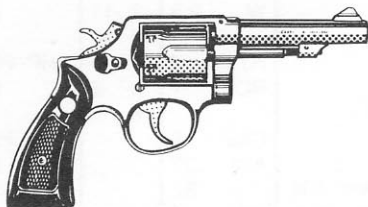


\$100

Revolvers	Physical Data	Aim Time AC Md	Ballistic Data									
			Range in 2 yard hexes									
			10	20	40	70	100	200	300	400		
Smith & Wesson M31 2" Barrel	L 7 W 1.1	1 -15 2 -11 3 -10	LRN PEN .5 .4 .3 .2 .2 .1 DC 1 1 1 1 1 1									
Revolver 32 S&W Long	RT 7 ROF 1	4 -9	LHP PEN .5 .4 .3 .2 .2 .1 DC 1 1 1 1 1 1									
USA	Cap 6 AW .30 SL											
Old Smith and Wesson short barrel police service revolver.	KD 1 SAB 2		BA 46 36 26 18 13 4 TOF 1 2 5 9 13 31									
Smith & Wesson M31 4" Barrel	L 9 W 1.3	1 -15 2 -11 3 -10	LRN PEN .7 .6 .5 .4 .3 .1 DC 1 1 1 1 1 1									
Revolver 32 S&W Long	RT 7 ROF 1	4 -9 5 -8 6 -7	LHP PEN .7 .6 .5 .4 .3 .1 DC 1 1 1 1 1 1									
USA	Cap 6 AW .30 SL											
This old police service revolver fires the underpowered S&W 32 Long cartridge. Long obsolete, it can still be encountered as an almost forgotten home defense firearm tucked away in the chest of drawers. The revolver shown above has a four inch barrel.	KD 2 SAB 3		BA 47 37 27 19 14 4 TOF 1 2 4 7 11 25									
American Derringer Model 1 \$50	L 5 W 1.0	1 -15 2 -11 3 -10	FMJ PEN .9 .8 .6 .4 .3 .1 DC 1 1 1 1 1 1									
Derringer 380 Auto	RT 14 ROF 2	4 -9	JHP PEN .9 .8 .6 .4 .3 .1 DC 2 2 1 1 1 1									
USA	Cap 2 AW .03 Rnd		AP PEN 1.3 1.1 .9 .6 .4 .1 DC 1 1 1 1 1 1									
Small twin shot pocket derringer. It is single action with automatic barrel trigger selection.	KD 2 SAB 3		BA 41 32 23 15 10 1 TOF 1 1 3 6 9 21									
American Derringer Model 1	L 5 W 1.0	1 -15 2 -11 3 -10	JSP PEN 1.4 1.3 1.1 .9 .7 .3 .2 .1 DC 2 2 1 1 1 1 1 1									
Derringer 38 Special	RT 14 ROF 2	4 -9	JHP PEN 1.3 1.2 1.1 .9 .7 .3 .2 .1 DC 2 2 1 1 1 1 1 1									
USA	Cap 2 AW .03 Rnd		AP PEN 2.0 1.8 1.6 1.3 1.0 .5 .2 .1 DC 1 1 1 1 1 1 1 1									
Small stainless steel pocket pistol with over and under barrels. It is single action, sequentially fires each barrel, and comes equipped with a manual safety which blocks the hammer. It is available in over 22 different rifle and pistol calibers, of which the 380 Auto and 38 Special shown here and above are representative.	KD 3 SAB 5		BA 48 41 33 26 21 12 6 3 TOF 1 2 3 6 9 20 33 47									
Smith & Wesson M38 2" Barrel	L 6 W 1.1	1 -15 2 -11 3 -10	LRN PEN .6 .5 .4 .3 .2 .1 DC 1 1 1 1 1 1									
Revolver 38 S&W Special	RT 7 ROF 1	4 -9	LHP PEN .6 .5 .4 .3 .2 .1 DC 1 1 1 1 1 1									
USA	Cap 5 AW .30 SL											
New Smith and Wesson Body-guard Airweight. Note the concealed hammer.	KD 2 SAB 3		BA 48 39 29 21 16 6 TOF 1 2 5 8 13 30									
Smith & Wesson M64 4" Barrel	L 9 W 2.3	1 -17 2 -11 3 -10	LRN PEN .8 .8 .6 .5 .4 .2 .1 DC 1 1 1 1 1 1									
Revolver 38 S&W Special	RT 7 ROF 1	4 -9 5 -8 6 -7	LHP PEN .8 .8 .6 .5 .4 .2 .1 DC 1 1 1 1 1 1									
USA	Cap 6 AW .34 SL											
Old police service revolver in 38 Smith and Wesson Special.	KD 2 SAB 3		BA 49 39 29 21 16 7 1 TOF 1 2 4 7 11 25 41									



Revolvers / Tech Level 13

\$ 250

Revolvers	Physical Data	Aim Time AC Md	Ballistic Data									
			Range in 2 yard hexes									
			10	20	40	70	100	200	300	400		
S&W M36 Chief's Special 2" Barrel	L 7 W 1.4	1 -16 2 -11 3 -10	LRN PEN .6 DC 1	.5 1	.4 1	.3 1	.2 1	.1 1				
Revolver 38 S&W Special	RT 7 ROF 1	4 -9	LHP PEN .6 DC 1	.5 1	.4 1	.3 1	.2 1	.1 1				
USA	Cap 5 AW .34 SL											
This Airweight Chief's Special is a popular small revolver which can easily be concealed.	KD 2 SAB 3		BA 48 TOF 1	39 2	29 5	21 8	16 13	6 30				
Colt Commando 2" Barrel	L 7 W 1.6	1 -16 2 -11 3 -10	JSP PEN 1.1 DC 1	1.0 1	.9 1	.7 1	.5 1	.3 1	.1 1	.1 1		
Revolver 38 Special	RT 7 ROF 1	4 -9 5 -8	JHP PEN 1.1 DC 1	1.0 1	.9 1	.7 1	.5 1	.3 1	.1 1	.1 1		
USA	Cap 6 AW .35 SL		AP PEN 1.6 DC 1	1.5 1	1.3 1	1.0 1	.8 1	.4 1	.2 1	.1 1		
Small, six shot Colt revolver designed for law enforcement undercover operations.	KD 3 SAB 4		BA 51 TOF 1	41 2	31 3	23 6	18 10	9 22	3 37	0 53		
Smith & Wesson M19 4" Barrel	L 10 W 2.4	1 -17 2 -11 3 -10	JSP PEN 1.4 DC 2	1.3 2	1.2 1	.9 1	.8 1	.4 1	.2 1	.1 1		
Revolver 38 Special	RT 7 ROF 1	4 -9 5 -8 6 -7	JHP PEN 1.4 DC 2	1.3 2	1.1 2	.9 1	.7 1	.4 1	.2 1	.1 1		
USA	Cap 6 AW .36 SL		AP PEN 2.1 DC 2	1.9 1	1.7 1	1.4 1	1.1 1	.5 1	.3 1	.1 1		
This is a popular six shot revolver which can fire both 38 Special and 357 Magnum.	KD 3 SAB 4		BA 51 TOF 1	42 1	32 3	24 6	19 8	9 19	4 31	0 45		
Smith & Wesson M19 6" Barrel	L 12 W 2.5	1 -17 2 -11 3 -10	JSP PEN 1.8 DC 3	1.7 2	1.5 2	1.2 1	1.0 1	.5 1	.2 1	.1 1		
Revolver 38 Special	RT 7 ROF 1	4 -9 5 -8 6 -7	JHP PEN 1.8 DC 3	1.6 3	1.4 2	1.2 2	.9 1	.5 1	.2 1	.1 1		
USA	Cap 6 AW .36 SL		AP PEN 2.6 DC 2	2.4 2	2.1 2	1.7 1	1.4 1	.7 1	.3 1	.2 1		
The Smith and Wesson Model 19 is a light framed 357 Magnum revolver designed for law enforcement, which can fire both 38 Special and 357 Magnum ammunition. Data for this entry and the one above are for 38 Special ammunition in either 6 or 4 inch barrels.	KD 4 SAB 5		BA 52 TOF 1	42 1	32 3	24 5	19 7	9 17	4 28	0 40		
Smith & Wesson M19 4" Barrel	L 10 W 2.4	1 -17 2 -11 3 -10	JSP PEN 2.6 DC 4	2.4 4	2.1 3	1.8 3	1.5 2	.8 1	.4 1	.2 1		
Revolver 357 Magnum	RT 7 ROF 1	4 -9 5 -8 6 -7	JHP PEN 2.5 DC 5	2.4 5	2.1 4	1.7 3	1.4 2	.8 1	.4 1	.2 1		
USA	Cap 6 AW .37 SL		AP PEN 3.7 DC 3	3.5 3	3.1 3	2.5 2	2.1 2	1.1 1	.6 1	.3 1		
Data in this entry is for a Smith and Wesson Model 19 Combat Magnum with a 4 inch barrel firing 357 Magnum ammunition. 357 Magnum ammunition provides significant improvement in the weapon's penetration and damage.	KD 4 SAB 5		BA 52 TOF 1	42 1	33 2	25 4	20 6	10 14	4 23	1 33		
Smith & Wesson M19 6" Barrel	L 12 W 2.5	1 -17 2 -11 3 -10	JSP PEN 3.2 DC 5	3.0 5	2.6 4	2.2 3	1.8 3	1.0 1	.5 1	.3 1		
Revolver 357 Magnum	RT 7 ROF 1	4 -9 5 -8 6 -7	JHP PEN 3.1 DC 6	2.9 6	2.6 5	2.2 4	1.8 3	1.0 1	.5 1	.3 1		
USA	Cap 6 AW .37 SL		AP PEN 4.6 DC 4	4.3 3	3.8 3	3.2 3	2.7 2	1.4 1	.8 1	.4 1		
Data in this entry is for an M19 with a 6 inch barrel firing 357 Magnum ammunition. It is a popular police service revolver and is known for its dependability. The 357 Magnum provides high hitting power with reasonable weapon control.	KD 5 SAB 6		BA 53 TOF 0	43 1	33 2	25 4	20 5	10 12	5 20	1 29		

\$ 300

\$300

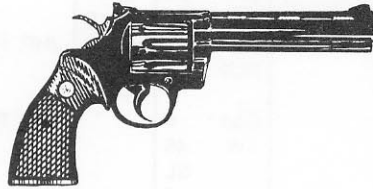
Revolvers

Colt Python
2.5" Barrel

Revolver
357 Magnum

USA

This popular revolver is available in several barrel lengths, including those listed below.



Physical
Data

Aim
Time
AC Md

Ballistic Data

Range in 2 yard hexes
10 20 40 70 100 200 300 400

L 8
W 2.6
RT 7
ROF 1
Cap 6
AW .37
SL
KD 4
SAB 5

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3 -10
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JSP PEN 2.0 1.9 1.7 1.4 1.1 .6 .3 .1
DC 3 3 2 2 1 1 1 1
JHP PEN 2.0 1.9 1.6 1.3 1.1 .6 .3 .1
DC 4 3 3 2 1 1 1 1
AP PEN 2.9 2.8 2.4 2.0 1.6 .8 .4 .2
DC 2 2 2 2 1 1 1 1
BA 52 42 32 24 19 10 4 0
TOF 1 1 3 5 7 16 26 38

Colt Python
4" Barrel

Revolver
357 Magnum

USA

Data in this entry is for a Colt Python with a 4 inch barrel. This weapon is used by many law enforcement officers and is known for its accuracy, hitting power, and rugged construction.

L 9
W 2.8
RT 7
ROF 1
Cap 6
AW .37
SL
KD 4
SAB 5

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JSP PEN 2.6 2.4 2.1 1.8 1.5 .8 .4 .2
DC 4 4 3 3 2 1 1 1
JHP PEN 2.5 2.4 2.1 1.7 1.4 .8 .4 .2
DC 5 5 4 3 2 1 1 1
AP PEN 3.7 3.5 3.1 2.5 2.1 1.1 .6 .3
DC 3 3 3 2 2 1 1 1
BA 52 42 33 25 20 10 4 1
TOF 1 1 2 4 6 14 23 33

Colt Python
6" Barrel

Revolver
357 Magnum

USA

Data here is for the Colt Python in its most common barrel length of 6 inches. The distinctive ventilated rib over the barrel and fine finish makes this one of the most attractive revolvers on the market today. The 6 inch barrel version is the one shown above.

L 11
W 3.0
RT 7
ROF 1
Cap 6
AW .37
SL
KD 5
SAB 5

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JSP PEN 3.2 3.0 2.6 2.2 1.8 1.0 .5 .3
DC 5 5 4 3 3 1 1 1
JHP PEN 3.1 2.9 2.6 2.2 1.8 1.0 .5 .3
DC 6 6 5 4 3 1 1 1
AP PEN 4.6 4.3 3.8 3.2 2.7 1.4 .8 .4
DC 4 3 3 3 2 1 1 1
BA 53 43 33 25 20 10 5 1
TOF 0 1 2 4 5 12 20 29

Colt Python
8" Barrel

Revolver
357 Magnum

USA

This is a long 8 inch barrel version of the Colt Python adequate for metallic silhouette shooting and hunting.

L 13
W 3.2
RT 7
ROF 1
Cap 6
AW .37
SL
KD 5
SAB 6

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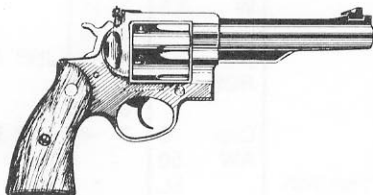
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DC 6 6 5 4 3 1 1 1
JHP PEN 3.6 3.4 3.0 2.5 2.1 1.2 .7 .4
DC 6 6 6 5 4 2 1 1
AP PEN 5.3 5.0 4.4 3.7 3.1 1.7 1.0 .5
DC 4 4 4 3 3 1 1 1
BA 53 43 33 25 20 10 5 1
TOF 0 1 2 3 5 11 19 27

Ruger Redhawk
5.5" Barrel

Revolver
357 Magnum

USA

Sturdy Ruger double action revolver in 357 Magnum. It is also available with 7.5" barrel.



