

The most comprehensive loading data available for 9mm Luger containing:

9mm Luger

Volume One - First Printing



LoadMAP™

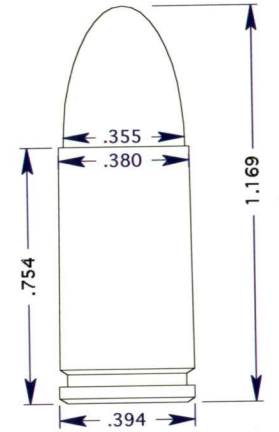
(Maximum Average Pressure)

57 different jacketed, cast and swaged bullets from

19 different propellants from



Accurate Arms



SAAMI Maximum Dimensions
Not actual size

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Hornady
100 grain FMJ/RN

Winchester 231

Charge in grains psi fps

STOP		
5.3	35000	1260
5.2	33800	1239
5.1	32600	1219
5.0	31400	1199
4.9	30200	1179
4.8	29000	1159
4.7	27800	1138
4.6	26600	1118
4.5	25400	1098
4.4	24200	1078
4.3	23000	1058
STOP		

start here

Read pages 2 - 11 before loading. Always watch for excessive pressure signs.

WARNING: Always begin loading in the 'start here' area of the green zone and work your loads up slowly. Loads listed in the yellow zone or the red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9-10.

“WARNINGS AND DISCLAIMER

THE USER OF THIS MANUAL RECOGNIZES, ACKNOWLEDGES, APPRECIATES AND ACCEPTS THE FACT THAT RELOADING CAN BE A DANGEROUS ACTIVITY WHICH CAN RESULT IN SERIOUS INJURY.

BEFORE YOU DO ANYTHING, READ THE FOLLOWING. FAILURE TO DO SO CAN RESULT IN SERIOUS PERSONAL INJURY AND/OR PROPERTY DAMAGE:

WARNING: This manual is not intended to be a comprehensive reloading reference book. It is intended to provide information about specific loads, for the particular caliber indicated on the cover, for use by knowledgeable and experienced reloaders.

THIS MANUAL IS FOR KNOWLEDGEABLE AND EXPERIENCED RELOADERS ONLY.

WARNING: The data contained in this manual was created under strictly controlled conditions in the laboratories of MidwayUSA® (See the section entitled “About this Manual” for additional important information regarding the controlled laboratory conditions.) Exactly follow the specifications and procedures in the

LoadMAPs™. Exactly follow the precise combinations listed in this manual. Load recommendations should never be exceeded.

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Safe reloading practices are the responsibility of the reloader. Unsafe reloading may result in serious injury including death and/or damage to personal property. Safety precautions contained in this manual are only basic, not complete or comprehensive: there is no substitute for a complete understanding of reloading procedures and safeguards.

**UNDER ALL CIRCUMSTANCES,
ALWAYS BEAR IN MIND THE FOLLOWING:**

1. Give your undivided attention to reloading. If you can not do so, do not reload. Never reload while distracted, rushed or under the influence of alcohol, drugs or medication.
2. Follow reloading data precisely.
3. Always begin with the lowest loads and work up. Do not exceed the maximum loads as shown in the LoadMAPs™.
4. Only use components which are clearly labeled.

5. Do not substitute components.
6. Keep firearms and reloading materials out of reach of children.
7. No smoking, open flames, sparks or exposed heat sources while reloading.
8. Use extreme care and caution when handling primers. Primers may ignite and explode if not properly handled.
9. Examine every case to be reloaded and use only those cases which are in excellent condition.
10. Always wear safety glasses to protect your eyes.
11. Never mix propellants of different kinds. Store propellants and primers in their original packages. Do not repackage propellants and/or primers."

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About This Manual

This manual provides comprehensive information about the widest variety of specific bullet and propellant combinations available. Bullets available from MidwayUSA® at the time of publication were fired for pressure and velocity. The information is incorporated into a unique chart we call a LoadMAP™, which displays pressure and velocity levels. The

LoadMAP™ lists maximum loads that produce the ANSI/SAAMI* (American National Standards Institute/Sporting Arms and Ammunition Manufacturers Institute) MAP** (Maximum Average Pressure) in our test gun under laboratory controlled conditions. The LoadMAP™ data was developed using ammunition loaded and fired in accordance with ANSI/SAAMI specifications and procedures from the *Voluntary Industry Performance Standards for Pressure and Velocity of Centerfire Pistol and Revolver Ammunition for the Use of Commercial Manufacturers*, ©1993. The ammunition was tested for pressure and velocity in a Universal Receiver Test Barrel using piezo-electric conformal transducers and the Oehler System 83 pressure recording system.

The current industry standard is to measure and list pressure in pounds per square inch (psi) using piezo-electric transducers. Before piezo-electric transducers, pressures were measured using the copper crusher method and expressed as Copper Units of Pressure, (C.U.P.). Many manuals list pressures in C.U.P. When comparing load data from other sources, it is important to note that there is no method of conversion from C.U.P. to psi.

***ANSI** - ANSI is the agency responsible for the identification of a single, consistent set of voluntary standards called American National Standards. ANSI writes or approves the standards of quality and manufacture for products manufactured in the USA. Address: 11 West 42nd St, 13th Floor, New York, NY 10036.

***SAAMI** - Founded in 1926 in its current form. SAAMI serves the mutual interests of the U.S. sporting firearms and ammunition industry with emphasis on activities to assure safe use of these products. SAAMI is a group of industry members that oversee and maintain the standards of quality and safety in the firearms and ammunition industry. Currently there are 21 SAAMI members. Address: 11 Mile Hill Road, Newtown, CT 06470-2359.

****MAP** - The maximum average pressure considered safe in modern firearms as determined, for most popular cartridges, by SAAMI and its members.

All testing was done with new cartridge cases. Propellant charges were controlled to $\pm 1/10$ th grain. The test ammunition and components were loaded and stored in a temperature and humidity controlled room at 70° Fahrenheit $\pm 2^\circ$ and 60% relative humidity $\pm 5\%$. Our test facility is 758 feet above sea level.

Caution: this manual is not intended to be a comprehensive reloading reference book. It is intended to provide information about specific loads, for the cartridge indicated on the cover, for use by experienced reloaders. If you are not an experienced reloader, set this manual aside until you have learned to reload, either from a comprehensive reloading manual or gained experience from a qualified instructor.

The LoadMAP™

An atlas contains road maps for driving; think of this as an atlas with LoadMAPs™ for reloading. The LoadMAP™ is designed with easy loading in mind. As in driving, there are signs and colors for which to watch. The LoadMAP™ is colored like a traffic signal. The **GREEN** means **GO**, the **YELLOW** means proceed with **CAUTION** and the **RED** bars at the top and bottom mean **STOP**. The colors change as the propellant charge increases and the pressure rises. Always watch for signs of excessive pressure on the trip up the LoadMAP™. The yellow yield sign indicates that **extra caution should be exercised in the yellow and red zones**. Watch your cartridge cases for signs of excessive pressure and be prepared to stop and go back at any time. The stop sign and the STOP bars at the top and the bottom of the chart mean exactly that,— **STOP!** Going through the stop can be very dangerous.

The LoadMAP™ has three columns. The left column shows the propellant charge in grains, the middle column shows the approximate pressure in pounds per square inch (psi) and the right column shows the approximate velocity in feet per second (fps). Your actual pressures and velocities will be different from those indicated by the LoadMAP™. The

Hornady FMJ/RN
9mm 100 grain

Winchester 231

Charge
in
grains psi fps

STOP		
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4.5	25400	1098
4.4	24200	1078
4.3	23000	1058
STOP		



Use
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when
loading
in the
Yellow or
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All
pressures
are listed
in psi not
C.U.P.
See
page 4.

start
here

Read pages 2 - 11 before loading.
Always watch for excessive
pressure signs.

dotted black line across the LoadMAP™ indicates 95% of SAAMI MAP.

Using the LoadMAP™

Select a propellant charge from within the 'start here' area. Load and fire the cartridges as you normally would and watch for signs of excessive pressure as detailed in the next section.

When working up a load you may increase the propellant charge in the green zone faster than you can in the yellow zone or the red zone. A normal practice would be to increase the propellant charge by three tenths of a grain in the green zone but by only one tenth of a grain in the yellow zone or red zone. If, at any time, excessive pressure signs are observed, STOP. Reduce your load to a level where excessive pressure signs are not observed. Consider this the maximum safe load for your firearm under those conditions in which the ammunition was loaded, stored and fired. The most accurate loads are often found below the maximum velocity.

STOP: The top is ANSI/SAAMI MAP. Do not load above the maximum or below the minimum charges shown in the LoadMAP™.

Factors That Affect Pressure

Many factors affect the pressure and velocity a cartridge generates when fired. Any of these factors could result in excessive pressure levels being reached at lower propellant charge weights than occurred in our laboratory testing. Some of the more important factors are:

The Barrel and Chamber

The individual firearm can cause the pressure to be different. Barrels made by the same gunsmith, with the same reamer, from the same barrel stock, on the same day, in the same caliber will develop different pressures using the same loads.

- **Bore condition**

Pressures will normally be lower in a worn barrel than in a new barrel. As the lands are worn down, especially in the throat area, less pressure is required to move the bullet through the bore. Propellant and bullet fouling will cause an increase in pressure. A clean barrel develops less pressure than a dirty barrel. See also the **Jacket Hardness** section on the next page.

- **Bore diameter**

Some firearms with the same chambering may have different bore diameters, e.g., the 7.62 x 39 may have a .308 or .311 bore. Firing a .311 bullet through a .308 bore might develop a higher pressure while firing a .308 bullet through a .311 bore might develop a lower pressure.

- **Chamber condition and dimension**

Anything that increases or decreases the total chamber capacity can affect the pressure. Some examples are: an oversize or undersize chamber, neck diameter, propellant residue, headspace, cleaning solvents, pieces of cleaning patches, rusty or pitted walls. Any increase in chamber size could decrease pressure and any decrease in chamber size could increase pressure.

Individual Cartridge Components

All the various factors involving cartridge components have an impact on the pressure developed when the primer ignites the propellant. Ignition changes the propellant from a solid into a rapidly expanding gas. The expansion of the gas creates the pressure to propel the bullet through the bore. Each factor contributes to the creation of pressure. In some instances, the pressure may exceed the safety limits of the cartridge case or the firearm.

Changing one or more of the cartridge components will create different pressures and velocities in the same firearm. Therefore, we encourage you to experiment with different bullets and propellants so that loads can be tailored for specific needs and shooting conditions. With any change in components, manufacturer or lot number, you should start loading at the 'start here' area and work the load up until the desired performance is achieved.

Bullet

- **Bearing surface**

The bearing surface is the part of the bullet that contacts the lands and grooves of the bore and creates friction. A longer bearing surface generally develops higher pressure than a short bearing surface.

- **Crimp tightness**

The crimp tightness affects how much pressure is required to get the bullet started into the bore. A tighter crimp holds the bullet longer causing the pressure to increase before the bullet leaves the cartridge case mouth. Some firearms may require a tighter crimp, i.e. tubular magazines, to keep the bullet from being pushed into the cartridge case by other cartridges during recoil.

- **Diameter**

A bullet with a diameter smaller than the bore diameter may not seal the bore. This allows gases to escape around the bullet resulting in lower pressures. A bullet with a larger diameter will cause the pressure to increase as the bullet is swaged down to fit in the bore. Some

bullet diameters may be different from the cartridge name i.e. the .303 British has a nominal bullet diameter of .312”.

- **Jacket hardness**

Jacket hardness dictates how easily the jacket will be engraved by the rifling in the barrel. A soft jacket will normally develop lower pressure than a hard jacket. Soft jackets may leave copper deposits in the bore which can cause the pressure to increase rapidly to a potentially dangerous level. The first few shots may have a lower pressure than hard jackets but the pressure can increase with additional shots. Soft jackets require more frequent cleaning.

- **Seating depth**

Seating the bullet deeper reduces the interior dimensions of the cartridge, normally increasing the pressure. Seating the bullet out until it contacts the rifling causes an initial increase in pressure.

- **Weight**

A heavier bullet develops higher pressure than a lighter bullet with the same propellant charge.

Cartridge Case

- **Capacity**

Smaller cartridge case capacity allows less room for the gases to expand, which results in higher pressure.

- **Length**

A cartridge case that is too long may go too far into the throat of the chamber. If this happens, the mouth of the cartridge case will hold the bullet very tightly and the pressure will increase dramatically before the bullet is released.

- **Number of times the cartridge case has been fired**

Each time the cartridge case is fired it lengthens and expands. Cartridge case material moves forward with each firing. The cartridge case neck gets thicker with each firing. A thicker neck will hold the bullet tighter causing an increase in pressure.

- **Resizing of the cartridge case**

When the cartridge case is full-length resized, the shoulder is pushed back. Excessive resizing will cause the interior dimensions to become smaller. This will cause an increase in pressure and may create excessive headspace. The cartridge case may also split or separate upon firing.

- **Wall thickness/Manufacturer**

A thicker cartridge case wall reduces cartridge case capacity. All cartridge case manufacturers have different dimensions they work to. Thus each brand will have different capacities. Military cartridge cases have thicker walls resulting in a lower cartridge case capacity than commercial cartridge cases. If you are unsure of your cartridge case type, assume it is military, start loading at the 'start here' area and expect to reach your maximum safe pressure at a lower propellant charge weight than with commercial cartridge cases.

Propellant

- **Powder Charge**

Some Charts indicate a maximum pressure below the SAAMI MAP. In our testing one tenth grain more powder, than the maximum charge shown, exceeded the Maximum Average pressure allowed. Do not load above the maximum charge shown.

- **Burn rate**

All propellants are coated with a deterrent to control their burn rate. Different propellant types have various shapes and deterrent coatings producing different burn rates. A faster burn rate will generate pressure faster than a slower burn rate. A faster burn rate will require less propellant to attain maximum pressure.

- **Load density**

This refers to how full the cartridge case is by volume of propellant. The fuller the cartridge case, the higher the load density. A slower burning propellant will have a higher load density. A higher load

density will give a more consistent ignition and a more consistent pressure. Propellant granule shape will affect the load density. The smaller the granule the more dense the load will be. Always refer to the LoadMAP for the propellant charge weight of your specific bullet and propellant combination.

Primer

- **Cup**
The cup thickness and hardness varies between type and manufacturer. A soft cup will show signs of excessive pressure easier than a hard or thick cup.
- **Primer flash**
The quantity and type of primer mix varies from lot to lot and manufacturer to manufacturer. A stronger, hotter flash may create a higher peak pressure.

Component Lots

- **Variations**
Bullet weight and shape, cartridge case dimensions, propellant density, propellant burn rate and primer flash all vary from lot to lot. With any change in components, manufacturer or lot number, you should start loading at the 'start here' area and work the load up until the desired performance is achieved.

Atmospheric Conditions

It is important to understand how changes in the shooting and loading environments affect pressures. A cartridge loaded at 950 feet above sea level, at 80 degrees Fahrenheit, and 85% relative humidity will normally develop lower pressures when fired at 3000 feet above sea level, at 60 degrees Fahrenheit and 40% relative humidity. An increase in temperature or a decrease in relative humidity can raise pressures.

• Elevation

An increase in elevation may cause a decrease in pressure due to the thinner air. An increase in elevation may also be accompanied by a decrease in temperature.

• Temperature

Temperature, the most important of the atmospheric condition variables, greatly affects cartridge pressure. As the propellant temperature increases, the propellant is able to burn faster which increases pressure within the cartridge. The propellant temperature change may be due to many factors, including the speed of shooting and exposure to any outside heat source. The chamber temperature increases during firing. If a cartridge is left in a warm chamber for very long the propellant temperature may increase enough to cause a dramatic increase in pressure. When shooting in the summer, it is important not to leave any cartridges exposed to the sun. The propellant temperature will increase rapidly to a level which may produce unsafe pressures.

• Humidity

An increase in relative humidity can decrease the pressure generated by the cartridge. Conversely, a decrease in relative humidity can cause an increase in pressure. The moisture level of the propellant will greatly affect the pressure when the ammunition is shot. The propellant will take on the same relative humidity as where the ammunition is loaded.

The data in this manual shows results achieved in our test facility. Your results will be different. Loads that generate moderate pressure levels in one firearm may generate excessive pressures in another firearm. Always tailor loads for individual firearms.

MidwayUSA[®], 5875 W Van Horn Tavern Road,
Columbia, MO 65203 phone 573-445-2400 FAX 573-446-1018

Excessive Pressure Signs

If, at any time, excessive pressure signs are observed, STOP, you may have exceeded a safe level already. Reduce your load to a level where excessive pressure signs are not observed. Consider this the maximum safe load for your firearm under the conditions the ammunition was loaded, stored and fired.



1. Flattened Primer - The primer is flattened against the bolt face or breech face and fills the entire primer pocket. Some primers are very hard and may not flatten as pressures become excessive. * See footnotes: **a,b**



2. Cratered Primer - The primer flows back into the bolt face or breech face around the firing pin. A circular ridge will appear on the primer around the firing pin indentation. Some primers are very hard and may not crater as pressures become excessive. * See footnotes: **a,c**



3. Pierced Primer - The firing pin has punctured the primer. A black residue normally appears in the firing pin indentation. If the firing pin has punctured the primer, a small piece of the primer may be missing. * See footnotes: **a,c**



4. Loose Primer Pocket - Repeated firings of the same cartridge case, using a high pressure load, can cause the primer pocket to enlarge and allow gases to escape around the primer. This causes a dark ring to appear around the primer and on the bolt face or breech face. * See footnotes: **a,d**



5. Blown Primer - The primer pocket may be much larger than the primer allowing the primer to fall out when the cartridge case is extracted. The face of the primer may blow off leaving the remainder in the primer pocket. * See footnotes: **a,d**

* These conditions may appear as a result of the following:

- a)** excessive pressure.
- b)** excessive headspace caused by an incorrectly adjusted sizing die.
- c)** a problem with the firearm. If you have any questions about the firearm, take the firearm to a qualified gunsmith.
- d)** a worn out cartridge case.
- e)** a manufacturing defect.

Excessive Pressure Signs (continued)



6. Difficult Extraction - The bolt is hard to open and/or the cartridge case is difficult to remove from the chamber. You must use force other than normal finger pressure to operate the bolt or remove the cartridge case. * See footnotes: **a,b,c**

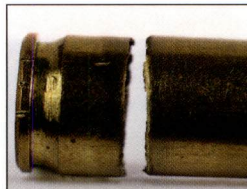


7. Cartridge Case Head Expansion - The cartridge case body expands just above the web area, approximately 1/4" above the extractor groove. To test, fire a factory round and measure just above the web area. If your fired handload is .0005" to .001" larger than the fired factory round, your pressure is too high. * See footnotes: **a,c,e**



8. Incipient Cartridge Case Head Separation - A faint line will appear on the cartridge case body just above the web area, approximately 1/4" above the extractor groove. * See footnotes: **a,b,c,d,e**

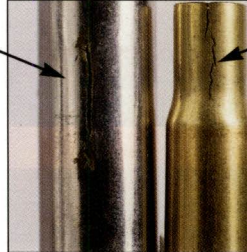
10



9. Cartridge Case Head Separation - The head of the cartridge case partially or completely separates from the body of the cartridge case. The cartridge case will split approximately 1/4" above the extractor groove. * See footnotes: **a,b,c,d,e**



10. Cartridge Case Separation - In some instances the cartridge case may separate closer to the shoulder. * See footnotes: **a,b,c,d**



11. Cartridge Case Splitting - The cartridge case will develop a vertical split anywhere on the cartridge case body or cartridge case mouth. * See footnotes: **a,b,c,d,e**

* These conditions may appear as a result of the following;

- a)** excessive pressure.
- b)** excessive headspace caused by an incorrectly adjusted sizing die.
- c)** a problem with the firearm. If you have any questions about the firearm, take the firearm to a qualified gunsmith.
- d)** a worn out cartridge case.
- e)** a manufacturing defect.

Always use caution when developing loads. For technical assistance, please contact the bullet or propellant company.

Propellant Companies

Accurate Arms Co., Inc., 5891 Hwy 230 West, McEwen, TN 37101
phone 800-416-3006 FAX 615-729-4217

Alliant Techsystems (formerly Hercules powders), New River
Energetics, Rt 114, PO Box 6, Radford, VA 24141-0096
phone 800-276-9337 FAX 540-639-8496

Hodgdon Powder Co., Inc., PO Box 2932, Shawnee Mission, KS 66201
phone 913-362-9455 FAX 913-362-1307

IMR Powder Co., 1080 Military Turnpike, Suite 2,
Plattsburgh, NY 12901
phone 518-563-2253 FAX 518-563-6916

Kaltron-Pettibone, VihtaVuori Oy, 1241 Ellis Street,
Bensenville, IL 60106
phone 630-350-1116

Winchester Div., Olin Corp., 427 N Shamrock, E Alton, IL 62024
phone 618-258-3588 FAX 618-258-3446

Bullet Companies

Barnes Bullets, Inc., 318 S 860 E, PO Box 215,
American Fork, UT 84003
phone 801-756-4222 FAX 801-756-2465

Hornady Mfg. Co., PO Box 1848, Grand Island, NE 68802
phone 800-338-3220 FAX 308-382-5761

MidwayUSA®, 5875 W Van Horn Tavern Road,
Columbia, MO 65202 phone 573-445-2400 FAX 573-446-1018

Nosler, Inc., PO Box 671, Bend, OR 97709
phone 800-285-3701 FAX 541-388-4667

Remington Arms Co., Inc., Product Service Dept., 2592 Arkansas
Hwy 15 North, PO Box 400, Lonoke, AR 72086-0400
phone 501-676-4197 FAX 501-676-4231

Sierra Bullets, 1400 West Henry, Sedalia, MO 65301
phone 800-223-8799 FAX 816-827-4999

Speer Products, Div. of Blount, Inc., PO Box 4000, Lewiston, ID 83501
phone 208-746-2351 or 800-533-5000

Winchester Div., Olin Corp., 427 N Shamrock, E Alton, IL 62024
phone 618-258-3588 FAX 618-258-3446

Bullet Terminology

Abbreviation	Description	Abbreviation	Description	Abbreviation	Description
Barnes		Sierra		Common cont'd	
O	Original	Blitz	Blitz Bullet®	DEWC	Double Ended Wadcutter
S	Solid	FPJ	Full Profile Jacket®	FMJ	Full Metal Jacket
X	X-Bullet®	JHC	Jacketed Hollow Cavity®	FN	Flat Nose
Hornady		SBT	Spitzer Boat Tail®	FP	Flat Point
A-Max™	Accuracy Match Bullet	SMP	Semi-Pointed®	HB	Hollow Base
CL	Crimp Lock™	Speer		HP	Hollow Point
I	Interlock™	GD	Gold Dot®	J	Jacketed
SX™	Super Explosive	GS	Grand Slam®	L	Lead
V-Max™	Plastic Tipped Varmint	Mag-Tip™	Magnum Tip	Match	Match
XTP	Extreme Terminal Performance™	Plinker®	Plinker	MC	Metal Case
UHC	Ultra High Coefficient™	Solid	Solid	PHP	Plated Hollow Point
V	Vector®	TMJ	Total Metal Jacket®	PSP	Pointed Soft Point
Nosler		TNT™	Explosive	RN	Round Nose
BT	Ballistic Tip®	Varminter®	Varminter	SIL	Silhouette
PAR	Partition®	Winchester		SJ	Short-or Semi-Jacketed
PP	Practical Pistol™	PP	Power Point®	SP	Spire Point or Soft Point
SB	Solid Base®	ST	Silver Tip™	SPT, SPTZ	Spitzer
Remington		Common		SST	Semi-Spitzer
BRPT	Bronze Point®	BBWC	Bevel Base Wadcutter	SWC	Semi-Wadcutter
CL	Core Lokt®	BT	Boat Tail	TC	Truncated Cone
ER	Extended Range®			WC	Wadcutter
HPPL	Hollow Point-Power Lokt®				

9mm Luger

.355" Dia.
88 grain
Sectional
Density .099



Remington
JHP

Ballistic Coefficient	N/A
Ctg. Overall Length	1.010



This P.08 Luger has been turned into a "rifle" by adding an extended barrel, a buttstock, and a forend. These guns were produced during WWI as an early attempt to produce a submachine gun and were reserved for use by officers and elite paramilitary units. Although these guns were not fully automatic, they did have a noticeably higher rate of fire than standard P.08 Lugers due to the greater stability of the gun.

BULLET	PAGE
Remington JHPPlated	14

Reducing Cartridge
Over All Length
increases pressure
greatly.

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP) 35,000 psi			



Accurate Arms No. 5

Charge in grains psi fps

STOP		
7.3	35000	1327
7.2	33900	1310
7.1	32900	1293
7.0	31800	1276
6.9	30800	1259
6.8	29800	1242
6.7	28700	1225
6.6	27700	1209
6.5	26600	1192
6.4	25600	1175
6.3	24600	1158
6.2	23500	1141
6.1	22500	1124
6.0	21500	1108
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 7

Charge in grains psi fps

STOP		
* 9.8	32900	1358
9.7	32500	1348
9.6	32100	1338
9.5	31800	1328
9.4	31400	1319
9.3	31100	1309
9.2	30700	1299
9.1	30400	1290
9.0	30000	1280
8.9	29600	1270
8.8	29300	1261
8.7	28900	1251
8.6	28600	1241
8.5	28200	1231
8.4	27900	1222
8.3	27500	1212
8.2	27100	1202
8.1	26800	1193
STOP		

start here

*Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
* 4.6	35000	1305
4.5	33500	1282
4.4	32100	1259
4.3	30700	1236
4.2	29200	1213
4.1	27800	1190
4.0	26400	1167
3.9	25000	1144
3.8	23500	1121
3.7	22100	1098
3.6	20700	1075
3.5	19300	1053
STOP		

start here

*Compressed load.

Alliant Unique

Charge in grains psi fps

STOP		
* 6.6	31100	1405
6.5	30200	1387
6.4	29300	1369
6.3	28400	1351
6.2	27500	1333
6.1	26600	1315
6.0	25700	1297
5.9	24800	1279
5.8	23900	1261
5.7	23000	1243
5.6	22100	1225
5.5	21200	1207
5.4	20300	1189
5.3	19400	1171
5.2	18500	1153
5.1	17600	1135
5.0	16800	1117
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
7.1	35000	1338
7.0	33700	1320
6.9	32400	1302
6.8	31100	1284
6.7	29800	1266
6.6	28500	1248
6.5	27200	1230
6.4	25900	1212
6.3	24600	1194
STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 13 for O.A.L. in our testing.

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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(See the section entitled "About this Manual" for additional important information regarding the controlled laboratory conditions.) Exactly follow the specifications and procedures in the LoadMAPS™. Exactly follow the precise combinations listed in this manual. The maximum load must never be exceeded. Obey the stop bars.

The user of this manual recognizes, acknowledges, appreciates and accepts the fact that reloading can be a dangerous activity which can result in serious injury.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.

9mm Luger

.355" Dia.
90 grain
Sectional
Density .102



	Hornady HP/XTP	Nosler HP	Sierra JHP	Speer Gold Dot
Ballistic Coefficient	.099	.086	.110	.101
Ctg. Overall Length	1.080	1.050	1.010	1.050



This Chinese "Bolo" Broomhandle Mauser has been fitted with a wooden holster/buttstock. China imported Broomhandles by the millions in an effort to circumvent the arms embargo imposed upon them in the first part of the century. The "Bolo" Mausers are of Russian origin ("Bolo" is short for Bolshevik). Russian forces of all stripes found themselves in the employ of Chinese warlords after The October Revolution. Since the Broomhandle was their handgun of choice they were more than happy to train Chinese troops in their use. Chinese Broomhandles began to appear in the United States in the mid-eighties. The quality of these guns varies drastically, since many of these were copied by hand from Russian and European guns—some with an amazing level of craftsmanship.

BULLETPAGE

Hornady HP/XTPJacketed16-17
Nosler HPJacketed18-19
Sierra JHP.....Jacketed20-21
Speer Gold Dot.....Plated22-23

Reducing Cartridge
Over All Length
increases pressure
greatly.

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP) 35,000 psi			



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All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 2		
Charge in grains psi fps		
STOP		
6.4	35000	1436
6.3	34400	1423
6.2	33800	1410
6.1	33300	1397

6.0	32700	1385
5.9	32200	1372
5.8	31600	1359
5.7	31000	1346
5.6	30500	1334
5.5	29900	1321
5.4	29400	1308
5.3	28800	1295
5.2	28300	1283
5.1	27700	1270
5.0	27100	1257
4.9	26600	1244
4.8	26000	1232
4.7	25500	1219
STOP		

start here

Accurate Arms No. 5		
Charge in grains psi fps		
STOP		
7.6	35000	1376
7.5	34000	1360
7.4	33100	1344
7.3	32200	1329
7.2	31300	1313
7.1	30400	1297
7.0	29400	1282
6.9	28500	1266
6.8	27600	1250
6.7	26700	1235
6.6	25800	1219
6.5	24800	1203
6.4	23900	1188
6.3	23000	1172
6.2	22100	1156
6.1	21200	1141
STOP		

start here

Accurate Arms No. 7		
Charge in grains psi fps		
STOP		
9.5	35000	1366
9.4	34300	1353
9.3	33600	1341
9.2	32900	1329
9.1	32200	1317
9.0	31600	1305
8.9	30900	1293
8.8	30200	1281
8.7	29500	1269
8.6	28800	1257
8.5	28200	1245
8.4	27500	1232
8.3	26800	1220
8.2	26100	1208
8.1	25400	1196
8.0	24800	1184
7.9	24100	1172
7.8	23400	1160
7.7	22700	1148
STOP		

start here

Alliant Blue Dot		
Charge in grains psi fps		
STOP		
9.2	23100	1335
9.1	22700	1323
9.0	22300	1311
8.9	21900	1300
8.8	21500	1288
8.7	21100	1276
8.6	20800	1265
8.5	20400	1253
8.4	20000	1241
8.3	19600	1230
8.2	19200	1218
8.1	18800	1206
8.0	18500	1195
7.9	18100	1183
7.8	17700	1171
7.7	17300	1160
7.6	16900	1148
7.5	16600	1137
STOP		

start here

* Compressed load.

