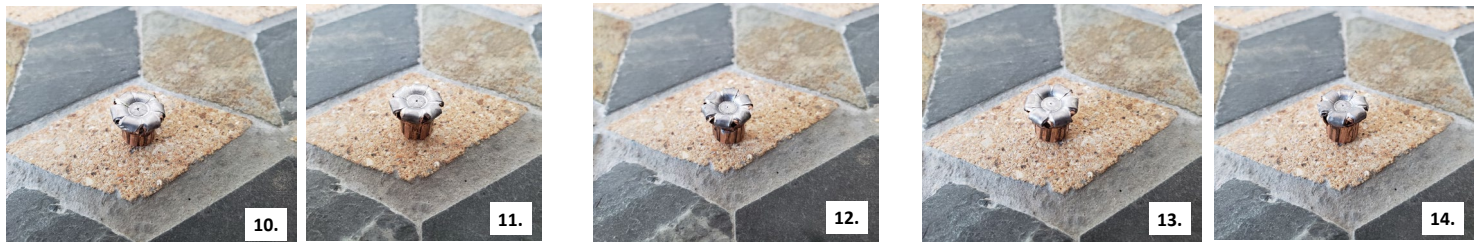
Speer Gold Dot 115gr: 1150FPS



1. Federal HST 30SC, 100gr JHP, 4-inch test barrel
2. Federal HST 30SC, 100gr JHP, 4-inch test barrel
3. Federal HST 30SC, 100gr JHP, 4-inch test barrel
4. Federal HST 30SC, 100gr JHP, 4-inch test barrel



5. Speer Gold Dot 30SC, 115gr JHP, 4-inch test barrel
 6. Speer Gold Dot 30SC, 115gr JHP, 4-inch test barrel
 7. Speer Gold Dot 30SC, 115gr JHP, 4-inch test barrel
 8. Speer Gold Dot 30SC, 115gr JHP, 4-inch test barrel
 9. Speer Gold Dot 30SC, 115gr JHP, 4-inch test barrel



10. Hornady Critical Defense 30SC, 100gr FTX, 4-inch test barrel
 11. Hornady Critical Defense 30SC, 100gr FTX, 4-inch test barrel
 12. Hornady Critical Defense 30SC, 100gr FTX, 4-inch test barrel
 13. Hornady Critical Defense 30SC, 100gr FTX, 4-inch test barrel
 14. Hornady Critical Defense 30SC, 100gr FTX, 4-inch test barrel

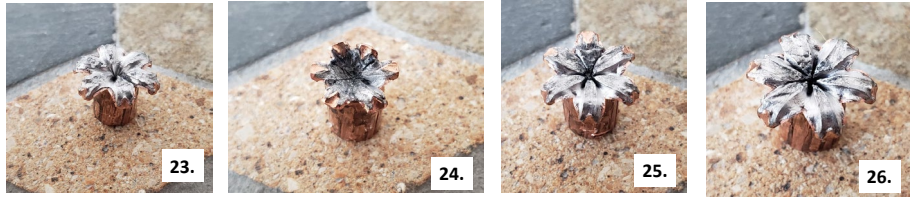


15. Federal Punch 30SC, 103gr JHP, 4-inch test barrel
 16. Federal Punch 30SC, 103gr JHP, 4-inch test barrel
 17. Federal Punch 30SC, 103gr JHP, 4-inch test barrel
 18. Federal Punch 30SC, 103gr JHP, 4-inch test barrel
 19. Federal Punch 30SC, 103gr JHP, 4-inch test barrel

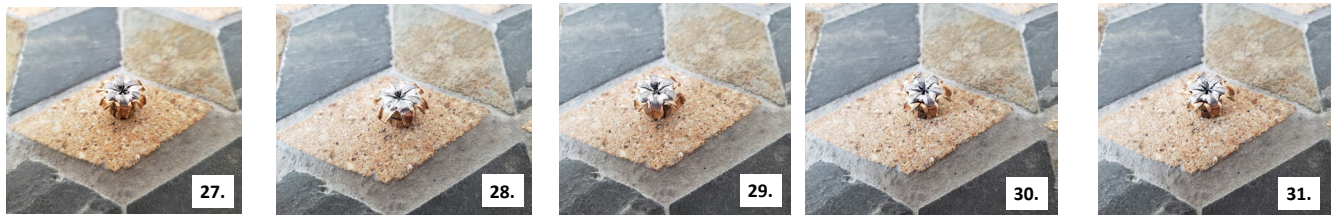


20. Hornady Critical Defense 22WMR, 45gr XTP, 1.88-inch test barrel

- 21. Hornady Critical Defense 22WMR, 45gr XTP, 1.88-inch test barrel
- 22. Hornady Critical Defense 22WMR, 45gr XTP, 1.88-inch test barrel



- 23. Speer Gold Dot 30SC, 115gr JHP, 5-inch test barrel
- 24. Speer Gold Dot 30SC, 115gr JHP, 5-inch test barrel
- 25. Speer Gold Dot 30SC, 115gr JHP, 5-inch test barrel
- 26. Speer Gold Dot 30SC, 115gr JHP, 5-inch test barrel



- 27. Federal HST 30SC, 100gr JHP, 5-inch test barrel
- 28. Federal HST 30SC, 100gr JHP, 5-inch test barrel
- 29. Federal HST 30SC, 100gr JHP, 5-inch test barrel
- 30. Federal HST 30SC, 100gr JHP, 5-inch test barrel
- 31. Federal HST 30SC, 100gr JHP, 5-inch test barrel



- 32. Hornady Critical Defense 30SC, 100gr FTX, 5-inch test barrel
- 33. Hornady Critical Defense 30SC, 100gr FTX, 5-inch test barrel
- 34. Hornady Critical Defense 30SC, 100gr FTX, 5-inch test barrel
- 35. Hornady Critical Defense 30SC, 100gr FTX, 5-inch test barrel
- 36. Hornady Critical Defense 30SC, 100gr FTX, 5-inch test barrel



- 37. Federal Punch 30SC, 103gr JHP, 5-inch test barrel
- 38. Federal Punch 30SC, 103gr JHP, 5-inch test barrel

39. Federal Punch 30SC, 103gr JHP, 5-inch test barrel
40. Federal Punch 30SC, 103gr JHP, 5-inch test barrel
41. Federal Punch 30SC, 103gr JHP, 5-inch test barrel