L 11
W 3.5
RT 7
ROF 1
Cap 6
AW .37
SL
KD 5
SAB 5

1 -18
2 -12
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JSP PEN 3.0 2.8 2.5 2.1 1.7 .9 .5 .3
DC 5 5 4 3 3 1 1 1
JHP PEN 3.0 2.8 2.5 2.1 1.7 .9 .5 .3
DC 6 5 5 4 3 1 1 1
AP PEN 4.4 4.1 3.6 3.0 2.5 1.4 .7 .4
DC 4 3 3 3 2 1 1 1
BA 52 43 33 25 20 10 5 1
TOF 0 1 2 4 6 13 21 30

Smith & Wesson M57
4" Barrel

Revolver
41 Magnum

USA

Heavy framed S & W Model 57. Other barrel lengths are on the following page.



Revolvers / Tech Level 13

\$ 350

Revolvers	Physical Data	Aim Time AC Md	Ballistic Data									
			Range in 2 yard hexes									
			10	20	40	70	100	200	300	400		
Smith & Wesson M57 6" Barrel	L 11 W 3.3	1 -18 2 -11 3 -10	JSP PEN 4.4 DC 7	4.2 7	3.7 7	3.1 6	2.7 5	1.5 2	.9 1	.5 1		
Revolver 41 Magnum	RT 7 ROF 1	4 -9 5 -8 6 -7	JHP PEN 4.4 DC 8	4.1 8	3.7 8	3.1 7	2.6 6	1.5 3	.8 1	.5 1		
USA	Cap 6 AW .45 SL		AP PEN 6.4 DC 6	6.0 6	5.4 5	4.6 4	3.8 4	2.2 2	1.2 1	.7 1		
Heavy frame S&W revolver considered by many the best of the large caliber Magnums.	KD 7 SAB 7		BA 51 TOF 0	41 1	32 2	24 3	19 5	9 11	3 18	-1 25		



Smith & Wesson M57 8.375" Barrel	L 14 W 3.5	1 -18 2 -11 3 -10	JSP PEN 5.2 DC 8	5.0 8	4.4 7	3.8 7	3.2 6	1.9 3	1.1 1	.6 1		
Revolver 41 Magnum	RT 7 ROF 1	4 -9 5 -8 6 -7	JHP PEN 5.2 DC 8	4.9 8	4.4 8	3.7 7	3.2 6	1.8 4	1.1 1	.6 1		
USA	Cap 6 AW .45 SL		AP PEN 7.6 DC 6	7.2 6	6.4 6	5.5 5	4.8 4	2.7 3	1.6 1	.9 1		
Long barrel version of the M57. This weapon is ideal for hunting and magnum shooting. The frame is identical to that used in the 44 Magnum resulting in a weapon which can withstand a lifetime of shooting.	KD 8 SAB 7		BA 51 TOF 0	42 1	32 2	24 3	19 4	9 10	3 16	0 23		



Smith & Wesson M29 4" Barrel	L 9 W 3.0	1 -18 2 -11 3 -10	JSP PEN 3.4 DC 7	3.2 6	2.8 6	2.4 5	2.0 4	1.1 1	.8 1	.3 1		
Revolver 44 Magnum	RT 7 ROF 1	4 -9 5 -8 6 -7	JHP PEN 3.3 DC 7	3.2 7	2.8 7	2.3 6	1.9 4	1.1 1	.6 1	.3 1		
USA	Cap 6 AW .50 SL		AP PEN 4.9 DC 5	4.6 5	4.1 4	3.4 3	2.8 3	1.5 1	.8 1	.5 1		
Powerful 44 Magnum revolver. Other barrel lengths are given below.	KD 7 SAB 7		BA 50 TOF 0	40 1	30 2	22 4	17 6	7 12	2 21	-2 30		

\$ 400

Smith & Wesson M29 6" Barrel	L 11 W 3.3	1 -18 2 -11 3 -10	JSP PEN 4.2 DC 7	3.9 7	3.5 7	2.9 6	2.5 5	1.4 2	.8 1	.4 1		
Revolver 44 Magnum	RT 7 ROF 1	4 -9 5 -8 6 -7	JHP PEN 4.1 DC 8	3.9 8	3.5 7	2.9 6	2.4 6	1.4 2	.8 1	.4 1		
USA	Cap 6 AW .50 SL		AP PEN 6.0 DC 6	5.7 6	5.1 5	4.3 4	3.6 4	2.0 2	1.1 1	.6 1		
This 6 inch barrel revolver provides excellent hitting power in a relatively small package. Its heavy recoil and muzzle blast have limited its popularity, but it is an excellent hunting handgun. The 6 inch barrel version is the one shown above.	KD 8 SAB 7		BA 50 TOF 0	40 1	30 2	22 3	17 5	7 11	2 18	-2 26		

Smith & Wesson M29 8.375" Barrel	L 14 W 3.5	1 -18 2 -11 3 -10	JSP PEN 4.9 DC 8	4.7 8	4.2 7	3.5 7	3.0 6	1.7 3	1.0 1	.6 1		
Revolver 44 Magnum	RT 7 ROF 1	4 -9 5 -8 6 -7	JHP PEN 4.9 DC 8	4.6 8	4.1 8	3.5 7	2.9 7	1.7 3	1.0 1	.5 1		
USA	Cap 6 AW .50 SL		AP PEN 7.2 DC 7	6.8 6	6.0 6	5.1 5	4.3 4	2.5 2	1.4 1	.8 1		
This 8 inch barrel version of the Model 29 was made famous by "Dirty Harry". It was then, and still is, one of the most powerful handguns in the world. It makes an excellent hunting handgun and is very accurate.	KD 9 SAB 8		BA 50 TOF 0	40 1	30 2	23 3	17 5	8 10	2 17	-2 24		

\$ 750

454 Casull 7.5" Barrel	L 13 W 3.5	1 -18 2 -11 3 -10	JSP PEN 7.1 DC 9	6.8 9	6.2 8	5.4 8	4.7 9	3.0 7	1.9 4	1.2 2		
Revolver 454 Casull	RT 20 ROF 2	4 -9 5 -8 6 -7	JHP PEN 7.0 DC 9	6.7 9	6.1 9	5.3 9	4.6 9	3.0 8	1.9 5	1.2 2		
USA	Cap 5 AW .05 SL		AP PEN 10 DC 7	9.8 7	9.0 7	7.8 7	6.8 8	4.3 6	2.8 3	1.8 1		
New large caliber magnum with even more hitting power than the 44 Magnum.	KD 12 SAB 9		BA 53 TOF 0	44 1	34 2	26 3	21 4	11 9	5 15	2 21		



Automatic Pistols			Physical Data	Aim Time AC Md	Ballistic Data Range in 2 yard hexes 10 20 40 70 100 200 300 400										
Beretta M21 \$100	Automatic Pistol 22 Long Rifle	Italy		L 5 W .7 3 -10	1 -14 2 -11 3 -10	LRN	PEN	.9	.8	.7	.5	.3	.1		
				RT 5 ROF *	4 -9 5 -8	LHP	PEN	.9	.8	.7	.5	.3	.1		
				Cap 8 AW .23 Mag											
				KD 1 SAB 2		BA	48	40	32	24	18	8			
						TOF	1	1	3	5	8	17			
Smith & Wesson M41 \$150	Automatic Pistol 22 Long Rifle	USA		L 12 W 2.8 3 -10	1 -18 2 -11 3 -10	LRN	PEN	1.2	1.1	.9	.7	.5	.1		
				RT 5 ROF *	4 -9 5 -8 6 -7 7 -6	LHP	PEN	1.2	1.1	.9	.7	.5	.1		
				Cap 10 AW .25 Mag											
				KD 1 SAB 1		BA	48	40	32	25	20	9			
						TOF	1	1	2	5	7	15			
Beretta M20 \$65	Automatic Pistol 25 Automatic	Italy		L 5 W .8 3 -10	1 -15 2 -11 3 -10	FMJ	PEN	.7	.6	.5	.3	.1			
				RT 5 ROF *	4 -9 5 -8	JHP	PEN	.7	.6	.5	.3	.1			
				Cap 8 AW .27 Mag		AP	PEN	1.0	.9	.7	.4	.2			
				KD 1 SAB 2		BA	46	38	29	22	13				
						TOF	1	2	3	6	12				
Beretta M70 \$125	Automatic Pistol 380 Auto	Italy		L 7 W 1.6 3 -10	1 -16 2 -11 3 -10	FMJ	PEN	1.0	.9	.7	.5	.3	.1		
				RT 5 ROF *	4 -9 5 -8	JHP	PEN	.9	.8	.7	.5	.3	.1		
				Cap 7 AW .31 Mag		AP	PEN	1.4	1.2	1.0	.7	.5	.1		
				KD 2 SAB 3		BA	41	32	23	15	10	1			
						TOF	1	1	3	6	8	20			
Walther PPK / S \$125	Automatic Pistol 380 Auto	W Germany		L 6 W 1.6 3 -10	1 -16 2 -11 3 -10	FMJ	PEN	1.0	.9	.7	.5	.3	.1		
				RT 4 ROF *	4 -9 5 -8	JHP	PEN	1.0	.9	.7	.5	.3	.1		
				Cap 7 AW .34 Mag		AP	PEN	1.4	1.3	1.0	.7	.5	.1		
				KD 2 SAB 3		BA	41	32	23	15	10	1			
						TOF	1	1	3	5	8	20			
SIG 230 \$125	Automatic Pistol 380 Auto	Switzerland		L 7 W 1.2 3 -10	1 -15 2 -11 3 -10	FMJ	PEN	1.1	.9	.7	.5	.4	.1		
				RT 5 ROF *	4 -9 5 -8	JHP	PEN	1.0	.9	.7	.5	.3	.1		
				Cap 7 AW .33 Mag		AP	PEN	1.5	1.3	1.0	.7	.5	.1		
				KD 2 SAB 3		BA	41	32	23	15	10	1			
						TOF	1	1	3	5	8	19			

This small double action pistol is easily concealed and fires a reasonably powerful 22 Long Rifle cartridge.

The Smith & Wesson Model 41 is an excellent target pistol. Data here is for standard 22 Long Rifle ammunition.

Small, double action Beretta pistol which can be easily concealed. It fires the 25 Auto centerfire cartridge.

Small double action Beretta pistol in 380 Auto. It provides adequate hitting power in a small package.

Popular Walther PPK in 380 Auto. This is one of the world's most popular pocket pistols.

New Sig / Sauer pistol of light, compact design with a very smooth double action.

Automatic Pistols / Tech Level 13

\$350

Automatic Pistols

Glock Model 17

Automatic Pistol
9mm Parabellum

Austria

Very light, large capacity automatic making use of a plastic frame and parts to minimize weight.



Physical
Data

Aim
Time
AC Md

Ballistic Data

Range in 2 yard hexes

10 20 40 70 100 200 300 400

L 7
W 1.8
RT 4
ROF *
Cap 17
AW .55
Mag
KD 3
SAB 4

1 -16
2 -11
3 -10
4 -9
5 -8
6 -7

FMJ	PEN	1.9	1.8	1.5	1.1	.9	.4	.1	.1
DC		3	3	2	2	1	1	1	1
JHP	PEN	1.9	1.7	1.4	1.1	.8	.3	.1	.1
DC		4	4	3	2	1	1	1	1
AP	PEN	2.7	2.5	2.1	1.6	1.2	.5	.2	.1
DC		3	2	2	2	1	1	1	1
BA		45	37	28	21	16	6	1	-2
TOF		1	1	2	4	6	15	25	36

Heckler & Koch P9S

Automatic Pistol
9mm Parabellum

W Germany

New Heckler and Koch pistol with sliding delayed roller-locked recoil system.



L 8
W 2.2
RT 4
ROF *
Cap 9
AW .41
Mag
KD 3
SAB 4

1 -17
2 -11
3 -10
4 -9
5 -8
6 -7

FMJ	PEN	2.0	1.8	1.5	1.2	.9	.4	.2	.1
DC		3	3	2	2	1	1	1	1
JHP	PEN	1.9	1.7	1.4	1.1	.8	.3	.1	.1
DC		4	4	3	2	1	1	1	1
AP	PEN	2.8	2.5	2.1	1.6	1.2	.5	.2	.1
DC		3	2	2	2	1	1	1	1
BA		45	37	28	21	16	6	1	-2
TOF		1	1	2	4	6	15	25	36

SIG 220

Automatic Pistol
9mm Parabellum

Switzerland

Light, well made SIG known for its balance and dependability.



L 8
W 1.9
RT 5
ROF *
Cap 9
AW .41
Mag
KD 3
SAB 4

1 -16
2 -11
3 -10
4 -9
5 -8
6 -7

FMJ	PEN	2.1	1.9	1.6	1.2	.9	.4	.2	.1
DC		3	3	2	2	1	1	1	1
JHP	PEN	2.0	1.8	1.5	1.2	.9	.4	.2	.1
DC		4	4	3	2	2	1	1	1
AP	PEN	2.9	2.7	2.2	1.7	1.3	.5	.2	.1
DC		3	3	2	2	1	1	1	1
BA		45	37	28	21	16	6	1	-2
TOF		1	1	2	4	6	14	24	35

Smith & Wesson M439

Automatic Pistol
9mm Parabellum

USA

Popular Smith and Wesson pistol used by many police forces.



L 7
W 2.1
RT 4
ROF *
Cap 8
AW .38
Mag
KD 3
SAB 4

1 -17
2 -11
3 -10
4 -9
5 -8

FMJ	PEN	2.0	1.8	1.5	1.2	.9	.4	.2	.1
DC		3	3	2	2	1	1	1	1
JHP	PEN	1.9	1.7	1.4	1.1	.8	.3	.1	.1
DC		4	4	3	2	1	1	1	1
AP	PEN	2.8	2.5	2.1	1.6	1.2	.5	.2	.1
DC		3	2	2	2	1	1	1	1
BA		45	37	28	21	16	6	1	-2
TOF		1	1	2	4	6	15	25	36

Smith & Wesson M459

Automatic Pistol
9mm Parabellum

USA

Large capacity version of the Model 439. This pistol is also used by many police forces.



L 7
W 2.1
RT 4
ROF *
Cap 14
AW .58
Mag
KD 3
SAB 4

1 -17
2 -11
3 -10
4 -9
5 -8

FMJ	PEN	2.0	1.8	1.5	1.2	.9	.4	.2	.1
DC		3	3	2	2	1	1	1	1
JHP	PEN	1.9	1.7	1.4	1.1	.8	.3	.1	.1
DC		4	4	3	2	1	1	1	1
AP	PEN	2.8	2.5	2.1	1.6	1.2	.5	.2	.1
DC		3	2	2	2	1	1	1	1
BA		45	37	28	21	16	6	1	-2
TOF		1	1	2	4	6	15	25	36

SIG 220

Automatic Pistol
38 Super

Switzerland

Light and powerful double action pistol in 38 Super. This pistol is similar to the new 10mm automatics.