Alliant Bullseye		
Charge in grains psi fps		
STOP		
5.1	35000	1363
5.0	33700	1344
4.9	32500	1326
4.8	31300	1307
4.7	30100	1289
4.6	28900	1271
4.5	27600	1252
4.4	26400	1234
4.3	25200	1215
4.2	24000	1197
4.1	22800	1179
STOP		

start here

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Alliant Unique

Charge in grains psi fps

STOP		
6.5	24600	1330
6.4	24000	1316
6.3	23500	1302
6.2	23000	1288
6.1	22500	1275
6.0	22000	1261
5.9	21500	1247
5.8	21000	1234
5.7	20500	1220
5.6	20000	1206
5.5	19500	1192
5.4	19000	1179
5.3	18500	1165
5.2	18000	1151
5.1	17500	1138
5.0	17000	1124
4.9	16500	1110
4.8	16000	1097
STOP		

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
7.9	35000	1410
7.8	33900	1392
7.7	32900	1374
7.6	31800	1356
7.5	30800	1338
7.4	29800	1320
7.3	28700	1302
7.2	27700	1284
7.1	26700	1266
7.0	25600	1248
6.9	24600	1230
6.8	23600	1213
STOP		

IMR 700X

Charge in grains psi fps

STOP		
5.1	35000	1371
5.0	33500	1350
4.9	32100	1329
4.8	30700	1309
4.7	29300	1288
4.6	27900	1268
4.5	26400	1247
4.4	25000	1226
4.3	23600	1206
4.2	22200	1185
4.1	20800	1165
STOP		

*Compressed load.

Winchester 231

Charge in grains psi fps

STOP		
5.4	35000	1346
5.3	33700	1327
5.2	32400	1309
5.1	31100	1291
5.0	29800	1272
4.9	28500	1254
4.8	27200	1236
STOP		

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Use extreme caution when loading in the Yellow or Red zones.

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Reducing Cartridge Over All Length increases pressure greatly. See page 15 for O.A.L. in our testing.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
6.0	35000	1387		
5.9	34200	1374		
5.8	33500	1361		
5.7	32800	1349		
5.6	32100	1336		
5.5	31400	1324		
5.4	30700	1311		
5.3	30000	1299		
5.2	29200	1286		
5.1	28500	1274		
5.0	27800	1261		
4.9	27100	1249		
4.8	26400	1236		
4.7	25700	1224		
4.6	25000	1211		
4.5	24300	1199		
STOP				

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
7.5	35000	1362		
7.4	34000	1345		
7.3	33000	1329		
7.2	32000	1313		
7.1	31000	1297		
7.0	30000	1281		
6.9	29000	1265		
6.8	28000	1249		
6.7	27000	1232		
6.6	26000	1216		
6.5	25000	1200		
6.4	24000	1184		
6.3	23000	1168		
6.2	22000	1152		
6.1	21100	1136		
STOP				

Accurate Arms No.7

Charge in grains			psi	fps
STOP				
* 9.6	33100	1365		
9.5	32500	1352		
9.4	31900	1340		
9.3	31400	1328		
9.2	30800	1316		
9.1	30200	1304		
9.0	29700	1292		
8.9	29100	1280		
8.8	28600	1267		
8.7	28000	1255		
8.6	27400	1243		
8.5	26900	1231		
8.4	26300	1219		
8.3	25700	1207		
8.2	25200	1195		
8.1	24600	1182		
8.0	24100	1170		
7.9	23500	1158		
STOP				

* Compressed load.

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
* 9.2	23800	1335		
9.1	23400	1323		
9.0	23000	1312		
8.9	22600	1300		
8.8	22200	1289		
8.7	21800	1277		
8.6	21400	1266		
8.5	21000	1254		
8.4	20600	1243		
8.3	20200	1231		
8.2	19800	1220		
8.1	19400	1208		
8.0	19000	1197		
7.9	18600	1185		
7.8	18200	1174		
7.7	17800	1162		
7.6	17400	1151		
7.5	17000	1140		
STOP				

* Compressed load.

Alliant Bullseye

Charge in grains			psi	fps
STOP				
5.0	32500	1333		
4.9	31400	1313		
4.8	30300	1293		
4.7	29200	1273		
4.6	28100	1253		
4.5	27000	1233		
4.4	25900	1213		
4.3	24800	1193		
4.2	23700	1173		
4.1	22700	1153		
STOP				

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Reducing Cartridge Over All Length increases pressure greatly. See page 15 for O.A.L. in our testing.

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Alliant Unique

Charge in grains psi fps

STOP		
6.5	25700	1336
6.4	25300	1323
6.3	24900	1311
6.2	24500	1299
6.1	24100	1287
6.0	23700	1274
5.9	23300	1262
5.8	22900	1250
5.7	22500	1238
5.6	22100	1225
5.5	21700	1213
5.4	21300	1201
5.3	20900	1189
5.2	20500	1176
5.1	20100	1164
5.0	19700	1152
4.9	19300	1140
4.8	19000	1128
STOP		

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
8.0	35000	1392
7.9	34100	1377
7.8	33300	1363
7.7	32500	1349
7.6	31700	1334
7.5	30800	1320
7.4	30000	1306
7.3	29200	1291
7.2	28400	1277
7.1	27500	1263
7.0	26700	1248
6.9	25900	1234
6.8	25100	1220
STOP		

start here

IMR 700X

Charge in grains psi fps

STOP		
5.0	32300	1345
4.9	30900	1322
4.8	29500	1300
4.7	28100	1278
4.6	26700	1256
4.5	25300	1234
4.4	23900	1212
4.3	22500	1190
4.2	21100	1168
4.1	19800	1146
STOP		

start here

* Compressed load.

Winchester 231

Charge in grains psi fps

STOP		
5.4	35000	1335
5.3	33600	1316
5.2	32300	1298
5.1	30900	1280
5.0	29600	1261
4.9	28200	1243
4.8	26900	1225
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Accurate Arms No. 2

Charge in grains psi fps

STOP		
6.0	35000	1392
5.9	34400	1379
5.8	33800	1367
5.7	33200	1355
5.6	32600	1343
5.5	32100	1331
5.4	31500	1318
5.3	30900	1306
5.2	30300	1294
5.1	29700	1282
5.0	29200	1270
4.9	28600	1257
4.8	28000	1245
4.7	27400	1233
4.6	26800	1221
4.5	26300	1209
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 5

Charge in grains psi fps

STOP		
7.2	35000	1337
7.1	33900	1321
7.0	32800	1306
6.9	31800	1291
6.8	30700	1275
6.7	29700	1260
6.6	28600	1245
6.5	27600	1230
6.4	26500	1214
6.3	25500	1199
6.2	24400	1184
6.1	23400	1169
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
* 9.6	33200	1366
9.5	32700	1355
9.4	32300	1345
9.3	31800	1334
9.2	31400	1324
9.1	30900	1314
9.0	30500	1303
8.9	30000	1293
8.8	29600	1282
8.7	29100	1272
8.6	28700	1262
8.5	28200	1251
8.4	27800	1241
8.3	27300	1231
8.2	26900	1220
8.1	26400	1210
8.0	26000	1199
7.9	25500	1189
STOP		

start here

* Compressed load.

Alliant Blue Dot

Charge in grains psi fps

STOP		
* 9.0	23500	1317
8.9	23100	1306
8.8	22700	1296
8.7	22300	1286
8.6	21900	1275
8.5	21500	1265
8.4	21100	1255
8.3	20700	1244
8.2	20300	1234
8.1	19900	1224
8.0	19500	1213
7.9	19100	1203
7.8	18700	1193
7.7	18300	1182
7.6	17900	1172
7.5	17600	1162
STOP		

start here

* Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.9	35000	1348
4.8	33700	1326
4.7	32400	1304
4.6	31100	1283
4.5	29900	1261
4.4	28600	1239
4.3	27300	1218
4.2	26000	1196
4.1	24800	1175
STOP		

start here

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Alliant Unique

Charge in grains psi fps

STOP		
6.5	29700	1379
6.4	28900	1361
6.3	28100	1344
6.2	27300	1326
6.1	26500	1309
6.0	25700	1292
5.9	24900	1274
5.8	24100	1257
5.7	23300	1240
5.6	22500	1222
5.5	21700	1205
5.4	20900	1188
5.3	20100	1170
5.2	19300	1153
5.1	18500	1136
5.0	17700	1118
4.9	16900	1101
4.8	16200	1084
STOP		

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
7.6	35000	1377
7.5	33700	1357
7.4	32500	1337
7.3	31300	1318
7.2	30100	1298
7.1	28900	1278
7.0	27700	1259
6.9	26500	1239
6.8	25300	1220
STOP		

IMR 700 X

Charge in grains psi fps

STOP		
5.0	33200	1354
4.9	31800	1331
4.8	30500	1309
4.7	29200	1287
4.6	27900	1264
4.5	26600	1242
4.4	25300	1220
4.3	24000	1197
4.2	22700	1175
4.1	21400	1153
STOP		

*Compressed load.

Winchester 231

Charge in grains psi fps

STOP		
5.1	35000	1310
5.0	33300	1290
4.9	31600	1271
4.8	30000	1252
STOP		

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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Accurate Arms No. 2

Charge in grains psi fps

STOP		
5.8	35000	1349
5.7	34100	1336
5.6	33300	1323
5.5	32400	1311
5.4	31600	1298
5.3	30700	1286
5.2	29900	1273
5.1	29000	1261
5.0	28200	1248
4.9	27300	1236
4.8	26500	1223
4.7	25600	1211
4.6	24800	1198
4.5	24000	1186
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
7.5	35000	1364
7.4	34000	1348
7.3	33100	1332
7.2	32100	1317
7.1	31200	1301
7.0	30200	1286
6.9	29300	1270
6.8	28400	1255
6.7	27400	1239
6.6	26500	1223
6.5	25500	1208
6.4	24600	1192
6.3	23600	1177
6.2	22700	1161
6.1	21800	1146
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
9.5	35000	1361
9.4	34300	1348
9.3	33700	1336
9.2	33000	1324
9.1	32400	1312
9.0	31800	1300
8.9	31100	1288
8.8	30500	1275
8.7	29900	1263
8.6	29200	1251
8.5	28600	1239
8.4	28000	1227
8.3	27300	1215
8.2	26700	1203
8.1	26100	1190
8.0	25400	1178
7.9	24800	1166
7.8	24200	1154
7.7	23500	1142
STOP		

start here

Alliant Blue Dot

Charge in grains psi fps

STOP		
9.0	24900	1335
8.9	24400	1322
8.8	23900	1310
8.7	23500	1297
8.6	23000	1285
8.5	22600	1273
8.4	22100	1260
8.3	21700	1248
8.2	21200	1235
8.1	20800	1223
8.0	20300	1211
7.9	19900	1198
7.8	19400	1186
7.7	19000	1173
7.6	18500	1161
7.5	18100	1149
STOP		

start here

* Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
5.0	35000	1334
4.9	33700	1312
4.8	32400	1290
4.7	31100	1269
4.6	29800	1247
4.5	28500	1225
4.4	27200	1204
4.3	25900	1182
4.2	24600	1160
4.1	23300	1139
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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Exactly follow the precise combinations listed in this manual. The maximum load must never be exceeded. Obey the stop bars.

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Reducing Cartridge Over All Length increases pressure greatly. See page 15 for O.A.L. in our testing.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Alliant Unique

Charge in grains psi fps

STOP		
6.5	29700	1366
6.4	29000	1350
6.3	28400	1334
6.2	27800	1318
6.1	27200	1302
6.0	26500	1286
5.9	25900	1270
5.8	25300	1254
5.7	24700	1238
5.6	24000	1223
5.5	23400	1207
5.4	22800	1191
5.3	22200	1175
5.2	21500	1159
5.1	20900	1143
5.0	20300	1127
4.9	19700	1111
4.8	19100	1096
STOP		

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
8.0	33000	1383
7.9	32100	1366
7.8	31200	1349
7.7	30300	1333
7.6	29400	1316
7.5	28500	1299
7.4	27600	1283
7.3	26700	1266
7.2	25800	1249
7.1	24900	1233
7.0	24000	1216
6.9	23100	1199
6.8	22300	1183
STOP		

IMR 700 X

Charge in grains psi fps

STOP		
4.9	35000	1337
4.8	33300	1313
4.7	31700	1289
4.6	30000	1265
4.5	28400	1241
4.4	26800	1217
4.3	25100	1193
4.2	23500	1169
4.1	21900	1146
STOP		

* Compressed load.

Winchester 231

Charge in grains psi fps

STOP		
5.3	35000	1316
5.2	33500	1295
5.1	32000	1274
5.0	30600	1253
4.9	29100	1232
4.8	27700	1212
STOP		



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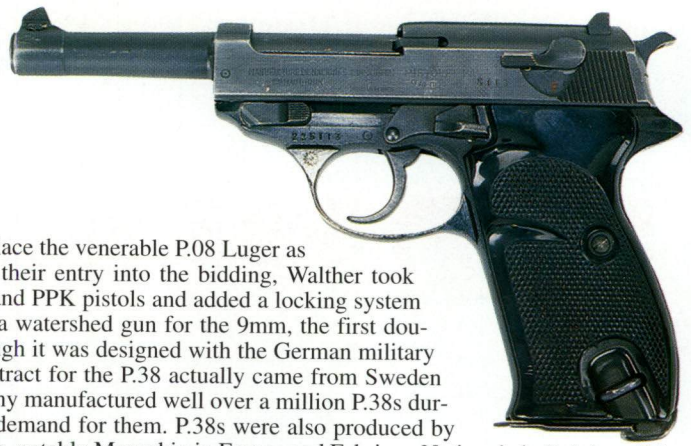
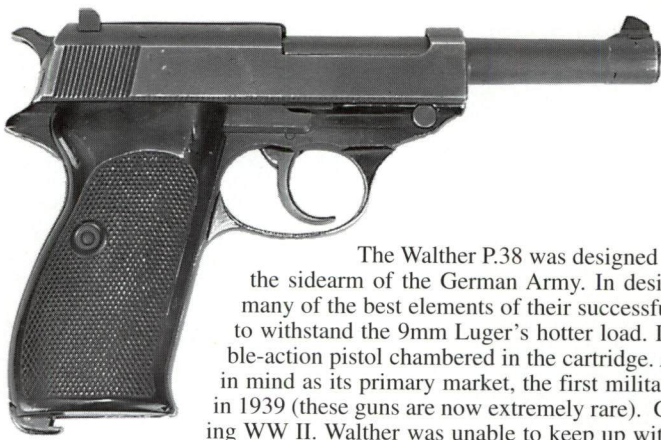
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The Walther P.38 was designed to replace the venerable P.08 Luger as the sidearm of the German Army. In designing their entry into the bidding, Walther took many of the best elements of their successful PP and PPK pistols and added a locking system to withstand the 9mm Luger's hotter load. It was a watershed gun for the 9mm, the first double-action pistol chambered in the cartridge. Although it was designed with the German military in mind as its primary market, the first military contract for the P.38 actually came from Sweden in 1939 (these guns are now extremely rare). Germany manufactured well over a million P.38s during WW II. Walther was unable to keep up with the demand for them. P.38s were also produced by

Mauser and Spreewerk, as well as by other arms factories in occupied territories, notably Manurhin in France and Fabrique Nationale in Belgium. When the Russians swept into Germany at the end of the war, they seized thousands of P.38s and immediately put them to use after the war in the hands of East German police forces.

American forces treated the P.38s they took from captured soldiers as trophies and souvenirs and the influx of these guns in the years after the war was one of the key events in popularizing the 9mm in The United States. Thousands of P.38 were taken and many of these filtered to the civilian public through pawnshops and gun shows during the fifties. This influx repeated itself when the West German police retired the P.38 in the mid-eighties and importers brought the trade-ins to the United States. Many P.38s available to collectors in America are of the Manurhin wartime issue, since most of the Walther and Mauser models were used on the Russian front and later found their way into the hands of Communist Bloc security forces. The P.38 did not cease production after the collapse of the Third Reich. In 1951, Manurhin entered into a license agreement with Walther to produce PP and PPK pistols and tooled up to make the P.38 as well, but were unable to find an adequate steel heat treatment for the materials to make the gun and never entered commercial production. By this time, though, Walther had rebuilt its manufacturing capabilities in Germany and resumed production of the P.38. Walther continued to produce them well into the 1990s and it has been widely used by police forces across Europe. Walther has also chambered the P.38 in .30 Luger and .22 LR. A promised P.38 in .45 caliber never appeared.

9mm Luger

.355" Dia.
95 grain
Sectional
Density .108



	Remington FMJ	Sierra FMJ	Speer FMJ	Winchester FMJ
Ballistic Coefficient	N/A	.114	.131	N/A
Ctg. Overall Length	1.060	1.020	1.040	1.070

Reducing Cartridge
Over All Length
increases pressure
greatly.

BULLETPAGE

Remington FMJPlated	26-27
Sierra FMJJacketed	28-29
Speer TMJPlated	30-31
Winchester FMJJacketed	32-33

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP) 35,000 psi			



Accurate Arms No. 2

Charge in grains psi fps

STOP		
5.7	35000	1341
5.6	34000	1326
5.5	33000	1311
5.4	32000	1297
5.3	31100	1282
5.2	30100	1268
5.1	29100	1253
5.0	28100	1238
4.9	27200	1224
4.8	26200	1209
4.7	25200	1195
4.6	24200	1180
4.5	23300	1166
STOP		

Use extreme caution when loading in the Yellow or Red zones.

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start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
7.4	35000	1338
7.3	33900	1320
7.2	32800	1302
7.1	31800	1284
7.0	30700	1266
6.9	29600	1248
6.8	28600	1230
6.7	27500	1213
6.6	26400	1195
6.5	25400	1177
6.4	24300	1159
6.3	23200	1141
6.2	22200	1123
6.1	21100	1105
6.0	20100	1088
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
9.5	35000	1348
9.4	34300	1336
9.3	33600	1324
9.2	33000	1312
9.1	32300	1300
9.0	31700	1289
8.9	31000	1277
8.8	30400	1265
8.7	29700	1253
8.6	29100	1242
8.5	28400	1230
8.4	27800	1218
8.3	27100	1206
8.2	26500	1195
8.1	25800	1183
8.0	25200	1171
7.9	24500	1159
7.8	23900	1148
STOP		

start here

Alliant Blue Dot

Charge in grains psi fps

STOP		
9.7	27400	1382
9.6	26900	1370
9.5	26400	1358
9.4	25900	1346
9.3	25500	1334
9.2	25000	1322
9.1	24500	1310
9.0	24000	1299
8.9	23600	1287
8.8	23100	1275
8.7	22600	1263
8.6	22100	1251
8.5	21700	1239
8.4	21200	1228
8.3	20700	1216
8.2	20200	1204
8.1	19800	1192
8.0	19300	1180
STOP		

start here

*Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
5.0	35000	1325
4.9	33700	1306
4.8	32400	1287
4.7	31200	1268
4.6	29900	1249
4.5	28600	1230
4.4	27400	1211
STOP		

start here

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Alliant Unique		
Charge in grains	psi	fps
STOP		
* 7.1	35000	1434
7.0	34000	1417
6.9	33000	1401
6.8	32100	1385
6.7	31100	1369
6.6	30100	1353
6.5	29200	1337
6.4	28200	1321
6.3	27300	1305
6.2	26300	1289
6.1	25300	1272
6.0	24400	1256
5.9	23400	1240
5.8	22500	1224
5.7	21500	1208
5.6	20500	1192
5.5	19600	1176
5.4	18600	1160
STOP		

start here

*Compressed load.

Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
* 7.7	35000	1354
7.6	33900	1338
7.5	32900	1322
7.4	31800	1306
7.3	30800	1291
7.2	29800	1275
7.1	28700	1259
7.0	27700	1244
6.9	26600	1228
6.8	25600	1212
6.7	24600	1197
STOP		

start here

IMR 700X		
Charge in grains	psi	fps
STOP		
* 5.2	35000	1342
5.1	33900	1323
5.0	32800	1304
4.9	31700	1285
4.8	30600	1266
4.7	29600	1247
4.6	28500	1228
4.5	27400	1209
4.4	26300	1190
4.3	25200	1171
4.2	24200	1152
4.1	23100	1133
4.0	22000	1114
3.9	20900	1095
3.8	19900	1077
STOP		

start here

*Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
5.4	35000	1307
5.3	33600	1287
5.2	32200	1268
5.1	30800	1248
5.0	29500	1229
4.9	28100	1209
4.8	26700	1190
4.7	25300	1170
4.6	24000	1151
STOP		

start here

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Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
5.7	35000	1351		
5.6	34100	1336		
STOP				
5.5	33200	1321		
5.4	32300	1306		
5.3	31400	1292		
5.2	30500	1277		
5.1	29700	1262		
5.0	28800	1247		
4.9	27900	1233		
4.8	27000	1218		
4.7	26100	1203		
4.6	25200	1188		
4.5	24400	1174		
STOP				

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start here

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
7.3	32200	1314		
7.2	31300	1297		
7.1	30400	1280		
7.0	29600	1263		
6.9	28700	1246		
6.8	27900	1229		
6.7	27000	1212		
6.6	26200	1195		
6.5	25300	1178		
6.4	24500	1161		
6.3	23600	1144		
6.2	22800	1127		
6.1	21900	1110		
6.0	21100	1094		
STOP				

start here

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
* 9.5	32100	1327		
9.4	31700	1317		
9.3	31400	1308		
9.2	31100	1299		
9.1	30700	1290		
9.0	30400	1281		
8.9	30100	1271		
8.8	29700	1262		
8.7	29400	1253		
8.6	29100	1244		
8.5	28800	1235		
8.4	28400	1226		
8.3	28100	1216		
8.2	27800	1207		
8.1	27400	1198		
8.0	27100	1189		
7.9	26800	1180		
7.8	26500	1171		
STOP				

start here

* Compressed load.

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
* 9.7	27200	1375		
9.6	26700	1364		
9.5	26300	1354		
9.4	25900	1344		
9.3	25500	1333		
9.2	25100	1323		
9.1	24700	1313		
9.0	24300	1302		
8.9	23900	1292		
8.8	23500	1282		
8.7	23100	1271		
8.6	22700	1261		
8.5	22300	1251		
8.4	21900	1240		
8.3	21500	1230		
8.2	21100	1220		
8.1	20700	1209		
8.0	20300	1199		
STOP				

start here

* Compressed load.

Alliant Bullseye

Charge in grains			psi	fps
STOP				
4.8	35000	1298		
4.7	33400	1278		
STOP				
4.6	31800	1258		
4.5	30200	1238		
4.4	28700	1219		
STOP				

start here

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Alliant Unique		
Charge in grains	psi	fps
STOP		
7.1	35000	1438
7.0	34000	1421
6.9	33100	1405
6.8	32200	1388
6.7	31300	1372
6.6	30400	1356
6.5	29500	1339
6.4	28500	1323
6.3	27600	1306
6.2	26700	1290
6.1	25800	1274
6.0	24900	1257
5.9	24000	1241
5.8	23000	1224
5.7	22100	1208
5.6	21200	1192
5.5	20300	1175
5.4	19400	1159
STOP		

start here

*Compressed load.

Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
7.6	35000	1353
7.5	34000	1337
7.4	33000	1322
7.3	32100	1307
7.2	31100	1292
7.1	30200	1276
7.0	29200	1261
6.9	28300	1246
6.8	27300	1231
6.7	26400	1216
STOP		

start here

IMR 700X		
Charge in grains	psi	fps
STOP		
5.2	29700	1321
5.1	28900	1303
5.0	28200	1286
4.9	27500	1269
4.8	26800	1252
4.7	26000	1235
4.6	25300	1218
4.5	24600	1201
4.4	23900	1184
4.3	23200	1167
4.2	22400	1150
4.1	21700	1133
4.0	21000	1116
3.9	20300	1099
3.8	19600	1082
STOP		

start here

*Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
5.2	35000	1302
5.1	33500	1280
5.0	32100	1258
4.9	30700	1237
4.8	29200	1215
4.7	27800	1193
4.6	26400	1172
STOP		

start here

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All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
5.8	35000	1345		
5.7	34000	1331		
5.6	33100	1317		
5.5	32200	1304		
5.4	31300	1290		
5.3	30400	1276		
5.2	29500	1263		
5.1	28600	1249		
5.0	27700	1236		
4.9	26800	1222		
4.8	25900	1208		
4.7	25000	1195		
4.6	24100	1181		
4.5	23200	1168		
STOP				

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
7.3	35000	1323		
7.2	33900	1305		
7.1	32800	1288		
7.0	31800	1271		
6.9	30700	1254		
6.8	29600	1236		
6.7	28600	1219		
6.6	27500	1202		
6.5	26500	1185		
6.4	25400	1167		
6.3	24300	1150		
6.2	23300	1133		
6.1	22200	1116		
6.0	21200	1099		
STOP				

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
9.5	32800	1320		
9.4	32300	1310		
9.3	31800	1300		
9.2	31400	1291		
9.1	30900	1281		
9.0	30400	1271		
8.9	30000	1262		
8.8	29500	1252		
8.7	29000	1242		
8.6	28600	1233		
8.5	28100	1223		
8.4	27600	1213		
8.3	27200	1204		
8.2	26700	1194		
8.1	26200	1184		
8.0	25800	1175		
7.9	25300	1165		
7.8	24900	1156		
STOP				

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
9.7	28400	1392		
9.6	27900	1380		
9.5	27400	1368		
9.4	27000	1356		
9.3	26500	1345		
9.2	26100	1333		
9.1	25600	1321		
9.0	25200	1310		
8.9	24700	1298		
8.8	24300	1286		
8.7	23800	1275		
8.6	23400	1263		
8.5	22900	1251		
8.4	22500	1240		
8.3	22000	1228		
8.2	21600	1216		
8.1	21100	1205		
8.0	20700	1193		
STOP				

Alliant Bullseye

Charge in grains			psi	fps
STOP				
4.9	35000	1310		
4.8	33800	1292		
4.7	32600	1274		
4.6	31400	1257		
4.5	30200	1239		
4.4	29100	1222		
STOP				

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*Compressed load.

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Alliant Unique

Charge in grains			psi	fps
STOP				
7.1	31100	1401		
7.0	30300	1386		
6.9	29600	1372		
6.8	28900	1357		
6.7	28100	1343		
6.6	27400	1329		
6.5	26700	1314		
6.4	25900	1300		
6.3	25200	1285		
6.2	24500	1271		
6.1	23700	1257		
6.0	23000	1242		
5.9	22300	1228		
5.8	21500	1213		
5.7	20800	1199		
5.6	20100	1185		
5.5	19300	1170		
5.4	18600	1156		
STOP				

* Compressed load.

Hodgdon HS-6

Charge in grains			psi	fps
STOP				
7.6	33100	1350		
7.5	32200	1332		
7.4	31300	1315		
7.3	30400	1298		
7.2	29500	1281		
7.1	28600	1263		
7.0	27700	1246		
6.9	26800	1229		
6.8	25900	1212		
6.7	25000	1195		
STOP				

IMR 700X

Charge in grains			psi	fps
STOP				
4.9	35000	1326		
4.8	33300	1300		
4.7	31600	1274		
4.6	29900	1248		
4.5	28200	1222		
4.4	26500	1196		
4.3	24900	1170		
4.2	23200	1144		
4.1	21500	1118		
4.0	19800	1092		
3.9	18100	1066		
3.8	16500	1041		
STOP				

* Compressed load.

Winchester 231

Charge in grains			psi	fps
STOP				
5.2	35000	1286		
5.1	33500	1268		
5.0	32000	1251		
4.9	30500	1233		
4.8	29000	1216		
4.7	27500	1198		
4.6	26100	1181		
STOP				

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Reducing Cartridge Over All Length increases pressure greatly. See page 25 for O.A.L. in our testing.

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Accurate Arms No. 2

Charge in grains psi fps

STOP		
5.7	35000	1348
5.6	34000	1333
5.5	33100	1318
5.4	32200	1304
5.3	31200	1289
5.2	30300	1274
5.1	29400	1260
5.0	28400	1245
4.9	27500	1230
4.8	26600	1216
4.7	25600	1201
4.6	24700	1186
4.5	23800	1172
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 5

Charge in grains psi fps

STOP		
7.4	35000	1334
7.3	33900	1317
7.2	32900	1300
7.1	31800	1283
7.0	30800	1266
6.9	29800	1250
6.8	28700	1233
6.7	27700	1216
6.6	26700	1199
6.5	25600	1182
6.4	24600	1166
6.3	23600	1149
6.2	22500	1132
6.1	21500	1115
6.0	20500	1099
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
* 9.5	32400	1334
9.4	31900	1323
9.3	31400	1313
9.2	30900	1302
9.1	30400	1292
9.0	29900	1281
8.9	29400	1271
8.8	28900	1261
8.7	28400	1250
8.6	28000	1240
8.5	27500	1229
8.4	27000	1219
8.3	26500	1209
8.2	26000	1198
8.1	25500	1188
8.0	25000	1177
7.9	24500	1167
7.8	24100	1157
STOP		

start here

* Compressed load.

Alliant Blue Dot

Charge in grains psi fps

STOP		
* 9.7	26500	1372
9.6	26100	1362
9.5	25700	1352
9.4	25300	1342
9.3	24900	1332
9.2	24500	1322
9.1	24100	1312
9.0	23700	1303
8.9	23300	1293
8.8	22900	1283
8.7	22500	1273
8.6	22100	1263
8.5	21700	1253
8.4	21300	1244
8.3	20900	1234
8.2	20500	1224
8.1	20100	1214
8.0	19700	1204
STOP		

start here

* Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
5.0	35000	1321
4.9	33600	1303
4.8	32300	1285
4.7	30900	1267
4.6	29600	1249
4.5	28200	1231
4.4	26900	1213
STOP		

start here



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Alliant Unique

Charge in grains psi fps

STOP		
7.1	30700	1410
7.0	29900	1394
6.9	29100	1378
6.8	28300	1362
6.7	27500	1346
6.6	26700	1330
6.5	25900	1314
6.4	25100	1298
6.3	24300	1282
6.2	23500	1266
6.1	22700	1250
6.0	21900	1234
5.9	21100	1218
5.8	20300	1202
5.7	19500	1186
5.6	18700	1170
5.5	17900	1154
5.4	17100	1138
STOP		

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
7.6	35000	1347
7.5	33800	1330
7.4	32600	1314
7.3	31400	1298
7.2	30200	1282
7.1	29000	1266
7.0	27800	1250
6.9	26600	1234
6.8	25400	1218
6.7	24300	1202
STOP		

start here

IMR 700X

Charge in grains psi fps

STOP		
4.9	31900	1309
4.8	30700	1288
4.7	29500	1267
4.6	28300	1247
4.5	27100	1226
4.4	25900	1205
4.3	24700	1185
4.2	23500	1164
4.1	22300	1143
4.0	21100	1123
3.9	19900	1102
3.8	18800	1082
STOP		

start here

*Compressed load.

