

You, Your Sights, and the Target, ADTA, November 11, 2011

## ADTA Presentation References

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### An Introduction to Ballistics

The "gun handling" part of the Modern Technique's triad of marksmanship, mindset, and gun handling includes not only knowing how to operate and maintain your firearms safely and efficiently but also knowledge of just how all parts of the "system" work. While a shootist doesn't need to have a degree in the subject, knowing what goes on when you press the trigger contributes to better performance on your part. This page and its related pages, while not a complete course on the subject, are designed to present a good basic foundation in the subject, generate some questions, and thus hopefully improve your shooting.

<http://www.frfrogspad.com/ballisti.htm>

### Introducing PointBlank Version 2 Ballistics Software!

PointBlank is one of the most popular ballistics program on the internet. Completely redesigned in version 2.0, it offers a much easier to use interface with more intuitive database organization and many other exciting features!

<http://www.huntingnut.com/index.php?name=pointblank>

### Ballistics Resource

Welcome to Hornady's Ballistics Resource and Calculator!

Providing an interactive experience at your fingertips, Hornady's online Ballistics Resource is designed to give users in-depth insight to internal, external and terminal ballistics, along with a deeper knowledge of all aspects of ballistics.

<http://www.hornady.com/ballistics-resource>

### Speer Ballistics Pages

#### Gold Dot Personal Protection - 40 S&W

Part Number	Cartridge	Bullet Wt.	Bullet Type	Box Count	Bullet Coefficient
23961	40 S&W	155	GDHP	20	0.123

Velocity (in feet per second)			Energy (in foot pounds)		
Muzzle	50 yards	100 yards	Muzzle	50 yards	100 yards
1200	1063	974	496	389	326

Trajectory if sighted at 25 yards				Test Barrel Length in inches	Usage
25 yards	50 yards	75 yards	100 yards		
0.0	-0.8	-3.6	-8.4	4	1

Usage Key: 1 = Personal Protection | 2 = Training | 3 = Hunting



<http://www.speer-ammo.com/ballistics/ammo.asp>

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45ACPPointBlank.pdf (1 page)

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### Ballistic Calculation Variables

Name:	.45 Cal, Rainier FMJ, 230 grn	Scope Height:	0.60 in
Muzzle Velocity:	820 fps	Target Zero Range:	75 yds
Bullet Weight:	230 grains	Altitude:	500 ft
Ballistic Coef.:	0.160	Temperature:	70 F

  

Ballistics Data							Moving Target Lead Data				
Range	Elevation	Velocity	Energy	ETA	Total Drop	Max Y	10 mph Wind	10 mph	20 mph	30 mph	
yards	inches	ft/s	ft/lbs	sec	inches	inches	inches	ft	ft	ft	
0	-0.60	820	343	0.000	0.00	-0.60	0.00	0.00	0.00	0.00	
50	3.26	787	316	0.186	6.59	1.44	0.56	2.73	5.46	8.19	
100	-6.94	757	292	0.381	27.24	6.81	2.62	5.58	11.17	16.75	
150	-32.44	728	271	0.584	63.19	16.31	6.11	8.56	17.12	25.67	
200	-74.10	701	251	0.793	115.30	30.33	10.81	11.63	23.27	34.90	
250	-133.25	675	233	1.011	184.90	49.39	16.88	14.82	29.64	44.46	
300	-211.98	650	216	1.238	274.08	74.22	24.68	18.15	36.31	54.46	
350	-311.33	626	200	1.474	383.88	105.30	34.00	21.61	43.23	64.84	
400	-432.12	603	186	1.717	515.13	143.08	44.67	25.19	50.37	75.56	
450	-576.49	581	172	1.970	669.94	188.36	56.95	28.89	57.78	86.68	
500	-747.03	560	160	2.233	850.93	242.13	71.08	32.75	65.51	98.26	
550	-945.85	539	148	2.507	1060.20	305.25	87.12	36.77	73.54	110.32	
600	-1173.95	519	138	2.791	1298.76	378.33	104.87	40.93	81.87	122.80	
650	-1433.10	500	127	3.085	1568.35	462.20	124.36	45.24	90.48	135.73	
700	-1724.86	481	118	3.388	1870.56	557.63	145.56	49.69	99.38	149.07	
750	-2058.00	463	109	3.707	2214.15	667.59	169.49	54.37	108.74	163.11	
800	-2433.87	445	101	4.040	2600.47	792.92	195.89	59.25	118.50	177.75	

  

#### Point Blank Range Data

KillZone	Zero Dist	Max Dist
4 in	59 yds	70 yds
6 in	70 yds	84 yds
8 in	79 yds	95 yds
10 in	88 yds	105 yds
12 in	95 yds	114 yds

  

### Cartridge Load Information

Load Name: 45ACP	Mfg Date:	Mfg Lot #:		
Bullet Mfg: Rainier	Powder Mfg: Alliant	Primer Mfg: Rem	Cartridge OAL: 1.260	
Bullet Type: FMJ	Powder Type: Bullseye	Primer Size: LP	Comparator OAL: 0.000	
Bullet Caliber: .45	Powder Weight: 5.0	Primer Type: 2 1/2	Av. Group size: 0.000	
Bullet Weight: 230	Powder Lot #:	Primer Lot #:	Av. Velocity: 820	
Ballistic Coeff: 0.160		Case Mfg:	Moly Coated: No	
		Case Length: 0.000	Crimped: No	

  

#	X Dist	Y Dist	Radius	Velocity
# 1)	0.000	0.000	0.000	0
# 2)	0.000	0.000	0.000	0
# 3)	0.000	0.000	0.000	0
# 4)	0.000	0.000	0.000	0
# 5)	0.000	0.000	0.000	0
# 6)	0.000	0.000	0.000	0
# 7)	0.000	0.000	0.000	0
# 8)	0.000	0.000	0.000	0
# 9)	0.000	0.000	0.000	0
# 10)	0.000	0.000	0.000	0

  

#### Range Notes

  

**Data Generated by PointBlank®, Computer Reloading and Ballistics Software**