L 8
W 1.9
RT 5
ROF *
Cap 9
AW .41
Mag
KD 3
SAB 4

1 -16
2 -11
3 -10
4 -9
5 -8
6 -7

FMJ	PEN	2.3	2.1	1.8	1.4	1.1	.5	.2	.1
DC		3	3	3	2	1	1	1	1
JHP	PEN	2.2	2.1	1.7	1.3	1.0	.4	.2	.1
DC		5	5	4	3	2	1	1	1
AP	PEN	3.3	3.0	2.6	2.0	1.5	.7	.3	.1
DC		3	3	3	2	1	1	1	1
BA		46	37	28	21	16	7	1	-2
TOF		0	1	2	4	6	13	22	32

\$450

Automatic Pistols

Llama Omni

Automatic Pistol
45 ACP

Spain

New Llama double action large
frame 45.



Physical Data	Aim Time AC Mld	Ballistic Data										
		Range in 2 yard hexes										
L 8	1 -18	FMJ	PEN	1.6	1.5	1.2	1.0	.8	.3	.2	.1	
W 2.8	2 -11	DC		3	3	2	1	1	1	1	1	
	3 -10											
RT 4	4 -9	JHP	PEN	1.5	1.4	1.2	.9	.7	.3	.1	.1	
ROF *	5 -8	DC		4	4	3	2	1	1	1	1	
	6 -7											
Cap 7		AP	PEN	2.2	2.1	1.8	1.4	1.1	.5	.2	.1	
AW .60		DC		3	3	2	1	1	1	1	1	
Mag												
KD 5		BA		45	37	28	21	16	6	1	-3	
SAB 5		TOF		1	1	3	5	8	19	31	45	

Colt Gold Cup

Automatic Pistol
45 ACP

USA

Colt Gold Cup National Match
pistol. Data is for standard mili-
tary ball ammunition.



L 8	1 -18	FMJ	PEN	1.7	1.6	1.3	1.1	.8	.4	.2	.1	
W 2.8	2 -11	DC		3	3	2	2	1	1	1	1	
	3 -10											
RT 4	4 -9	JHP	PEN	1.6	1.5	1.3	1.0	.8	.4	.2	.1	
ROF *	5 -8	DC		5	4	3	2	1	1	1	1	
	6 -7											
Cap 7		AP	PEN	2.4	2.2	1.9	1.5	1.2	.5	.2	.1	
AW .70		DC		3	3	2	2	1	1	1	1	
Mag												
KD 5		BA		45	37	28	21	16	6	1	-3	
SAB 5		TOF		1	1	3	5	8	18	30	43	

Detonics 45

Automatic Pistol
45 ACP

USA

Small frame, stainless steel De-
tonics Combat Master.



L 7	1 -17	FMJ	PEN	1.4	1.3	1.1	.9	.7	.3	.1	.1	
W 2.1	2 -11	DC		3	2	2	1	1	1	1	1	
	3 -10											
RT 4	4 -9	JHP	PEN	1.4	1.3	1.1	.8	.7	.3	.1	.1	
ROF *	5 -8	DC		3	3	2	1	1	1	1	1	
Cap 6		AP	PEN	2.0	1.8	1.6	1.2	1.0	.4	.2	.1	
AW .52		DC		3	2	2	1	1	1	1	1	
Mag												
KD 5		BA		45	37	28	20	15	6	1	-3	
SAB 5		TOF		1	1	3	6	9	20	33	48	

Smith & Wesson M645

Automatic Pistol
45 ACP

USA

New Smith and Wesson double
action 45 automatic with stain-
less steel frame.



L 9	1 -17	FMJ	PEN	1.7	1.6	1.3	1.1	.8	.4	.2	.1	
W 2.7	2 -11	DC		3	3	2	2	1	1	1	1	
	3 -10											
RT 4	4 -9	JHP	PEN	1.6	1.5	1.3	1.0	.8	.4	.2	.1	
ROF *	5 -8	DC		5	4	3	2	1	1	1	1	
	6 -7											
Cap 8		AP	PEN	2.4	2.2	1.9	1.5	1.2	.5	.2	.1	
AW .70		DC		3	3	2	2	1	1	1	1	
Mag												
KD 5		BA		45	37	28	21	16	6	1	-3	
SAB 5		TOF		1	1	3	5	8	18	30	43	

LAR Grizzly Win Mag Mk 1 \$600

Automatic Pistol
9mm Winchester Magnum

USA

Powerful automatic whose de-
sign is based on the Colt 45.
The 9mm Win Mag cartridge
was designed in 1984.



L 10	1 -18	FMJ	PEN	3.7	3.4	2.9	2.3	1.8	.9	.4	.2	
W 3.2	2 -11	DC		5	5	4	3	3	1	1	1	
	3 -10											
RT 4	4 -9	JHP	PEN	3.5	3.3	2.8	2.2	1.8	.8	.4	.2	
ROF *	5 -8	DC		7	7	6	5	4	1	1	1	
	6 -7											
Cap 8		AP	PEN	5.2	4.8	4.1	3.3	2.6	1.2	.6	.3	
AW .70		DC		5	4	4	3	3	1	1	1	
Mag												
KD 4		BA		46	38	29	21	17	7	2	-2	
SAB 5		TOF		0	1	2	3	5	10	17	25	

LAR Grizzly Win Mag Mk1 \$600

Automatic Pistol
45 Winchester Magnum

The LAR Grizzly Magnum has been designed to handle the powerful 45 Winchester
Magnum cartridge. With a conversion kit, it can be fitted to handle the 9mm Winchester
Magnum cartridge as well. The Grizzly is a single action automatic patterned after the
Government 45. It has a blued steel frame, ambidextrous safety, and adjustable sights.
Like other magnum automatics, it is a little heavy for a standard duty side-arm, but makes
an excellent hunting and survival handgun.

L 10	1 -18	FMJ	PEN	4.6	4.3	3.8	3.1	2.6	1.4	.7	.4	
W 3.3	2 -11	DC		7	6	7	6	6	3	1	1	
	3 -10											
RT 4	4 -9	JHP	PEN	4.4	4.1	3.6	3.0	2.5	1.3	.7	.4	
ROF *	5 -8	DC		8	8	9	8	7	3	1	1	
	6 -7											
Cap 7		AP	PEN	6.4	6.0	5.3	4.4	3.7	1.9	1.0	.6	
AW .75		DC		6	6	7	6	6	3	1	1	
Mag												
KD 8		BA		46	38	30	22	17	8	2	-1	
SAB 7		TOF		0	1	2	3	5	10	17	25	

Automatic Pistols / Tech Level 13

\$ 500

Automatic Pistols

Bren 10mm

Automatic Pistol
10mm Auto

USA

The 10mm cartridge is being evaluated by the FBI. Data is for hot commercial ammo rather than FBI recommended load.

Physical
DataAim
Time
AC Md

Ballistic Data

Range in 2 yard hexes

10 20 40 70 100 200 300 400

L 8
W 2.8
RT 4
ROF *
Cap 11
AW .75
Mag
KD 5
SAB 6

1 -17
2 -11
3 -10
4 -9
5 -8
6 -7

FMJ PEN 2.9 2.8 2.4 2.0 1.6 .9 .4 .2
DC 4 4 4 3 2 1 1 1
JHP PEN 2.8 2.6 2.3 1.9 1.6 .8 .4 .2
DC 6 6 6 4 3 1 1 1
AP PEN 4.1 3.9 3.4 2.8 2.3 1.2 .6 .3
DC 4 4 4 3 2 1 1 1
BA 48 40 32 25 20 11 5 2
TOF 1 1 2 4 6 13 22 31

Desert Eagle

\$ 600

Automatic Pistol
357 Magnum

Israel

This gas operated automatic uses standard 357 Magnum cartridges.



L 10
W 4.1
RT 4
ROF *
Cap 9
AW .70
Mag
KD 5
SAB 5

1 -19
2 -12
3 -10
4 -9
5 -8
6 -7
7 -6

FMJ PEN 3.8 3.6 3.2 2.7 2.3 1.3 .7 .4
DC 5 4 4 3 3 1 1 1
JHP PEN 3.7 3.5 3.1 2.6 2.2 1.2 .7 .4
DC 7 6 6 5 4 2 1 1
AP PEN 5.4 5.1 4.5 3.8 3.2 1.8 1.0 .6
DC 4 4 4 3 3 1 1 1
BA 49 42 34 27 22 13 8 4
TOF 0 1 2 3 5 11 19 27

Desert Eagle

\$ 750

Automatic Pistol
44 Magnum

Israel

The 44 Magnum version of the Desert Eagle is one of the new entries in the giant automag category. Based on the proven 357 Desert Eagle, it is produced by Israel Military Industries and fires standard 44 Magnum ammunition. The Desert Eagle is a rugged gas operated automatic using a multilug rotary bolt.

L 10
W 4.6
RT 4
ROF *
Cap 8
AW .80
Mag
KD 8
SAB 6

1 -19
2 -12
3 -10
4 -9
5 -8
6 -7
7 -6

FMJ PEN 4.2 3.9 3.5 2.9 2.4 1.3 .7 .4
DC 7 7 7 6 5 2 1 1
JHP PEN 4.0 3.7 3.3 2.7 2.3 1.2 .7 .4
DC 9 9 8 8 7 3 1 1
AP PEN 5.9 5.5 4.9 4.0 3.4 1.8 1.0 .5
DC 7 7 7 6 5 2 1 1
BA 47 39 30 23 18 8 3 -1
TOF 0 1 2 3 5 11 18 27

44 Automag

\$ 1000

Automatic Pistol
44 Automag

USA

This powerful automatic has been discontinued. It requires its own custom ammunition, and the data given is for hot loads.



L 11
W 3.9
RT 5
ROF *
Cap 7
AW .65
Mag
KD 9
SAB 7

1 -19
2 -12
3 -10
4 -9
5 -8
6 -7
7 -6

FMJ PEN 6.0 5.7 5.1 4.4 3.7 2.2 1.3 .7
DC 7 7 7 6 6 3 2 1
JHP PEN 5.8 5.5 4.9 4.2 3.6 2.1 1.2 .7
DC 9 8 8 8 7 5 2 1
AP PEN 8.5 8.1 7.2 6.2 5.2 3.1 1.8 1.0
DC 7 7 7 6 5 3 2 1
BA 48 40 32 25 20 11 5 2
TOF 0 1 2 3 4 9 15 22

Remington XP-100

\$ 500

Bolt Action Pistol
221 Remington

USA

This Remington bolt action pistol fires the 221 Remington "Fireball".



L 17
W 3.8
RT 10
ROF -
Cap 1
AW .02
Rnd
KD 3
SAB 4

1 -19
2 -12
3 -10
4 -9
5 -8
6 -7

FMJ PEN 10 9.5 8.5 7.3 6.2 3.7 2.2 1.3
DC 5 5 4 4 4 3 2 1
JHP PEN 9.6 9.1 8.2 7.0 5.9 3.5 2.1 1.2
DC 7 7 6 6 6 4 3 1
AP PEN 14 13 12 10 8.7 5.2 3.0 1.8
DC 5 5 4 4 3 3 2 1
BA 59 50 41 33 28 19 13 9
TOF 0 0 1 2 3 6 9 13

Remington XP-100s

\$ 500

Bolt Action Pistol
7mm BR Remington

USA

Long barrel XP-100 ideal for metallic silhouette shooting.

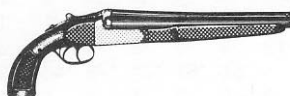


L 21
W 4.2
RT 10
ROF -
Cap 1
AW .04
Rnd
KD 4
SAB 4

1 -19
2 -12
3 -10
4 -9
5 -8
6 -7

FMJ PEN 4.1 3.9 3.6 3.2 2.8 1.9 1.3 .8
DC 3 3 3 3 2 1 1 1
JHP PEN 3.9 3.7 3.4 3.1 2.7 1.8 1.2 .8
DC 5 5 4 4 3 2 1 1
AP PEN 5.7 5.5 5.1 4.5 4.0 2.6 1.8 1.2
DC 3 3 3 2 2 1 1 1
BA 69 61 52 45 40 30 25 21
TOF 1 1 2 4 6 12 19 28