Winchester 231

Charge in grains psi fps

STOP		
5.4	35000	1313
5.3	33700	1295
5.2	32500	1278
5.1	31300	1260
5.0	30100	1243
4.9	28800	1226
4.8	27600	1208
4.7	26400	1191
4.6	25200	1174
STOP		

start here

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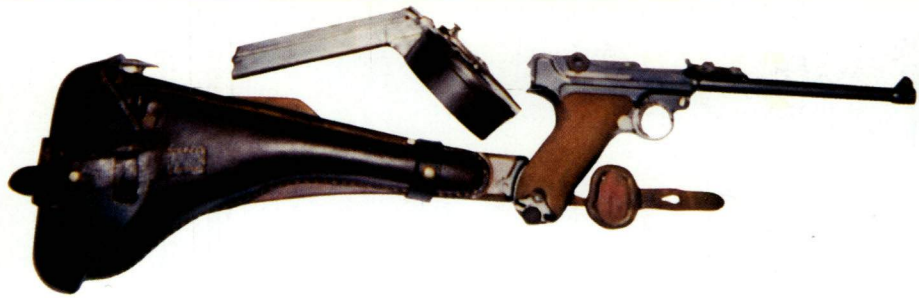
The Browning High Power was the last pistol designed by John Browning, but a great deal of the credit for the design that eventually went into production can be assigned to Dieudonne Saive, who modified the gun over the course of a decade at the whims of the French Military. The French were pleased with the first version of the gun presented to them in 1922, but they had three objections (four, if you count the fact that they wanted a French-designed gun): it lacked an indicator that the gun was loaded or cocked, it was too heavy, and it was too difficult to strip in the field. Most of Saive's modification addressed these issues. He shortened the gun and reduced the size of the magazine from 15 rounds to 13 to make it lighter, and he redesigned the magazine and the safety to meet the other requirements the French imposed. These sorts of modifications continued for years as the French constantly made it clear that they preferred the French-designed MAS 1932. However, Saive's tireless innovation eventually produced a winner in the FN Model 1935. Saive's pistol has been adopted by the militaries of numerous countries over the years, beginning with Belgium and France (who adopted a knockoff of FN's designs). Great Britain adopted the High Power during WW II. Germany captured FN when they swept through Belgium in 1940 and immediately began producing High Powers of their own for use as a substitute standard. The Browning Arms Co introduced the High Power to the American marketplace in the mid-fifties. By the mid-sixties, High Powers were being produced world wide, although in some countries with bans on civilian ownership of military firearms, they were re-chambered in 7.65 Luger because 9mm Luger was considered a military round. In the 1970s FN began producing double-action versions of the High Power, which were among the pistols tested by the United States Department of Defense. According to Browning, the single action High Power had been adopted as the official military or police sidearm in more than 68 countries by 1990.

9mm Luger

.355" Dia.
 100 grain
 Sectional
 Density .113



	Hornady FMJ/RN	Speer HP
Ballistic Coefficient	.115	.111
Ctg. Overall Length	1.105	1.050



BULLET	PAGE
Hornady FMJ/RNJacketed	36
Speer HP.....Plated.....	37

Reducing Cartridge Over All Length increases pressure greatly.

This P.08 Luger has been fitted with a holster/buttstock, an extended barrel, and a 32-round snail magazine. The same snail magazine was also used on the MP18I, Germany's first true submachine gun, which made its debut in 1918. Collectors should be aware that P.08 Lugers fitted with wooden buttstocks are considered to be submachine guns by the BATF.

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP) 35,000 psi			



Accurate Arms No. 7

Charge in grains psi fps

STOP		
* 9.4	35000	1329
9.3	34400	1315
9.2	33800	1302
9.1	33200	1289
9.0	32600	1276
8.9	32000	1263
8.8	31500	1250
8.7	30900	1237
8.6	30300	1224
8.5	29700	1211
8.4	29100	1198
8.3	28600	1185
8.2	28000	1171
8.1	27400	1158
8.0	26800	1145
7.9	26200	1132
7.8	25600	1119
7.7	25100	1106
STOP		

*Compressed load.

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All pressures are listed in psi not C.U.P. See page 4.

Alliant Bullseye

Charge in grains psi fps

STOP		
* 4.9	35000	1269
4.8	33600	1248
4.7	32300	1227
4.6	31000	1206
4.5	29600	1185
4.4	28300	1164
4.3	27000	1144
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
* 5.9	23400	1185
5.8	23000	1173
5.7	22600	1161
5.6	22300	1149
5.5	21900	1137
5.4	21500	1125
5.3	21200	1113
5.2	20800	1101
5.1	20500	1089
5.0	20100	1077
4.9	19700	1065
4.8	19400	1053
4.7	19000	1041
4.6	18700	1029
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
* 7.6	35000	1308
7.5	34100	1293
7.4	33200	1278
7.3	32300	1264
7.2	31400	1249
7.1	30500	1235
7.0	29600	1220
6.9	28700	1206
6.8	27800	1191
6.7	26900	1177
6.6	26000	1162
6.5	25200	1148
STOP		

start here

Winchester 231

Charge in grains psi fps

STOP		
* 5.3	35000	1260
5.2	33800	1239
5.1	32600	1219
5.0	31400	1199
4.9	30200	1179
4.8	29000	1159
4.7	27800	1138
4.6	26600	1118
4.5	25400	1098
4.4	24200	1078
4.3	23000	1058
STOP		

start here

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Reducing Cartridge Over All Length increases pressure greatly. See page 35 for O.A.L. in our testing.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Accurate Arms No. 7

Charge in grains psi fps

STOP		
* 9.5	35000	1302
9.4	34500	1291
9.3	34100	1281
9.2	33600	1271
9.1	33200	1261
9.0	32700	1251
8.9	32300	1241
8.8	31800	1231
8.7	31400	1221
8.6	31000	1211
8.5	30500	1201
8.4	30100	1191
8.3	29600	1180
8.2	29200	1170
8.1	28700	1160
8.0	28300	1150
7.9	27900	1140
7.8	27400	1130
STOP		

*Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.7	35000	1252
4.6	33500	1234
4.5	32000	1217
4.4	30500	1199
4.3	29100	1182
STOP		

Alliant Unique

Charge in grains psi fps

STOP		
* 5.9	30400	1257
5.8	29700	1240
5.7	29100	1224
5.6	28500	1208
5.5	27900	1192
5.4	27300	1176
5.3	26700	1160
5.2	26100	1143
5.1	25500	1127
5.0	24900	1111
4.9	24300	1095
4.8	23700	1079
4.7	23100	1063
4.6	22500	1047
STOP		

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
7.3	35000	1290
7.2	33800	1272
7.1	32700	1254
7.0	31500	1237
6.9	30400	1219
6.8	29300	1201
6.7	28100	1184
6.6	27000	1166
6.5	25900	1149
STOP		

Winchester 231

Charge in grains psi fps

STOP		
5.1	35000	1253
5.0	33800	1234
4.9	32700	1216
4.8	31500	1197
4.7	30400	1179
4.6	29200	1160
4.5	28100	1142
4.4	26900	1123
4.3	25800	1105
STOP		

Reducing Cartridge Over All Length increases pressure greatly. See page 35 for O.A.L. in our testing.



Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



The 7.65mm C/93 Borchardt pistol on the right was the first commercially viable automatic pistol. This ungainly firearm was produced by Ludwig Lowe & Co. and first offered for sale in 1894. Hugo Borchardt's gun is the jumping-off point for the evolution of the automatic pistol. The Mauser C/96, or "Broomhandle" (pictured on the left), represents an early branching of that evolution. Mauser modified Borchardt's cartridge into a 7.63x25mm round, commonly known as .30 Mauser, and built their gun around it. The Mauser C/96 first appeared in 1895 and was a modest commercial success, but its failure in the military marketplace sent Georg Luger to the drawing board to develop his famed P.08. The Broomhandle saw its widest use in China. During the first part of the century, an arms embargo prevented the Chinese from importing rifles and machine guns, but allowed pistols. Since the Broomhandle was easily converted into a "rifle" by adding a wooden stock, the Broomhandle became the weapon of choice for Chinese militaries. These variants, known as "box cannons," saw extensive combat in the hands of Kuomintang Nationalists under Chiang Kai-Shek, Mao Tse Tung's communists, and in the numerous private armies of Chinese warlords. The Broomhandle's most famous owner was journalist/adventurer/soldier Winston Churchill, who used it during the Boer War and highly recommended the gun to the British military (they ignored him). The Broomhandle also found its way into the hands of the Russian Army. Russian Mausers are often referred to as "Bolo" Mausers, after the Bolshevik troops that carried them. The Russians tinkered with the round even further and their end product, the 7.62x25mm Tokarev, became the standard issue of the Communist Bloc.

9mm Luger

.355" * .357" Dia.
115 grain
Sectional
Density .130



	Hornady FMJ/RN	Hornady HP/XTP	MidwayUSA FMJ/RN	Nosler FMJ	Nosler HP	Nosler *P. P.
Ballistic Coefficient	.140	.129	N/A	.103	.110	.110
Ctg. Overall Length	1.140	1.100	1.165	1.115	1.055	1.055

Reducing Cartridge Over All Length increases pressure greatly.



	Remington FMJ	Remington JHP	Sierra FMJ	Sierra JHP	Speer Gold Dot	Speer JHP
Ballistic Coefficient	N/A	N/A	.132	.137	.125	.118
Ctg. Overall Length	1.160	1.115	1.130	1.030	1.145	1.125

BULLETPAGE

Hornady FMJ/RNJacketed40-41

Hornady HP/XTPJacketed42-43

MidwayUSA FMJ/RNPlated44-45

Nosler FMJJacketed46-47

Nosler HPJacketed48-49

Nosler *Practical PistolJacketed50-51

Remington FMJJacketed52-53

Remington JHP.....Jacketed54-55

Sierra FMJJacketed56-57

Sierra JHP.....Jacketed58-59

Speer Gold Dot.....Plated60-61

Speer JHPPlated62-63

Speer TMJPlated64-65

Winchester FMJJacketed66-67

Winchester FMJ/HBJacketed68-69

Winchester JHPJacketed70-71

Winchester ST/HPJacketed72-73



	Speer TMJ	Winchester FMJ	Winchester FMJ/HB	Winchester JHP	Winchester ST/HP
Ballistic Coefficient	.177	N/A	N/A	N/A	N/A
Ctg. Overall Length	1.165	1.165	1.169	1.120	1.130

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP)			35,000 psi



Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.8	35000	1202
6.7	34100	1187
6.6	33300	1173

6.5	32500	1159
6.4	31600	1145
6.3	30800	1131
6.2	30000	1117
6.1	29200	1103
6.0	28300	1089
5.9	27500	1075
5.8	26700	1061
5.7	25900	1047
5.6	25000	1033
5.5	24200	1019
5.4	23400	1005
5.3	22600	991
STOP		

start here

Alliant Bullseye

Charge in grains psi fps

STOP		
4.5	35000	1164
4.4	33900	1143
4.3	32800	1123
4.2	31700	1103
4.1	30600	1083
4.0	29500	1063
3.9	28400	1043
3.8	27300	1023
3.7	26200	1003
3.6	25100	983
3.5	24100	963
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.4	30800	1148
5.3	30000	1131
5.2	29300	1115
5.1	28500	1099
5.0	27800	1082
4.9	27000	1066
4.8	26300	1050
4.7	25500	1034
4.6	24800	1017
4.5	24000	1001
4.4	23300	985
4.3	22600	969
STOP		

start here

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.9	33100	1195
6.8	32200	1178
6.7	31300	1162
6.6	30500	1145
6.5	29600	1129
6.4	28800	1113
6.3	27900	1096
6.2	27000	1080
6.1	26200	1063
6.0	25300	1047
5.9	24500	1031
STOP		

start here

IMR 700X

Charge in grains psi fps

STOP		
4.5	35000	1179
4.4	33800	1157
4.3	32700	1135
4.2	31500	1114
4.1	30400	1092
4.0	29200	1070
3.9	28100	1049
3.8	26900	1027
3.7	25800	1005
3.6	24600	984
3.5	23500	962
3.4	22300	940
3.3	21200	919
3.2	20000	897
3.1	18900	876
STOP		

start here

* Compressed load.



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Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

IMR SR4756

Charge in grains	Charge in grains	
	psi	fps
STOP		
6.5	29600	1191
6.4	29100	1177
6.3	28600	1163
6.2	28100	1149
6.1	27600	1136
6.0	27100	1122
5.9	26600	1108
5.8	26100	1094
5.7	25600	1081
5.6	25100	1067
5.5	24600	1053
5.4	24100	1039
5.3	23600	1026
5.2	23100	1012
5.1	22600	998
5.0	22100	985
STOP		

* Compressed load.

IMR SR7625

Charge in grains	Charge in grains	
	psi	fps
STOP		
5.5	35000	1164
5.4	34000	1146
STOP		
5.3	33000	1128
5.2	32100	1111
5.1	31100	1093
5.0	30200	1075
4.9	29200	1058
4.8	28200	1040
4.7	27300	1022
4.6	26300	1005
4.5	25400	987
4.4	24400	969
4.3	23400	952
4.2	22500	934
4.1	21500	916
4.0	20600	899
STOP		

* Compressed load.

Winchester 231

Charge in grains	Charge in grains	
	psi	fps
STOP		
4.6	35000	1117
4.5	33800	1095
STOP		
4.4	32700	1074
4.3	31600	1053
4.2	30500	1032
4.1	29300	1011
4.0	28200	990
3.9	27100	968
3.8	26000	947
3.7	24800	926
3.6	23700	905
3.5	22600	884
3.4	21500	863
3.3	20400	842
STOP		

Winchester 540

Charge in grains	Charge in grains	
	psi	fps
STOP		
7.0	35000	1196
6.9	33800	1179
STOP		
6.8	32600	1163
6.7	31400	1147
6.6	30300	1131
6.5	29100	1115
6.4	27900	1099
6.3	26800	1083
STOP		

Winchester 571

Charge in grains	Charge in grains	
	psi	fps
STOP		
7.8	35000	1187
7.7	34000	1171
STOP		
7.6	33100	1156
7.5	32100	1141
7.4	31200	1126
7.3	30300	1111
7.2	29300	1095
7.1	28400	1080
7.0	27400	1065
6.9	26500	1050
6.8	25600	1035
STOP		

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Accurate Arms No. 5

Charge in grains			psi		fps	
STOP						
6.5	35000	1180				
6.4	34300	1168				
6.3	33700	1156				
STOP						
6.2	33100	1144				
6.1	32500	1133				
6.0	31900	1121				
5.9	31300	1109				
5.8	30600	1097				
5.7	30000	1086				
5.6	29400	1074				
5.5	28800	1062				
5.4	28200	1050				
5.3	27600	1039				
STOP						

start here

Alliant Bullseye

Charge in grains			psi		fps	
STOP						
4.4	35000	1163				
4.3	33900	1143				
STOP						
4.2	32900	1124				
4.1	31900	1104				
4.0	30800	1085				
3.9	29800	1065				
3.8	28800	1046				
3.7	27700	1026				
3.6	26700	1007				
3.5	25700	988				
STOP						

start here

Alliant Unique

Charge in grains			psi		fps	
STOP						
5.4	35000	1194				
5.3	34000	1175				
STOP						
5.2	33000	1157				
5.1	32100	1138				
5.0	31100	1120				
4.9	30100	1101				
4.8	29200	1083				
4.7	28200	1064				
4.6	27200	1046				
4.5	26300	1027				
4.4	25300	1009				
4.3	24400	991				
STOP						

start here

*Compressed load.

Hodgdon HS-6

Charge in grains			psi		fps	
STOP						
6.6	35000	1187				
6.5	33700	1166				
STOP						
6.4	32500	1146				
6.3	31200	1126				
6.2	30000	1105				
6.1	28700	1085				
6.0	27500	1065				
5.9	26300	1045				
STOP						

start here

IMR 700X

Charge in grains			psi		fps	
STOP						
4.1	33200	1131				
4.0	28700	1058				
3.9	24200	985				
3.8	19700	912				
STOP						

start here

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IMR SR4756			
Charge in grains	psi	fps	
STOP			
6.5	35000	1237	*
6.4	34200	1220	
6.3	33400	1204	
6.2	32700	1188	
6.1	31900	1172	
6.0	31200	1156	
5.9	30400	1140	
5.8	29700	1124	
5.7	28900	1108	
5.6	28200	1092	
5.5	27400	1076	
5.4	26700	1060	
5.3	25900	1044	
5.2	25200	1028	
5.1	24400	1012	
5.0	23700	996	
STOP			

* Compressed load.

IMR SR7625			
Charge in grains	psi	fps	
STOP			
5.5	35000	1179	*
5.4	34100	1163	
5.3	33300	1147	
5.2	32400	1131	
5.1	31600	1115	
5.0	30700	1099	
4.9	29900	1083	
4.8	29000	1067	
4.7	28200	1051	
4.6	27300	1035	
4.5	26500	1019	
4.4	25600	1003	
4.3	24800	987	
4.2	23900	971	
4.1	23100	955	
4.0	22300	940	
STOP			

* Compressed load.

Winchester 231			
Charge in grains	psi	fps	
STOP			
4.3	35000	1087	
4.2	33600	1065	
4.1	32200	1043	
4.0	30900	1021	
3.9	29500	1000	
3.8	28200	978	
3.7	26800	956	
3.6	25400	935	
3.5	24100	913	
3.4	22700	891	
3.3	21400	870	
STOP			

start here

Winchester 540			
Charge in grains	psi	fps	
STOP			
6.8	35000	1186	
6.7	33600	1166	
6.6	32200	1147	
6.5	30800	1127	
6.4	29400	1108	
6.3	28100	1089	
STOP			

start here

Winchester 571			
Charge in grains	psi	fps	
STOP			
7.7	32600	1174	
7.6	31900	1159	
7.5	31300	1144	
7.4	30600	1129	
7.3	30000	1114	
7.2	29300	1100	
7.1	28700	1085	
7.0	28000	1070	
6.9	27400	1055	
6.8	26800	1041	
STOP			

start here

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Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
6.9	35000	1191		
6.8	34200	1178		
6.7	33400	1165		
6.6	32600	1153		
6.5	31800	1140		
6.4	31000	1127		
6.3	30300	1115		
6.2	29500	1102		
6.1	28700	1090		
6.0	27900	1077		
5.9	27100	1064		
5.8	26400	1052		
5.7	25600	1039		
5.6	24800	1026		
5.5	24000	1014		
5.4	23200	1001		
5.3	22500	989		
STOP				

start here

Alliant Bullseye

Charge in grains			psi	fps
STOP				
4.6	35000	1164	*	
4.5	34000	1143		
4.4	33000	1123		
4.3	32000	1103		
4.2	31000	1083		
4.1	30000	1063		
4.0	29000	1043		
3.9	28000	1023		
3.8	27000	1003		
3.7	26000	983		
3.6	25000	963		
3.5	24100	943		
STOP				

start here

Alliant Unique

Charge in grains			psi	fps
STOP				
5.4	27900	1108	*	
5.3	27100	1092		
5.2	26300	1076		
5.1	25500	1060		
5.0	24700	1044		
4.9	23900	1028		
4.8	23200	1013		
4.7	22400	997		
4.6	21600	981		
4.5	20800	965		
4.4	20000	949		
4.3	19300	934		
STOP				

start here

*Compressed load.

Hodgdon HS-6

Charge in grains			psi	fps
STOP				
6.9	32000	1176	*	
6.8	31200	1159		
6.7	30400	1143		
6.6	29600	1127		
6.5	28800	1110		
6.4	28000	1094		
6.3	27200	1078		
6.2	26400	1061		
6.1	25600	1045		
6.0	24800	1029		
5.9	24100	1013		
STOP				

start here

IMR 700X

Charge in grains			psi	fps
STOP				
4.4	32000	1147	*	
4.3	31000	1126		
4.2	30000	1105		
4.1	29100	1084		
4.0	28100	1063		
3.9	27100	1042		
3.8	26200	1021		
3.7	25200	1000		
3.6	24300	979		
3.5	23300	958		
3.4	22300	937		
3.3	21400	916		
3.2	20400	895		
3.1	19500	874		
STOP				

start here

*Compressed load.

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IMR SR4756		
Charge in grains	psi	fps
STOP		
6.5	28300	1166
6.4	27700	1150
6.3	27100	1134
6.2	26600	1118
6.1	26000	1102
6.0	25500	1087
5.9	24900	1071
5.8	24400	1055
5.7	23800	1039
5.6	23300	1023
5.5	22700	1008
5.4	22200	992
5.3	21600	976
5.2	21100	960
5.1	20500	944
5.0	20000	929
STOP		

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.5	31000	1130
5.4	30200	1113
5.3	29400	1097
5.2	28700	1081
5.1	27900	1065
5.0	27200	1049
4.9	26400	1033
4.8	25700	1017
4.7	24900	1001
4.6	24200	985
4.5	23400	969
4.4	22700	953
4.3	21900	937
4.2	21200	921
4.1	20400	905
4.0	19700	889
STOP		

* Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
4.6	35000	1111
4.5	33800	1089
4.4	32600	1068
4.3	31500	1046
4.2	30300	1025
4.1	29100	1003
4.0	28000	982
3.9	26800	960
3.8	25700	939
3.7	24500	917
3.6	23300	896
3.5	22200	874
3.4	21000	853
3.3	19900	832
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
7.1	35000	1200
7.0	33800	1182
6.9	32700	1165
6.8	31600	1148
6.7	30500	1131
6.6	29400	1114
6.5	28300	1097
6.4	27200	1080
6.3	26100	1063
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
7.9	31800	1173
7.8	31100	1157
7.7	30400	1142
7.6	29700	1126
7.5	29000	1111
7.4	28300	1095
7.3	27600	1080
7.2	26900	1064
7.1	26200	1049
7.0	25500	1033
6.9	24800	1018
6.8	24100	1003
STOP		

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Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.9	35000	1197
6.8	34400	1185
6.7	33800	1173
6.6	33300	1161
6.5	32700	1149
6.4	32100	1137
6.3	31600	1125
6.2	31000	1113
6.1	30500	1102
6.0	29900	1090
5.9	29300	1078
5.8	28800	1066
5.7	28200	1054
5.6	27600	1042
5.5	27100	1030
5.4	26500	1018
5.3	26000	1007
STOP		

start here

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Alliant Bullseye

Charge in grains psi fps

STOP		
4.5	35000	1158
4.4	33800	1137
4.3	32700	1117
4.2	31500	1097
4.1	30400	1076
4.0	29200	1056
3.9	28100	1036
3.8	26900	1015
3.7	25800	995
3.6	24600	975
3.5	23500	955
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.4	28900	1120
5.3	28200	1106
5.2	27500	1093
5.1	26800	1079
5.0	26200	1066
4.9	25500	1053
4.8	24800	1039
4.7	24100	1026
4.6	23500	1013
4.5	22800	999
4.4	22100	986
4.3	21500	973
STOP		

start here

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.8	33000	1192
6.7	32000	1175
6.6	31100	1158
6.5	30200	1142
6.4	29300	1125
6.3	28300	1108
6.2	27400	1092
6.1	26500	1075
6.0	25600	1058
5.9	24700	1042
STOP		

start here

IMR 700X

Charge in grains psi fps

STOP		
4.2	31400	1123
4.1	30300	1101
4.0	29200	1080
3.9	28100	1058
3.8	27100	1037
3.7	26000	1015
3.6	24900	994
3.5	23800	972
3.4	22800	951
3.3	21700	929
3.2	20600	908
3.1	19600	887
STOP		

start here

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IMR SR4756			
Charge in grains	psi	fps	
STOP			
6.5	27500	1180	*
6.4	27100	1167	
6.3	26700	1155	
6.2	26300	1142	
6.1	25900	1130	
6.0	25500	1118	
5.9	25100	1105	
5.8	24700	1093	
5.7	24300	1080	
5.6	23900	1068	
5.5	23500	1056	
5.4	23100	1043	
5.3	22700	1031	
5.2	22300	1018	
5.1	21900	1006	
5.0	21600	994	
STOP			

* Compressed load.

IMR SR7625			
Charge in grains	psi	fps	
STOP			
5.5	29800	1149	*
5.4	29100	1133	
5.3	28500	1117	
5.2	27800	1101	
5.1	27200	1085	
5.0	26500	1069	
4.9	25900	1053	
4.8	25200	1037	
4.7	24600	1021	
4.6	23900	1005	
4.5	23300	989	
4.4	22600	973	
4.3	22000	957	
4.2	21300	941	
4.1	20700	925	
4.0	20100	910	
STOP			

* Compressed load.

Winchester 231			
Charge in grains	psi	fps	
STOP			
4.6	35000	1119	
4.5	33700	1098	
4.4	32500	1077	
4.3	31300	1057	
4.2	30000	1036	
4.1	28800	1015	
4.0	27600	995	
3.9	26300	974	
3.8	25100	954	
3.7	23900	933	
3.6	22600	912	
3.5	21400	892	
3.4	20200	871	
3.3	19000	851	
STOP			

start here

Winchester 540			
Charge in grains	psi	fps	
STOP			
7.1	35000	1197	
7.0	34000	1182	
6.9	33000	1167	
6.8	32000	1153	
6.7	31000	1138	
6.6	30000	1123	
6.5	29000	1109	
6.4	28000	1094	
6.3	27000	1080	
STOP			

start here

Winchester 571			
Charge in grains	psi	fps	
STOP			
7.8	31700	1170	
7.7	31100	1157	
7.6	30500	1145	
7.5	30000	1132	
7.4	29400	1120	
7.3	28900	1107	
7.2	28300	1095	
7.1	27700	1082	
7.0	27200	1070	
6.9	26600	1057	
6.8	26100	1045	
STOP			

start here

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Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.3	35000	1162
6.2	34100	1146
6.1	33300	1131

6.0	32500	1116
5.9	31600	1100
5.8	30800	1085
5.7	30000	1070
5.6	29100	1054
5.5	28300	1039
5.4	27500	1024
5.3	26700	1009
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

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Alliant Bullseye

Charge in grains psi fps

STOP		
4.2	35000	1125
4.1	33400	1103
4.0	31900	1082
3.9	30400	1061
3.8	28900	1039
3.7	27400	1018
3.6	25900	997
3.5	24400	976
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.3	35000	1176
5.2	33900	1159
5.1	32800	1143
5.0	31700	1126
4.9	30600	1110
4.8	29600	1093
4.7	28500	1077
4.6	27400	1060
4.5	26300	1044
4.4	25200	1027
4.3	24200	1011
STOP		

start here

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.5	35000	1179
6.4	33800	1162
6.3	32700	1145
6.2	31600	1128
6.1	30400	1111
6.0	29300	1094
5.9	28200	1078
STOP		

start here

IMR 700X

Charge in grains psi fps

STOP		
4.3	32600	1149
4.2	31500	1127
4.1	30500	1105
4.0	29400	1083
3.9	28400	1061
3.8	27300	1039
3.7	26300	1018
3.6	25300	996
3.5	24200	974
3.4	23200	952
3.3	22100	930
3.2	21100	908
3.1	20100	887
STOP		

start here

* Compressed load.

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

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The user of this manual recognizes, acknowledges, appreciates and accepts the fact that reloading can be a dangerous activity which can result in serious injury.

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Use extreme caution when loading in the Yellow or Red zones.

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IMR SR4756		
Charge in grains	psi	fps
STOP		
6.5	35000	1221
6.4	34100	1206
6.3	33300	1192
6.2	32500	1178
6.1	31700	1164
6.0	30900	1150
5.9	30100	1135
5.8	29300	1121
5.7	28400	1107
5.6	27600	1093
5.5	26800	1079
5.4	26000	1064
5.3	25200	1050
5.2	24400	1036
5.1	23600	1022
5.0	22800	1008
STOP		

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.5	35000	1168
5.4	34100	1152
5.3	33200	1137
5.2	32400	1122
5.1	31500	1106
5.0	30600	1091
4.9	29800	1076
4.8	28900	1060
4.7	28000	1045
4.6	27200	1030
4.5	26300	1014
4.4	25400	999
4.3	24600	984
4.2	23700	968
4.1	22800	953
4.0	22000	938
STOP		

Winchester 231		
Charge in grains	psi	fps
STOP		
4.2	35000	1076
4.1	33400	1053
4.0	31900	1030
3.9	30300	1008
3.8	28800	985
3.7	27200	963
3.6	25700	940
3.5	24100	918
3.4	22600	895
3.3	21100	873
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
6.8	33000	1196
6.7	32600	1181
6.6	32200	1166
6.5	31800	1151
6.4	31400	1136
6.3	31000	1122
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
7.7	33100	1174
7.6	32500	1161
7.5	32000	1149
7.4	31400	1137
7.3	30900	1125
7.2	30300	1113
7.1	29800	1101
7.0	29200	1089
6.9	28700	1077
6.8	28200	1065
STOP		

Use extreme caution when loading in the Yellow or Red zones.

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Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

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All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
6.2	35000	1134		
6.1	33600	1115		
6.0	32300	1097		
5.9	31000	1078		
5.8	29700	1060		
5.7	28400	1041		
5.6	27100	1023		
5.5	25800	1004		
5.4	24500	986		
5.3	23200	968		
STOP				

Alliant Bullseye

Charge in grains			psi	fps
STOP				
4.1	35000	1095	*	
4.0	33500	1074		
3.9	32100	1054		
3.8	30700	1033		
3.7	29200	1013		
3.6	27800	992		
3.5	26400	972		
STOP				

Alliant Unique

Charge in grains			psi	fps
STOP				
5.2	35000	1174	*	
5.1	33600	1153		
5.0	32200	1133		
4.9	30900	1113		
4.8	29500	1092		
4.7	28100	1072		
4.6	26800	1052		
4.5	25400	1031		
4.4	24000	1011		
4.3	22700	991		
STOP				

* Compressed load.

Hodgdon HS-6

Charge in grains			psi	fps
STOP				
6.3	35000	1159	*	
6.2	33800	1142		
6.1	32700	1126		
6.0	31500	1110		
5.9	30400	1094		
STOP				

IMR 700X

Charge in grains			psi	fps
STOP				
3.9	32800	1095	*	
3.8	31400	1070		
3.7	30000	1045		
3.6	28600	1020		
3.5	27200	995		
3.4	25800	970		
3.3	24400	946		
3.2	23000	921		
3.1	21600	896		
3.0	20200	871		
2.9	18800	846		
2.8	17500	822		
STOP				

* Compressed load.

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.