Shotguns / Tech Level 13

Shotguns	Physical Data		Aim Time	Ballistic Data																
			AC Md	Target Range in 2 Yard Hexes																
				1	2	4	6	8	10	15	20	30	40	80						
Remington M870 Bushmaster / 12 Gauge Magnum / USA \$300	L 40 W 7.8	1 -22 2 -12 3 -9	1 -22 2 -12 3 -9	Slug	PEN 3.8 DC 9	3.8 9	3.7 9	3.6 9	3.5 9	3.5 9	3.4 9	3.2 9	2.9 8	2.7 8	1.9 7					
	RT 22 ROF 2	4 -7 5 -5 6 -4	4 -7 5 -5 6 -4	Shot (00)	PEN 2.5 DC 10 SALM -14	1.7 4 -9	1.6 4 -4	1.6 3 -1	1.5 3 1	1.5 3 3	1.4 3 6	1.3 3 8	1.1 2 11	1.0 2 13	.6 1 18					
	Cap 5 AW .16 Rnd	7 -3 8 -2	7 -3 8 -2	15	BPHC PR	*14 .0	*13 .0	*11 .1	*7 .1	*4 .1	*2 .2	*1 .2	49 .3	27 .5	6 1.0					
This is a Remington Model 870 made to fire rifled slugs and buckshot. It has rifle sights.	KD 15 SAB 9				BA 61 TOF 0	52 0	42 0	36 0	32 0	29 0	23 1	19 1	13 1	9 2	-1 4					
Ithaca LAPD / 12 Gauge Pump Action Shotgun / USA \$300	L 38 W 7.2	1 -22 2 -11 3 -9	1 -22 2 -11 3 -9	Slug	PEN 3.6 DC 9	3.6 9	3.5 9	3.5 9	3.4 9	3.4 9	3.2 9	3.1 9	2.8 8	2.6 8	1.8 6					
	RT 22 ROF 2	4 -7 5 -5 6 -4	4 -7 5 -5 6 -4	Shot (00)	PEN 1.6 DC 10 SALM -13	1.6 4 -8	1.6 3 -3	1.5 3 0	1.4 3 2	1.4 3 4	1.3 3 7	1.2 3 9	1.1 2 11	.9 2 14	.5 1 19					
	Cap 5 AW .13 Rnd	7 -3 8 -2	7 -3 8 -2	12	BPHC PR	*11 .0	*10 .0	*8 .1	*5 .1	*3 .1	*1 .2	74 .3	32 .4	17 .5	3 1.1					
Ithaca Model 37 DS designed for the Los Angeles Police Department. It has rifle sights.	KD 15 SAB 9				BA 61 TOF 0	52 0	42 0	36 0	32 0	29 0	23 1	19 1	13 1	9 2	-1 4					
Remington Model 870 / 410 Gauge Pump Action Shotgun \$150	L 48 W 6.5	1 -21 2 -11 3 -8	1 -21 2 -11 3 -8	Slug	PEN 3.1 DC 7	3.0 7	2.9 7	2.9 7	2.8 7	2.7 7										
	RT 22 ROF 2	4 -6 5 -5 6 -4	4 -6 5 -5 6 -4	Bird (#4)	PEN .7 DC 8 SALM -15	.2 1 -10	.2 1 -5	.1 1 -2	.1 1 0	.1 1 1										
	Cap 5 AW .05 Rnd			92	BPHC PR	*86 .0	*80 .0	*73 .1	*51 .1	*39 .1										
Popular small gauge squirrel and rabbit gun.	KD 4 SAB 4				BA 59 TOF 0	49 0	39 0	33 0	29 0	26 0										
Remington Model 870 / 20 Gauge Pump Action Shotgun \$175	L 48 W 7.0	1 -21 2 -11 3 -8	1 -21 2 -11 3 -8	Slug	PEN 4.7 DC 9	4.7 9	4.6 9	4.5 9	4.4 9	4.4 9										
	RT 22 ROF 2	4 -7 5 -5 6 -4	4 -7 5 -5 6 -4	Bird (#4)	PEN 1.2 DC 8 SALM -15	.2 1 -10	.2 1 -5	.1 1 -2	.1 1 0	.1 1 1										
	Cap 5 AW .09 Rnd			152	BPHC PR	*1H .0	*1H .0	*1H .1	*82 .1	*65 .1										
Light pump action shotgun ideal for hunting upland bird.	KD 13 SAB 9				BA 63 TOF 0	53 0	43 0	37 0	33 0	30 0										
Ithaca Mag-10 Roadblocker / 10 Gauge Magnum / USA \$500	L 43 W 11.3	1 -24 2 -14 3 -9	1 -24 2 -14 3 -9	Slug	PEN 4.8 DC 10	4.7 10	4.6 10	4.6 10	4.5 10	4.4 10	4.2 10	4.1 9	3.7 9	3.4 9	2.5 8					
	RT 16 ROF *	4 -7 5 -5 6 -4	4 -7 5 -5 6 -4	Shot (#4)	PEN 2.3 DC 10 SALM -12	1.0 2 -7	.9 2 -2	.9 2 1	.8 2 3	.8 2 4	.7 1 7	.6 1 9	.5 1 12	.4 1 14	.1 1 19					
	Cap 3 AW .20 Rnd			54	BPHC PR	*49 .0	*43 .0	*30 .1	*20 .1	*11 .1	*5 .2	*3 .3	*1 .4	67 .6	15 1.2					
10 gauge magnum, gas operated semi-automatic shotgun with military and police style stock and construction.	KD 19 SAB 9				BA 61 TOF 0	51 0	41 0	35 0	31 0	28 0	22 1	18 1	12 1	8 2	-2 4					
Sawed-Off Shotgun / 12 Gauge Double Barreled Shotgun \$300	L 20 W 6.8	1 -21 2 -13 3 -11	1 -21 2 -13 3 -11	Slug	PEN 3.1 DC 8	3.0 8	3.0 8	2.9 8	2.8 8	2.8 8	2.7 8	2.6 8	2.3 7	2.1 7	1.5 5					
	RT 16 ROF *	4 -11 5 -10	4 -11 5 -10	Shot (00)	PEN 1.3 DC 3 SALM -9	1.2 3 -4	1.2 3 1	1.2 3 4	1.1 2 6	1.1 2 8	1.0 2 11	.9 2 13	.8 2 16	.7 1 18	.4 1 23					
	Cap 2 AW .13 Rnd			12	BPHC PR	*11 .0	*10 .0	*6 .1	*3 .1	*2 .2	*1 .2	44 .3	24 .4	10 .7	5 .9	0 1.9				
Cut down 12 gauge double barreled shotgun with pistol grip.	KD 14 SAB 9				BA 61 TOF 0	51 0	41 0	36 0	31 0	28 0	23 1	18 1	13 1	9 2	-1 4					

Shotguns		Physical Data	Aim Time	Ballistic Data																
			AC Md	Target Range in 2 Yard Hexes																
				1	2	4	6	8	10	15	20	30	40	80						
Remington Model 870 / 12 Gauge Pump Shotgun / USA		L 48 W 7.0	1 -21 2 -11 3 -8	Slug	PEN 4.7	4.6	4.5	4.5	4.4	4.3	4.1	4.0	3.6	3.3	2.4					
		RT 22 ROF 2	4 -7 5 -5 6 -4	Shot (00)	PEN 7.0	2.4	2.0	2.0	1.9	1.9	1.7	1.6	1.4	1.2	.7					
		Cap 5 AW .13 Rnd		12	DC 9	10	4	4	4	4	4	4	3	3	1					
The Remington Model 870 is one of the most popular shotguns made. Available in dozens of models it is used by police, the US Marine Corps, and security personnel. Data is for a field grade Model 870 with 28 inch full choke barrel.		KD 18 SAB 10			SALM -19	-14	-9	-6	-4	-2	1	3	6	8	13					
					BPHC	*11	*11	*10	*10	*6	*4	*2	90	21						
					PR	.0	.0	.0	.0	.1	.1	.1	.2	.2	.5					
					Shot (#1)	PEN 5.8	1.8	1.5	1.4	1.3	1.3	1.2	1.1	.9	.8	.4				
					DC 9	10	3	3	3	3	3	3	2	2	1					
					SALM -18	-13	-8	-5	-3	-2	1	3	6	8	13					
					16	BPHC	*15	*14	*13	*12	*7	*4	*2	*1	23					
					PR	.0	.0	.0	.0	.1	.1	.1	.2	.3	.5					
Remington Model 1100 / 12 Gauge Autoloading Shotgun		L 48 W 8.2	1 -22 2 -12 3 -9	Shot (#3)	PEN 3.8	1.2	1.1	1.1	1.0	1.0	.9	.8	.6	.5	.2					
		RT 22 ROF *	4 -7 5 -5 6 -4	24	DC 10	3	3	3	2	2	2	2	1	1	1					
		Cap 5 AW .13 Rnd			SALM -17	-12	-7	-4	-2	0	3	5	8	10	15					
The Remington 1100 was one of the first gas operated semi-automatic shotguns made. Like the Remington Model 870, it is a very popular weapon known for its dependability and smooth action. Because the recoil mechanism is inside the rear stock, the rear stock cannot be shortened. Data is for a field grade Remington 1100 with 28 inch full choke barrel.		KD 18 SAB 9			BPHC	*23	*22	*20	*18	*16	*7	*4	*2	*1	25					
					PR	.0	.0	.0	.0	.1	.1	.1	.2	.3	.6					
					Shot (#4)	PEN 3.5	1.1	1.1	1.0	.9	.9	.8	.7	.6	.4	.2				
					DC 10	3	2	2	2	2	2	2	1	1	1					
					SALM -16	-12	-7	-4	-2	0	3	5	8	10	15					
					27	BPHC	*26	*24	*23	*20	*17	*8	*4	*2	*1	26				
					PR	.0	.0	.0	.0	.1	.1	.1	.2	.2	.3	.6				
					Bird (BB)	PEN 3.1	.9	.5	.5	.4	.4	.3	.3	.2	.1					
					DC 8	10	1	1	1	1	1	1	1	1	1					
					SALM -17	-12	-7	-4	-2	-1	2	4	7	9						
					62	BPHC	*56	*53	*50	*47	*22	*13	*6	*3						
					PR	.0	.0	.0	.0	.1	.1	.1	.2	.3						
					Bird (#2)	PEN 2.1	.6	.4	.3	.2	.2	.2	.1	.1						
					DC 9	10	1	1	1	1	1	1	1	1						
					SALM -16	-11	-6	-3	-1	0	3	5	8							
					100	BPHC	*89	*82	*68	*55	*26	*15	*6							
					PR	.0	.0	.0	.0	.1	.1	.1	.2	.2						
					Bird (#4)	PEN 1.8	.5	.3	.2	.1	.1	.1	.1							
					DC 9	10	1	1	1	1	1	1	1							
					SALM -15	-10	-5	-2	0	1	4	6								
					169	BPHC	*1H	*1H	*96	*73	*33	*19								
					PR	.0	.0	.0	.1	1	.1	.1	.2							
					BA 62	52	42	36	33	29	23	19	13	9	-1					
					TOF 0	0	0	0	0	0	1	1	1	2	4					
Winchester Model 1300 / 12 Gauge Magnum / USA		L 50 W 7.8	1 -22 2 -12 3 -9	Slug	PEN 4.8	4.8	4.7	4.6	4.5	4.5	4.3	4.1	3.8	3.5	2.5					
		RT 22 ROF 2	4 -7 5 -5 6 -4	Shot (00)	PEN 9.2	3.6	2.1	2.0	1.9	1.9	1.8	1.7	1.5	1.3	.8					
		Cap 5 AW .16 Rnd		15	DC 9	10	5	4	4	4	4	3	3	2						
The Winchester Model 1300 Magnum Waterfowl shotgun uses 12 gauge 3 inch magnum shells and is designed for hunting duck and geese. Data is for a field grade Model 1300 with 30 inch full choke barrel.		KD 18 SAB 9			SALM -19	-14	-9	-7	-5	-3	0	2	5	7	12					
					BPHC	*14	*13	*12	*12	*9	*5	*2	*1	32						
					PR	.0	.0	.0	.0	.0	.1	.1	.2	.2	.4					
					Shot (#4)	PEN 6.4	1.9	1.1	1.1	1.0	1.0	.9	.8	.6	.5	.2				
					DC 9	10	2	2	2	2	2	2	1	1	1					
					SALM -17	-12	-7	-4	-2	-1	2	4	7	9	14					
					41	BPHC	*37	*35	*32	*29	*14	*8	*4	*2	47					
					PR	.0	.0	.0	.0	.1	.1	.1	.2	.3	.6					
					Bird (BB)	PEN 4.5	1.4	.4	.4	.3	.3	.3	.2	.1	.1					
					DC 7	10	1	1	1	1	1	1	1	1	1					
					SALM -18	-13	-8	-5	-3	-1	1	3	6	8						
					94	BPHC	*86	*81	*77	*73	*40	*23	*10	*6						
					PR	.0	.0	.0	.0	.1	.1	.1	.2	.3						
					BA 62	52	42	36	33	29	23	19	13	9	-1					
					TOF 0	0	0	0	0	0	1	1	1	2	3					

\$ 250

Range in 2 yard hexes
20 40 70 100 200 300 400

JSP	PEN	7.7	7.3	6.6	5.7	4.9	3.0	1.8	1.1
	DC	8	8	8	8	8	6	3	1
JHP	PEN	7.6	7.2	6.5	5.6	4.8	2.9	1.8	1.1
	DC	9	9	9	8	8	7	4	2
AP	PEN	11	11	9.6	8.2	7.1	4.3	2.6	1.6
	DC	7	7	7	6	6	5	3	1
	BA	49	41	33	26	22	12	7	3
	TOF	0	1	1	2	4	8	13	19

JSP	PEN	7.7	7.3	6.6	5.6	4.8	2.9	1.8	1.1
	DC	9	9	8	8	8	6	3	1
JHP	PEN	7.6	7.2	6.5	5.6	4.8	2.9	1.7	1.0
	DC	9	9	9	9	8	6	4	1
AP	PEN	11	11	9.5	8.2	7.0	4.2	2.5	1.5
	DC	7	7	7	7	6	4	3	1
	BA	48	41	32	25	21	11	6	2
	TOF	0	1	1	2	4	8	13	19

JSP	PEN	13	13	12	11	9.8	7.2	5.3	3.9
	DC	8	8	8	8	8	7	6	5
JHP	PEN	13	12	12	11	9.6	7.1	5.2	3.8
	DC	8	8	8	8	8	7	7	5
AP	PEN	19	18	17	16	14	10	7.6	5.6
	DC	7	7	7	6	6	6	5	3
	BA	63	55	47	40	35	26	20	16
	TOF	0	1	1	2	3	7	11	15

JSP	PEN	11	10	9.4	8.4	7.6	5.2	3.6	2.5
	DC	8	8	8	8	8	7	5	3
JHP	PEN	10	10	9.3	8.3	7.5	5.2	3.6	2.5
	DC	9	9	9	8	8	7	6	4
AP	PEN	15	15	14	12	11	7.6	5.2	3.6
	DC	7	7	7	7	6	6	4	3
	BA	60	52	43	35	30	21	15	11
	TOF	0	1	1	2	3	7	12	16

JSP	PEN	9.9	9.5	8.9	8.0	7.2	5.1	3.6	2.5
	DC	9	8	8	8	8	7	5	3
JHP	PEN	9.7	9.4	8.8	7.9	7.1	5.0	3.5	2.5
	DC	9	9	9	9	8	7	6	4
AP	PEN	14	14	13	12	10	7.3	5.1	3.6
	DC	7	7	7	7	7	6	4	3
	BA	60	52	43	36	31	21	16	12
	TOF	0	1	1	2	4	8	12	18

The 375 Winchester fires a heavy moderate velocity bullet well suited for wooded hunting grounds. Its low velocity limits its effective range, but it is a good short to medium range hunting rifle. Its stopping power is more than a match for deer and suited for larger game such as bear or moose.

Lever Action Rifles / Tech Level 13

\$ 250

Lever Action Rifles

Winchester M94 / 22 Winchester Magnum Rimfire / Lever Action Rifle / USA



22 caliber version of the Winchester Model 94 in 22 Magnum.

Physical Data	Aim Time AC Md	Ballistic Data											
		Range in 2 yard hexes											
L	38	1	-21	LRN	PEN	3.8	3.6	3.0	2.4	1.9	.9	.4	.2
W	6.4	2	-11	DC		4	4	3	3	2	1	1	1
		3	-9										
RT	36	4	-7	LHP	PEN	3.8	3.6	3.0	2.4	1.9	.9	.4	.2
ROF	2	5	-5	DC		5	5	4	4	2	1	1	1
		6	-4										
Cap	11	7	-3										
AW	.01	8	-2										
Rnd		9	-1										
KD	2			BA		49	41	33	26	22	12	7	4
SAB	2			TOF		0	1	1	2	4	9	14	21

Winchester M94 / 30-30 Winchester

L	38	1	-21	JSP	PEN	13	13	12	11	9.8	7.2	5.3	3.9
W	6.8	2	-11	DC		8	8	8	8	8	7	6	5
		3	-9										
RT	20	4	-7	JHP	PEN	13	12	12	11	9.6	7.1	5.2	3.8
ROF	2	5	-5	DC		8	8	8	8	8	7	7	5
		6	-4										
Cap	6	7	-3	AP	PEN	19	18	17	16	14	10	7.6	5.6
AW	.05	8	-2	DC		7	7	7	6	6	6	5	3
Rnd		9	-1										
KD	9			BA		63	55	47	40	35	26	20	16
SAB	6			TOF		0	1	1	2	3	7	11	15

Standard Model 94 Winchester in 30-30 Winchester. This is a popular deer and light hunting rifle. Light and easy to carry, lever action rifles like these have become a part of American history. Since their introduction in the 1800's, they have been popular and effective. With the introduction of the large and powerful 45 caliber rifles, they are capable of taking on any game in North America.

Winchester M94 / 44 Smith & Wesson Special

L	38	1	-21	JSP	PEN	2.2	2.1	1.8	1.5	1.2	.6	.3	.2
W	6.8	2	-11	DC		4	4	3	2	2	1	1	1
		3	-9										
RT	37	4	-7	JHP	PEN	2.2	2.0	1.8	1.5	1.2	.6	.3	.2
ROF	2	5	-5	DC		5	5	4	3	2	1	1	1
		6	-4										
Cap	11	7	-3	AP	PEN	3.2	3.0	2.6	2.2	1.8	.9	.5	.2
AW	.05	8	-2	DC		3	3	3	2	1	1	1	1
Rnd		9	-1										
KD	6			BA		48	40	31	24	19	10	5	1
SAB	5			TOF		1	1	3	5	7	16	26	38

By today's standards the 44 Smith and Wesson Special cartridge is underpowered, but it was popular in its time and remains a popular sporting rifle. Its light weight and limited recoil are factors in its longevity.

Winchester M94 / 44 Remington Magnum

L	38	1	-21	JSP	PEN	7.7	7.3	6.6	5.6	4.8	2.9	1.8	1.1
W	6.8	2	-11	DC		9	9	8	8	8	6	3	1
		3	-9										
RT	37	4	-7	JHP	PEN	7.6	7.2	6.5	5.6	4.8	2.9	1.7	1.0
ROF	2	5	-5	DC		9	9	9	9	8	6	4	1
		6	-4										
Cap	11	7	-3	AP	PEN	11	11	9.5	8.2	7.0	4.2	2.5	1.5
AW	.05	8	-2	DC		7	7	7	7	6	4	3	1
Rnd		9	-1										
KD	11			BA		48	41	32	25	21	11	6	2
SAB	7			TOF		0	1	1	2	4	8	13	19

This Winchester fires standard 44 Magnum revolver ammunition making it a perfect companion to any 44 Magnum revolver. It is an accurate weapon combining light weight, quickness, and hitting power.

Marlin M444SS / 444 Marlin / Lever Action Rifle / USA



This is the most powerful lever action rifle in the world. Suitable for any game in North America, it is an ideal rifle for hunting in brush and wooded areas.

L	41	1	-22	JSP	PEN	10	10	9.2	8.1	7.1	4.6	3.0	1.9
W	7.9	2	-12	DC		9	9	9	9	9	8	6	3
		3	-9										
RT	16	4	-7	JHP	PEN	10	9.9	9.1	8.0	7.0	4.5	2.9	1.9
ROF	2	5	-6	DC		10	10	9	9	9	8	6	4
		6	-4										
Cap	5	7	-3	AP	PEN	15	15	13	12	10	6.6	4.3	2.8
AW	.06	8	-2	DC		8	8	8	8	7	6	4	3
Rnd		9	-2										
KD	13	10	-1	BA		49	42	34	27	23	14	8	4
SAB	8			TOF		0	1	1	2	3	7	11	16

Marlin M1895SS / 45-70 Government

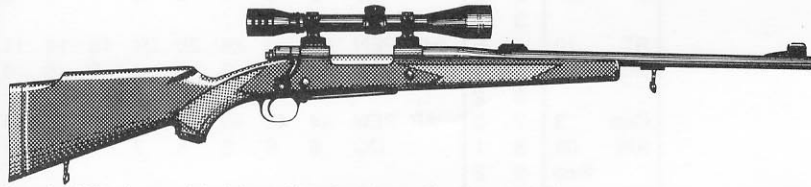
L	41	1	-22	JSP	PEN	9.4	9.0	8.3	7.3	6.5	4.2	2.8	1.8
W	7.9	2	-12	DC		9	9	9	9	9	8	6	4
		3	-9										
RT	14	4	-7	JHP	PEN	9.3	8.9	8.2	7.2	6.4	4.2	2.8	1.8
ROF	2	5	-6	DC		10	9	9	9	9	9	7	4
		6	-4										
Cap	4	7	-3	AP	PEN	14	13	12	11	9.4	6.1	4.0	2.7
AW	.06	8	-2	DC		8	8	8	7	7	7	5	3
Rnd		9	-2										
KD	13	10	-1	BA		56	47	38	30	25	15	10	6
SAB	8			TOF		0	1	1	2	4	8	12	18

The Marlin Model 1895SS is almost identical in appearance to the Marlin M444SS shown above. Both are powerful lever action hunting rifles. The 45-70 Government cartridge was the standard US military cartridge of the Indian wars in the post Civil War Wild West. At that time, no lever action rifle could take its powerful load and a number of lighter cartridges whose performance tried to match that of the 45-70 were introduced. The M1895SS has mastered the powerful 45-70 and provides a hunter with more than ample power in a light lever action rifle.

\$350

Bolt Action Rifles

Winchester M70 / 300 Winchester Magnum / Bolt Action Rifle / USA



Popular Winchester Model 70 rifle chambered for the 300 Winchester Magnum. The 300 Winchester Magnum is Winchester's most popular big game magnum.

Physical Data	Aim Time AC Md	Ballistic Data									
		Range in 2 yard hexes									
		10	20	40	70	100	200	300	400		
L 42	1 -22	FMJ PEN 26	25	24	22	21	16	12	9.3		
W 10.0	2 -12	DC 9	9	9	9	9	9	8	8		
	3 -7										
RT 13	4 -5	JHP PEN 26	25	24	22	20	16	12	9.1		
ROF 3	5 -4	DC 10	10	10	10	9	9	8	8		
	6 -2										
Cap 4	7 0	AP PEN 38	37	35	32	30	23	18	13		
AW .08	8 1	DC 8	8	8	8	8	7	7	6		
Rnd 9	2										
KD 13	10 3	BA 63	56	48	41	36	27	21	17		
SAB 7	11 4	TOF 0	0	1	1	2	5	7	10		

Winchester M70 / 300 Holand & Holand

The 300 Holand and Holand was introduced in England in the 1920s and was produced in America in 1925. The first American rifles chambered for the 300 H&H came in 1937 shortly after this cartridge was used to win the 1000 yard match in Wimbledon. Aside from target shooting, the 300 H&H is an excellent hunting cartridge suitable for any North American game and any but the most dangerous African species.

L 42	1 -22	FMJ PEN 25	25	23	22	20	15	12	8.9		
W 10.0	2 -12	DC 8	8	8	8	8	7	7	6		
	3 -7										
RT 13	4 -5	JHP PEN 24	24	23	21	19	15	11	8.5		
ROF 3	5 -4	DC 10	10	10	9	9	9	8	8		
	6 -2										
Cap 4	7 0	AP PEN 36	35	33	31	28	22	16	13		
AW .08	8 1	DC 8	8	8	8	8	7	7	6		
Rnd 9	2										
KD 12	10 3	BA 63	56	48	41	36	27	21	17		
SAB 7	11 4	TOF 0	0	1	2	2	5	7	11		

Winchester M70 / 8mm Mauser

The 8mm Mauser was the standard German service cartridge of both the first and second World Wars. It was perhaps the most widely spread military cartridge in the world, and after World War II became popular in the USA due to the large number of surplus and souvenir rifles brought to the States. The 8mm Mauser is comparable to the 30 '06 and is well suited to any big game hunting in North America.

L 42	1 -22	FMJ PEN 16	15	14	13	12	8.3	6.0	4.3		
W 10.0	2 -12	DC 7	7	7	7	7	6	6	3		
	3 -7										
RT 13	4 -5	JHP PEN 15	14	13	12	11	8.0	5.8	4.2		
ROF 3	5 -4	DC 9	9	9	9	8	8	7	5		
	6 -2										
Cap 4	7 0	AP PEN 22	21	20	18	16	12	8.5	6.1		
AW .08	8 1	DC 7	7	7	7	7	6	5	3		
Rnd 9	2										
KD 10	10 3	BA 62	54	45	38	33	24	18	14		
SAB 6	11 4	TOF 0	1	1	2	3	6	9	13		

Winchester M70 / 338 Winchester Magnum \$900

The 338 Winchester Magnum is a big game hunting cartridge more than capable of handling any North American game. As an African big game rifle it is a little underpowered. This cartridge was introduced before the 300 Winchester Magnum but never gained much popularity. Today, it has been superseded by the 300 Winchester Magnum.

L 42	1 -22	FMJ PEN 25	24	23	21	20	15	12	8.9		
W 10.0	2 -12	DC 10	10	10	9	9	9	8	8		
	3 -7										
RT 13	4 -5	JHP PEN 24	24	23	21	19	15	11	8.8		
ROF 3	5 -4	DC 10	10	10	10	10	9	9	8		
	6 -2										
Cap 4	7 0	AP PEN 36	35	33	31	28	22	17	13		
AW .08	8 1	DC 8	8	8	8	8	8	7	7		
Rnd 9	2										
KD 15	10 3	BA 63	55	47	40	35	26	20	17		
SAB 8	11 4	TOF 0	0	1	2	2	5	8	11		

Winchester M70 / 375 Holand & Holand \$1000

The 375 Holand and Holand provides exceptional power and good ballistic performance. While not as accurate as the 7mm Remington Magnum, the 375 H&H has won a number of long range shooting competitions and provides near optimum big game hunting power. At 400 yards, the remaining energy in the 375 H&H is more than the 308 Winchester at the muzzle.

L 42	1 -22	FMJ PEN 23	23	22	20	19	14	11	8.7		
W 10.1	2 -12	DC 10	10	10	10	10	9	9	9		
	3 -7										
RT 13	4 -5	JHP PEN 23	22	21	20	18	14	11	8.6		
ROF 3	5 -4	DC 10	10	10	10	10	10	9	9		
	6 -2										
Cap 4	7 0	AP PEN 34	33	31	29	27	21	16	13		
AW .10	8 1	DC 9	9	9	9	8	8	8	7		
Rnd 9	2										
KD 18	10 3	BA 63	55	47	40	35	26	20	16		
SAB 9	11 4	TOF 0	0	1	2	3	5	8	12		

Winchester M70 / 458 Winchester Magnum \$1500

The 458 Winchester Magnum is one of the world's most popular African big game hunting cartridges. It fires a heavy 510 grain bullet which makes it one of the most powerful rifles in the world. The large caliber and heavy bullet gives it tremendous stopping power at extended range.

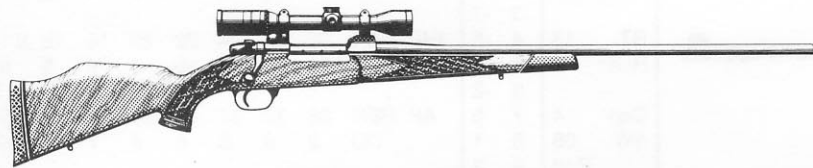
L 42	1 -22	FMJ PEN 19	18	17	16	15	12	9.3	7.3		
W 10.2	2 -12	DC 10	10	10	10	10	10	10	9		
	3 -7										
RT 13	4 -5	JHP PEN 18	18	17	16	15	12	9.1	7.2		
ROF 3	5 -4	DC 10	10	10	10	10	10	10	9		
	6 -2										
Cap 4	7 0	AP PEN 27	26	25	23	22	17	13	11		
AW .12	8 1	DC 9	9	9	9	9	9	8	7		
Rnd 9	2										
KD 25	10 3	BA 62	55	47	40	35	25	20	16		
SAB 10	12 4	TOF 0	1	1	2	3	7	10	15		

Bolt Action Rifles / Tech Level 13

\$750

Bolt Action Rifles

Weatherby Mk IV / 270 Weatherby Magnum / Bolt Action Rifle / USA



Fine Weatherby craftsmanship and one of the strongest bolt mechanisms in the world highlight this fine line of Weatherby rifles.

Physical Data	Aim Time AC Md	Ballistic Data										
		Range in 2 yard hexes										
L 46	1 -23	FMJ PEN	31	30	29	27	25	19	14	11		
W 10.7	2 -12	DC	8	8	8	8	8	7	7	6		
	3 -7											
RT 10	4 -5	JHP PEN	30	29	28	25	24	18	14	11		
ROF 3	5 -4	DC	10	10	9	9	9	9	8	8		
	6 -2											
Cap 3	7 0	AP PEN	44	43	40	37	34	26	20	15		
AW .06	8 1	DC	8	8	8	8	7	7	6	6		
Rnd 9	2											
KD 10	10 3	BA	63	56	48	41	37	27	22	18		
SAB 6	12 4	TOF	0	0	1	1	2	4	6	9		

Weatherby Mk IV / 7mm Weatherby Magnum

This Weatherby makes use of the excellent ballistic properties of the 7mm in a very high powered magnum. Like all Weatherby cartridges, the 7mm Weatherby Magnum is a high powered cartridge with more than enough power for any North American game.