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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.1	35000	1199
6.0	33900	1182
5.9	32800	1166
5.8	31800	1150
5.7	30700	1133
5.6	29700	1117
5.5	28600	1101
5.4	27600	1085
5.3	26500	1068
5.2	25500	1052
5.1	24400	1036
5.0	23400	1020
STOP		

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.3	35000	1152
5.2	34100	1136
5.1	33200	1120
5.0	32300	1104
4.9	31400	1088
4.8	30500	1072
4.7	29600	1056
4.6	28700	1040
4.5	27800	1024
4.4	26900	1008
4.3	26000	992
4.2	25100	976
4.1	24200	960
4.0	23300	945
STOP		

* Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
4.1	35000	1052
4.0	33400	1029
3.9	31900	1007
3.8	30300	985
3.7	28800	963
3.6	27300	941
3.5	25700	919
3.4	24200	897
3.3	22700	875
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
6.8	35000	1199
6.7	34000	1183
6.6	33000	1167
6.5	32000	1151
6.4	31000	1135
6.3	30000	1120
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
7.5	35000	1168
7.4	34100	1153
7.3	33200	1139
7.2	32400	1125
7.1	31500	1110
7.0	30700	1096
6.9	29800	1082
6.8	29000	1068
STOP		

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Accurate Arms No. 5

Charge in grains psi fps

STOP		
7.0	35000	1204
6.9	34200	1191
6.8	33400	1178

6.7	32700	1166
6.6	31900	1153
6.5	31200	1141
6.4	30400	1128
6.3	29700	1115
6.2	28900	1103
6.1	28200	1090
6.0	27400	1078
5.9	26700	1065
5.8	25900	1052
5.7	25200	1040
5.6	24400	1027
5.5	23700	1015
5.4	22900	1002
5.3	22200	990
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.5	35000	1157
4.4	33700	1136
4.3	32500	1115
4.2	31200	1094
4.1	30000	1074
4.0	28800	1053
3.9	27500	1032
3.8	26300	1012
3.7	25000	991
3.6	23800	970
3.5	22600	950
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.4	25800	1125
5.3	25400	1113
5.2	25000	1101
5.1	24700	1089
5.0	24300	1078
4.9	23900	1066
4.8	23600	1054
4.7	23200	1042
4.6	22800	1031
4.5	22500	1019
4.4	22100	1007
4.3	21800	996
STOP		

start here

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.9	32700	1186
6.8	31800	1170
6.7	30900	1155
6.6	30000	1139
6.5	29100	1124
6.4	28200	1108
6.3	27300	1093
6.2	26400	1077
6.1	25500	1062
6.0	24600	1046
5.9	23700	1031
STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

IMR 700X

Charge in grains psi fps

STOP		
4.4	35000	1161
4.3	33700	1139
4.2	32500	1117
4.1	31300	1095
4.0	30100	1074
3.9	28900	1052
3.8	27700	1030
3.7	26500	1009
3.6	25300	987
3.5	24100	965
3.4	22900	944
3.3	21700	922
3.2	20500	900
3.1	19300	879
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

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Use extreme caution when loading in the Yellow or Red zones.

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IMR SR4756		
Charge in grains	psi	fps
STOP		
6.5	27700	1162
6.4	27200	1149
6.3	26700	1136
6.2	26300	1123
6.1	25800	1111
6.0	25300	1098
5.9	24900	1085
5.8	24400	1072
5.7	23900	1060
5.6	23500	1047
5.5	23000	1034
5.4	22500	1021
5.3	22100	1009
5.2	21600	996
5.1	21100	983
5.0	20700	971
STOP		

*Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.5	31900	1158
5.4	31000	1140
5.3	30200	1122
5.2	29400	1104
5.1	28600	1086
5.0	27800	1068
4.9	26900	1050
4.8	26100	1032
4.7	25300	1014
4.6	24500	996
4.5	23700	978
4.4	22800	960
4.3	22000	942
4.2	21200	924
4.1	20400	906
4.0	19600	889
STOP		

*Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
4.7	35000	1138
4.6	33700	1116
4.5	32500	1094
4.4	31200	1073
4.3	30000	1051
4.2	28700	1030
4.1	27500	1008
4.0	26200	987
3.9	25000	965
3.8	23700	943
3.7	22500	922
3.6	21200	900
3.5	20000	879
3.4	18700	857
3.3	17500	836
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
7.2	35000	1219
7.1	33700	1202
7.0	32500	1185
6.9	31200	1168
6.8	30000	1151
6.7	28700	1134
6.6	27500	1117
6.5	26200	1100
6.4	25000	1083
6.3	23800	1066
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
8.0	35000	1203
7.9	34100	1187
7.8	33200	1172
7.7	32400	1157
7.6	31500	1142
7.5	30700	1126
7.4	29800	1111
7.3	28900	1096
7.2	28100	1081
7.1	27200	1065
7.0	26400	1050
6.9	25500	1035
6.8	24700	1020
STOP		

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

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Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.8	35000	1186
6.7	34300	1173
6.6	33700	1161

6.5	33000	1148
6.4	32400	1136
6.3	31700	1124
6.2	31100	1111
6.1	30400	1099
6.0	29800	1086
5.9	29100	1074
5.8	28500	1062
5.7	27800	1049
5.6	27200	1037
5.5	26500	1024
5.4	25900	1012
5.3	25300	1000
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

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Alliant Bullseye

Charge in grains psi fps

STOP		
4.4	35000	1133
4.3	33800	1114

4.2	32700	1095
4.1	31600	1076
4.0	30500	1057
3.9	29300	1038
3.8	28200	1019
3.7	27100	1000
3.6	26000	981
3.5	24900	963
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.4	31800	1155
5.3	30900	1138
5.2	30100	1121
5.1	29300	1104
5.0	28500	1088
4.9	27700	1071
4.8	26900	1054
4.7	26100	1037
4.6	25300	1021
4.5	24500	1004
4.4	23700	987
4.3	22900	971
STOP		

start here

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.7	35000	1185
6.6	33700	1164
6.5	32500	1143
6.4	31200	1123
6.3	30000	1102
6.2	28800	1081
6.1	27500	1061
6.0	26300	1040
5.9	25100	1020
STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

IMR 700X

Charge in grains psi fps

STOP		
4.4	33100	1145
4.3	32000	1125
4.2	30900	1105
4.1	29800	1085
4.0	28800	1065
3.9	27700	1045
3.8	26600	1025
3.7	25600	1006
3.6	24500	986
3.5	23400	966
3.4	22400	946
3.3	21300	926
3.2	20200	906
3.1	19200	887
STOP		

start here

* Compressed load.

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IMR SR4756			
Charge in grains	psi	fps	
STOP			
6.5	31600	1182	*
6.4	30900	1168	
6.3	30300	1154	
6.2	29700	1140	
6.1	29000	1126	
6.0	28400	1112	
5.9	27800	1098	
5.8	27100	1084	
5.7	26500	1070	
5.6	25900	1056	
5.5	25200	1042	
5.4	24600	1028	
5.3	24000	1014	
5.2	23300	1000	
5.1	22700	986	
5.0	22100	973	
STOP			

* Compressed load.

IMR SR7625			
Charge in grains	psi	fps	
STOP			
5.5	32200	1139	*
5.4	31500	1123	
5.3	30800	1108	
5.2	30100	1093	
5.1	29400	1078	
5.0	28800	1063	
4.9	28100	1047	
4.8	27400	1032	
4.7	26700	1017	
4.6	26000	1002	
4.5	25400	987	
4.4	24700	971	
4.3	24000	956	
4.2	23300	941	
4.1	22600	926	
4.0	22000	911	
STOP			

* Compressed load.

Winchester 231			
Charge in grains	psi	fps	
STOP			
4.5	35000	1088	
4.4	33700	1066	
4.3	32400	1045	
4.2	31200	1024	
4.1	29900	1003	
4.0	28600	982	
3.9	27400	961	
3.8	26100	940	
3.7	24800	919	
3.6	23600	898	
3.5	22300	877	
3.4	21000	856	
3.3	19800	835	
STOP			

Winchester 540			
Charge in grains	psi	fps	
STOP			
7.1	35000	1202	
7.0	34000	1186	
6.9	33100	1170	
6.8	32100	1154	
6.7	31200	1138	
6.6	30300	1122	
6.5	29300	1106	
6.4	28400	1090	
6.3	27500	1075	
STOP			

Winchester 571			
Charge in grains	psi	fps	
STOP			
7.9	35000	1187	
7.8	34100	1173	
7.7	33300	1159	
7.6	32500	1145	
7.5	31700	1131	
7.4	30900	1117	
7.3	30100	1104	
7.2	29300	1090	
7.1	28500	1076	
7.0	27700	1062	
6.9	26900	1048	
6.8	26100	1035	
STOP			

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.8	35000	1195
6.7	34200	1180
6.6	33400	1165
6.5	32600	1151
6.4	31800	1136
6.3	31000	1121
6.2	30200	1107
6.1	29400	1092
6.0	28600	1077
5.9	27800	1063
5.8	27000	1048
5.7	26200	1033
5.6	25400	1019
5.5	24600	1004
5.4	23800	989
5.3	23000	975
STOP		

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start here

Alliant Bullseye

Charge in grains psi fps

STOP		
4.4	35000	1153
4.3	33700	1131
4.2	32500	1110
4.1	31300	1089
4.0	30100	1068
3.9	28800	1047
3.8	27600	1026
3.7	26400	1005
3.6	25200	984
3.5	24000	963
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.4	30900	1147
5.3	30100	1130
5.2	29300	1113
5.1	28500	1097
5.0	27700	1080
4.9	26900	1063
4.8	26100	1047
4.7	25300	1030
4.6	24500	1013
4.5	23700	997
4.4	22900	980
4.3	22100	964
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.7	35000	1191
6.6	33800	1173
6.5	32700	1155
6.4	31500	1137
6.3	30400	1120
6.2	29200	1102
6.1	28100	1084
6.0	26900	1066
5.9	25800	1049
STOP		

start here

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IMR 700X

Charge in grains psi fps

STOP		
4.4	31000	1135
4.3	30000	1114
4.2	29100	1093
4.1	28200	1072
4.0	27300	1052
3.9	26400	1031
3.8	25500	1010
3.7	24500	990
3.6	23600	969
3.5	22700	948
3.4	21800	928
3.3	20900	907
3.2	20000	886
3.1	19100	866
STOP		

start here

*Compressed load.

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IMR SR4756

Charge in grains			psi	fps
STOP				
6.5	32100	1188		
6.4	31500	1175		
6.3	31000	1163		
6.2	30500	1151		
6.1	30000	1139		
6.0	29500	1127		
5.9	28900	1115		
5.8	28400	1103		
5.7	27900	1090		
5.6	27400	1078		
5.5	26900	1066		
5.4	26300	1054		
5.3	25800	1042		
5.2	25300	1030		
5.1	24800	1018		
5.0	24300	1006		
STOP				

* Compressed load.

IMR SR7625

Charge in grains			psi	fps
STOP				
5.5	32500	1151		
5.4	31600	1133		
5.3	30800	1115		
5.2	30000	1097		
5.1	29100	1080		
5.0	28300	1062		
4.9	27500	1044		
4.8	26700	1026		
4.7	25800	1009		
4.6	25000	991		
4.5	24200	973		
4.4	23400	955		
4.3	22500	938		
4.2	21700	920		
4.1	20900	902		
4.0	20100	885		
STOP				

Winchester 231

Charge in grains			psi	fps
STOP				
4.5	33100	1102		
4.4	31900	1081		
4.3	30700	1061		
4.2	29600	1041		
4.1	28400	1021		
4.0	27300	1001		
3.9	26100	981		
3.8	24900	961		
3.7	23800	941		
3.6	22600	921		
3.5	21500	901		
3.4	20300	881		
3.3	19200	861		
STOP				

Winchester 540

Charge in grains			psi	fps
STOP				
7.1	35000	1195		
7.0	34100	1182		
6.9	33300	1170		
6.8	32500	1157		
6.7	31700	1145		
6.6	30900	1132		
6.5	30100	1120		
6.4	29300	1107		
6.3	28500	1095		
STOP				

Winchester 571

Charge in grains			psi	fps
STOP				
7.7	35000	1181		
7.6	34000	1167		
7.5	33100	1154		
7.4	32200	1141		
7.3	31300	1127		
7.2	30400	1114		
7.1	29500	1101		
7.0	28600	1087		
6.9	27700	1074		
6.8	26800	1061		
STOP				

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Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.1	35000	1147
6.0	34000	1130
5.9	33100	1113
5.8	32100	1096
5.7	31200	1079
5.6	30200	1062
5.5	29300	1045
5.4	28300	1028
5.3	27400	1012
STOP		

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

start here

Alliant Bullseye

Charge in grains psi fps

STOP		
4.1	35000	1120
4.0	33700	1102
3.9	32400	1085
3.8	31100	1068
3.7	29800	1050
3.6	28500	1033
3.5	27200	1016
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.2	35000	1180
5.1	33700	1159
5.0	32400	1139
4.9	31100	1119
4.8	29800	1098
4.7	28600	1078
4.6	27300	1058
4.5	26000	1037
4.4	24700	1017
4.3	23500	997
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.1	35000	1129
6.0	32900	1113
5.9	30900	1097
STOP		

start here

IMR 700X

Charge in grains psi fps

STOP		
4.2	35000	1134
4.1	33700	1113
4.0	32400	1093
3.9	31100	1072
3.8	29900	1052
3.7	28600	1031
3.6	27300	1011
3.5	26000	990
3.4	24800	970
3.3	23500	949
3.2	22200	929
3.1	21000	909
STOP		

start here

*Compressed load.

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IMR SR4756		
Charge in grains	psi	fps
STOP		
6.0	35000	1194
5.9	33900	1177
5.8	32800	1160
5.7	31700	1143
5.6	30600	1126
5.5	29600	1110
5.4	28500	1093
5.3	27400	1076
5.2	26300	1059
5.1	25200	1042
5.0	24200	1026
STOP		

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.2	35000	1160
5.1	33900	1141
5.0	32900	1123
4.9	31800	1105
4.8	30800	1087
4.7	29700	1069
4.6	28700	1051
4.5	27700	1033
4.4	26600	1015
4.3	25600	997
4.2	24500	979
4.1	23500	961
4.0	22500	943
STOP		

Winchester 231		
Charge in grains	psi	fps
STOP		
4.0	35000	1057
3.9	33100	1032
3.8	31300	1008
3.7	29500	984
3.6	27600	960
3.5	25800	936
3.4	24000	912
3.3	22200	888
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
6.4	31100	1090
6.3	30400	1079
6.2	29700	1069
6.1	29000	1059
6.0	28300	1049
5.9	27600	1038
5.8	26900	1028
5.7	26200	1018
5.6	25600	1008
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
7.3	35000	1153
7.2	34000	1139
7.1	33100	1125
7.0	32200	1111
6.9	31300	1097
6.8	30400	1083
6.7	29400	1069
6.6	28500	1055
6.5	27600	1041
6.4	26700	1027
6.3	25800	1014
STOP		

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Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.9	32400	1177
6.8	31700	1161
6.7	31000	1146
6.6	30300	1130
6.5	29600	1115
6.4	28900	1099
6.3	28300	1084
6.2	27600	1068
6.1	26900	1053
6.0	26200	1037
5.9	25500	1022
5.8	24900	1006
5.7	24200	991
5.6	23500	975
5.5	22800	960
5.4	22100	944
5.3	21500	929
STOP		

start here

Alliant Bullseye

Charge in grains psi fps

STOP		
4.5	33200	1128
4.4	32200	1108
4.3	31200	1088
4.2	30300	1068
4.1	29300	1049
4.0	28400	1029
3.9	27400	1009
3.8	26400	990
3.7	25500	970
3.6	24500	950
3.5	23600	931
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.4	27900	1103
5.3	27500	1091
5.2	27100	1079
5.1	26800	1067
5.0	26400	1055
4.9	26100	1043
4.8	25700	1031
4.7	25400	1019
4.6	25000	1007
4.5	24700	995
4.4	24300	983
4.3	24000	972
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.9	35000	1199
6.8	34000	1182
6.7	33100	1166
6.6	32100	1149
6.5	31200	1133
6.4	30200	1117
6.3	29300	1100
6.2	28300	1084
6.1	27400	1067
6.0	26400	1051
5.9	25500	1035
STOP		

start here

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IMR 700X

Charge in grains psi fps

STOP		
4.5	32500	1138
4.4	31400	1116
4.3	30400	1095
4.2	29300	1074
4.1	28300	1052
4.0	27200	1031
3.9	26200	1010
3.8	25100	989
3.7	24100	967
3.6	23000	946
3.5	22000	925
3.4	20900	903
3.3	19900	882
3.2	18800	861
3.1	17800	840
STOP		

start here

*Compressed load.

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IMR SR4756		
Charge in grains	psi	fps
STOP		
6.5	30400	1164
6.4	29900	1152
6.3	29400	1140
6.2	29000	1128
6.1	28500	1117
6.0	28100	1105
5.9	27600	1093
5.8	27200	1081
5.7	26700	1070
5.6	26300	1058
5.5	25800	1046
5.4	25400	1034
5.3	24900	1023
5.2	24500	1011
5.1	24000	999
5.0	23600	988
STOP		

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.5	35000	1143
5.4	34000	1125

5.3	33000	1108
5.2	32000	1090
5.1	31100	1073
5.0	30100	1056
4.9	29100	1038
4.8	28100	1021
4.7	27200	1003
4.6	26200	986
4.5	25200	969
4.4	24200	951
4.3	23300	934
4.2	22300	916
4.1	21300	899
4.0	20400	882
STOP		

Winchester 231		
Charge in grains	psi	fps
STOP		
4.7	32600	1101
4.6	31500	1079
4.5	30400	1058
4.4	29300	1036
4.3	28200	1015
4.2	27200	994
4.1	26100	972
4.0	25000	951
3.9	23900	930
3.8	22800	908
3.7	21800	887
3.6	20700	866
3.5	19600	844
3.4	18500	823
3.3	17500	802
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
7.0	32300	1167
6.9	31400	1151
6.8	30600	1135
6.7	29800	1119
6.6	29000	1103
6.5	28200	1087
6.4	27400	1071
6.3	26600	1055
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
7.9	35000	1190
7.8	34100	1174
7.7	33200	1159
7.6	32300	1144
7.5	31400	1129
7.4	30500	1114
7.3	29700	1098
7.2	28800	1083
7.1	27900	1068
7.0	27000	1053
6.9	26100	1038
6.8	25300	1023
STOP		

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Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
6.7	35000	1187		
6.6	34100	1172		
6.5	33200	1157		
6.4	32300	1142		
6.3	31400	1127		
6.2	30500	1112		
6.1	29600	1097		
6.0	28800	1082		
5.9	27900	1067		
5.8	27000	1052		
5.7	26100	1037		
5.6	25200	1022		
5.5	24300	1007		
5.4	23400	992		
5.3	22600	977		
STOP				

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

start here

Alliant Bullseye

Charge in grains			psi	fps
STOP				
4.4	35000	1168		
4.3	33800	1147		
4.2	32600	1126		
4.1	31400	1105		
4.0	30200	1084		
3.9	29000	1064		
3.8	27800	1043		
3.7	26600	1022		
3.6	25400	1001		
3.5	24300	981		
STOP				

start here

Alliant Unique

Charge in grains			psi	fps
STOP				
5.4	31600	1151		
5.3	30700	1135		
5.2	29900	1120		
5.1	29100	1105		
5.0	28400	1090		
4.9	27600	1075		
4.8	26900	1059		
4.7	26100	1044		
4.6	25400	1029		
4.5	24600	1014		
4.4	23900	999		
4.3	23100	984		
STOP				

start here

* Compressed load.

Hodgdon HS-6

Charge in grains			psi	fps
STOP				
6.7	32900	1190		
6.6	32000	1172		
6.5	31100	1154		
6.4	30200	1136		
6.3	29400	1119		
6.2	28500	1101		
6.1	27600	1083		
6.0	26700	1065		
5.9	25900	1048		
STOP				

start here

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IMR 700X

Charge in grains			psi	fps
STOP				
4.4	33200	1155		
4.3	32000	1133		
4.2	30900	1111		
4.1	29700	1089		
4.0	28600	1068		
3.9	27500	1046		
3.8	26300	1024		
3.7	25200	1003		
3.6	24000	981		
3.5	22900	959		
3.4	21800	938		
3.3	20600	916		
3.2	19500	894		
3.1	18400	873		
STOP				

start here

* Compressed load.

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IMR SR4756

Charge in grains	psi	fps
STOP		
6.5	32100	1202
6.4	31300	1188
6.3	30600	1175
6.2	29900	1161
6.1	29200	1148
6.0	28500	1135
5.9	27800	1121
5.8	27100	1108
5.7	26400	1094
5.6	25700	1081
5.5	25000	1068
5.4	24300	1054
5.3	23600	1041
5.2	22900	1027
5.1	22200	1014
5.0	21500	1001
STOP		

* Compressed load.

IMR SR7625

Charge in grains	psi	fps
STOP		
5.6	32500	1168
5.5	31800	1152
5.4	31100	1136
5.3	30400	1120
5.2	29700	1104
5.1	29000	1088
5.0	28300	1072
4.9	27600	1056
4.8	26900	1041
4.7	26200	1025
4.6	25500	1009
4.5	24800	993
4.4	24100	977
4.3	23400	961
4.2	22700	945
4.1	22000	929
4.0	21400	914
STOP		

* Compressed load.

Winchester 231

Charge in grains	psi	fps
STOP		
4.4	32800	1094
4.3	31600	1072
4.2	30400	1051
4.1	29300	1029
4.0	28100	1008
3.9	27000	986
3.8	25800	965
3.7	24700	943
3.6	23500	922
3.5	22400	900
3.4	21200	879
3.3	20100	858
STOP		

Winchester 540

Charge in grains	psi	fps
STOP		
6.9	35000	1189
6.8	33700	1170
6.7	32400	1151
6.6	31200	1133
6.5	29900	1114
6.4	28600	1095
6.3	27400	1077
STOP		

Winchester 571

Charge in grains	psi	fps
STOP		
7.9	35000	1196
7.8	34200	1181
7.7	33400	1167
7.6	32600	1153
7.5	31800	1139
7.4	31000	1125
7.3	30200	1111
7.2	29400	1097
7.1	28600	1083
7.0	27800	1069
6.9	27000	1055
6.8	26200	1041
STOP		

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

WARNING: The data contained in this manual was created under strictly controlled conditions in the laboratories of MidwayUSA®. (See the section entitled "About this Manual" for additional important information regarding the controlled laboratory conditions.) Exactly follow the specifications and procedures in the LoadMAPS™. Exactly follow the precise combinations listed in this manual. The maximum load must never be exceeded. Obey the stop bars. The user of this manual recognizes, acknowledges, appreciates and accepts the fact that reloading can be a dangerous activity which can result in serious injury.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.9	35000	1193
6.8	34200	1178
6.7	33400	1164
6.6	32600	1150
6.5	31900	1136
6.4	31100	1121
6.3	30300	1107
6.2	29600	1093
6.1	28800	1079
6.0	28000	1064
5.9	27300	1050
5.8	26500	1036
5.7	25700	1022
5.6	25000	1007
5.5	24200	993
5.4	23400	979
5.3	22700	965
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.5	35000	1141
4.4	33900	1121
4.3	32900	1101
4.2	31800	1081
4.1	30800	1062
4.0	29800	1042
3.9	28700	1022
3.8	27700	1003
3.7	26600	983
3.6	25600	963
3.5	24600	944
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
* 5.4	27700	1102
5.3	27500	1091
5.2	27300	1080
5.1	27100	1069
5.0	26900	1058
4.9	26700	1047
4.8	26500	1037
4.7	26300	1026
4.6	26100	1015
4.5	25900	1004
4.4	25700	993
4.3	25600	983
STOP		

start here

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.9	35000	1202
6.8	34100	1185
6.7	33200	1168
6.6	32300	1152
6.5	31400	1135
6.4	30600	1119
6.3	29700	1102
6.2	28800	1085
6.1	27900	1069
6.0	27000	1052
5.9	26200	1036
STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

IMR 700X

Charge in grains psi fps

STOP		
* 4.6	35000	1159
4.5	33800	1137
4.4	32600	1116
4.3	31400	1095
4.2	30300	1074
4.1	29100	1053
4.0	27900	1032
3.9	26700	1011
3.8	25600	989
3.7	24400	968
3.6	23200	947
3.5	22000	926
3.4	20900	905
3.3	19700	884
3.2	18500	863
3.1	17400	842
STOP		

start here

* Compressed load.

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All pressures are listed in psi not C.U.P. See page 4.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.5	27600	1165
6.4	27300	1153
6.3	27100	1141
6.2	26800	1129
6.1	26600	1118
6.0	26400	1106
5.9	26100	1094
5.8	25900	1082
5.7	25600	1071
5.6	25400	1059
5.5	25200	1047
5.4	24900	1035
5.3	24700	1024
5.2	24400	1012
5.1	24200	1000
5.0	24000	989
STOP		

*Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.5	33000	1142
5.4	32100	1124
5.3	31200	1107
5.2	30300	1090
5.1	29400	1073
5.0	28500	1056
4.9	27600	1039
4.8	26700	1022
4.7	25800	1004
4.6	24900	987
4.5	24000	970
4.4	23100	953
4.3	22200	936
4.2	21300	919
4.1	20400	902
4.0	19500	885
STOP		

Winchester 231		
Charge in grains	psi	fps
STOP		
4.5	35000	1106
4.4	33500	1082
4.3	32000	1058
4.2	30500	1034
4.1	29000	1010
4.0	27500	986
3.9	26000	962
3.8	24500	938
3.7	23000	914
3.6	21500	890
3.5	20000	866
3.4	18500	842
3.3	17000	819
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
7.0	32300	1169
6.9	31600	1156
6.8	31000	1143
6.7	30400	1130
6.6	29800	1117
6.5	29200	1104
6.4	28600	1091
6.3	28000	1079
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
7.7	32600	1171
7.6	31800	1154
7.5	31000	1138
7.4	30200	1122
7.3	29400	1105
7.2	28600	1089
7.1	27800	1073
7.0	27000	1056
6.9	26200	1040
6.8	25400	1024
STOP		

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

WARNING: The data contained in this manual was created under strictly controlled conditions in the laboratories of MidwayUSA® (See the section entitled "About this Manual" for additional important information regarding the controlled laboratory conditions.) Exactly follow the specifications and procedures in the LoadMAPS™. Exactly follow the precise combinations listed in this manual. The maximum load must never be exceeded. Obey the stop bars. The user of this manual recognizes, acknowledges, appreciates and accepts the fact that reloading can be a dangerous activity which can result in serious injury.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.8	31500	1170
6.7	30800	1155
6.6	30100	1141
6.5	29400	1127
6.4	28800	1112
6.3	28100	1098
6.2	27400	1084
6.1	26700	1069
6.0	26100	1055
5.9	25400	1041
5.8	24700	1026
5.7	24000	1012
5.6	23400	998
5.5	22700	983
5.4	22000	969
5.3	21400	955
STOP		

start here

Alliant Bullseye

Charge in grains psi fps

STOP		
4.5	35000	1172
4.4	33800	1152
4.3	32700	1132
4.2	31600	1112
4.1	30500	1092
4.0	29400	1072
3.9	28300	1052
3.8	27200	1032
3.7	26100	1012
3.6	25000	992
3.5	23900	972
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.4	27700	1118
5.3	27100	1103
5.2	26500	1089
5.1	25900	1075
5.0	25300	1060
4.9	24700	1046
4.8	24100	1032
4.7	23500	1018
4.6	22900	1003
4.5	22300	989
4.4	21700	975
4.3	21100	961
STOP		

start here

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.9	35000	1205
6.8	34100	1190
6.7	33200	1175
6.6	32300	1160
6.5	31400	1146
6.4	30500	1131
6.3	29600	1116
6.2	28700	1102
6.1	27800	1087
6.0	26900	1072
5.9	26100	1058
STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

IMR 700X

Charge in grains psi fps

STOP		
4.5	32400	1156
4.4	31300	1134
4.3	30200	1113
4.2	29100	1091
4.1	28100	1070
4.0	27000	1048
3.9	25900	1027
3.8	24900	1005
3.7	23800	984
3.6	22700	962
3.5	21600	941
3.4	20600	919
3.3	19500	898
3.2	18400	876
3.1	17400	855
STOP		

start here

* Compressed load.

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.5	28900	1172
6.4	28500	1159
6.3	28100	1147
6.2	27700	1134
6.1	27300	1122
6.0	26900	1109
5.9	26500	1097
5.8	26100	1084
5.7	25700	1072
5.6	25300	1059
5.5	24900	1047
5.4	24500	1034
5.3	24100	1022
5.2	23700	1009
5.1	23300	997
5.0	23000	985
STOP		

*Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.6	32600	1161
5.5	31700	1143
5.4	30800	1125
5.3	29900	1108
5.2	29000	1090
5.1	28100	1072
5.0	27300	1055
4.9	26400	1037
4.8	25500	1020
4.7	24600	1002
4.6	23700	984
4.5	22900	967
4.4	22000	949
4.3	21100	931
4.2	20200	914
4.1	19300	896
4.0	18500	879
STOP		

Winchester 231		
Charge in grains	psi	fps
STOP		
4.6	32600	1110
4.5	31400	1088
4.4	30200	1066
4.3	29000	1045
4.2	27800	1023
4.1	26600	1001
4.0	25400	980
3.9	24200	958
3.8	23000	937
3.7	21800	915
3.6	20600	893
3.5	19400	872
3.4	18200	850
3.3	17100	829
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
7.1	35000	1200
7.0	34100	1185
6.9	33200	1171
6.8	32400	1156
6.7	31500	1142
6.6	30600	1127
6.5	29800	1113
6.4	28900	1098
6.3	28100	1084
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
7.9	35000	1197
7.8	34100	1181
7.7	33200	1165
7.6	32300	1149
7.5	31400	1134
7.4	30500	1118
7.3	29700	1102
7.2	28800	1086
7.1	27900	1071
7.0	27000	1055
6.9	26100	1039
6.8	25300	1024
STOP		

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

Use extreme caution when loading in the Yellow or Red zones.