L 46	1 -23	FMJ PEN	33	32	30	28	26	21	16	13		
W 10.7	2 -12	DC	8	8	8	8	8	7	7	6		
	3 -7											
RT 10	4 -5	JHP PEN	31	31	29	27	25	20	15	12		
ROF 3	5 -4	DC	10	10	10	9	9	9	8	8		
	6 -2											
Cap 3	7 0	AP PEN	46	45	43	40	37	29	23	18		
AW .07	8 1	DC	8	8	8	8	8	7	7	6		
Rnd 9	2											
KD 12	10 3	BA	64	57	50	43	38	29	24	20		
SAB 7	12 4	TOF	0	0	1	1	2	4	7	9		

Weatherby Mk IV / 300 Weatherby Magnum

The 300 Weatherby Magnum is one of the most powerful 30 caliber weapons in the world. It is more than enough for any North American game and capable of taking on dangerous African game as well.

L 46	1 -23	FMJ PEN	32	32	30	28	26	20	16	12		
W 10.8	2 -12	DC	10	10	10	10	9	9	9	8		
	3 -7											
RT 10	4 -5	JHP PEN	32	31	30	28	26	20	15	12		
ROF 3	5 -4	DC	10	10	10	10	10	9	9	8		
	6 -2											
Cap 3	7 0	AP PEN	47	46	44	40	37	29	23	18		
AW .08	8 1	DC	9	9	8	8	8	8	7	7		
Rnd 9	2											
KD 14	10 3	BA	63	56	48	41	36	27	21	17		
SAB 7	12 4	TOF	0	0	1	1	2	4	6	9		

Weatherby Mk IV / 338 Weatherby Magnum

The 338 Weatherby Magnum is a big game magnum suited for even the most dangerous game. The limited availability of bullets in 338 caliber has limited its popularity, but it is an excellent big game rifle with power and recoil between that of the 300 and 378 Weatherby.

L 46	1 -23	FMJ PEN	32	31	30	28	26	21	17	13		
W 10.8	2 -12	DC	10	10	10	10	10	9	9	9		
	3 -7											
RT 10	4 -5	JHP PEN	32	31	30	28	26	21	16	13		
ROF 3	5 -4	DC	10	10	10	10	10	10	9	9		
	6 -2											
Cap 3	7 0	AP PEN	47	46	44	41	38	30	24	19		
AW .09	8 1	DC	9	9	9	9	9	8	8	7		
Rnd 9	2											
KD 18	10 3	BA	64	57	49	42	38	28	23	19		
SAB 9	12 4	TOF	0	0	1	1	2	4	7	10		

Weatherby Mk IV / 378 Weatherby Magnum

The 378 Weatherby Magnum provides awesome power. The superior long range carrying ability of the 375 bullet makes this one of the hardest hitting rifles in the world. It is more than a match for even the toughest game, and, like the 460 Weatherby, punishes both shooter and target.

L 46	1 -23	FMJ PEN	31	30	29	27	25	20	16	12		
W 10.8	2 -12	DC	10	10	10	10	10	10	9	9		
	3 -7											
RT 10	4 -5	JHP PEN	31	30	29	27	25	20	15	12		
ROF 3	5 -4	DC	10	10	10	10	10	10	10	9		
	6 -2											
Cap 3	7 0	AP PEN	45	44	42	39	36	29	23	18		
AW .10	8 1	DC	9	9	9	9	9	9	8	8		
Rnd 9	2											
KD 21	10 3	BA	63	56	48	40	36	26	21	17		
SAB 9	12 4	TOF	0	0	1	1	2	5	7	10		

Weatherby MK IV / 460 Weatherby Magnum

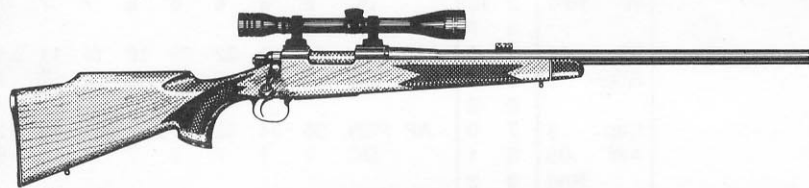
The 460 Weatherby Magnum is Weatherby's African big game cartridge. It is well suited for game such as elephant and rhino. Its 500 grain full metal jacketed bullet provides superb penetration, while its large caliber and mass deliver devastating killing power. This is one of the most powerful hunting rifles in the world.

L 46	1 -23	FMJ PEN	32	31	30	28	26	21	17	14		
W 10.9	2 -12	DC	10	10	10	10	10	10	10	10		
	3 -7											
RT 10	4 -5	JHP PEN	32	31	30	28	26	21	17	14		
ROF 3	5 -4	DC	10	10	10	10	10	10	10	10		
	6 -2											
Cap 3	7 0	AP PEN	47	46	44	41	38	31	25	20		
AW .12	8 1	DC	10	10	10	10	10	10	9	9		
Rnd 9	2											
KD 32	10 3	BA	63	55	47	40	35	26	20	16		
SAB 12	12 4	TOF	0	0	1	2	2	5	8	11		

\$350

Bolt Action Rifles

Remington M700 BDL / 22-250 Remington / Bolt Action Rifle / USA



This Remington Model 700 with Heavy Barrel is one of the best "Varmint" rifles available. Very accurate and pleasant to shoot, the M700 is an ideal sport shooting arm.

Remington M700 / 222 Remington

The 222 Remington was developed by Remington in 1950. At the time it was one of the highest velocity 22 caliber cartridges available and it became quite popular. Ideal for 200 to 250 yard shooting, this cartridge has excellent accuracy and is an excellent weapon for hunting small game and varmint. It has been superceded by the 223 Remington and 222 Remington Magnum.

Remington M700 / 223 Remington

The 223 Remington was originally developed for the US military and became the standard US rifle ammunition (5.56mm NATO). Following this military acceptance, many commercial arms adopted the 223 Remington and it has become widely accepted. While not as accurate as the 222 Remington Magnum, this cartridge has superceded the 222 Remington because of the availability of surplus brass and ammunition.

Remington M700 / 243 Winchester

The 243 Winchester was introduced by Winchester in 1955. Its case is a 308 Winchester necked down to 6mm. The cartridge is very accurate and well suited for Varminting and light hunting. The exceptional ballistic performance of the 6mm bullet is a major factor in the popularity of this cartridge. It provides a shooter with a single rifle which can fill the needs of both light hunting and off season sport shooting.

Remington M700 / 6mm Remington

The 6mm Remington was first introduced as the 244 Remington in 1955, the same year Winchester introduced the 243 Winchester. Remington's first rifles had a slow 1-12" twist which resulted in poor performance with heavy bullets when compared to the Winchester. Realizing their error, Remington reintroduced the 244 Remington as the 6mm Remington in 1964 with rifles with a 1-9" twist.

Remington M700 / 308 Winchester

The 308 Winchester was developed in 1952 and adopted by the US military in 1954 as the 7.62mm NATO. It was designed to replace the 30'06, and since acceptance has proven to be an extremely accurate round. Today most world class shooting records are held by this cartridge. In part this is due to the thousands of rounds fired in matches each year, but the inherent accuracy of the cartridge cannot be disputed.

Physical
DataAim
Time
AC Md

Ballistic Data

Range in 2 yard hexes

10 20 40 70 100 200 300 400

L 44
W 11.71 -23
2 -13
3 -7FMJ PEN 21 20 18 16 14 9.5 6.3 4.2
DC 8 8 8 7 7 6 5 4RT 16
ROF 34 -5
5 -4
6 -2JHP PEN 21 20 18 16 14 9.4 6.2 4.1
DC 8 8 8 8 8 7 6 4Cap 5
AW .047 0
8 1
Rnd 9 2AP PEN 30 29 27 24 21 14 9.1 6.0
DC 7 7 6 6 6 5 3 3KD 5
SAB 310 3
12 4BA 60 52 43 36 31 21 16 12
TOF 0 0 1 1 2 4 6 9L 44
W 11.71 -23
2 -13
3 -7FMJ PEN 14 14 13 11 9.6 6.1 3.9 2.5
DC 6 6 6 5 5 4 3 1RT 20
ROF 34 -5
5 -4
6 -2JHP PEN 14 13 12 11 9.2 5.9 3.7 2.4
DC 8 7 7 7 7 6 4 2Cap 6
AW .037 0
8 1
Rnd 9 2AP PEN 20 19 18 15 14 8.6 5.5 3.5
DC 6 6 5 5 4 3 3 1KD 4
SAB 310 3
12 4BA 60 52 43 35 31 21 15 11
TOF 0 0 1 2 2 5 8 11L 44
W 11.71 -23
2 -13
3 -7FMJ PEN 16 15 14 12 11 7.0 4.5 2.9
DC 7 7 7 7 7 6 4 3RT 20
ROF 34 -5
5 -4
6 -2JHP PEN 16 15 14 12 11 6.9 4.5 2.9
DC 8 8 8 7 7 6 5 4Cap 6
AW .037 0
8 1
Rnd 9 2AP PEN 23 22 20 18 16 10 6.6 4.3
DC 6 6 6 5 5 4 3 2KD 4
SAB 310 3
12 4BA 60 52 43 36 31 21 16 12
TOF 0 0 1 1 2 4 7 10L 44
W 11.71 -23
2 -13
3 -7FMJ PEN 21 20 19 18 16 12 8.9 6.6
DC 8 8 8 8 8 7 6 6RT 16
ROF 34 -5
5 -4
6 -2JHP PEN 21 20 19 17 16 12 8.8 6.5
DC 9 8 8 8 8 7 7 6Cap 5
AW .057 0
8 1
Rnd 9 2AP PEN 31 30 28 26 23 17 13 9.5
DC 7 7 7 6 6 6 5 4KD 7
SAB 410 3
12 4BA 63 56 48 41 37 27 22 18
TOF 0 0 1 1 2 5 7 10L 44
W 11.71 -23
2 -13
3 -7FMJ PEN 25 24 23 21 19 13 9.6 6.9
DC 7 7 7 7 7 6 5 4RT 16
ROF 34 -5
5 -4
6 -2JHP PEN 24 23 22 20 18 13 9.2 6.6
DC 9 9 9 8 8 7 7 6Cap 5
AW .057 0
8 1
Rnd 9 2AP PEN 35 34 32 29 26 18 14 9.7
DC 7 7 7 7 6 6 5 4KD 7
SAB 410 3
12 4BA 62 55 46 39 35 25 20 16
TOF 0 0 1 1 2 4 6 9L 44
W 11.81 -23
2 -13
3 -7FMJ PEN 20 20 19 17 16 12 9.1 6.8
DC 9 9 9 9 9 8 8 7RT 16
ROF 34 -5
5 -4
6 -2JHP PEN 20 20 19 17 16 12 8.9 6.8
DC 9 9 9 9 9 8 8 8Cap 5
AW .067 0
8 1
Rnd 9 2AP PEN 30 29 27 25 23 17 13 10
DC 8 8 8 7 7 7 6 6KD 11
SAB 610 3
12 4BA 63 56 47 40 36 26 21 17
TOF 0 0 1 2 2 5 8 12

Bolt Action Rifles / Tech Level 13

8450

Bolt Action Rifles

Sako / 25 '06 Remington / Bolt Action Rifle / Finland



Fine Sako craftsmanship in the 25 '06 light hunting rifle. The 25 '06 is a 30 '06 case necked down to 25 caliber.

Sako / 264 Winchester Magnum

The 264 Winchester Magnum appeared late in 1959 and is an excellent long range cartridge for varminting and hunting. It is based on the 458 Winchester belted magnum case which has been necked down to 26 caliber. Ballistic data of this entry is for a varminting or light hunting load.

Sako / 270 Winchester

The 270 Winchester is a 30 '06 case necked down to .270 caliber. Next to the 30 '06, it is the most popular big game cartridge in America. The performance of the 270 is very similar to the 30 '06 and it provides one of the best all around sporting rifles on the market today. Equally suited to Varminting or handling any of America's big game, this weapon is remarkably versatile.

Sako / 280 Remington

The 280 Remington was brought out in 1957 and is very similar to the 270 Winchester. It is very close to a 30 '06 cartridge necked down to 7mm and is essentially identical to the 7mm-06. Ballistic data in this entry can be used for the 7mm-06 as well as the 280 Remington.

Sako / 7mm Remington Magnum

The 7mm Remington Magnum is one of the most popular magnum cartridges produced. It provides superb ballistic performance and has been used in long range target shooting. The 7mm bullet provides near optimum performance for both hunting and target shooting. Its flat trajectory and excellent ballistic coefficient make it an ideal hunting rifle for the open plain.

Sako / 30 '06

The 30 '06 was one of the world's most popular military rounds. Introduced in 1903 as the 30 '03 it was modified in 1906 and standardized as the 30 '06. Until the introduction of the 308 Winchester, the 30 '06 was America's standard military round. Today it is still America's most popular sporting cartridge. As a hunting rifle it is suited for any game found in America, but lacks the power recommended for larger African game. It is still probably the world's most popular hunting cartridge.