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.8	32700	1191
6.7	32000	1176
6.6	31300	1161
6.5	30600	1146
6.4	29900	1132
6.3	29300	1117
6.2	28600	1102
6.1	27900	1087
6.0	27200	1073
5.9	26500	1058
5.8	25900	1043
5.7	25200	1028
5.6	24500	1014
5.5	23800	999
5.4	23100	984
5.3	22500	970
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.6	35000	1177
4.5	33800	1156
4.4	32600	1136
4.3	31500	1116
4.2	30300	1096
4.1	29200	1076
4.0	28000	1056
3.9	26900	1036
3.8	25700	1016
3.7	24600	996
3.6	23400	976
3.5	22300	956
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.4	30900	1156
5.3	30100	1139
5.2	29300	1123
5.1	28500	1107
5.0	27700	1090
4.9	26900	1074
4.8	26100	1058
4.7	25300	1042
4.6	24500	1025
4.5	23700	1009
4.4	22900	993
4.3	22100	977
STOP		

start here

* Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.9	35000	1202
6.8	33900	1186
6.7	32800	1170
6.6	31800	1154
6.5	30700	1138
6.4	29700	1123
6.3	28600	1107
6.2	27500	1091
6.1	26500	1075
6.0	25400	1059
5.9	24400	1044
STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

IMR 700X

Charge in grains psi fps

STOP		
4.5	31700	1146
4.4	30600	1125
4.3	29500	1104
4.2	28500	1084
4.1	27400	1063
4.0	26300	1043
3.9	25300	1022
3.8	24200	1002
3.7	23100	981
3.6	22100	960
3.5	21000	940
3.4	19900	919
3.3	18900	899
3.2	17800	878
3.1	16800	858
STOP		

start here

* Compressed load.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.5	29000	1180
6.4	28500	1166
6.3	28100	1152
6.2	27700	1139
6.1	27200	1125
6.0	26800	1112
5.9	26400	1098
5.8	25900	1084
5.7	25500	1071
5.6	25100	1057
5.5	24600	1044
5.4	24200	1030
5.3	23800	1016
5.2	23300	1003
5.1	22900	989
5.0	22500	976
STOP		

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.5	29900	1129
5.4	29000	1109
5.3	28200	1090
5.2	27400	1071
5.1	26600	1051
5.0	25800	1032
4.9	25000	1013
4.8	24200	994
4.7	23300	974
4.6	22500	955
4.5	21700	936
4.4	20900	917
4.3	20100	897
4.2	19300	878
4.1	18500	859
4.0	17700	840
STOP		

* Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
4.8	35000	1144
4.7	33700	1123
4.6	32500	1102
4.5	31200	1082
4.4	30000	1061
4.3	28800	1040
4.2	27500	1020
4.1	26300	999
4.0	25000	978
3.9	23800	958
3.8	22600	937
3.7	21300	916
3.6	20100	896
3.5	18800	875
3.4	17600	854
3.3	16400	834
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
7.0	33200	1186
6.9	32400	1171
6.8	31600	1157
6.7	30800	1143
6.6	30000	1129
6.5	29200	1115
6.4	28400	1101
6.3	27700	1087
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
8.0	31800	1180
7.9	31100	1166
7.8	30500	1152
7.7	29900	1139
7.6	29300	1125
7.5	28700	1112
7.4	28100	1098
7.3	27500	1084
7.2	26900	1071
7.1	26300	1057
7.0	25700	1044
6.9	25100	1030
6.8	24500	1017
STOP		

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

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Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.8	31700	1177
6.7	30900	1163
6.6	30200	1149
6.5	29500	1135
6.4	28800	1122
6.3	28100	1108
6.2	27400	1094
6.1	26700	1080
6.0	25900	1067
5.9	25200	1053
5.8	24500	1039
5.7	23800	1025
5.6	23100	1012
5.5	22400	998
5.4	21700	984
5.3	21000	971
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.5	35000	1170
4.4	33800	1149
4.3	32600	1128
4.2	31500	1107
4.1	30300	1086
4.0	29200	1065
3.9	28000	1044
3.8	26800	1023
3.7	25700	1002
3.6	24500	981
3.5	23400	961
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.4	30100	1138
5.3	29300	1122
5.2	28500	1107
5.1	27700	1091
5.0	26900	1076
4.9	26100	1060
4.8	25300	1045
4.7	24500	1029
4.6	23700	1014
4.5	22900	998
4.4	22100	983
4.3	21300	968
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.7	35000	1194
6.6	33900	1176
6.5	32800	1159
6.4	31700	1142
6.3	30600	1125
6.2	29500	1107
6.1	28400	1090
6.0	27300	1073
5.9	26300	1056
STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

IMR 700X

Charge in grains psi fps

STOP		
4.5	32500	1161
4.4	31400	1140
4.3	30400	1119
4.2	29400	1099
4.1	28300	1078
4.0	27300	1057
3.9	26300	1037
3.8	25300	1016
3.7	24200	995
3.6	23200	975
3.5	22200	954
3.4	21100	933
3.3	20100	913
3.2	19100	892
3.1	18100	872
STOP		

start here

*Compressed load.

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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(See the section entitled "About this Manual" for additional important information regarding the controlled laboratory conditions.) Exactly follow the specifications and procedures in the LoadMAPs™. Exactly follow the precise combinations listed in this manual. The maximum load must never be exceeded. Obey the stop bars.

The user of this manual recognizes, acknowledges, appreciates and accepts the fact that reloading can be a dangerous activity which can result in serious injury.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

IMR SR4756		
Charge in grains	psi	fps
* STOP		
6.5	30600	1188
6.4	30100	1174
6.3	29600	1160
6.2	29100	1146
6.1	28600	1132
6.0	28100	1118
5.9	27600	1104
5.8	27100	1090
5.7	26700	1076
5.6	26200	1062
5.5	25700	1048
5.4	25200	1034
5.3	24700	1020
5.2	24200	1006
5.1	23700	992
5.0	23300	979
* STOP		

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
* STOP		
5.6	29700	1169
5.5	29000	1153
5.4	28400	1137
5.3	27800	1121
5.2	27200	1105
5.1	26600	1089
5.0	25900	1073
4.9	25300	1057
4.8	24700	1042
4.7	24100	1026
4.6	23500	1010
4.5	22800	994
4.4	22200	978
4.3	21600	962
4.2	21000	946
4.1	20400	930
4.0	19800	915
* STOP		

* Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
4.6	35000	1129
4.5	33700	1109
4.4	32500	1089
4.3	31300	1069
4.2	30100	1049
4.1	28900	1029
4.0	27700	1009
3.9	26400	989
3.8	25200	969
3.7	24000	949
3.6	22800	929
3.5	21600	909
3.4	20400	889
3.3	19200	869
STOP		

Winchester 540		
Charge in grains	psi	fps
STOP		
6.9	32400	1181
6.8	31600	1167
6.7	30900	1154
6.6	30200	1141
6.5	29400	1128
6.4	28700	1115
6.3	28000	1102
STOP		

Winchester 571		
Charge in grains	psi	fps
STOP		
8.0	35000	1196
7.9	34000	1181
7.8	33100	1167
7.7	32200	1153
7.6	31200	1139
7.5	30300	1125
7.4	29400	1111
7.3	28400	1097
7.2	27500	1083
7.1	26600	1069
7.0	25600	1055
6.9	24700	1041
6.8	23800	1027
STOP		

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

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All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 5

Charge in grains			psi			fps		
STOP								
6.9	35000	1187						
6.8	34100	1172						
6.7	33200	1157						
6.6	32300	1142						
6.5	31400	1127						
6.4	30500	1112						
6.3	29600	1097						
6.2	28700	1082						
6.1	27800	1067						
6.0	26900	1052						
5.9	26000	1037						
5.8	25100	1022						
5.7	24200	1007						
5.6	23300	992						
5.5	22400	977						
5.4	21500	962						
5.3	20600	947						
STOP								

start here

Alliant Bullseye

Charge in grains			psi			fps		
STOP								
4.5	35000	1171						
4.4	33800	1150						
4.3	32600	1129						
4.2	31400	1108						
4.1	30200	1087						
4.0	29100	1066						
3.9	27900	1045						
3.8	26700	1024						
3.7	25500	1003						
3.6	24300	982						
3.5	23200	962						
STOP								

start here

Alliant Unique

Charge in grains			psi			fps		
STOP								
5.4	26600	1156						
5.3	25900	1138						
5.2	25300	1120						
5.1	24700	1102						
5.0	24100	1084						
4.9	23500	1066						
4.8	22800	1048						
4.7	22200	1030						
4.6	21600	1012						
4.5	21000	994						
4.4	20400	976						
4.3	19800	958						
STOP								

start here

* Compressed load.

Hodgdon HS-6

Charge in grains			psi			fps		
STOP								
6.7	33100	1187						
6.6	32100	1169						
6.5	31100	1152						
6.4	30100	1135						
6.3	29100	1118						
6.2	28100	1101						
6.1	27100	1084						
6.0	26100	1067						
5.9	25100	1050						
STOP								

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

IMR 700X

Charge in grains			psi			fps		
STOP								
4.5	35000	1169						
4.4	33700	1147						
4.3	32400	1125						
4.2	31100	1103						
4.1	29800	1081						
4.0	28500	1060						
3.9	27200	1038						
3.8	25900	1016						
3.7	24600	994						
3.6	23300	972						
3.5	22000	951						
3.4	20700	929						
3.3	19400	907						
3.2	18100	885						
3.1	16800	864						
STOP								

start here

* Compressed load.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.5	27900	1181
6.4	27400	1167
6.3	27000	1153
6.2	26600	1139
6.1	26200	1125
6.0	25800	1112
5.9	25400	1098
5.8	25000	1084
5.7	24500	1070
5.6	24100	1056
5.5	23700	1043
5.4	23300	1029
5.3	22900	1015
5.2	22500	1001
5.1	22100	987
5.0	21700	974
STOP		

start here

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.7	30300	1167
5.6	29600	1150
5.5	29000	1134
5.4	28400	1117
5.3	27800	1101
5.2	27200	1084
5.1	26500	1068
5.0	25900	1051
4.9	25300	1035
4.8	24700	1018
4.7	24100	1002
4.6	23500	985
4.5	22800	969
4.4	22200	952
4.3	21600	936
4.2	21000	919
4.1	20400	903
4.0	19800	887
STOP		

start here

* Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
4.6	35000	1135
4.5	33600	1113
4.4	32300	1091
4.3	31000	1069
4.2	29700	1047
4.1	28400	1026
4.0	27100	1004
3.9	25700	982
3.8	24400	960
3.7	23100	939
3.6	21800	917
3.5	20500	895
3.4	19200	873
3.3	17900	852
STOP		

start here

Winchester 540		
Charge in grains	psi	fps
STOP		
7.0	35000	1191
6.9	33700	1173
6.8	32500	1156
6.7	31300	1138
6.6	30000	1121
6.5	28800	1103
6.4	27600	1086
6.3	26400	1069
STOP		

start here

Winchester 571		
Charge in grains	psi	fps
STOP		
8.0	35000	1203
7.9	34000	1188
7.8	33100	1173
7.7	32200	1158
7.6	31300	1143
7.5	30400	1128
7.4	29500	1113
7.3	28600	1098
7.2	27700	1083
7.1	26800	1068
7.0	25900	1053
6.9	25000	1038
6.8	24100	1023
STOP		

start here

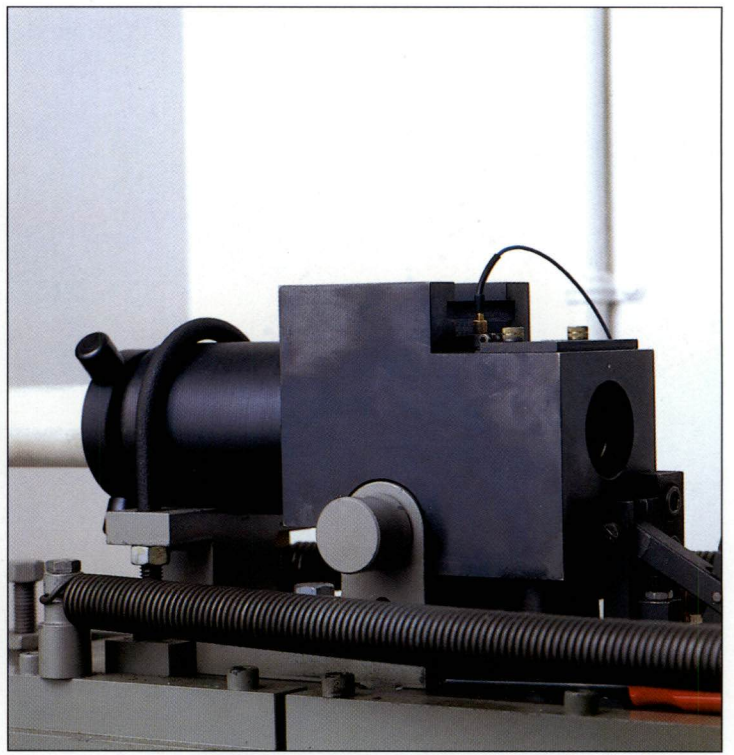
Reducing Cartridge Over All Length increases pressure greatly. See page 39 for O.A.L. in our testing.

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



MidwayUSA's® Ballistics Lab is temperature and humidity controlled to SAAMI specifications - 70 degrees Fahrenheit and 60% relative humidity. Pressure and velocity are recorded using an Oehler System 83 and piezo-electric transducers, the latest in industry standard equipment. The Universal Receiver on the right accepts specially made barrels for nearly all sporting arms cartridges. The wire at the top of the gun is connected to a piezo-electric transducer which measures the pressure in the chamber.

9mm Luger

.355" Dia.
122 grain
Sectional
Density .138



MidwayUSA
FP Lead

Ballistic Coefficient	N/A
Ctg. Overall Length	1.045



The MP-40 was the standard submachine gun of the German military during WWII. The Germans began developing submachine guns in the wake of

WW I, when the lessons of that war's trench campaigns were still fresh in the minds of Germany's tactical thinkers. The MP-40 was designed as a cheaper, more reliable version of the MP-38. More than a million of these guns were manufactured between 1940 and 1944, intended for Germany's mechanized infantry. Both the MP-38 and the MP-40 were designed with mass production in mind, utilizing stamped parts, plastic grips, and a folding skeleton buttstock that dispensed with a wooden buttstock entirely. The MP-40 used a 32-round magazine, but it was commonly short-loaded at 30 rounds to increase the reliability of the weapon. The MP-40 paved the way for even cheaper submachine guns like the British Sten and the American M-3 "Grease Gun."

Reducing Cartridge
Over All Length
increases pressure
greatly.

BULLETPAGE
MidwayUSA FPLead76

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP) 35,000 psi			



Accurate Arms No. 5

Charge in grains psi fps

STOP		
5.6	33000	1091
5.5	31900	1074
5.4	30900	1057
5.3	29900	1040
5.2	28900	1023
5.1	27900	1006
5.0	26900	989
4.9	25800	972
4.8	24800	955
4.7	23800	938
4.6	22800	921
4.5	21800	904
4.4	20800	888

STOP

Accurate Arms No. 7

Charge in grains psi fps

STOP		
7.4	35000	1113
7.3	34300	1101
7.2	33600	1089
7.1	32900	1077
7.0	32200	1065
6.9	31600	1053
6.8	30900	1041
6.7	30200	1029
6.6	29500	1017
6.5	28800	1005
6.4	28200	993
6.3	27500	981
6.2	26800	969
6.1	26100	957
6.0	25400	945
5.9	24800	934

STOP

Alliant Bullseye

Charge in grains psi fps

STOP		
3.5	30300	1053
3.4	28900	1030
3.3	27600	1008
3.2	26200	986
3.1	24900	964
3.0	23600	942
2.9	22200	920
2.8	20900	898
2.7	19500	876
2.6	18200	854
2.5	16900	832

STOP

Alliant Red Dot

Charge in grains psi fps

STOP		
3.2	31800	1017
3.1	30200	994
3.0	28600	972
2.9	27100	950
2.8	25500	927
2.7	23900	905
2.6	22400	883
2.5	20800	860
2.4	19200	838
2.3	17700	816

STOP

IMR 800X

Charge in grains psi fps

STOP		
6.5	28700	1199
6.4	28300	1189
6.3	27900	1179
6.2	27500	1170
6.1	27200	1160
6.0	26800	1151
5.9	26400	1141
5.8	26000	1131
5.7	25700	1122
5.6	25300	1112
5.5	24900	1103
5.4	24500	1093
5.3	24200	1083
5.2	23800	1074
5.1	23400	1064
5.0	23100	1055

STOP

*Compressed load.

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Reducing Cartridge Over All Length increases pressure greatly. See page 75 for O.A.L. in our testing.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.

9mm Luger

.355" Dia.
124 grain
Sectional
Density .140



	Hornady FMJ/FP	Hornady FMJ/RN	Hornady HP/XTP	MidwayUSA FMJ/FP	MidwayUSA FMJ/RN	Remington FMJ
Ballistic Coefficient	.174	.145	N/A	N/A	N/A	N/A
Ctg. Overall Length	1.118	1.169	1.135	1.090	1.158	1.165

Reducing Cartridge Over All Length increases pressure greatly.



	Speer Gold Dot	Speer JSP	Winchester FMJ	Hornady Lead RN
Ballistic Coefficient	.134	.115	N/A	.131
Ctg. Overall Length	1.138	1.166	1.165	1.040

BULLET	PAGE
Hornady FMJ/FPJacketed	78-79
Hornady FMJ/RNJacketed	80-81
Hornady HP/XTPJacketed	82-83
MidwayUSA FMJ/FPPlated	84-85
MidwayUSA FMJ/RNPlated	86-87
Remington FMJPlated	88-89
Speer Gold Dot.....Plated	90-91
Speer JSPPlated	92-93
Winchester FMJJacketed	94-95
Hornady RNLead	96

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP) 35,000 psi			



Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.7	35000	1091
4.6	33900	1074
4.5	32800	1057
4.4	31700	1040
4.3	30700	1023
4.2	29600	1006
4.1	28500	989
4.0	27500	972
3.9	26400	955
3.8	25300	938
3.7	24200	921
3.6	23200	904
3.5	22100	887
3.4	21000	870
3.3	20000	853
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.3	35000	1109
6.2	33800	1091
6.1	32700	1074
6.0	31500	1056
5.9	30400	1039
5.8	29200	1021
5.7	28100	1004
5.6	26900	986
5.5	25800	969
5.4	24600	951
5.3	23500	934
5.2	22400	917
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
8.3	35000	1180
8.2	34400	1167
8.1	33800	1155
8.0	33200	1142
7.9	32600	1130
7.8	32100	1117
7.7	31500	1105
7.6	30900	1092
7.5	30300	1080
7.4	29800	1068
7.3	29200	1055
7.2	28600	1043
7.1	28000	1030
7.0	27400	1018
6.9	26900	1005
6.8	26300	993
6.7	25700	980
6.6	25100	968
STOP		

start here

Alliant Bullseye

Charge in grains psi fps

STOP		
4.2	35000	1091
4.1	33500	1069
4.0	32000	1047
3.9	30500	1025
3.8	29100	1003
3.7	27600	981
3.6	26100	959
3.5	24600	937
3.4	23200	915
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.6	35000	1169
5.5	34200	1153
5.4	33400	1137
5.3	32600	1122
5.2	31800	1106
5.1	31000	1090
5.0	30200	1075
4.9	29400	1059
4.8	28600	1043
4.7	27800	1028
4.6	27000	1012
4.5	26200	996
4.4	25400	981
4.3	24600	965
4.2	23800	950
STOP		

start here

*Compressed load.

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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*Compressed load.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.4	35000	1134
6.3	34000	1117

6.2	33000	1101
6.1	32000	1084
6.0	31000	1068
5.9	30000	1051
5.8	29000	1035
5.7	28000	1018
5.6	27000	1002
5.5	26000	985
5.4	25000	969
5.3	24000	953
STOP		

start here

IMR 700X		
Charge in grains	psi	fps
STOP		
* 4.2	35000	1104
4.1	33600	1082

4.0	32300	1060
3.9	31000	1038
3.8	29700	1016
3.7	28400	994
3.6	27100	972
3.5	25700	950
3.4	24400	928
3.3	23100	906
3.2	21800	884
3.1	20500	862
3.0	19200	840
STOP		

start here

*Compressed load.

IMR SR4756		
Charge in grains	psi	fps
STOP		
* 6.3	32400	1183
6.2	31600	1166

6.1	30800	1150
6.0	30100	1134
5.9	29300	1117
5.8	28500	1101
5.7	27800	1085
5.6	27000	1068
5.5	26300	1052
5.4	25500	1036
5.3	24700	1019
5.2	24000	1003
5.1	23200	987
5.0	22500	971
STOP		

start here

*Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.3	33100	1130
5.2	32100	1112

5.1	31200	1095
5.0	30300	1078
4.9	29400	1061
4.8	28500	1044
4.7	27600	1027
4.6	26700	1010
4.5	25800	993
4.4	24900	976
4.3	24000	959
4.2	23100	942
4.1	22200	925
4.0	21300	908
STOP		

start here

Vihtavuori N320		
Charge in grains	psi	fps
STOP		
4.1	35000	1042
4.0	33500	1018

3.9	32000	995
3.8	30500	972
3.7	29000	949
3.6	27500	926
3.5	26100	903
3.4	24600	880
3.3	23100	857
3.2	21600	834
3.1	20100	811
3.0	18700	788
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.7	35000	1092
4.6	33800	1075

4.5	32700	1058
4.4	31600	1041
4.3	30500	1024
4.2	29400	1008
4.1	28300	991
4.0	27200	974
3.9	26000	957
3.8	24900	940
3.7	23800	924
3.6	22700	907
3.5	21600	890
3.4	20500	873
3.3	19400	857
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.5	33200	1118
6.4	32200	1101
6.3	31200	1085
6.2	30200	1068
6.1	29300	1052
6.0	28300	1035
5.9	27300	1019
5.8	26400	1002
5.7	25400	986
5.6	24400	969
5.5	23500	953
5.4	22500	936
5.3	21500	920
5.2	20600	904
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
8.3	32600	1174
8.2	32000	1161
8.1	31400	1149
8.0	30900	1137
7.9	30300	1125
7.8	29800	1113
7.7	29200	1101
7.6	28700	1088
7.5	28100	1076
7.4	27600	1064
7.3	27000	1052
7.2	26400	1040
7.1	25900	1028
7.0	25300	1015
6.9	24800	1003
6.8	24200	991
6.7	23700	979
6.6	23100	967
STOP		

start here

Alliant Bullseye

Charge in grains psi fps

STOP		
4.2	35000	1092
4.1	33400	1071
4.0	31800	1051
3.9	30200	1030
3.8	28600	1010
3.7	27000	990
3.6	25400	969
3.5	23800	949
3.4	22200	929
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.6	35000	1157
5.5	34100	1143
5.4	33300	1129
5.3	32500	1115
5.2	31700	1101
5.1	30800	1087
5.0	30000	1073
4.9	29200	1059
4.8	28400	1045
4.7	27600	1031
4.6	26700	1017
4.5	25900	1003
4.4	25100	989
4.3	24300	975
4.2	23500	961
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Reducing Cartridge Over All Length increases pressure greatly. See page 77 for O.A.L. in our testing.

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*Compressed load.

*Compressed load.

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Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.6	35000	1153
6.5	34100	1138
6.4	33200	1123
6.3	32300	1108
6.2	31400	1093
6.1	30500	1078
6.0	29600	1063
5.9	28800	1049
5.8	27900	1034
5.7	27000	1019
5.6	26100	1004
5.5	25200	989
5.4	24300	974
5.3	23500	960
STOP		

IMR 700X		
Charge in grains	psi	fps
STOP		
* 4.3	35000	1112
4.2	33700	1090
4.1	32400	1069
4.0	31100	1048
3.9	29800	1027
3.8	28600	1006
3.7	27300	985
3.6	26000	963
3.5	24700	942
3.4	23500	921
3.3	22200	900
3.2	20900	879
3.1	19600	858
3.0	18400	837
STOP		

* Compressed load.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.3	31600	1180
6.2	30800	1164
6.1	30000	1149
6.0	29300	1133
5.9	28500	1118
5.8	27800	1102
5.7	27000	1087
5.6	26300	1071
5.5	25500	1056
5.4	24800	1040
5.3	24000	1025
5.2	23300	1009
5.1	22500	994
5.0	21800	979
STOP		

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.5	35000	1143
5.4	34000	1127
5.3	33100	1112
5.2	32200	1097
5.1	31300	1082
5.0	30400	1067
4.9	29400	1051
4.8	28500	1036
4.7	27600	1021
4.6	26700	1006
4.5	25800	991
4.4	24800	975
4.3	23900	960
4.2	23000	945
4.1	22100	930
4.0	21200	915
STOP		

Vihtavuori N320		
Charge in grains	psi	fps
STOP		
4.1	35000	1048
4.0	33500	1025
3.9	32100	1003
3.8	30700	981
3.7	29200	958
3.6	27800	936
3.5	26400	914
3.4	25000	892
3.3	23500	869
3.2	22100	847
3.1	20700	825
3.0	19300	803
STOP		

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Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.6	35000	1086
4.5	33900	1068
4.4	32800	1051
4.3	31700	1033
4.2	30600	1016
4.1	29500	999
4.0	28400	981
3.9	27300	964
3.8	26200	946
3.7	25100	929
3.6	24000	912
3.5	22900	894
3.4	21800	877
3.3	20800	860
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.3	32900	1110
6.2	31900	1093
6.1	30900	1076
6.0	30000	1059
5.9	29000	1042
5.8	28100	1025
5.7	27100	1008
5.6	26200	991
5.5	25200	974
5.4	24300	957
5.3	23300	940
5.2	22400	923
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
* 8.3	32300	1171
8.2	31700	1159
8.1	31200	1147
8.0	30700	1135
7.9	30200	1123
7.8	29700	1111
7.7	29200	1099
7.6	28600	1087
7.5	28100	1075
7.4	27600	1063
7.3	27100	1051
7.2	26600	1039
7.1	26100	1027
7.0	25500	1015
6.9	25000	1003
6.8	24500	991
6.7	24000	979
6.6	23500	967
STOP		

start here

*Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.1	35000	1084
4.0	33500	1063
3.9	32000	1042
3.8	30500	1021
3.7	29000	1000
3.6	27500	979
3.5	26000	958
3.4	24500	937
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
* 5.4	33000	1141
5.3	32300	1127
5.2	31600	1113
5.1	31000	1099
5.0	30300	1086
4.9	29600	1072
4.8	29000	1058
4.7	28300	1044
4.6	27600	1031
4.5	27000	1017
4.4	26300	1003
4.3	25600	989
4.2	25000	976
STOP		

start here

*Compressed load.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.3	35000	1136
6.2	33800	1118
6.1	32700	1101
6.0	31500	1083
5.9	30400	1066
5.8	29200	1049
5.7	28100	1031
5.6	26900	1014
5.5	25800	996
5.4	24600	979
5.3	23500	962
STOP		

start here

IMR 700X		
Charge in grains	psi	fps
STOP		
4.1	35000	1092
4.0	33600	1069
3.9	32200	1047
3.8	30900	1025
3.7	29500	1003
3.6	28200	981
3.5	26800	958
3.4	25500	936
3.3	24100	914
3.2	22800	892
3.1	21400	870
3.0	20100	848
STOP		

start here

*Compressed load.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.3	35000	1202
6.2	34100	1186
6.1	33300	1170
6.0	32500	1155
5.9	31700	1139
5.8	30900	1124
5.7	30100	1108
5.6	29300	1093
5.5	28500	1077
5.4	27700	1062
5.3	26900	1046
5.2	26100	1031
5.1	25300	1015
5.0	24500	1000
STOP		

start here

*Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.4	35000	1142
5.3	34200	1126
5.2	33400	1110
5.1	32600	1095
5.0	31800	1079
4.9	31100	1064
4.8	30300	1048
4.7	29500	1033
4.6	28700	1017
4.5	27900	1001
4.4	27200	986
4.3	26400	970
4.2	25600	955
4.1	24800	939
4.0	24100	924
STOP		

start here

Vihtavuori N320		
Charge in grains	psi	fps
STOP		
4.0	35000	1037
3.9	33500	1014
3.8	32000	991
3.7	30500	968
3.6	29000	945
3.5	27600	923
3.4	26100	900
3.3	24600	877
3.2	23100	854
3.1	21600	831
3.0	20200	809
STOP		

start here

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Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.4	35000	1062
4.3	33700	1044

4.2	32400	1026
4.1	31100	1008
4.0	29800	991
3.9	28500	973
3.8	27200	955
3.7	25900	937
3.6	24600	920
3.5	23300	902
3.4	22000	884
3.3	20700	867
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.2	35000	1098
6.1	33700	1079

6.0	32400	1061
5.9	31200	1043
5.8	29900	1025
5.7	28700	1007
5.6	27400	988
5.5	26100	970
5.4	24900	952
5.3	23600	934
5.2	22400	916
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
8.3	35000	1182
8.2	34400	1169
8.1	33800	1157

8.0	33200	1145
7.9	32600	1133
7.8	32000	1120
7.7	31400	1108
7.6	30800	1096
7.5	30200	1084
7.4	29600	1072
7.3	29000	1059
7.2	28400	1047
7.1	27800	1035
7.0	27200	1023
6.9	26600	1010
6.8	26000	998
6.7	25400	986
6.6	24800	974
STOP		

start here

* Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.0	32800	1063
3.9	31400	1040
3.8	30100	1018
3.7	28800	996
3.6	27400	973
3.5	26100	951
3.4	24800	929
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.3	32800	1125
5.2	31800	1109
5.1	30900	1093
5.0	30000	1077
4.9	29100	1062
4.8	28200	1046
4.7	27300	1030
4.6	26400	1014
4.5	25500	999
4.4	24600	983
4.3	23700	967
4.2	22800	952
STOP		

start here

* Compressed load.

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Hodgdon HS-6

Charge in grains			psi	fps
STOP				
6.3	35000	1122		
6.2	33800	1103		
6.1	32600	1085		
6.0	31400	1066		
5.9	30300	1048		
5.8	29100	1030		
5.7	27900	1011		
5.6	26800	993		
5.5	25600	974		
5.4	24400	956		
5.3	23300	938		
STOP				

IMR 700X

Charge in grains			psi	fps
STOP				
4.0	32200	1068		
3.9	31000	1044		
3.8	29800	1021		
3.7	28700	998		
3.6	27500	975		
3.5	26400	952		
3.4	25200	928		
3.3	24000	905		
3.2	22900	882		
3.1	21700	859		
3.0	20600	836		
STOP				

IMR SR4756

Charge in grains			psi	fps
STOP				
* 6.2	35000	1182		
6.1	33800	1163		
6.0	32600	1144		
5.9	31500	1126		
5.8	30300	1107		
5.7	29200	1089		
5.6	28000	1070		
5.5	26800	1051		
5.4	25700	1033		
5.3	24500	1014		
5.2	23400	996		
5.1	22200	977		
5.0	21100	959		
STOP				

* Compressed load.