Physical Data	Aim Time AC Md	Ballistic Data									
		Range in 2 yard hexes									
		10	20	40	70	100	200	300	400		
L 45	1 -22	FMJ PEN	24	23	22	20	19	15	11	8.6	
W 10.0	2 -12	DC	8	8	8	8	8	7	7	7	
	3 -7										
RT 16	4 -5	JHP PEN	24	23	22	20	19	14	11	8.5	
ROF 3	5 -4	DC	9	9	9	9	8	8	7	7	
	6 -2										
Cap 5	7 0	AP PEN	35	34	32	30	27	21	16	12	
AW .05	8 1	DC	7	7	7	7	7	6	6	5	
Rnd 9	2										
KD 8	10 3	BA	64	57	50	43	39	29	24	20	
SAB 5	11 4	TOF	0	0	1	1	2	5	7	10	
L 45	1 -22	FMJ PEN	28	27	26	24	22	18	14	11	
W 10.0	2 -12	DC	8	8	8	8	7	7	6	6	
	3 -7										
RT 16	4 -5	JHP PEN	27	26	25	23	22	17	13	10	
ROF 3	5 -4	DC	9	9	9	9	9	8	8	8	
	6 -2										
Cap 5	7 0	AP PEN	40	39	37	34	32	25	19	15	
AW .06	8 1	DC	8	8	7	7	7	7	6	6	
Rnd 9	2										
KD 10	10 3	BA	64	57	50	43	39	30	24	20	
SAB 6	11 4	TOF	0	0	1	1	2	4	7	10	
L 45	1 -22	FMJ PEN	24	24	22	21	19	15	12	9.1	
W 10.0	2 -12	DC	9	9	9	8	8	8	7	7	
	3 -7										
RT 16	4 -5	JHP PEN	24	23	22	20	19	15	12	9.0	
ROF 3	5 -4	DC	9	9	9	9	9	8	8	7	
	6 -2										
Cap 5	7 0	AP PEN	35	34	32	30	28	22	17	13	
AW .06	8 1	DC	7	7	7	7	7	7	6	6	
Rnd 9	2										
KD 10	10 3	BA	64	57	50	43	39	30	24	20	
SAB 6	11 4	TOF	0	0	1	2	2	5	8	11	
L 45	1 -22	FMJ PEN	26	26	24	22	21	16	12	9.4	
W 10.1	2 -12	DC	8	8	8	8	7	7	6	6	
	3 -7										
RT 16	4 -5	JHP PEN	25	25	23	22	20	15	12	9.0	
ROF 3	5 -4	DC	9	9	9	9	9	9	8	8	
	6 -2										
Cap 5	7 0	AP PEN	37	36	34	32	29	22	17	13	
AW .06	8 1	DC	8	8	8	7	7	7	6	6	
Rnd 9	2										
KD 11	10 3	BA	64	57	49	42	37	28	22	19	
SAB 6	11 4	TOF	0	0	1	1	2	5	7	10	
L 45	1 -22	FMJ PEN	26	26	24	23	21	17	13	10	
W 10.2	2 -12	DC	9	9	9	9	9	8	8	8	
	3 -7										
RT 16	4 -5	JHP PEN	26	25	24	22	21	16	13	10	
ROF 3	5 -4	DC	9	9	9	9	9	9	8	8	
	6 -2										
Cap 5	7 0	AP PEN	38	37	35	33	31	24	19	15	
AW .07	8 1	DC	8	8	8	8	7	7	7	6	
Rnd 9	2										
KD 12	10 3	BA	64	58	50	44	39	30	25	21	
SAB 7	11 4	TOF	0	0	1	2	2	5	8	11	
L 45	1 -22	FMJ PEN	21	20	19	18	16	12	9.4	7.1	
W 10.1	2 -12	DC	9	9	9	9	9	8	8	7	
	3 -7										
RT 16	4 -5	JHP PEN	21	20	19	18	16	12	9.2	7.0	
ROF 3	5 -4	DC	9	9	9	9	9	9	8	8	
	6 -2										
Cap 5	7 0	AP PEN	30	30	28	26	24	18	14	10	
AW .07	8 1	DC	8	8	8	7	7	7	6	6	
Rnd 9	2										
KD 11	10 3	BA	63	56	47	40	36	26	21	17	
SAB 7	11 4	TOF	0	0	1	2	2	5	8	11	

Semi-Automatic Rifles

Nylon 66 / 22 Long Rifle / Semi-Automatic Rifle / USA

\$100



This nylon stock 22 is a very successful rifle whose light weight and low cost have made it very popular. It is fed from a tubular magazine in the butt stock.

Physical Data	Aim Time AC Md	Ballistic Data									
		Range in 2 yard hexes									
L 39	1 -19	LRN	PEN	1.8	1.6	1.3	1.0	.8	.3		
W 4.1	2 -10	DC		2	2	1	1	1	1		
	3 -8										
RT 30	4 -7	LHP	PEN	1.8	1.6	1.3	1.0	.8	.3		
ROF *	5 -5	DC		3	3	2	2	1	1		
	6 -4										
Cap 14	7 -3										
AW .01	8 -2										
Rnd 9	-1										
KD 1		BA		48	41	32	25	21	11		
SAB 2		TOF		0	1	2	4	6	13		

Ruger 10-22 / 22 Long Rifle / Semi-Automatic Rifle / USA

\$150



This well made Ruger with wood stock is a dependable rifle which feeds from a 10 round rotary magazine.

L 37	1 -20	LRN	PEN	1.7	1.6	1.3	1.0	.7	.3		
W 5.1	2 -11	DC		2	2	1	1	1	1		
	3 -8										
RT 40	4 -7	LHP	PEN	1.7	1.6	1.3	1.0	.7	.3		
ROF *	5 -5	DC		3	3	2	1	1	1		
	6 -4										
Cap 10	7 -3										
AW .20	8 -2										
Mag 9	-1										
KD 1		BA		48	41	32	25	20	10		
SAB 1		TOF		0	1	2	4	6	13		

Remington M552 / 22 Long / Semi-Automatic Rifle / USA

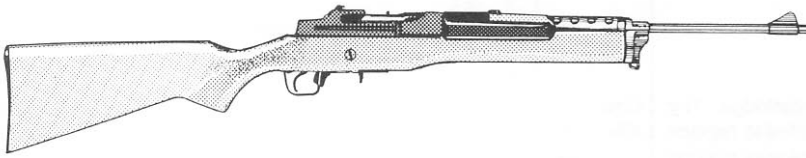
\$150

The Remington M552 Speedmaster is a well made 22 caliber rifle which can fire 22 Short, 22 Long, or 22 Long Rifle ammunition. It has a tubular magazine under the barrel. Ballistic data in this entry is for 22 Long ammunition. For 22 Long Rifle, use the ballistic data from the Ruger 10-22 above.

L 38	1 -20	LRN	PEN	1.1	.9	.8	.5	.3	.1		
W 5.6	2 -11	DC		1	1	1	1	1	1		
	3 -8										
RT 35	4 -7	LHP	PEN	1.1	.9	.8	.5	.3	.1		
ROF *	5 -5	DC		2	1	1	1	1	1		
	6 -4										
Cap 17	7 -3										
AW .01	8 -2										
Rnd 9	-1										
KD 1		BA		44	35	26	18	14	5		
SAB 1		TOF		1	1	2	4	6	15		

Ruger Mini 14 / 5.56mm NATO / Semi-Automatic Rifle / USA

\$300



Light 223 Remington rifle patterned after the M1 Garand. The rifle can be fitted with either a 5 round or 20 round detachable box magazine.

L 37	1 -21	FMJ	PEN	15	14	13	11	9.7	6.2	3.9	2.5
W 7.4	2 -11	DC		6	6	6	5	5	4	3	2
	3 -9										
RT 8	4 -7	JHP	PEN	14	13	12	11	9.3	5.9	3.8	2.4
ROF *	5 -5	DC		8	7	7	7	7	6	4	3
	6 -4										
Cap 20	7 -3	AP	PEN	20	20	18	16	14	8.7	5.6	3.6
AW 1.0	8 -2	DC		6	6	5	5	4	3	3	2
Mag 9	-1										
KD 4		BA		60	52	43	35	31	21	15	11
SAB 3		TOF		0	0	1	1	2	5	8	11

Ruger Mini Thirty / 7.62 X 39 mm / Semi-Automatic Rifle / USA

\$350

The Ruger Mini Thirty is similar to the Mini 14 shown above but chambered for 7.62 X 39 mm ammunition. This ammunition is identical to that used in the Russian AK 47. Like the Mini 14 it can be fitted with either 5 or 20 round detachable box magazine. The Mini Thirty's receiver has been machined to accept one inch scope rings and has had its ejection system redirected to the right, away from the scope.

L 37	1 -22	FMJ	PEN	11	11	9.9	8.7	7.6	5.0	3.2	2.1
W 8.3	2 -11	DC		7	7	6	6	6	5	3	2
	3 -9										
RT 8	4 -7	JHP	PEN	11	10	9.5	8.3	7.3	4.7	3.1	2.0
ROF *	5 -5	DC		8	8	8	8	8	7	4	3
	6 -4										
Cap 20	7 -3	AP	PEN	16	15	14	12	11	7.0	4.5	2.9
AW 1.4	8 -2	DC		7	6	6	6	6	5	3	2
Mag 9	-1										
KD 7		BA		59	50	41	33	28	19	13	9
SAB 5		TOF		0	1	1	2	3	6	10	15

Ruger Model 44 / 44 Remington Magnum / Semi-Automatic Rifle / USA

\$200



This gas operated carbine uses standard 44 Magnum revolver ammunition. Its tubular magazine is located under the barrel.

L 37	1 -21	JSP	PEN	6.5	6.2	5.6	4.8	4.1	2.4	1.4	.8
W 6.0	2 -11	DC		8	8	8	8	7	5	2	1
	3 -8										
RT 15	4 -7	JHP	PEN	6.4	6.1	5.5	4.7	4.0	2.4	1.4	.8
ROF *	5 -5	DC		9	9	8	8	8	6	3	1
	6 -4										
Cap 4	7 -3	AP	PEN	9.4	9.0	8.1	6.9	5.9	3.5	2.0	1.2
AW .05	8 -2	DC		7	7	7	6	6	4	2	1
Rnd 9	-1										
KD 10		BA		48	41	32	25	20	11	5	2
SAB 7		TOF		0	1	1	3	4	9	14	21

\$ 800

Physical
Data

Aim
Time
AC Md

Range in 2 yard hexes

10 20 40 70 100 200 300 400

FMJ	PEN	22	21	20	18	17	12	9.1	6.8
	DC	7	7	7	7	6	6	5	4
JHP	PEN	21	20	19	17	16	12	8.8	6.5
	DC	9	8	8	8	8	7	7	6
AP	PEN	31	30	28	26	23	17	13	9.5
	DC	7	7	7	6	6	6	5	4
	BA	63	56	48	41	37	27	22	18
	TOF	0	0	1	1	2	5	7	10

High quality Browning Automatic Rifle in 270 Winchester. This is a superb hunting rifle with a dependable smooth feed. The weapon is light weight, handles nicely, and offers many of the advantages associated with lever action rifles. The 270 Winchester is an excellent all around sporting and hunting cartridge.

L	40
W	7.5
RT	10
ROF	*
Cap	4
AW	.42
	Mag
KD	10
SAB	6

FMJ	PEN	25	24	23	21	20	15	12	9.3
	DC	8	8	8	7	7	7	6	6
JHP	PEN	24	23	22	20	19	15	12	8.9
	DC	9	9	9	9	9	8	8	7
AP	PEN	35	34	32	30	28	22	17	13
	DC	7	7	7	7	7	7	6	6
	BA	64	57	50	43	39	30	24	20
	TOF	0	0	1	2	2	5	8	11

The 7mm Remington Magnum is an interesting cartridge for the Browning Automatic Rifle in that the Browning represents a light, quick weapon ideal for a wooded hunting environment, while the 7mm Remington Magnum is more suited for the open plain.

L	40
W	7.5
RT	10
ROF	*
Cap	4
AW	.46
	Mag
KD	11
SAB	7

FMJ	PEN	25	25	24	22	20	16	13	10
	DC	8	8	8	8	8	7	7	6
JHP	PEN	24	24	23	21	20	15	12	9.6
	DC	9	9	9	9	9	9	8	8
AP	PEN	36	35	33	31	29	23	18	14
	DC	8	8	8	7	7	7	6	6
	BA	64	58	50	43	39	30	24	21
	TOF	0	0	1	2	2	5	8	11

The 308 Winchester is the sporting version of the 7.62mm NATO military cartridge. The 308 Winchester was first introduced by Winchester in 1952 and was accepted to replace the 30 ' 06 in 1954. Following military adoption, the 308 Winchester became very popular in the commercial area, as thousands of rounds of surplus ammunition and brass became available.

L	40
W	7.5
RT	10
ROF	*
Cap	4
AW	.40
	Magn
KD	11
SAB	7

FMJ	PEN	19	19	18	16	15	11	8.4	6.3
	DC	8	8	8	7	7	7	6	6
JHP	PEN	18	18	17	15	14	11	8.0	6.0
	DC	9	9	9	9	9	8	8	7
AP	PEN	27	26	25	23	21	16	12	8.9
	DC	8	7	7	7	7	7	6	6
	BA	63	55	47	40	36	26	21	17
	TOF	0	0	1	2	3	5	9	12

The 30 '06 has been one of the most popular military cartridges in the world and today is still probably the most common sporting round. Part of this popularity stems from the thousands of rifles sold to US civilians at near cost by the Director of Civilian Marksmanship. The inherent accuracy and performance of this cartridge are other factors in its popularity as well as the fact that there is a larger selection of 30 caliber bullets than any other caliber for the handloader.

L	40
W	7.5
RT	10
ROF	*
Cap	4
AW	.43
	Mag
KD	11
SAB	7

FMJ	PEN	20	20	19	17	16	12	9.0	6.8
	DC	8	8	8	8	7	7	6	6
JHP	PEN	20	19	18	16	15	11	8.6	6.5
	DC	9	9	9	9	9	8	8	7
AP	PEN	29	28	26	24	22	17	13	9.5
	DC	8	8	8	7	7	7	6	6
	BA	63	56	47	40	36	26	21	17
	TOF	0	0	1	2	2	5	8	12

Browning Automatic Rifle chambered for the powerful 300 Winchester Magnum. This weapon is more than capable of taking on any North American game. Its light weight and powerful cartridge combine to produce considerable recoil, but many hunters would rather suffer the recoil than carry a full sized bolt action rifle.

L	40
W	7.5
RT	10
ROF	*
Cap	4
AW	.47
	Mag
KD	12
SAB	7

FMJ	PEN	24	24	23	21	19	15	11	8.5
	DC	8	8	8	8	8	7	7	6
JHP	PEN	23	23	22	20	18	14	11	8.2
	DC	10	10	10	9	9	9	8	8
AP	PEN	34	34	32	29	27	21	16	12
	DC	8	8	8	8	8	7	7	6
	BA	63	56	48	41	36	27	21	17
	TOF	0	0	1	2	2	5	8	11

Paramilitary Weapons		Physical Data	Aim Time AC Md	Ballistic Data Range in 2 yard hexes 10 20 40 70 100 200 300 400												
FN FNC / 5.56mm NATO / Semi-Automatic Rifle / Belgium 		L 30/40 W 10.5 RT 8 ROF * Cap 30 AW 1.2 Mag 9 KD 4 SAB 3	1 -24 2 -13 3 -9 4 -7 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN 14 13 12 11 9.2 5.8 3.6 2.3 DC 6 6 6 5 5 4 3 2 JHP PEN 13 13 12 10 8.8 5.6 3.5 2.2 DC 8 7 7 7 7 6 4 3 AP PEN 20 19 17 15 13 8.2 5.1 3.2 DC 6 6 5 5 4 3 3 2 BA 60 51 42 35 30 20 15 11 TOF 0 0 1 2 2 5 8 11												
Valmet M78 / 7.62mm NATO / Semi-Automatic Rifle / Finland 		L 43 W 11.7 RT 8 ROF * Cap 20 AW 1.5 Mag 9 KD 10 SAB 5	1 -24 2 -14 3 -10 4 -8 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN 20 20 18 17 15 11 7.8 5.6 DC 8 8 8 7 7 7 6 5 JHP PEN 19 19 18 16 14 10 7.5 5.4 DC 9 9 9 9 9 8 8 7 AP PEN 28 28 26 23 21 15 11 7.9 DC 8 8 8 7 7 6 6 5 BA 61 53 45 37 33 23 17 13 TOF 0 0 1 2 2 5 8 11												
Heckler & Koch M93 / 5.56mm NATO / Semi-Automatic Rifle / West Germany 		L 39 W 8.6 RT 8 ROF * Cap 30 AW 1.1 Mag 9 KD 4 SAB 3	1 -23 2 -12 3 -9 4 -7 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN 16 15 14 12 11 6.8 4.3 2.8 DC 6 6 6 6 5 4 3 2 JHP PEN 15 15 13 12 10 6.5 4.2 2.7 DC 8 8 8 7 7 6 5 3 AP PEN 23 22 20 17 15 9.6 6.1 3.9 DC 6 6 6 5 5 4 3 2 BA 60 51 42 35 30 20 15 11 TOF 0 0 1 1 2 5 7 11												
Heckler & Koch M91 / 7.62mm NATO / Semi-Automatic Rifle / West Germany 		L 40 W 11.1 RT 8 ROF * Cap 20 AW 1.4 Mag 9 KD 9 SAB 5	1 -24 2 -14 3 -9 4 -8 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN 17 16 15 14 13 8.9 6.3 4.5 DC 8 7 7 7 7 6 6 4 JHP PEN 16 16 15 13 12 8.5 6.1 4.3 DC 9 9 9 9 8 8 7 6 AP PEN 24 23 22 20 18 13 8.9 6.4 DC 7 7 7 7 7 6 5 4 BA 61 53 44 37 32 23 17 13 TOF 0 0 1 2 3 5 9 12												
Uzi Semi-Automatic Pistol / 9mm Parabellum / Automatic Pistol / Israel 		L 9 W 5.1 RT 5 ROF * Cap 32 AW 1.3 Mag 9 KD 3 SAB 3	1 -20 2 -12 3 -10 4 -9 5 -8 6 -7 7 -7 8 -6 9 -5 10 -4 11 -3	FMJ PEN 1.8 1.6 1.3 1.0 .8 .3 .1 DC 3 2 2 1 1 1 1 JHP PEN 1.7 1.6 1.3 1.0 .8 .3 .1 DC 4 3 3 2 1 1 1 AP PEN 2.5 2.3 1.9 1.4 1.1 .4 .2 DC 2 2 2 1 1 1 1 BA 45 37 28 20 16 6 1 TOF 1 1 2 4 7 16 26												
Uzi Semi-Automatic Carbine / 9mm Parabellum / Semi-Automatic Carbine / Israel 		L 24/32 W 9.5 RT 8 ROF * Cap 32 AW 1.3 Mag 9 KD 4 SAB 3	1 -23 2 -12 3 -9 4 -7 5 -6 6 -4 7 -3 8 -2 9 -1 10 0 11 0	FMJ PEN 3.2 3.0 2.5 2.0 1.6 .7 .3 .1 DC 4 4 3 3 2 1 1 1 JHP PEN 3.1 2.9 2.4 1.9 1.5 .7 .3 .1 DC 6 6 5 4 3 1 1 1 AP PEN 4.5 4.2 3.6 2.8 2.2 1.0 .5 .2 DC 4 4 3 3 2 1 1 1 BA 46 38 29 21 16 7 2 -2 TOF 0 1 2 3 5 11 19 27												

\$1000

FN FNC / 5.56mm NATO / Semi-Automatic Rifle / Belgium

Commercial version of the Belgium Fabrique Nationale FNC assault rifle.



Commercial version of the Belgium Fabrique Nationale FNC assault rifle.

Physical Data		Aim Time		Ballistic Data											
		AC	Md	Range in 2 yard hexes											
						10	20	40	70	100	200	300	400		
L	30/40	1	-24	FMJ	PEN	14	13	12	11	9.2	5.8	3.6	2.3		
W	10.5	2	-13		DC	6	6	6	5	5	4	3	2		
		3	-9												
RT	8	4	-7	JHP	PEN	13	13	12	10	8.8	5.6	3.5	2.2		
ROF	*	5	-6		DC	8	7	7	7	7	6	4	3		
		6	-5												
Cap	30	7	-4	AP	PEN	20	19	17	15	13	8.2	5.1	3.2		
AW	1.2	8	-3		DC	6	6	5	5	4	3	3	2		
	Mag	9	-2												
KD	4	10	-1		BA	60	51	42	35	30	20	15	11		
SAB	3	11	0		TOF	0	0	1	2	2	5	8	11		

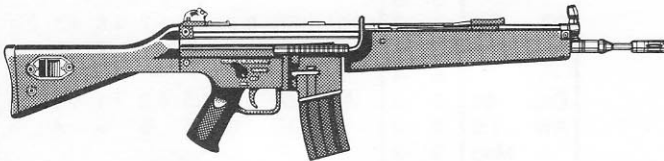
Civilian version Kalashnikov gas operated rifle with heavy barrel.



Civilian version Kalashnikov gas operated rifle with heavy barrel.

L	43	1 -24	FMJ	PEN	20	20	18	17	15	11	7.8	5.6
W	11.7	2 -14		DC	8	8	8	7	7	7	6	5
		3 -10										
RT	8	4 -8	JHP	PEN	19	19	18	16	14	10	7.5	5.4
ROF	*	5 -6		DC	9	9	9	9	9	8	8	7
		6 -5										
Cap	20	7 -4	AP	PEN	28	28	26	23	21	15	11	7.9
AW	1.5	8 -3		DC	8	8	8	7	7	6	6	5
	Mag	9 -2										
KD	10	10 -1		BA	61	53	45	37	33	23	17	13
SAB	5	11 0		TOF	0	0	1	2	2	5	8	11

Civilian version of the Heckler and Koch G41 assault rifle.



Civilian version of the Heckler and Koch G41 assault rifle.

L	39	1	-23	FMJ	PEN	16	15	14	12	11	6.8	4.3	2.8
W	8.6	2	-12		DC	6	6	6	6	5	4	3	2
		3	-9										
RT	8	4	-7	JHP	PEN	15	15	13	12	10	6.5	4.2	2.7
ROF	*	5	-6		DC	8	8	8	7	7	6	5	3
		6	-5										
Cap	30	7	-4	AP	PEN	23	22	20	17	15	9.6	6.1	3.9
AW	1.1	8	-3		DC	6	6	6	5	5	4	3	2
	Mag	9	-2										
KD	4	10	-1		BA	60	51	42	35	30	20	15	11
SAB	3	11	0		TOF	0	0	1	1	2	5	7	11

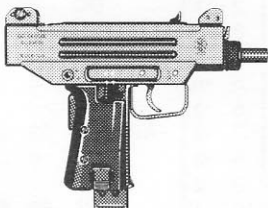
Semi-Automatic rifle based upon the Heckler and Koch G3 assault rifle.



Semi-Automatic rifle based upon the Heckler and Koch G3 assault rifle.

L	40	1	-24	FMJ	PEN	17	16	15	14	13	8.9	6.3	4.5
W	11.1	2	-14		DC	8	7	7	7	7	6	6	4
		3	-9										
RT	8	4	-8	JHP	PEN	16	16	15	13	12	8.5	6.1	4.3
ROF	*	5	-6		DC	9	9	9	9	8	8	7	6
		6	-5										
Cap	20	7	-4	AP	PEN	24	23	22	20	18	13	8.9	6.4
AW	1.4	8	-3		DC	7	7	7	7	7	6	5	4
	Mag	9	-2										
KD	9	10	-1		BA	61	53	44	37	32	23	17	13
SAB	5	11	0		TOF	0	0	1	2	3	5	9	12

Automatic pistol based on the Mini Uzi sub-machinegun.



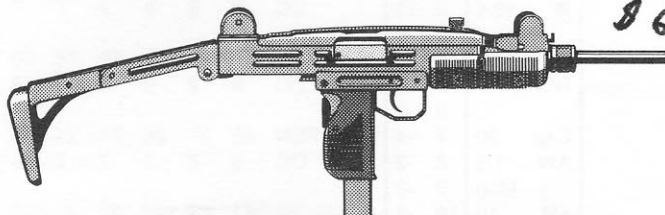
8450

Automatic pistol based on the Mini Uzi sub-machinegun.

L	9	1 -20	FMJ	PEN	1.8	1.6	1.3	1.0	.8	.3	.1
W	5.1	2 -12		DC	3	2	2	1	1	1	1
		3 -10									
RT	5	4 -9	JHP	PEN	1.7	1.6	1.3	1.0	.8	.3	.1
ROF	*	5 -8		DC	4	3	3	2	1	1	1
		6 -7									
Cap	32	7 -7	AP	PEN	2.5	2.3	1.9	1.4	1.1	.4	.2
AW	1.3	8 -6		DC	2	2	2	1	1	1	1
	Mag										
KD	3			BA	45	37	28	20	16	6	1
SAB	3			TOF	1	1	2	4	7	16	26

\$600

Uzi sub-machinegun extensively modified for the commercial market.



\$600

Uzi sub-machinegun extensively modified for the commercial market.

L	24/32	1	-23	FMJ	PEN	3.2	3.0	2.5	2.0	1.6	.7	.3	.1
W	9.5	2	-12		DC	4	4	3	3	2	1	1	1
		3	-9										
RT	8	4	-7	JHP	PEN	3.1	2.9	2.4	1.9	1.5	.7	.3	.1
ROF	*	5	-6		DC	6	6	5	4	3	1	1	1
		6	-4										
Cap	32	7	-3	AP	PEN	4.5	4.2	3.6	2.8	2.2	1.0	.5	.2
AW	1.3	8	-2		DC	4	4	3	3	2	1	1	1
	Mag												
KD	4				BA	46	38	29	21	16	7	2	-2
SAB	3				TOF	0	1	2	3	5	11	19	27

Paramilitary Weapons

Physical Data

Aim
Time
AC Mc

Ballistic Data

Range in 2 yard hexes

10 20 40 70 100 200 300 400

		10	20	40	70	100	200	500	400
FMJ	PEN	16	15	14	12	11	6.8	4.3	2.7
	DC	6	6	6	6	5	4	3	2
JHP	PEN	15	15	13	12	10	6.5	4.1	2.6
	DC	8	8	8	7	7	6	5	3
AP	PEN	22	21	20	17	15	9.5	6.1	3.9
	DC	6	6	6	5	5	4	3	2
	BA	60	51	42	35	30	20	15	11
	TOF	0	0	1	1	2	5	7	11

L	11
W	8.4
RT	6
ROF	*
Cap	30
AW	2.2
	Magn
KD	5
SAB	4

FMJ	PEN	1.7	1.6	1.3	1.0	.8	.4	.2	.1
	DC	3	2	2	1	1	1	1	1
JHP	PEN	1.6	1.5	1.3	1.0	.8	.4	.2	.1
	DC	4	3	3	2	1	1	1	1
AP	PEN	2.4	2.2	1.9	1.5	1.2	.5	.2	.1
	DC	3	2	2	1	1	1	1	1
	BA	45	37	28	21	16	6	1	-3
	TOF	1	1	3	5	8	18	30	43

L	36
W	5.9
RT	8
ROF	*
Cap	30
AW	1.0
	Magn
KD	5
SAB	4

FMJ	PEN	6.9	6.6	5.9	5.0	4.3	2.5	1.5	.9
	DC	6	6	5	5	4	3	2	1
JHP	PEN	6.6	6.3	5.7	4.8	4.1	2.4	1.4	.8
	DC	7	7	7	7	6	4	2	1
AP	PEN	9.8	9.3	8.3	7.1	6.0	3.5	2.1	1.2
	DC	6	5	5	5	4	3	1	1
	BA	50	43	35	28	24	15	9	6
	TOF	0	1	1	2	3	8	13	18

L	28/31
W	7.1
RT	8
ROF	*
Cap	30
AW	1.0
	Magn
KD	4
SAB	3

FMJ	PEN	14	13	12	11	9.3	5.9	3.7	2.3
	DC	6	6	6	5	5	4	3	2
JHP	PEN	14	13	12	10	8.9	5.6	3.5	2.2
	DC	8	7	7	7	7	6	4	3
AP	PEN	20	19	17	15	13	8.3	5.2	3.3
	DC	6	6	5	5	4	3	3	2
	BA	60	51	42	35	30	20	15	11
	TOF	0	0	1	1	2	5	8	11

L	39
W	8.0
RT	8
ROF	*
Cap	30
AW	1.0
	Magn
KD	4
SAB	3

FMJ	PEN	17	16	15	13	11	7.1	4.5	2.9
	DC	6	6	6	6	5	4	3	2
JHP	PEN	16	15	14	12	11	6.8	4.4	2.8
	DC	8	8	8	7	7	6	5	3
AP	PEN	23	22	20	18	16	10	6.4	4.1
	DC	6	6	6	6	5	4	3	2
	BA	60	51	42	35	30	20	15	11
	TOF	0	0	1	1	2	4	7	10

L	45
W	10.4
RT	8
ROF	*
Cap	20
AW	1.5
	Magn
KD	10
SAB	6

FMJ	PEN	20	19	18	16	15	11	7.7	5.5
	DC	8	8	8	7	7	7	6	5
JHP	PEN	19	18	17	16	14	10	7.4	5.3
	DC	9	9	9	9	9	8	8	7
AP	PEN	28	27	25	23	21	15	11	7.8
	DC	8	8	7	7	7	6	6	5
	BA	61	53	45	37	32	23	17	13
	TOE	0	0	1	2	2	5	8	11