IMR SR7625

Charge in grains			psi	fps
STOP				
5.4	35000	1129		
5.3	34100	1114		
5.2	33300	1099		
5.1	32500	1084		
5.0	31700	1069		
4.9	30900	1054		
4.8	30100	1039		
4.7	29300	1025		
4.6	28500	1010		
4.5	27700	995		
4.4	26900	980		
4.3	26100	965		
4.2	25300	950		
4.1	24500	935		
4.0	23700	921		
STOP				

Vihtavuori N320

Charge in grains			psi	fps
STOP				
4.1	35000	1056		
4.0	33500	1032		
3.9	32100	1009		
3.8	30700	986		
3.7	29200	963		
3.6	27800	940		
3.5	26400	916		
3.4	25000	893		
3.3	23500	870		
3.2	22100	847		
3.1	20700	824		
3.0	19300	801		
STOP				

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Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.6	33200	1077
4.5	32000	1057
4.4	30900	1038
4.3	29800	1019
4.2	28700	1000
4.1	27500	980
4.0	26400	961
3.9	25300	942
3.8	24200	923
3.7	23000	903
3.6	21900	884
3.5	20800	865
3.4	19700	846
3.3	18600	827
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.5	33200	1117
6.4	32300	1100
6.3	31400	1083
6.2	30500	1067
6.1	29600	1050
6.0	28700	1034
5.9	27800	1017
5.8	26900	1001
5.7	26000	984
5.6	25100	968
5.5	24200	951
5.4	23300	935
5.3	22400	918
5.2	21600	902
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
8.2	35000	1173
8.1	34200	1159
8.0	33400	1146
7.9	32700	1133
7.8	31900	1119
7.7	31200	1106
7.6	30400	1093
7.5	29700	1079
7.4	28900	1066
7.3	28200	1053
7.2	27400	1040
7.1	26700	1026
7.0	25900	1013
6.9	25200	1000
6.8	24400	986
6.7	23700	973
6.6	22900	960
6.5	22200	947
STOP		

start here

*Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.3	35000	1092
4.2	33700	1071
4.1	32400	1050
4.0	31200	1029
3.9	29900	1008
3.8	28600	988
3.7	27400	967
3.6	26100	946
3.5	24800	925
3.4	23600	905
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.6	35000	1150
5.5	34200	1135
5.4	33400	1121
5.3	32700	1107
5.2	31900	1093
5.1	31100	1078
5.0	30400	1064
4.9	29600	1050
4.8	28800	1036
4.7	28100	1022
4.6	27300	1007
4.5	26500	993
4.4	25800	979
4.3	25000	965
4.2	24300	951
STOP		

start here

*Compressed load.

Use extreme caution when loading in the Yellow or Red zones.

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Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.4	35000	1133
6.3	33800	1115
6.2	32700	1097
6.1	31600	1079
6.0	30500	1061
5.9	29400	1043
5.8	28200	1025
5.7	27100	1007
5.6	26000	989
5.5	24900	971
5.4	23800	953
5.3	22700	935
STOP		

IMR 700X		
Charge in grains	psi	fps
STOP		
* 4.2	35000	1089
4.1	33600	1065
4.0	32300	1042
3.9	31000	1019
3.8	29600	995
3.7	28300	972
3.6	27000	949
3.5	25600	925
3.4	24300	902
3.3	23000	879
3.2	21600	855
3.1	20300	832
3.0	19000	809
STOP		

* Compressed load.

IMR SR4756		
Charge in grains	psi	fps
STOP		
* 6.3	35000	1180
6.2	34000	1163
6.1	33000	1147
6.0	32000	1130
5.9	31000	1114
5.8	30000	1097
5.7	29000	1081
5.6	28000	1064
5.5	27000	1048
5.4	26000	1031
5.3	25000	1015
5.2	24000	998
5.1	23000	982
5.0	22000	966
STOP		

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.5	35000	1127
5.4	34100	1110
5.3	33300	1094
5.2	32500	1077
5.1	31700	1061
5.0	30900	1044
4.9	30000	1028
4.8	29200	1011
4.7	28400	995
4.6	27600	978
4.5	26800	962
4.4	25900	945
4.3	25100	929
4.2	24300	912
4.1	23500	896
4.0	22700	880
STOP		

Vihtavuori N320		
Charge in grains	psi	fps
STOP		
4.1	35000	1020
4.0	33400	995
3.9	31800	971
3.8	30200	946
3.7	28700	922
3.6	27100	898
3.5	25500	873
3.4	23900	849
3.3	22400	825
3.2	20800	800
3.1	19200	776
3.0	17700	752
STOP		

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Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
4.7	35000	1099		
4.6	33900	1082		
4.5	32800	1065		
4.4	31700	1048		
4.3	30600	1031		
4.2	29500	1015		
4.1	28400	998		
4.0	27400	981		
3.9	26300	964		
3.8	25200	947		
3.7	24100	931		
3.6	23000	914		
3.5	21900	897		
3.4	20800	880		
3.3	19800	864		
STOP				

start here

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
6.5	32600	1118		
6.4	31600	1101		
6.3	30600	1084		
6.2	29700	1068		
6.1	28700	1051		
6.0	27800	1034		
5.9	26800	1018		
5.8	25900	1001		
5.7	24900	985		
5.6	24000	968		
5.5	23000	951		
5.4	22100	935		
5.3	21100	918		
5.2	20200	902		
STOP				

start here

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
8.3	32000	1171		
8.2	31400	1158		
8.1	30800	1145		
8.0	30200	1132		
7.9	29600	1119		
7.8	29000	1107		
7.7	28500	1094		
7.6	27900	1081		
7.5	27300	1068		
7.4	26700	1056		
7.3	26100	1043		
7.2	25500	1030		
7.1	25000	1017		
7.0	24400	1004		
6.9	23800	992		
6.8	23200	979		
6.7	22600	966		
6.6	22000	953		
6.5	21500	941		
STOP				

start here

Alliant Bullseye

Charge in grains			psi	fps
STOP				
4.3	35000	1104		
4.2	33500	1084		
4.1	32100	1064		
4.0	30600	1045		
3.9	29200	1025		
3.8	27700	1005		
3.7	26300	986		
3.6	24800	966		
3.5	23400	946		
3.4	22000	927		
STOP				

start here

Alliant Unique

Charge in grains			psi	fps
STOP				
5.6	32200	1152		
5.5	31600	1139		
5.4	31000	1126		
5.3	30500	1113		
5.2	29900	1100		
5.1	29300	1088		
5.0	28800	1075		
4.9	28200	1062		
4.8	27600	1049		
4.7	27100	1036		
4.6	26500	1024		
4.5	25900	1011		
4.4	25400	998		
4.3	24800	985		
4.2	24300	973		
STOP				

start here

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Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.6	35000	1161
6.5	33900	1143
6.4	32900	1126
6.3	31900	1109
6.2	30900	1092
6.1	29800	1075
6.0	28800	1058
5.9	27800	1041
5.8	26800	1024
5.7	25700	1007
5.6	24700	990
5.5	23700	973
5.4	22700	956
5.3	21700	939
STOP		

IMR 700X		
Charge in grains	psi	fps
STOP		
4.2	32900	1094
4.1	31700	1073
4.0	30600	1053
3.9	29400	1033
3.8	28300	1012
3.7	27100	992
3.6	26000	972
3.5	24900	951
3.4	23700	931
3.3	22600	911
3.2	21400	890
3.1	20300	870
3.0	19200	850
STOP		

*Compressed load.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.3	31600	1178
6.2	30800	1161
6.1	30100	1145
6.0	29300	1129
5.9	28600	1113
5.8	27800	1097
5.7	27100	1081
5.6	26300	1064
5.5	25600	1048
5.4	24800	1032
5.3	24100	1016
5.2	23300	1000
5.1	22600	984
5.0	21900	968
STOP		

*Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.5	33100	1135
5.4	32300	1120
5.3	31600	1105
5.2	30900	1090
5.1	30200	1075
5.0	29500	1060
4.9	28800	1045
4.8	28100	1030
4.7	27400	1016
4.6	26700	1001
4.5	26000	986
4.4	25300	971
4.3	24600	956
4.2	23900	941
4.1	23200	926
4.0	22500	912
STOP		

Vihtavuori N320		
Charge in grains	psi	fps
STOP		
4.1	35000	1043
4.0	33300	1020
3.9	31600	998
3.8	30000	976
3.7	28300	953
3.6	26700	931
3.5	25000	909
3.4	23400	887
3.3	21700	864
3.2	20100	842
3.1	18400	820
3.0	16800	798
STOP		

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Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
4.6	35000	1066		
4.5	33700	1046		
4.4	32400	1027		
4.3	31100	1008		
4.2	29800	989		
4.1	28600	969		
4.0	27300	950		
3.9	26000	931		
3.8	24700	912		
3.7	23500	892		
3.6	22200	873		
3.5	20900	854		
3.4	19600	835		
3.3	18400	816		
STOP				

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
6.5	35000	1114		
6.4	33900	1096		
6.3	32800	1078		
6.2	31800	1060		
6.1	30700	1042		
6.0	29700	1024		
5.9	28600	1006		
5.8	27600	989		
5.7	26500	971		
5.6	25500	953		
5.5	24400	935		
5.4	23400	917		
5.3	22300	899		
5.2	21300	882		
STOP				

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
8.2	35000	1189		
8.1	34200	1173		
8.0	33500	1158		
7.9	32800	1143		
7.8	32100	1128		
7.7	31400	1113		
7.6	30700	1098		
7.5	30000	1083		
7.4	29300	1068		
7.3	28500	1053		
7.2	27800	1038		
7.1	27100	1023		
7.0	26400	1008		
6.9	25700	993		
6.8	25000	978		
6.7	24300	963		
6.6	23600	948		
6.5	22900	933		
STOP				

Alliant Bullseye

Charge in grains			psi	fps
STOP				
4.3	35000	1074		
4.2	33700	1053		
4.1	32500	1033		
4.0	31300	1013		
3.9	30000	993		
3.8	28800	973		
3.7	27600	953		
3.6	26300	933		
3.5	25100	913		
3.4	23900	893		
STOP				

Alliant Unique

Charge in grains			psi	fps
STOP				
5.6	35000	1127		
5.5	34200	1113		
5.4	33500	1100		
5.3	32800	1086		
5.2	32100	1073		
5.1	31300	1059		
5.0	30600	1046		
4.9	29900	1033		
4.8	29200	1019		
4.7	28500	1006		
4.6	27700	992		
4.5	27000	979		
4.4	26300	965		
4.3	25600	952		
4.2	24900	939		
STOP				

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Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.5	35000	1125
6.4	33900	1107
6.3	32900	1089
6.2	31900	1072
6.1	30800	1054
6.0	29800	1036
5.9	28800	1019
5.8	27700	1001
5.7	26700	983
5.6	25700	966
5.5	24600	948
5.4	23600	930
5.3	22600	913
STOP		

start here

IMR 700X		
Charge in grains	psi	fps
STOP		
4.2	32700	1064
4.1	31600	1042
4.0	30600	1021
3.9	29600	1000
3.8	28600	979
3.7	27600	958
3.6	26600	937
3.5	25600	916
3.4	24600	895
3.3	23600	874
3.2	22600	853
3.1	21600	832
3.0	20600	811
STOP		

start here

* Compressed load.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.3	30400	1160
6.2	29800	1145
6.1	29300	1131
6.0	28800	1117
5.9	28300	1102
5.8	27800	1088
5.7	27300	1074
5.6	26800	1059
5.5	26300	1045
5.4	25800	1031
5.3	25300	1016
5.2	24800	1002
5.1	24300	988
5.0	23800	974
STOP		

start here

* Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.2	35000	1076
5.1	33800	1058
5.0	32700	1040
4.9	31600	1022
4.8	30500	1004
4.7	29400	986
4.6	28300	968
4.5	27200	950
4.4	26100	932
4.3	25000	914
4.2	23900	896
4.1	22800	878
4.0	21700	861
STOP		

start here

Vihtavuori N320		
Charge in grains	psi	fps
STOP		
4.1	35000	1007
4.0	33500	985
3.9	32000	963
3.8	30600	941
3.7	29100	920
3.6	27600	898
3.5	26200	876
3.4	24700	854
3.3	23200	833
3.2	21800	811
3.1	20300	789
3.0	18900	768
STOP		

start here

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Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.7	35000	1081
4.6	33800	1063
4.5	32600	1045
4.4	31400	1027
4.3	30200	1009
4.2	29000	992
4.1	27800	974
4.0	26700	956
3.9	25500	938
3.8	24300	920
3.7	23100	903
3.6	21900	885
3.5	20700	867
3.4	19500	849
3.3	18400	832
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.6	32500	1132
6.5	31600	1114
6.4	30800	1097
6.3	29900	1079
6.2	29100	1062
6.1	28300	1045
6.0	27400	1027
5.9	26600	1010
5.8	25800	993
5.7	24900	975
5.6	24100	958
5.5	23300	941
5.4	22400	923
5.3	21600	906
5.2	20800	889
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
8.3	35000	1197
8.2	34200	1182
8.1	33500	1167
8.0	32800	1152
7.9	32000	1137
7.8	31300	1122
7.7	30600	1107
7.6	29800	1092
7.5	29100	1077
7.4	28400	1062
7.3	27600	1047
7.2	26900	1032
7.1	26200	1017
7.0	25400	1002
6.9	24700	987
6.8	24000	972
6.7	23200	957
6.6	22500	942
6.5	21800	927
STOP		

start here

Alliant Bullseye

Charge in grains psi fps

STOP		
4.4	35000	1093
4.3	33800	1073
4.2	32600	1053
4.1	31400	1033
4.0	30200	1013
3.9	29100	993
3.8	27900	973
3.7	26700	953
3.6	25500	933
3.5	24300	913
3.4	23200	894
STOP		

start here

Alliant Unique

Charge in grains psi fps

STOP		
5.6	31700	1128
5.5	30900	1113
5.4	30100	1099
5.3	29300	1084
5.2	28500	1070
5.1	27700	1056
5.0	26900	1041
4.9	26200	1027
4.8	25400	1013
4.7	24600	998
4.6	23800	984
4.5	23000	970
4.4	22200	955
4.3	21400	941
4.2	20700	927
STOP		

start here

* Compressed load.

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Hodgdon HS-6

Charge in grains			psi	fps
STOP				
6.5	31600	1122		
6.4	30800	1105		
6.3	30000	1088		
6.2	29300	1071		
6.1	28500	1055		
6.0	27800	1038		
5.9	27000	1021		
5.8	26200	1004		
5.7	25500	988		
5.6	24700	971		
5.5	24000	954		
5.4	23200	937		
5.3	22500	921		
STOP				

IMR 700X

Charge in grains			psi	fps
STOP				
4.3	32900	1093		
4.2	31700	1070		
4.1	30600	1048		
4.0	29400	1026		
3.9	28300	1004		
3.8	27200	982		
3.7	26000	960		
3.6	24900	937		
3.5	23700	915		
3.4	22600	893		
3.3	21500	871		
3.2	20300	849		
3.1	19200	827		
3.0	18100	805		
STOP				

*Compressed load.

IMR SR4756

Charge in grains			psi	fps
STOP				
6.3	28700	1136		
6.2	28200	1123		
6.1	27800	1111		
6.0	27400	1099		
5.9	27000	1087		
5.8	26500	1075		
5.7	26100	1063		
5.6	25700	1050		
5.5	25300	1038		
5.4	24800	1026		
5.3	24400	1014		
5.2	24000	1002		
5.1	23600	990		
5.0	23200	978		
STOP				

*Compressed load.

IMR SR7625

Charge in grains			psi	fps
STOP				
5.3	35000	1099		
5.2	34000	1082		
5.1	33100	1065		
5.0	32200	1048		
4.9	31300	1031		
4.8	30300	1014		
4.7	29400	997		
4.6	28500	980		
4.5	27600	963		
4.4	26600	946		
4.3	25700	929		
4.2	24800	912		
4.1	23900	895		
4.0	23000	879		
STOP				

Vihtavuori N320

Charge in grains			psi	fps
STOP				
4.1	35000	1009		
4.0	33300	985		
3.9	31700	962		
3.8	30100	938		
3.7	28500	915		
3.6	26900	891		
3.5	25200	868		
3.4	23600	844		
3.3	22000	821		
3.2	20400	797		
3.1	18800	774		
3.0	17200	751		
STOP				

Reducing Cartridge Over All Length increases pressure greatly. See page 77 for O.A.L. in our testing.

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



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All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
4.7	35000	1097		
4.6	33900	1079		
4.5	32800	1062		
4.4	31800	1045		
4.3	30700	1028		
4.2	29600	1010		
4.1	28600	993		
4.0	27500	976		
3.9	26400	959		
3.8	25400	942		
3.7	24300	924		
3.6	23200	907		
3.5	22200	890		
3.4	21100	873		
3.3	20100	856		
STOP				

start here

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
6.6	35000	1150		
6.5	34000	1133		
6.4	33000	1117		
6.3	32100	1101		
6.2	31100	1085		
6.1	30200	1069		
6.0	29200	1053		
5.9	28300	1037		
5.8	27300	1021		
5.7	26300	1005		
5.6	25400	989		
5.5	24400	973		
5.4	23500	957		
5.3	22500	941		
5.2	21600	925		
STOP				

start here

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
8.3	31800	1167		
8.2	31200	1154		
8.1	30600	1141		
8.0	30100	1128		
7.9	29500	1115		
7.8	28900	1102		
7.7	28400	1089		
7.6	27800	1076		
7.5	27200	1063		
7.4	26700	1051		
7.3	26100	1038		
7.2	25500	1025		
7.1	25000	1012		
7.0	24400	999		
6.9	23800	986		
6.8	23300	973		
6.7	22700	960		
6.6	22100	947		
STOP				

start here

*Compressed load.

Alliant Bullseye

Charge in grains			psi	fps
STOP				
4.2	35000	1097		
4.1	33600	1077		
4.0	32300	1058		
3.9	30900	1039		
3.8	29600	1020		
3.7	28300	1001		
3.6	26900	982		
3.5	25600	963		
3.4	24300	944		
STOP				

start here

Alliant Unique

Charge in grains			psi	fps
STOP				
5.6	35000	1173		
5.5	34100	1158		
5.4	33300	1143		
5.3	32500	1128		
5.2	31700	1114		
5.1	30800	1099		
5.0	30000	1084		
4.9	29200	1070		
4.8	28400	1055		
4.7	27600	1040		
4.6	26700	1025		
4.5	25900	1011		
4.4	25100	996		
4.3	24300	981		
4.2	23500	967		
STOP				

start here

*Compressed load.

Reducing Cartridge Over All Length increases pressure greatly. See page 77 for O.A.L. in our testing.

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Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.5	35000	1149
6.4	33900	1131

6.3	32900	1113
6.2	31900	1096
6.1	30800	1078
6.0	29800	1061
5.9	28800	1043
5.8	27700	1025
5.7	26700	1008
5.6	25700	990
5.5	24600	973
5.4	23600	955
5.3	22600	938
STOP		

start here

IMR 700X		
Charge in grains	psi	fps
STOP		
4.2	35000	1104
4.1	33700	1083

4.0	32500	1062
3.9	31300	1042
3.8	30100	1021
3.7	28900	1001
3.6	27700	980
3.5	26500	959
3.4	25300	939
3.3	24100	918
3.2	22900	898
3.1	21700	877
3.0	20500	857
STOP		

start here

*Compressed load.

IMR SR4756		
Charge in grains	psi	fps
STOP		
6.3	32200	1181
6.2	31400	1164
6.1	30600	1148
6.0	29800	1132
5.9	29000	1116
5.8	28200	1099
5.7	27400	1083
5.6	26600	1067
5.5	25800	1051
5.4	25000	1034
5.3	24200	1018
5.2	23400	1002
5.1	22600	986
5.0	21800	970
STOP		

start here

*Compressed load.

IMR SR7625		
Charge in grains	psi	fps
STOP		
5.4	31400	1103
5.3	30700	1089
5.2	30100	1075
5.1	29500	1061
5.0	28900	1047
4.9	28300	1033
4.8	27700	1019
4.7	27100	1006
4.6	26400	992
4.5	25800	978
4.4	25200	964
4.3	24600	950
4.2	24000	936
4.1	23400	922
4.0	22800	909
STOP		

start here

Vihtavuori N320		
Charge in grains	psi	fps
STOP		
4.1	35000	1041
4.0	33500	1019

3.9	32000	998
3.8	30600	977
3.7	29100	955
3.6	27600	934
3.5	26200	913
3.4	24700	892
3.3	23200	870
3.2	21800	849
3.1	20300	828
3.0	18900	807
STOP		

start here

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Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.1	35000	1077
4.0	33600	1059
3.9	32300	1042
3.8	31000	1024
3.7	29700	1007
3.6	28400	990
3.5	27000	972
3.4	25700	955
3.3	24400	938
3.2	23100	920
3.1	21800	903
3.0	20500	886
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
5.3	35000	1051
5.2	33700	1033
5.1	32500	1015
5.0	31300	997
4.9	30100	980
4.8	28900	962
4.7	27700	944
4.6	26400	927
4.5	25200	909
4.4	24000	891
4.3	22800	874
4.2	21600	856
4.1	20400	838
4.0	19200	821
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
7.0	35000	1073
6.9	34200	1059
6.8	33500	1046
6.7	32800	1032
6.6	32100	1019
6.5	31400	1005
6.4	30600	992
6.3	29900	978
6.2	29200	965
6.1	28500	951
6.0	27800	938
5.9	27000	924
5.8	26300	911
5.7	25600	897
5.6	24900	884
5.5	24200	871
STOP		

start here

Alliant Bullseye

Charge in grains psi fps

STOP		
3.5	32900	1008
3.4	31400	988
3.3	29900	968
3.2	28400	948
3.1	26900	928
3.0	25400	909
2.9	23900	889
2.8	22400	869
2.7	20900	849
2.6	19400	829
2.5	17900	810
STOP		

start here

Alliant Red Dot

Charge in grains psi fps

STOP		
3.5	35000	1015
3.4	33600	994
3.3	32200	974
3.2	30800	954
3.1	29400	934
3.0	28100	914
2.9	26700	894
2.8	25300	874
2.7	23900	854
2.6	22600	834
2.5	21200	814
2.4	19800	794
2.3	18400	774
2.2	17100	754
STOP		

start here

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9mm Luger

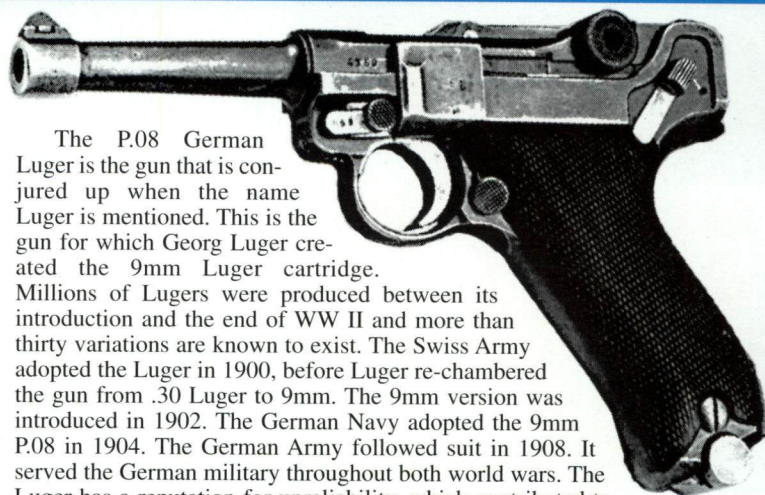
.355" Dia.
125 grain
Sectional
Density .141



	Sierra FMJ	Sierra JHP	MidwayUSA Lead RN	Speer Lead RN
Ballistic Coefficient	.180	N/A	N/A	.155
Ctg. Overall Length	1.169	1.070	1.090	1.150

BULLET	PAGE
Sierra FMJPlated	98
Sierra JHP.....Plated	99
MidwayUSA RNLead	100
Speer RNLead	101

Reducing Cartridge Over All Length increases pressure greatly.



The P.08 German Luger is the gun that is conjured up when the name Luger is mentioned. This is the gun for which Georg Luger created the 9mm Luger cartridge. Millions of Lugers were produced between its introduction and the end of WW II and more than thirty variations are known to exist. The Swiss Army adopted the Luger in 1900, before Luger re-chambered the gun from .30 Luger to 9mm. The 9mm version was introduced in 1902. The German Navy adopted the 9mm P.08 in 1904. The German Army followed suit in 1908. It served the German military throughout both world wars. The Luger has a reputation for unreliability, which contributed to Germany's decision to replace it with the P.38. Although weak magazine springs can cause the Luger to jam because of the speed of the action, the commonest Luger failure can be credited to its ammunition. If the powder charge of the round is too light, the breechblock will not travel far enough backwards to pick up the next round. The Luger is also particularly vulnerable to dirt and grit. The Luger was produced for the German war machine until 1943 and over 400,000 Lugers were sold to the military after its official replacement by the P.38 in 1938. In an early attempt to produce a sub-machine gun, some early P.08 Lugers were fitted with a wooden shoulder stock and a 32-round snail magazine. Collectors should be aware that Lugers fitted with a shoulder stock are viewed as submachine guns by the BATF.

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP) 35,000 psi			



Accurate Arms No. 7

Charge in grains psi fps

STOP		
8.1	32600	1136
8.0	32000	1122
7.9	31400	1108
7.8	30800	1094
7.7	30200	1080
7.6	29600	1066
7.5	29100	1052
7.4	28500	1039
7.3	27900	1025
7.2	27300	1011
7.1	26700	997
7.0	26200	983
6.9	25600	969
6.8	25000	955
6.7	24400	942
6.6	23800	928
6.5	23300	914
6.4	22700	900
6.3	22100	886
STOP		

start here

Alliant Blue Dot

Charge in grains psi fps

STOP		
8.0	33200	1187
7.9	32600	1172
7.8	32000	1158
7.7	31500	1143
7.6	30900	1129
7.5	30400	1115
7.4	29800	1100
7.3	29200	1086
7.2	28700	1071
7.1	28100	1057
7.0	27600	1043
6.9	27000	1028
6.8	26400	1014
6.7	25900	999
6.6	25300	985
6.5	24800	971
6.4	24200	956
6.3	23600	942
STOP		

start here

* Compressed load.

Alliant Bullseye

Charge in grains psi fps

STOP		
4.3	35000	1088
4.2	33800	1066
4.1	32700	1045
4.0	31500	1024
3.9	30400	1003
3.8	29200	982
3.7	28100	961
3.6	26900	939
3.5	25800	918
3.4	24600	897
3.3	23500	876
3.2	22300	855
3.1	21200	834
3.0	20100	813
STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 97 for O.A.L. in our testing.

Hodgdon HS-6

Charge in grains psi fps

STOP		
6.5	32100	1116
6.4	31300	1098
6.3	30500	1080
6.2	29700	1062
6.1	28900	1044
6.0	28200	1027
5.9	27400	1009
5.8	26600	991
5.7	25800	973
5.6	25000	955
5.5	24300	938
5.4	23500	920
5.3	22700	902
5.2	21900	884
5.1	21100	866
5.0	20400	849
STOP		

start here

Vihtavuori 3N37

Charge in grains psi fps

STOP		
6.0	35000	1135
5.9	34100	1115
5.8	33200	1095
5.7	32400	1075
5.6	31500	1055
5.5	30600	1036
5.4	29800	1016
5.3	28900	996
5.2	28000	976
5.1	27200	956
5.0	26300	937
4.9	25400	917
4.8	24600	897
4.7	23700	877
4.6	22800	857
4.5	22000	838
4.4	21100	818
4.3	20200	798
4.2	19400	778
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 7		
Charge in grains	psi	fps
STOP		
8.1	35000	1135
8.0	34300	1122
7.9	33700	1110
7.8	33100	1098
7.7	32500	1086
7.6	31900	1073
7.5	31300	1061
7.4	30700	1049
7.3	30100	1037
7.2	29500	1024
7.1	28900	1012
7.0	28300	1000
6.9	27700	988
6.8	27100	975
6.7	26500	963
6.6	25900	951
6.5	25300	939
6.4	24700	926
6.3	24100	914
STOP		

start here

Alliant Blue Dot		
Charge in grains	psi	fps
STOP		
* 7.9	35000	1198
7.8	34300	1185
7.7	33700	1172
7.6	33000	1159
7.5	32400	1146
7.4	31700	1134
7.3	31100	1121
7.2	30400	1108
7.1	29800	1095
7.0	29100	1082
6.9	28500	1070
6.8	27800	1057
6.7	27200	1044
6.6	26500	1031
6.5	25900	1018
6.4	25200	1006
6.3	24600	993
6.2	23900	980
STOP		

start here

* Compressed load.

Alliant Bullseye		
Charge in grains	psi	fps
STOP		
4.0	35000	1069
3.9	33600	1047
3.8	32300	1025
3.7	30900	1003
3.6	29600	981
3.5	28300	960
3.4	26900	938
3.3	25600	916
3.2	24200	894
3.1	22900	872
3.0	21600	851
STOP		

start here

Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.0	35000	1084
5.9	33800	1067
5.8	32700	1050
5.7	31500	1033
5.6	30400	1016
5.5	29300	999
5.4	28100	982
5.3	27000	965
5.2	25800	948
5.1	24700	931
5.0	23600	914
STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See page 97 for O.A.L. in our testing.

Vihtavuori 3N37		
Charge in grains	psi	fps
STOP		
5.8	35000	1119
5.7	34100	1101
5.6	33200	1083
5.5	32400	1066
5.4	31500	1048
5.3	30700	1030
5.2	29800	1013
5.1	29000	995
5.0	28100	978
4.9	27300	960
4.8	26400	942
4.7	25500	925
4.6	24700	907
4.5	23800	890
4.4	23000	872
4.3	22100	854
4.2	21300	837
4.1	20400	819
4.0	19600	802
STOP		

start here

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All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.4	35000	1114
4.3	33700	1096
4.2	32500	1079
4.1	31300	1062
4.0	30100	1045
3.9	28800	1028
3.8	27600	1011
3.7	26400	994
3.6	25200	976
3.5	24000	959
3.4	22700	942
3.3	21500	925
3.2	20300	908
3.1	19100	891
3.0	17900	874
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
6.0	35000	1110
5.9	33900	1094
5.8	32900	1078
5.7	31900	1062
5.6	30800	1046
5.5	29800	1030
5.4	28800	1014
5.3	27700	998
5.2	26700	982
5.1	25700	966
5.0	24600	950
4.9	23600	934
4.8	22600	918
4.7	21500	902
4.6	20500	886
4.5	19500	870
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
7.6	35000	1104
7.5	34300	1092
7.4	33600	1080
7.3	32900	1069
7.2	32300	1057
7.1	31600	1046
7.0	30900	1034
6.9	30300	1023
6.8	29600	1011
6.7	28900	1000
6.6	28200	988
6.5	27600	977
6.4	26900	965
6.3	26200	954
6.2	25600	942
6.1	24900	931
6.0	24200	919
5.9	23500	908
5.8	22900	896
STOP		

start here

Alliant Blue Dot

Charge in grains psi fps

STOP		
7.7	35000	1225
7.6	34300	1211
7.5	33700	1198
7.4	33100	1185
7.3	32500	1171
7.2	31900	1158
7.1	31300	1145
7.0	30600	1132
6.9	30000	1118
6.8	29400	1105
6.7	28800	1092
6.6	28200	1079
6.5	27600	1065
6.4	27000	1052
6.3	26300	1039
6.2	25700	1026
6.1	25100	1012
6.0	24500	999
STOP		

start here

* Compressed load.

Alliant Red Dot

Charge in grains psi fps

STOP		
3.9	35000	1088
3.8	33800	1069
3.7	32700	1051
3.6	31600	1033
3.5	30500	1015
3.4	29400	996
3.3	28300	978
3.2	27200	960
3.1	26000	942
3.0	24900	924
2.9	23800	905
2.8	22700	887
2.7	21600	869
2.6	20500	851
2.5	19400	833
STOP		

start here

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Reducing Cartridge Over All Length increases pressure greatly. See page 97 for O.A.L. in our testing.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



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Accurate Arms No. 2		
Charge in grains	psi	fps
STOP		
4.7	35000	1142
4.6	33900	1124
4.5	32900	1106
4.4	31800	1088
4.3	30800	1070
4.2	29800	1052
4.1	28700	1034
4.0	27700	1016
3.9	26700	998
3.8	25600	980
3.7	24600	962
3.6	23600	944
3.5	22500	926
3.4	21500	908
3.3	20500	890
3.2	19400	872
3.1	18400	854
3.0	17400	837
STOP		

start here

Accurate Arms No. 5		
Charge in grains	psi	fps
STOP		
6.6	35000	1164
6.5	34100	1147
6.4	33300	1130
6.3	32500	1114
6.2	31700	1097
6.1	30900	1080
6.0	30000	1064
5.9	29200	1047
5.8	28400	1031
5.7	27600	1014
5.6	26800	997
5.5	25900	981
5.4	25100	964
5.3	24300	947
5.2	23500	931
5.1	22700	914
5.0	21800	898
4.9	21000	881
4.8	20200	864
STOP		

start here

Accurate Arms No. 7		
Charge in grains	psi	fps
STOP		
8.1	35000	1148
8.0	34300	1134
7.9	33600	1120
7.8	33000	1106
7.7	32300	1093
7.6	31600	1079
7.5	31000	1065
7.4	30300	1052
7.3	29600	1038
7.2	29000	1024
7.1	28300	1011
7.0	27600	997
6.9	27000	983
6.8	26300	970
6.7	25600	956
6.6	25000	942
6.5	24300	928
6.4	23600	915
6.3	23000	901
STOP		

start here

Alliant Blue Dot		
Charge in grains	psi	fps
STOP		
8.0	29600	1191
7.9	29100	1178
7.8	28700	1165
7.7	28300	1153
7.6	27900	1140
7.5	27500	1127
7.4	27100	1115
7.3	26700	1102
7.2	26300	1089
7.1	25900	1077
7.0	25500	1064
6.9	25100	1052
6.8	24700	1039
6.7	24300	1026
6.6	23900	1014
6.5	23500	1001
6.4	23000	988
6.3	22600	976
STOP		

start here

*Compressed load.

Alliant Red Dot		
Charge in grains	psi	fps
STOP		
4.3	35000	1108
4.2	34000	1091
4.1	33100	1075
4.0	32200	1059
3.9	31300	1043
3.8	30300	1027
3.7	29400	1011
3.6	28500	994
3.5	27600	978
3.4	26600	962
3.3	25700	946
3.2	24800	930
3.1	23900	914
3.0	23000	898
STOP		

start here

*Compressed load.

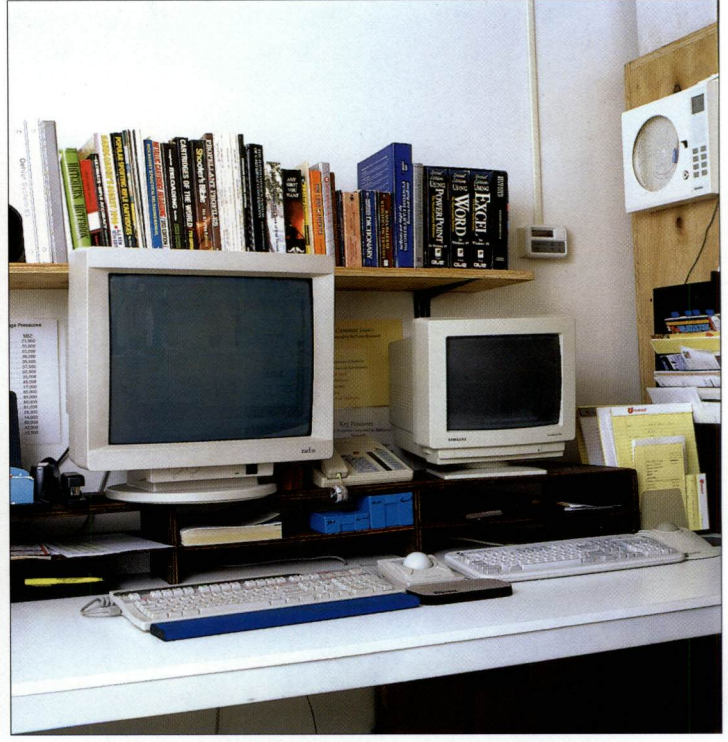
Reducing Cartridge Over All Length increases pressure greatly. See page 97 for O.A.L. in our testing.

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Our ballistics lab has the finest loading and computer equipment available. Our ballistics personnel are highly trained in its use and purpose.

9mm Luger

.355" Dia.
 130 grain
 Sectional
 Density .147



	MidwayUSA FMJ/RN	Remington FMJ	Sierra FMJ	Winchester FMJ
Ballistic Coefficient	N/A	N/A	.182	N/A
Ctg. Overall Length	1.130	1.135	1.169	1.155

Reducing Cartridge
 Over All Length
 increases pressure
 greatly.

BULLET	PAGE
MidwayUSA FMJ/RNPlated	104-105
Remington FMJJacketed	106-107
Sierra FMJPlated	108-109
Winchester FMJJacketed	110-111

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP) 35,000 psi			



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Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
8.0	35000	1105		
7.9	34300	1093		
7.8	33700	1081		
7.7	33100	1069		
7.6	32400	1057		
7.5	31800	1045		
7.4	31200	1033		
7.3	30500	1021		
7.2	29900	1009		
7.1	29300	997		
7.0	28700	985		
6.9	28000	973		
6.8	27400	961		
6.7	26800	949		
6.6	26100	937		
6.5	25500	925		
6.4	24900	913		
6.3	24200	901		
6.2	23600	889		
STOP				

start here

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
* 7.5	35000	1158		
7.4	34300	1142		
7.3	33700	1127		
7.2	33100	1111		
7.1	32400	1096		
7.0	31800	1081		
6.9	31200	1065		
6.8	30600	1050		
6.7	29900	1035		
6.6	29300	1019		
6.5	28700	1004		
6.4	28000	989		
6.3	27400	973		
6.2	26800	958		
6.1	26200	942		
6.0	25500	927		
5.9	24900	912		
5.8	24300	896		
STOP				

start here

* Compressed load.

Alliant Bullseye

Charge in grains			psi	fps
STOP				
3.9	35000	1011		
3.8	33800	987		
3.7	32600	963		
3.6	31400	940		
3.5	30300	916		
3.4	29100	892		
3.3	27900	869		
3.2	26800	845		
3.1	25600	821		
3.0	24400	798		
2.9	23200	774		
2.8	22100	750		
2.7	20900	727		
2.6	19700	703		
2.5	18600	680		
STOP				

start here

Alliant Unique

Charge in grains			psi	fps
STOP				
4.9	32900	1050		
4.8	32000	1029		
4.7	31200	1009		
4.6	30400	989		
4.5	29500	969		
4.4	28700	948		
4.3	27900	928		
4.2	27100	908		
4.1	26200	888		
4.0	25400	868		
3.9	24600	847		
3.8	23800	827		
3.7	22900	807		
3.6	22100	787		
3.5	21300	767		
3.4	20500	746		
3.3	19600	726		
3.2	18800	706		
3.1	18000	686		
STOP				

start here

Hodgdon HP-38

Charge in grains			psi	fps
STOP				
4.2	35000	997		
4.1	33700	976		
4.0	32500	955		
3.9	31300	935		
3.8	30100	914		
3.7	28900	893		
3.6	27700	873		
3.5	26500	852		
3.4	25300	831		
3.3	24100	811		
3.2	22900	790		
3.1	21700	769		
3.0	20500	749		
STOP				

start here

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Hodgdon HS-6		
Charge in grains psi fps		
STOP		
6.1	35000	1081
6.0	33900	1061
5.9	32800	1042
5.8	31700	1023
5.7	30600	1004
5.6	29500	985
5.5	28400	965
5.4	27300	946
5.3	26200	927
5.2	25100	908
5.1	24000	889
5.0	22900	870
STOP		

IMR 700X		
Charge in grains psi fps		
STOP		
3.9	35000	1026
3.8	33600	1004
3.7	32200	982
3.6	30800	960
3.5	29400	938
3.4	28100	917
3.3	26700	895
3.2	25300	873
3.1	23900	851
3.0	22600	830
STOP		

Winchester 231		
Charge in grains psi fps		
STOP		
4.1	33100	1006
4.0	31900	983
3.9	30800	961
3.8	29600	938
3.7	28500	916
3.6	27300	894
3.5	26200	871
3.4	25000	849
3.3	23900	827
3.2	22700	804
3.1	21600	782
3.0	20500	760
STOP		

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Accurate Arms No. 7		
Charge in grains	psi	fps
STOP		
8.3	35000	1145
8.2	34300	1132
8.1	33700	1119
STOP		
8.0	33100	1106
7.9	32500	1094
7.8	31900	1081
7.7	31200	1068
7.6	30600	1055
7.5	30000	1043
7.4	29400	1030
7.3	28800	1017
7.2	28200	1004
7.1	27500	992
7.0	26900	979
6.9	26300	966
6.8	25700	953
6.7	25100	941
6.6	24500	928
6.5	23800	915
STOP		

start here

Alliant Blue Dot		
Charge in grains	psi	fps
STOP		
7.5	35000	1159
7.4	34300	1143
7.3	33700	1127
STOP		
7.2	33000	1111
7.1	32400	1095
7.0	31800	1079
6.9	31100	1063
6.8	30500	1047
6.7	29900	1031
6.6	29200	1015
6.5	28600	999
6.4	28000	983
6.3	27300	967
6.2	26700	952
6.1	26000	936
6.0	25400	920
5.9	24800	904
5.8	24100	888
STOP		

start here

*Compressed load.

Alliant Bullseye		
Charge in grains	psi	fps
STOP		
4.1	35000	1043
4.0	33900	1020
STOP		
3.9	32800	997
3.8	31700	975
3.7	30600	952
3.6	29500	929
3.5	28400	907
3.4	27300	884
3.3	26200	862
3.2	25100	839
3.1	24000	816
3.0	22900	794
2.9	21800	771
2.8	20700	748
2.7	19600	726
2.6	18500	703
2.5	17500	681
STOP		

start here

Alliant Unique		
Charge in grains	psi	fps
STOP		
5.1	35000	1088
5.0	34100	1067
STOP		
4.9	33200	1046
4.8	32400	1025
4.7	31500	1004
4.6	30600	983
4.5	29800	962
4.4	28900	942
4.3	28000	921
4.2	27200	900
4.1	26300	879
4.0	25400	858
3.9	24600	837
3.8	23700	816
3.7	22800	796
3.6	22000	775
3.5	21100	754
3.4	20200	733
3.3	19400	712
STOP		

start here

Hodgdon HP-38		
Charge in grains	psi	fps
STOP		
4.3	35000	1023
4.2	33700	1000
STOP		
4.1	32500	978
4.0	31300	955
3.9	30100	933
3.8	28800	911
3.7	27600	888
3.6	26400	866
3.5	25200	843
3.4	23900	821
3.3	22700	799
3.2	21500	776
3.1	20300	754
3.0	19100	732
STOP		

start here

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Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.1	32800	1076
6.0	31800	1059
5.9	30900	1042
5.8	30000	1026
5.7	29100	1009
5.6	28200	992
5.5	27200	976
5.4	26300	959
5.3	25400	942
5.2	24500	926
5.1	23600	909
5.0	22700	893
STOP		

start here

IMR 700X		
Charge in grains	psi	fps
STOP		
4.0	33100	1036
3.9	31900	1013
3.8	30700	991
3.7	29500	969
3.6	28300	947
3.5	27200	925
3.4	26000	903
3.3	24800	881
3.2	23600	859
3.1	22400	837
3.0	21300	815
STOP		

start here

Winchester 231		
Charge in grains	psi	fps
STOP		
4.2	35000	1013
4.1	33600	990
4.0	32300	968
3.9	31000	946
3.8	29700	924
3.7	28400	901
3.6	27100	879
3.5	25700	857
3.4	24400	835
3.3	23100	812
3.2	21800	790
3.1	20500	768
3.0	19200	746
STOP		

start here

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Accurate Arms No. 7		
Charge in grains psi fps		
STOP		
8.4	35000	1153
8.3	34400	1139
8.2	33800	1126
STOP		
8.1	33200	1113
8.0	32600	1100
7.9	32000	1086
7.8	31500	1073
7.7	30900	1060
7.6	30300	1047
7.5	29700	1034
7.4	29100	1020
7.3	28500	1007
7.2	28000	994
7.1	27400	981
7.0	26800	968
6.9	26200	954
6.8	25600	941
6.7	25000	928
6.6	24500	915
STOP		

start here

Alliant Blue Dot		
Charge in grains psi fps		
STOP		
* 7.5	32500	1134
7.4	31900	1119
7.3	31400	1104
7.2	30800	1089
7.1	30300	1074
7.0	29700	1060
6.9	29200	1045
6.8	28600	1030
6.7	28100	1015
6.6	27600	1001
6.5	27000	986
6.4	26500	971
6.3	25900	956
6.2	25400	942
6.1	24800	927
6.0	24300	912
5.9	23700	897
5.8	23200	883
STOP		

start here

*Compressed load.

Alliant Bullseye		
Charge in grains psi fps		
STOP		
4.2	35000	1060
4.1	33900	1036
4.0	32800	1013
3.9	31800	990
3.8	30700	967
3.7	29700	943
3.6	28600	920
3.5	27500	897
3.4	26500	874
3.3	25400	850
3.2	24400	827
3.1	23300	804
3.0	22200	781
2.9	21200	757
2.8	20100	734
2.7	19100	711
2.6	18000	688
2.5	17000	665
STOP		

start here

Alliant Unique		
Charge in grains psi fps		
STOP		
* 5.2	35000	1080
5.1	34100	1060
5.0	33200	1041
4.9	32300	1022
4.8	31500	1002
4.7	30600	983
4.6	29700	964
4.5	28900	945
4.4	28000	925
4.3	27100	906
4.2	26300	887
4.1	25400	868
4.0	24500	848
3.9	23700	829
3.8	22800	810
3.7	21900	790
3.6	21100	771
3.5	20200	752
STOP		

start here

*Compressed load.

Hodgdon HP-38		
Charge in grains psi fps		
STOP		
4.4	35000	1032
4.3	33800	1009
4.2	32700	987
4.1	31500	964
4.0	30400	942
3.9	29200	919
3.8	28100	897
3.7	27000	874
3.6	25800	852
3.5	24700	829
3.4	23500	807
3.3	22400	784
3.2	21200	762
3.1	20100	739
3.0	19000	717
STOP		

start here

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Hodgdon HS-6		
Charge in grains psi fps		
STOP		
6.4	35000	1110
6.3	34000	1092
6.2	33100	1074
6.1	32200	1056
6.0	31300	1039
5.9	30400	1021
5.8	29500	1003
5.7	28600	986
5.6	27600	968
5.5	26700	950
5.4	25800	932
5.3	24900	915
5.2	24000	897
5.1	23100	879
5.0	22200	862
STOP		

start here

IMR 700X		
Charge in grains psi fps		
STOP		
4.2	35000	1069
4.1	33800	1047
4.0	32700	1025
3.9	31500	1003
3.8	30400	981
3.7	29200	959
3.6	28100	937
3.5	26900	915
3.4	25800	893
3.3	24600	871
3.2	23500	849
3.1	22300	827
3.0	21200	805
STOP		

start here

Winchester 231		
Charge in grains psi fps		
STOP		
4.4	35000	1040
4.3	33800	1017
4.2	32600	995
4.1	31500	973
4.0	30300	951
3.9	29200	928
3.8	28000	906
3.7	26900	884
3.6	25700	862
3.5	24500	840
3.4	23400	817
3.3	22200	795
3.2	21100	773
3.1	19900	751
3.0	18800	729
STOP		

start here

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Accurate Arms No. 7		
Charge in grains	psi	fps
STOP		
8.3	35000	1160
8.2	34300	1146
8.1	33600	1132

8.0	33000	1118
7.9	32300	1104
7.8	31600	1090
7.7	31000	1076
7.6	30300	1062
7.5	29700	1048
7.4	29000	1034
7.3	28300	1020
7.2	27700	1006
7.1	27000	992
7.0	26400	978
6.9	25700	964
6.8	25000	950
6.7	24400	936
6.6	23700	922
6.5	23100	908
STOP		

start here

Alliant Blue Dot		
Charge in grains	psi	fps
STOP		
7.5	32000	1156
7.4	31400	1140
7.3	30800	1124
7.2	30200	1108
7.1	29700	1092
7.0	29100	1076
6.9	28500	1060
6.8	28000	1045
6.7	27400	1029
6.6	26800	1013
6.5	26300	997
6.4	25700	981
6.3	25100	965
6.2	24600	950
6.1	24000	934
6.0	23400	918
5.9	22900	902
5.8	22300	886
STOP		

start here

* Compressed load.

Alliant Bullseye		
Charge in grains	psi	fps
STOP		
4.2	35000	1056
4.1	33900	1033

4.0	32900	1011
3.9	31800	989
3.8	30800	967
3.7	29800	945
3.6	28700	923
3.5	27700	901
3.4	26700	879
3.3	25600	857
3.2	24600	835
3.1	23600	813
3.0	22500	791
2.9	21500	769
2.8	20500	747
2.7	19400	725
2.6	18400	703
2.5	17400	681
STOP		

start here

Alliant Unique		
Charge in grains	psi	fps
STOP		
5.2	35000	1104
5.1	34200	1084
5.0	33400	1064

4.9	32600	1044
4.8	31800	1025
4.7	31000	1005
4.6	30200	985
4.5	29400	966
4.4	28600	946
4.3	27800	926
4.2	27000	907
4.1	26200	887
4.0	25400	867
3.9	24600	848
3.8	23800	828
3.7	23000	808
3.6	22200	789
3.5	21400	769
3.4	20600	749
STOP		

start here

Hodgdon HP-38		
Charge in grains	psi	fps
STOP		
4.4	35000	1033
4.3	33800	1011

4.2	32700	990
4.1	31500	969
4.0	30400	948
3.9	29200	926
3.8	28100	905
3.7	26900	884
3.6	25800	863
3.5	24600	842
3.4	23500	820
3.3	22300	799
3.2	21200	778
3.1	20000	757
3.0	18900	736
STOP		

start here

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Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
6.3	35000	1106
6.2	33900	1087
6.1	32900	1069
6.0	31800	1051
5.9	30800	1033
5.8	29700	1014
5.7	28700	996
5.6	27600	978
5.5	26600	960
5.4	25500	941
5.3	24500	923
5.2	23400	905
5.1	22400	887
5.0	21400	869
STOP		

start here

IMR 700X		
Charge in grains	psi	fps
STOP		
4.2	35000	1062
4.1	33700	1040
4.0	32500	1018
3.9	31300	996
3.8	30100	974
3.7	28800	952
3.6	27600	931
3.5	26400	909
3.4	25200	887
3.3	23900	865
3.2	22700	843
3.1	21500	821
3.0	20300	800
STOP		

start here

Winchester 231		
Charge in grains	psi	fps
STOP		
4.3	35000	1029
4.2	33700	1006
4.1	32500	984
4.0	31200	961
3.9	30000	939
3.8	28700	916
3.7	27500	894
3.6	26200	871
3.5	25000	849
3.4	23700	826
3.3	22500	804
3.2	21200	781
3.1	20000	759
3.0	18800	737
STOP		

start here

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photo courtesy of **The Marlin Firearms Co.**

The Marlin Model 9 Semi-Automatic Camp Carbine is one of the long guns available in 9mm Luger. It was introduced in 1985. Between 1985 and 1989, it was sold with a 12-round or a 20-round magazine. It has been sold with a 4-round magazine since 1990. It is a lightweight firearm that can be used for plinking, shooting varmints and small game.

9mm Luger

.355" - .356" Dia.
147 grain
Sectional
Density .167



	Hornady FMJ/RN/BT	Hornady HP/XTP	MidwayUSA FMJ/RN	MidwayUSA JHP	Remington FMJ-Match	Remington JHP
Ballistic Coefficient	.212	.212	N/A	N/A	N/A	N/A
Ctg. Overall Length	1.169	1.135	1.169	1.169	1.160	1.160

Reducing Cartridge Over All Length increases pressure greatly.



	Speer Gold Dot	Speer TMJ	Winchester JHP	Winchester ST/HP	Winchester TC
Ballistic Coefficient	.164	.208	N/A	N/A	N/A
Ctg. Overall Length	1.130	1.169	1.169	1.169	1.169

BULLETPAGE

Hornady FMJ/RN/BT.....Jacketed114-115

Hornady HP/XTPJacketed116-117

MidwayUSA FMJ/RNPlated118-119

MidwayUSA JHPPlated120-121

Remington FMJ-MatchPlated122-123

Remington JHPPlated124-125

Speer Gold Dot.....Plated126-127

Speer TMJPlated128-129

Winchester JHPJacketed130-131

Winchester ST/HPJacketed132-133

Winchester TCJacketed134-135

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Remington
Barrel	H-S Precision test barrel	Max Case Length	.754
Length	4" with 1:10" twist	Trim to Length	.744
Primer	Winchester Small Pistol	Max OAL	1.169
Maximum Average Pressure (MAP) 35,000 psi			



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Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
4.0	35000	973		
3.9	33800	953		
3.8	32700	933		
3.7	31500	914		
3.6	30400	894		
3.5	29300	874		
3.4	28100	855		
3.3	27000	835		
3.2	25800	815		
3.1	24700	796		
3.0	23600	776		
2.9	22400	756		
2.8	21300	737		
2.7	20100	717		
2.6	19000	697		
2.5	17900	678		
STOP				

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
5.5	35000	998		
5.4	34000	981		
5.3	33000	964		
5.2	32100	948		
5.1	31100	931		
5.0	30100	914		
4.9	29200	898		
4.8	28200	881		
4.7	27200	864		
4.6	26300	848		
4.5	25300	831		
4.4	24300	814		
4.3	23400	798		
4.2	22400	781		
4.1	21400	764		
4.0	20500	748		
STOP				

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
7.2	33000	1014		
7.1	32400	1000		
7.0	31800	987		
6.9	31200	973		
6.8	30600	960		
6.7	30000	946		
6.6	29400	933		
6.5	28800	919		
6.4	28200	906		
6.3	27600	892		
6.2	27000	879		
6.1	26500	865		
6.0	25900	852		
5.9	25300	838		
5.8	24700	825		
5.7	24100	811		
5.6	23500	798		
5.5	22900	784		
5.4	22300	771		
STOP				

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
6.2	31400	1019		
6.1	30700	1003		
6.0	30000	987		
5.9	29300	971		
5.8	28600	955		
5.7	27900	939		
5.6	27200	923		
5.5	26500	907		
5.4	25800	891		
5.3	25100	875		
5.2	24400	859		
5.1	23700	843		
5.0	23100	827		
STOP				

Alliant Unique

Charge in grains			psi	fps
STOP				
4.3	35000	991		
4.2	33700	972		
4.1	32500	953		
4.0	31300	935		
3.9	30100	916		
3.8	28800	897		
3.7	27600	879		
3.6	26400	860		
3.5	25200	842		
STOP				



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*Compressed load.

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Hodgdon HS-6

Charge in grains psi fps

STOP		
5.5	35000	997
5.4	33900	978
5.3	32800	960
5.2	31800	942
5.1	30700	924
5.0	29600	905
4.9	28600	887
4.8	27500	869
4.7	26500	851
4.6	25400	832
4.5	24300	814
4.4	23300	796
4.3	22200	778
4.2	21200	760

STOP

* Compressed load.

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Hodgdon HS-7

Charge in grains psi fps

STOP		
6.2	35000	1004
6.1	34200	988
6.0	33400	972
5.9	32700	957
5.8	31900	941
5.7	31100	926
5.6	30400	910
5.5	29600	894
5.4	28800	879
5.3	28100	863
5.2	27300	848
5.1	26500	832
5.0	25800	816
4.9	25000	801
4.8	24200	785
4.7	23500	770
4.6	22700	754
4.5	21900	738
4.4	21200	723

STOP

IMR SR7625

Charge in grains psi fps

STOP		
4.4	32300	965
4.3	31300	945
4.2	30400	925
4.1	29400	905
4.0	28500	885
3.9	27500	865
3.8	26600	845
3.7	25700	826
3.6	24700	806
3.5	23800	786
3.4	22800	766
3.3	21900	746
3.2	20900	726
3.1	20000	706
3.0	19100	687

STOP

Vihtavuori 3N37

Charge in grains psi fps

STOP		
5.2	35000	1011
5.1	34000	991
5.0	33100	972
4.9	32200	953
4.8	31300	934
4.7	30400	914
4.6	29400	895
4.5	28500	876
4.4	27600	857
4.3	26700	837
4.2	25800	818
4.1	24900	799
4.0	23900	780
3.9	23000	760
3.8	22100	741
3.7	21200	722
3.6	20300	703
3.5	19400	684

STOP

Winchester 231

Charge in grains psi fps

STOP		
3.7	32700	924
3.6	31600	900
3.5	30500	877
3.4	29400	854
3.3	28300	831
3.2	27300	808
3.1	26200	785
3.0	25100	762
2.9	24000	739
2.8	22900	716
2.7	21900	693
2.6	20800	670
2.5	19700	647
2.4	18600	624
2.3	17500	601
2.2	16500	578

STOP



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Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
3.9	35000	958		
3.8	33800	937		
3.7	32600	916		
3.6	31500	895		
3.5	30300	874		
3.4	29200	853		
3.3	28000	832		
3.2	26900	811		
3.1	25700	790		
3.0	24500	769		
2.9	23400	748		
2.8	22200	727		
2.7	21100	706		
2.6	19900	685		
2.5	18800	664		
STOP				

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
5.3	35000	991		
5.2	33800	971		
5.1	32600	952		
5.0	31500	932		
4.9	30300	913		
4.8	29100	894		
4.7	28000	874		
4.6	26800	855		
4.5	25700	835		
4.4	24500	816		
4.3	23300	797		
4.2	22200	777		
4.1	21000	758		
4.0	19900	739		
STOP				

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
7.0	35000	1010		
6.9	34200	995		
6.8	33400	981		
6.7	32700	967		
6.6	31900	953		
6.5	31200	939		
6.4	30400	925		
6.3	29700	911		
6.2	28900	897		
6.1	28200	883		
6.0	27400	869		
5.9	26600	854		
5.8	25900	840		
5.7	25100	826		
5.6	24400	812		
5.5	23600	798		
5.4	22900	784		
5.3	22100	770		
5.2	21400	756		
STOP				

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
6.2	35000	1032		
6.1	33900	1015		
6.0	32900	998		
5.9	31900	981		
5.8	30800	964		
5.7	29800	947		
5.6	28800	930		
5.5	27700	913		
5.4	26700	896		
5.3	25700	879		
5.2	24600	862		
5.1	23600	845		
5.0	22600	828		
STOP				

Alliant Unique

Charge in grains			psi	fps
STOP				
4.2	35000	986		
4.1	33700	966		
4.0	32400	946		
3.9	31100	926		
3.8	29800	907		
3.7	28500	887		
3.6	27200	867		
3.5	26000	848		
STOP				

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Hodgdon HS-6

Charge in grains			psi	fps
STOP				
5.4	35000			998
5.3	33800			979
5.2	32700			960
5.1	31600			941
5.0	30400			922
4.9	29300			903
4.8	28200			884
4.7	27000			865
4.6	25900			846
4.5	24800			827
4.4	23600			808
4.3	22500			789
4.2	21400			771
STOP				

Hodgdon HS-7

Charge in grains			psi	fps
STOP				
5.8	32300			963
5.7	31400			946
5.6	30500			929
5.5	29600			912
5.4	28800			895
5.3	27900			878
5.2	27000			861
5.1	26200			844
5.0	25300			828
4.9	24400			811
4.8	23600			794
4.7	22700			777
4.6	21800			760
4.5	21000			743
4.4	20100			726
4.3	19200			709
4.2	18400			693
STOP				

IMR SR7625

Charge in grains			psi	fps
STOP				
4.2	35000			960
4.1	33600			939
4.0	32300			919
3.9	31000			899
3.8	29700			879
3.7	28400			858
3.6	27100			838
3.5	25800			818
3.4	24500			798
3.3	23200			777
3.2	21900			757
3.1	20600			737
3.0	19300			717
STOP				

Vihtavuori 3N37

Charge in grains			psi	fps
STOP				
5.0	35000			993
4.9	33900			972
4.8	32800			951
4.7	31700			930
4.6	30600			909
4.5	29500			888
4.4	28400			867
4.3	27300			846
4.2	26300			825
4.1	25200			804
4.0	24100			783
3.9	23000			762
3.8	21900			741
3.7	20800			720
3.6	19700			699
3.5	18700			678
STOP				

Winchester 231

Charge in grains			psi	fps
STOP				
3.6	35000			920
3.5	33600			896
3.4	32300			872
3.3	31000			849
3.2	29600			825
3.1	28300			801
3.0	27000			778
2.9	25700			754
2.8	24300			730
2.7	23000			707
2.6	21700			683
2.5	20300			659
2.4	19000			636
2.3	17700			612
2.2	16400			589
STOP				

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Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
4.0	35000	945		
3.9	33800	922		
3.8	32600	900		
3.7	31500	878		
3.6	30300	856		
3.5	29200	834		
3.4	28000	811		
3.3	26900	789		
3.2	25700	767		
3.1	24600	745		
3.0	23400	723		
2.9	22300	700		
2.8	21100	678		
2.7	20000	656		
2.6	18800	634		
2.5	17700	612		
STOP				

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
5.6	35000	997		
5.5	34000	978		
5.4	33000	959		
5.3	32000	941		
5.2	31100	922		
5.1	30100	903		
5.0	29100	885		
4.9	28200	866		
4.8	27200	848		
4.7	26200	829		
4.6	25300	810		
4.5	24300	792		
4.4	23300	773		
4.3	22400	754		
4.2	21400	736		
4.1	20400	717		
4.0	19500	699		
STOP				

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
7.2	32600	1012		
7.1	31900	997		
7.0	31200	982		
6.9	30600	968		
6.8	29900	953		
6.7	29300	939		
6.6	28600	924		
6.5	28000	909		
6.4	27300	895		
6.3	26700	880		
6.2	26000	866		
6.1	25400	851		
6.0	24700	836		
5.9	24000	822		
5.8	23400	807		
5.7	22700	793		
5.6	22100	778		
5.5	21400	763		
5.4	20800	749		
STOP				

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
6.2	27400	948		
6.1	26800	932		
6.0	26300	916		
5.9	25800	900		
5.8	25300	884		
5.7	24800	868		
5.6	24300	852		
5.5	23800	836		
5.4	23300	820		
5.3	22800	804		
5.2	22300	788		
5.1	21800	772		
5.0	21300	757		
STOP				

* Compressed load.

Alliant Unique

Charge in grains			psi	fps
STOP				
4.6	35000	1000		
4.5	33900	980		
4.4	32800	960		
4.3	31700	940		
4.2	30600	921		
4.1	29500	901		
4.0	28400	881		
3.9	27300	861		
3.8	26200	842		
3.7	25100	822		
3.6	24000	802		
3.5	23000	783		
STOP				

* Compressed load.

Reducing Cartridge Over All Length increases pressure greatly. See page 103 for O.A.L. in our testing.

Use extreme caution when loading in the Yellow or Red zones.

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Hodgdon HS-6

Charge in grains			psi	fps
STOP				
5.7	32900	997		
5.6	32000	978		
5.5	31200	960		
5.4	30300	942		
5.3	29500	923		
5.2	28700	905		
5.1	27800	887		
5.0	27000	869		
4.9	26100	850		
4.8	25300	832		
4.7	24500	814		
4.6	23600	796		
4.5	22800	777		
4.4	21900	759		
4.3	21100	741		
4.2	20300	723		
STOP				

Hodgdon HS-7

Charge in grains			psi	fps
STOP				
6.1	35000	980		
6.0	34000	962		

5.9	33100	945		
5.8	32200	927		
5.7	31300	910		
5.6	30300	893		
5.5	29400	875		
5.4	28500	858		
5.3	27600	841		
5.2	26700	823		
5.1	25700	806		
5.0	24800	788		
4.9	23900	771		
4.8	23000	754		
4.7	22100	736		
4.6	21100	719		
4.5	20200	702		
4.4	19300	684		
4.3	18400	667		
STOP				

IMR SR7625

Charge in grains			psi	fps
STOP				
4.5	33100	967		
4.4	32100	947		
4.3	31100	928		
4.2	30200	908		
4.1	29200	889		
4.0	28200	870		
3.9	27300	850		
3.8	26300	831		
3.7	25300	811		
3.6	24400	792		
3.5	23400	773		
3.4	22400	753		
3.3	21500	734		
3.2	20500	714		
3.1	19500	695		
3.0	18600	676		
STOP				

Vihtavuori 3N37

Charge in grains			psi	fps
STOP				
5.3	35000	1007		
5.2	33900	985		
5.1	32900	964		
5.0	31900	943		
4.9	30900	922		
4.8	29900	901		
4.7	28900	880		
4.6	27900	858		
4.5	26900	837		
4.4	25900	816		
4.3	24900	795		
4.2	23900	774		
4.1	22900	753		
4.0	21900	731		
3.9	20900	710		
3.8	19900	689		
3.7	18900	668		
3.6	17900	647		
3.5	16900	626		
STOP				

Winchester 231

Charge in grains			psi	fps
STOP				
3.8	35000	916		
3.7	33700	892		
3.6	32500	869		
3.5	31300	845		
3.4	30100	822		
3.3	28900	798		
3.2	27600	775		
3.1	26400	751		
3.0	25200	728		
2.9	24000	705		
2.8	22800	681		
2.7	21500	658		
2.6	20300	634		
2.5	19100	611		
2.4	17900	587		
2.3	16700	564		
2.2	15500	541		
STOP				



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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Use extreme caution when loading in the Yellow or Red zones.

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Accurate Arms No. 2		
Charge in grains	psi	fps
STOP		
4.0	35000	944
3.9	33800	923
3.8	32700	902
3.7	31600	881
3.6	30500	860
3.5	29400	839
3.4	28200	818
3.3	27100	797
3.2	26000	776
3.1	24900	755
3.0	23800	734
2.9	22600	713
2.8	21500	692
2.7	20400	671
2.6	19300	650
2.5	18200	630
STOP		

start here

Accurate Arms No. 5		
Charge in grains	psi	fps
STOP		
5.6	35000	987
5.5	34000	968
5.4	33000	950
5.3	32000	932
5.2	31100	914
5.1	30100	895
5.0	29100	877
4.9	28100	859
4.8	27200	841
4.7	26200	822
4.6	25200	804
4.5	24200	786
4.4	23300	768
4.3	22300	749
4.2	21300	731
4.1	20300	713
4.0	19400	695
STOP		

start here

Accurate Arms No.7		
Charge in grains	psi	fps
STOP		
7.1	35000	1015
7.0	34200	999
6.9	33400	984
6.8	32600	969
6.7	31800	954
6.6	31000	939
6.5	30200	923
6.4	29400	908
6.3	28600	893
6.2	27800	878
6.1	27000	863
6.0	26200	847
5.9	25400	832
5.8	24600	817
5.7	23800	802
5.6	23000	787
5.5	22200	771
5.4	21400	756
5.3	20600	741
STOP		

start here

Alliant Blue Dot		
Charge in grains	psi	fps
STOP		
* 6.2	28700	981
6.1	28000	960
6.0	27300	940
5.9	26700	920
5.8	26000	900
5.7	25300	880
5.6	24700	860
5.5	24000	840
5.4	23300	820
5.3	22700	800
5.2	22000	780
5.1	21300	760
5.0	20700	740
STOP		

start here

* Compressed load.

Alliant Unique		
Charge in grains	psi	fps
STOP		
* 4.5	33100	977
4.4	32200	961
4.3	31300	945
4.2	30400	929
4.1	29500	913
4.0	28700	897
3.9	27800	881
3.8	26900	865
3.7	26000	849
3.6	25100	833
3.5	24300	817
STOP		

start here

* Compressed load.

Reducing Cartridge Over All Length increases pressure greatly. See page 103 for O.A.L. in our testing.



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Hodgdon HS-6		
Charge in grains	psi	fps
STOP		
5.7	35000	998
5.6	33900	979
5.5	32900	961
5.4	31900	943
5.3	30900	924
5.2	29900	906
5.1	28800	888
5.0	27800	869
4.9	26800	851
4.8	25800	833
4.7	24800	814
4.6	23700	796
4.5	22700	778
4.4	21700	759
4.3	20700	741
4.2	19700	723
STOP		

start here

Hodgdon HS-7		
Charge in grains	psi	fps
STOP		
6.2	35000	979
6.1	34100	963
6.0	33300	947
5.9	32400	931
5.8	31600	915
5.7	30700	899
5.6	29900	883
5.5	29000	868
5.4	28200	852
5.3	27300	836
5.2	26500	820
5.1	25600	804
5.0	24800	788
4.9	23900	772
4.8	23100	757
4.7	22200	741
4.6	21400	725
4.5	20500	709
4.4	19700	693
STOP		

start here

IMR SR7625		
Charge in grains	psi	fps
STOP		
4.6	35000	979
4.5	33900	959
4.4	32800	939
4.3	31700	919
4.2	30700	899
4.1	29600	879
4.0	28500	859
3.9	27500	839
3.8	26400	819
3.7	25300	799
3.6	24300	779
3.5	23200	759
3.4	22100	739
3.3	21100	719
3.2	20000	699
3.1	18900	679
3.0	17900	660
STOP		

start here

Vihtavuori 3N37		
Charge in grains	psi	fps
STOP		
5.2	35000	988
5.1	33900	966
5.0	32900	944
4.9	31900	922
4.8	30900	900
4.7	29800	878
4.6	28800	856
4.5	27800	834
4.4	26800	812
4.3	25700	790
4.2	24700	768
4.1	23700	746
4.0	22700	724
3.9	21600	702
3.8	20600	680
3.7	19600	658
3.6	18600	636
3.5	17600	615
STOP		

start here

Winchester 231		
Charge in grains	psi	fps
STOP		
3.8	35000	916
3.7	33700	890
3.6	32500	865
3.5	31300	840
3.4	30100	815
3.3	28900	790
3.2	27700	765
3.1	26500	740
3.0	25300	715
2.9	24000	690
2.8	22800	665
2.7	21600	640
2.6	20400	615
2.5	19200	590
2.4	18000	565
2.3	16800	540
2.2	15600	515
STOP		

start here

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Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
4.1	35000	955		
4.0	33900	933		
3.9	32800	911		
3.8	31700	890		
3.7	30600	868		
3.6	29500	846		
3.5	28400	825		
3.4	27300	803		
3.3	26200	782		
3.2	25100	760		
3.1	24000	738		
3.0	22900	717		
2.9	21800	695		
2.8	20700	673		
2.7	19600	652		
2.6	18500	630		
2.5	17500	609		
STOP				

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
5.6	32200	990		
5.5	31300	971		
5.4	30500	953		
5.3	29600	934		
5.2	28800	916		
5.1	27900	897		
5.0	27100	879		
4.9	26200	860		
4.8	25400	842		
4.7	24600	824		
4.6	23700	805		
4.5	22900	787		
4.4	22000	768		
4.3	21200	750		
4.2	20300	731		
4.1	19500	713		
4.0	18700	695		
STOP				

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
7.4	35000	1038		
7.3	34300	1023		
7.2	33600	1008		
7.1	32900	994		
7.0	32200	979		
6.9	31500	965		
6.8	30800	950		
6.7	30100	936		
6.6	29500	921		
6.5	28800	907		
6.4	28100	892		
6.3	27400	878		
6.2	26700	863		
6.1	26000	848		
6.0	25300	834		
5.9	24600	819		
5.8	24000	805		
5.7	23300	790		
5.6	22600	776		
STOP				

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
* 6.2	28000	973		
6.1	27400	957		
6.0	26900	942		
5.9	26300	927		
5.8	25800	912		
5.7	25200	897		
5.6	24700	882		
5.5	24100	867		
5.4	23600	852		
5.3	23000	837		
5.2	22500	822		
5.1	21900	807		
5.0	21400	792		
STOP				

* Compressed load.

Alliant Unique

Charge in grains			psi	fps
STOP				
* 4.6	32800	989		
4.5	31900	972		
4.4	31100	956		
4.3	30200	940		
4.2	29400	923		
4.1	28500	907		
4.0	27700	891		
3.9	26800	875		
3.8	26000	858		
3.7	25100	842		
3.6	24300	826		
3.5	23500	810		
STOP				

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Hodgdon HS-6

Charge in grains			psi			fps		
STOP								
5.8	35000	1013						
5.7	33900	994						
5.6	32900	975						
5.5	31900	957						
5.4	30900	938						
5.3	29900	919						
5.2	28800	901						
5.1	27800	882						
5.0	26800	864						
4.9	25800	845						
4.8	24800	826						
4.7	23700	808						
4.6	22700	789						
4.5	21700	770						
4.4	20700	752						
4.3	19700	733						
4.2	18700	715						
STOP								

Hodgdon HS-7

Charge in grains			psi			fps		
STOP								
6.4	35000	1003						
6.3	34100	986						
6.2	33300	970						
6.1	32500	953						
6.0	31600	937						
5.9	30800	920						
5.8	30000	904						
5.7	29200	888						
5.6	28300	871						
5.5	27500	855						
5.4	26700	838						
5.3	25900	822						
5.2	25000	806						
5.1	24200	789						
5.0	23400	773						
4.9	22500	756						
4.8	21700	740						
4.7	20900	724						
4.6	20100	707						
STOP								

IMR SR7625

Charge in grains			psi			fps		
STOP								
4.6	32900	970						
4.5	31900	950						
4.4	31000	930						
4.3	30000	910						
4.2	29100	890						
4.1	28100	870						
4.0	27200	850						
3.9	26200	830						
3.8	25300	810						
3.7	24300	790						
3.6	23400	770						
3.5	22400	750						
3.4	21500	730						
3.3	20500	710						
3.2	19600	690						
3.1	18600	670						
3.0	17700	650						
STOP								

Vihtavuori 3N37

Charge in grains			psi			fps		
STOP								
5.4	35000	1020						
5.3	34000	999						
5.2	33100	979						
5.1	32200	959						
5.0	31200	939						
4.9	30300	918						
4.8	29400	898						
4.7	28400	878						
4.6	27500	858						
4.5	26600	838						
4.4	25600	817						
4.3	24700	797						
4.2	23800	777						
4.1	22800	757						
4.0	21900	737						
3.9	21000	716						
3.8	20000	696						
3.7	19100	676						
3.6	18200	656						
STOP								

Winchester 231

Charge in grains			psi			fps		
STOP								
3.8	35000	914						
3.7	33700	889						
3.6	32500	864						
3.5	31200	839						
3.4	30000	814						
3.3	28700	789						
3.2	27500	765						
3.1	26200	740						
3.0	25000	715						
2.9	23800	690						
2.8	22500	665						
2.7	21300	641						
2.6	20000	616						
2.5	18800	591						
2.4	17500	566						
2.3	16300	541						
2.2	15100	517						
STOP								

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Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
4.0	35000	946		
3.9	33900	924		

3.8	32800	903		
3.7	31700	882		
3.6	30600	861		
3.5	29500	840		
3.4	28400	819		
3.3	27300	798		
3.2	26200	776		
3.1	25100	755		
3.0	24000	734		
2.9	22900	713		
2.8	21800	692		
2.7	20700	671		
2.6	19600	650		
2.5	18500	629		
STOP				

start here

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
5.4	35000	975		
5.3	33900	957		

5.2	32800	939		
5.1	31700	921		
5.0	30600	903		
4.9	29500	885		
4.8	28400	867		
4.7	27400	849		
4.6	26300	831		
4.5	25200	813		
4.4	24100	795		
4.3	23000	777		
4.2	21900	759		
4.1	20800	741		
4.0	19800	723		
STOP				

start here

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
7.2	35000	1018		
7.1	34200	1003		
7.0	33500	989		

6.9	32800	975		
6.8	32100	960		
6.7	31300	946		
6.6	30600	932		
6.5	29900	918		
6.4	29200	903		
6.3	28400	889		
6.2	27700	875		
6.1	27000	861		
6.0	26300	846		
5.9	25600	832		
5.8	24800	818		
5.7	24100	803		
5.6	23400	789		
5.5	22700	775		
5.4	21900	761		
STOP				

start here

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
6.2	29600	989		
6.1	29000	975		
6.0	28400	961		
5.9	27800	948		
5.8	27200	934		
5.7	26600	920		
5.6	26000	907		
5.5	25400	893		
5.4	24800	879		
5.3	24200	866		
5.2	23600	852		
5.1	23000	838		
5.0	22500	825		
STOP				

start here

* Compressed load.

Alliant Unique

Charge in grains			psi	fps
STOP				
4.5	35000	992		
4.4	33900	974		

4.3	32800	956		
4.2	31700	939		
4.1	30700	921		
4.0	29600	904		
3.9	28500	886		
3.8	27500	868		
3.7	26400	851		
3.6	25300	833		
3.5	24300	816		
STOP				

start here

* Compressed load.

Reducing Cartridge Over All Length increases pressure greatly. See page 103 for O.A.L. in our testing.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.



Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Hodgdon HS-6

Charge in grains			psi	fps
STOP				
5.4	33100	970		
5.3	32000	951		
5.2	30900	933		
5.1	29900	915		
5.0	28800	897		
4.9	27800	879		
4.8	26700	861		
4.7	25600	842		
4.6	24600	824		
4.5	23500	806		
4.4	22500	788		
4.3	21400	770		
4.2	20400	752		
STOP				

start here

Hodgdon HS-7

Charge in grains			psi	fps
STOP				
5.9	35000	957		
5.8	33900	939		
5.7	32900	922		
5.6	31900	904		
5.5	30900	887		
5.4	29900	870		
5.3	28900	852		
5.2	27900	835		
5.1	26900	818		
5.0	25800	800		
4.9	24800	783		
4.8	23800	766		
4.7	22800	748		
4.6	21800	731		
4.5	20800	714		
4.4	19800	696		
4.3	18800	679		
4.2	17800	662		
STOP				

start here

IMR SR7625

Charge in grains			psi	fps
STOP				
4.4	35000	954		
4.3	33800	934		
4.2	32600	915		
4.1	31400	895		
4.0	30200	876		
3.9	29000	856		
3.8	27800	837		
3.7	26700	817		
3.6	25500	798		
3.5	24300	778		
3.4	23100	759		
3.3	21900	739		
3.2	20700	720		
3.1	19500	700		
3.0	18400	681		
STOP				

start here

Vihtavuori 3N37

Charge in grains			psi	fps
STOP				
5.0	33100	969		
4.9	32000	947		
4.8	31000	926		
4.7	30000	905		
4.6	29000	884		
4.5	28000	863		
4.4	27000	842		
4.3	26000	821		
4.2	24900	799		
4.1	23900	778		
4.0	22900	757		
3.9	21900	736		
3.8	20900	715		
3.7	19900	694		
3.6	18900	673		
3.5	17900	652		
STOP				

start here

Winchester 231

Charge in grains			psi	fps
STOP				
3.6	35000	891		
3.5	33600	865		
3.4	32200	840		
3.3	30800	815		
3.2	29400	790		
3.1	28000	765		
3.0	26600	740		
2.9	25300	715		
2.8	23900	689		
2.7	22500	664		
2.6	21100	639		
2.5	19700	614		
2.4	18300	589		
2.3	16900	564		
2.2	15600	539		
STOP				

start here



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Reducing Cartridge Over All Length increases pressure greatly. See page 113 for O.A.L. in our testing.

WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Accurate Arms No. 2

Charge in grains psi fps

STOP		
3.8	35000	899
3.7	33700	876

3.6	32400	853
3.5	31100	830
3.4	29800	807
3.3	28600	785
3.2	27300	762
3.1	26000	739
3.0	24700	716
2.9	23500	694
2.8	22200	671
2.7	20900	648
2.6	19600	625
2.5	18400	603
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

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Accurate Arms No. 5

Charge in grains psi fps

STOP		
5.1	32800	916
5.0	31600	896
4.9	30500	877
4.8	29400	857
4.7	28200	838
4.6	27100	818
4.5	26000	799
4.4	24900	779
4.3	23700	760
4.2	22600	740
4.1	21500	721
4.0	20400	702
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
7.1	35000	999
7.0	34300	985
6.9	33600	971

6.8	32900	957
6.7	32200	943
6.6	31500	929
6.5	30800	915
6.4	30200	902
6.3	29500	888
6.2	28800	874
6.1	28100	860
6.0	27400	846
5.9	26700	832
5.8	26000	818
5.7	25400	805
5.6	24700	791
5.5	24000	777
5.4	23300	763
5.3	22600	749
STOP		

start here

Alliant Blue Dot

Charge in grains psi fps

STOP		
6.2	33000	980
6.1	32200	963
6.0	31400	947
5.9	30600	931
5.8	29800	915
5.7	29000	899
5.6	28300	883
5.5	27500	867
5.4	26700	851
5.3	25900	835
5.2	25100	819
5.1	24300	803
5.0	23600	787
STOP		

start here

*Compressed load.

Alliant Unique

Charge in grains psi fps

STOP		
4.2	35000	930
4.1	33700	911

4.0	32400	893
3.9	31100	875
3.8	29800	857
3.7	28500	839
3.6	27200	821
3.5	25900	803
STOP		

start here

Use extreme caution when loading in the Yellow or Red zones.

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Use extreme caution when loading in the Yellow or Red zones.

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Hodgdon HS-6

Charge in grains			psi	fps
STOP				
5.3	35000			943
5.2	33700			923
5.1	32500			903
5.0	31300			884
4.9	30100			864
4.8	28900			845
4.7	27600			825
4.6	26400			806
4.5	25200			786
4.4	24000			767
4.3	22800			747
4.2	21600			728
STOP				

Hodgdon HS-7

Charge in grains			psi	fps
STOP				
5.8	35000			931
5.7	33900			913
5.6	32900			895
5.5	31900			877
5.4	30900			859
5.3	29900			841
5.2	28900			823
5.1	27900			805
5.0	26900			788
4.9	25900			770
4.8	24900			752
4.7	23900			734
4.6	22900			716
4.5	21900			698
4.4	20900			680
4.3	19900			662
4.2	18900			645
STOP				

IMR SR7625

Charge in grains			psi	fps
STOP				
4.2	35000			912
4.1	33700			891
4.0	32500			870
3.9	31300			849
3.8	30100			828
3.7	28900			807
3.6	27700			786
3.5	26500			765
3.4	25300			744
3.3	24100			723
3.2	22900			702
3.1	21700			681
3.0	20500			660
STOP				

Vihtavuori 3N37

Charge in grains			psi	fps
STOP				
4.9	35000			942
4.8	33800			921
4.7	32700			900
4.6	31500			879
4.5	30400			859
4.4	29300			838
4.3	28100			817
4.2	27000			797
4.1	25900			776
4.0	24700			755
3.9	23600			734
3.8	22500			714
3.7	21300			693
3.6	20200			672
3.5	19100			652
STOP				

Winchester 231

Charge in grains			psi	fps
STOP				
3.4	32900			824
3.3	31500			796
3.2	30200			769
3.1	28800			742
3.0	27500			715
2.9	26100			687
2.8	24800			660
2.7	23500			633
2.6	22100			606
2.5	20800			578
2.4	19400			551
2.3	18100			524
2.2	16800			497
STOP				

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Accurate Arms No. 2

Charge in grains			psi	fps
STOP				
4.0	35000	926		
3.9	33900	903		
3.8	32800	881		
3.7	31700	859		
3.6	30600	837		
3.5	29500	815		
3.4	28400	793		
3.3	27300	771		
3.2	26200	748		
3.1	25100	726		
3.0	24000	704		
2.9	22900	682		
2.8	21800	660		
2.7	20700	638		
2.6	19600	616		
2.5	18500	594		
STOP				

Accurate Arms No. 5

Charge in grains			psi	fps
STOP				
5.6	35000	993		
5.5	34000	974		
5.4	33000	956		
5.3	32000	938		
5.2	31000	920		
5.1	30000	901		
5.0	29100	883		
4.9	28100	865		
4.8	27100	847		
4.7	26100	828		
4.6	25100	810		
4.5	24200	792		
4.4	23200	774		
4.3	22200	755		
4.2	21200	737		
4.1	20200	719		
4.0	19300	701		
STOP				

Accurate Arms No. 7

Charge in grains			psi	fps
STOP				
7.4	35000	1035		
7.3	34300	1020		
7.2	33600	1005		
7.1	32900	991		
7.0	32200	976		
6.9	31600	961		
6.8	30900	947		
6.7	30200	932		
6.6	29500	917		
6.5	28800	903		
6.4	28200	888		
6.3	27500	873		
6.2	26800	859		
6.1	26100	844		
6.0	25400	829		
5.9	24800	815		
5.8	24100	800		
5.7	23400	785		
5.6	22700	771		
STOP				

Alliant Blue Dot

Charge in grains			psi	fps
STOP				
6.2	30300	988		
6.1	29500	968		
6.0	28700	949		
5.9	27900	929		
5.8	27100	910		
5.7	26300	890		
5.6	25500	871		
5.5	24700	852		
5.4	23900	832		
5.3	23100	813		
5.2	22300	793		
5.1	21500	774		
5.0	20800	755		
STOP				

* Compressed load.

Alliant Unique

Charge in grains			psi	fps
STOP				
4.5	32400	958		
4.4	31600	942		
4.3	30800	926		
4.2	30000	910		
4.1	29200	894		
4.0	28400	879		
3.9	27600	863		
3.8	26800	847		
3.7	26000	831		
3.6	25200	815		
3.5	24400	800		
STOP				

* Compressed load.

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Hodgdon HS-6

Charge in grains			psi			fps		
STOP								
5.5	32200	966						
5.4	31200	947						
5.3	30300	928						
5.2	29400	909						
5.1	28400	891						
5.0	27500	872						
4.9	26600	853						
4.8	25600	835						
4.7	24700	816						
4.6	23800	797						
4.5	22800	779						
4.4	21900	760						
4.3	21000	741						
4.2	20100	723						
STOP								

start here

Hodgdon HS-7

Charge in grains			psi			fps		
STOP								
6.0	32500	952						
5.9	31600	934						
5.8	30800	916						
5.7	30000	898						
5.6	29200	881						
5.5	28400	863						
5.4	27600	845						
5.3	26700	827						
5.2	25900	810						
5.1	25100	792						
5.0	24300	774						
4.9	23500	757						
4.8	22700	739						
4.7	21800	721						
4.6	21000	703						
4.5	20200	686						
4.4	19400	668						
4.3	18600	650						
4.2	17800	633						
STOP								

start here

IMR SR7625

Charge in grains			psi			fps		
STOP								
4.5	35000	957						
4.4	33900	936						
4.3	32800	916						
4.2	31700	895						
4.1	30600	875						
4.0	29500	854						
3.9	28400	834						
3.8	27300	813						
3.7	26200	793						
3.6	25100	772						
3.5	24000	752						
3.4	22900	731						
3.3	21800	711						
3.2	20700	690						
3.1	19600	670						
3.0	18600	650						
STOP								

start here

Vihtavuori 3N37

Charge in grains			psi			fps		
STOP								
5.1	33100	958						
5.0	32100	936						
4.9	31200	914						
4.8	30200	893						
4.7	29300	871						
4.6	28300	850						
4.5	27400	828						
4.4	26400	807						
4.3	25500	785						
4.2	24600	763						
4.1	23600	742						
4.0	22700	720						
3.9	21700	699						
3.8	20800	677						
3.7	19800	656						
3.6	18900	634						
3.5	18000	613						
STOP								

start here

Winchester 231

Charge in grains			psi			fps		
STOP								
3.7	35000	892						
3.6	33700	867						
3.5	32400	843						
3.4	31100	818						
3.3	29800	794						
3.2	28500	769						
3.1	27200	745						
3.0	25900	720						
2.9	24600	696						
2.8	23300	671						
2.7	22000	647						
2.6	20700	622						
2.5	19400	598						
2.4	18100	573						
2.3	16800	549						
2.2	15500	525						
STOP								

start here

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Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.0	35000	963
3.9	33800	941
3.8	32700	920
3.7	31600	899
3.6	30500	878
3.5	29400	857
3.4	28200	836
3.3	27100	815
3.2	26000	793
3.1	24900	772
3.0	23800	751
2.9	22600	730
2.8	21500	709
2.7	20400	688
2.6	19300	667
2.5	18200	646
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
5.4	35000	989
5.3	33800	971
5.2	32700	953
5.1	31600	935
5.0	30500	917
4.9	29400	899
4.8	28300	881
4.7	27200	864
4.6	26000	846
4.5	24900	828
4.4	23800	810
4.3	22700	792
4.2	21600	774
4.1	20500	756
4.0	19400	739
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
7.3	35000	1038
7.2	34200	1024
7.1	33500	1010
7.0	32800	996
6.9	32100	982
6.8	31400	968
6.7	30700	954
6.6	30000	940
6.5	29300	926
6.4	28600	912
6.3	27900	898
6.2	27200	884
6.1	26400	870
6.0	25700	856
5.9	25000	842
5.8	24300	828
5.7	23600	814
5.6	22900	800
5.5	22200	786
STOP		

start here

Alliant Blue Dot

Charge in grains psi fps

STOP		
6.2	29200	1000
6.1	28500	984
6.0	27800	968
5.9	27200	952
5.8	26500	937
5.7	25800	921
5.6	25200	905
5.5	24500	889
5.4	23800	874
5.3	23200	858
5.2	22500	842
5.1	21800	826
5.0	21200	811
STOP		

start here

* Compressed load.

Alliant Unique

Charge in grains psi fps

STOP		
4.5	35000	1005
4.4	33900	988
4.3	32900	971
4.2	31800	954
4.1	30800	938
4.0	29700	921
3.9	28700	904
3.8	27600	888
3.7	26600	871
3.6	25500	854
3.5	24500	838
STOP		

start here

* Compressed load.

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Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Reducing Cartridge Over All Length increases pressure greatly. See page 113 for O.A.L. in our testing.

Hodgdon HS-6

Charge in grains			psi	fps
STOP				
5.6	35000	1008		
5.5	33800	989		
5.4	32700	970		
5.3	31500	951		
5.2	30400	932		
5.1	29200	913		
5.0	28100	894		
4.9	26900	875		
4.8	25800	856		
4.7	24600	837		
4.6	23500	818		
4.5	22300	799		
4.4	21200	780		
4.3	20000	761		
4.2	18900	742		
STOP				

Hodgdon HS-7

Charge in grains			psi	fps
STOP				
6.0	35000	976		
5.9	34000	959		
5.8	33100	943		
5.7	32100	927		
5.6	31200	911		
5.5	30200	894		
5.4	29300	878		
5.3	28300	862		
5.2	27400	846		
5.1	26400	830		
5.0	25500	813		
4.9	24500	797		
4.8	23600	781		
4.7	22600	765		
4.6	21700	748		
4.5	20700	732		
4.4	19800	716		
4.3	18800	700		
4.2	17900	684		
STOP				

IMR SR7625

Charge in grains			psi	fps
STOP				
4.5	35000	986		
4.4	33800	965		
4.3	32700	945		
4.2	31500	925		
4.1	30400	905		
4.0	29300	885		
3.9	28100	865		
3.8	27000	845		
3.7	25800	824		
3.6	24700	804		
3.5	23600	784		
3.4	22400	764		
3.3	21300	744		
3.2	20100	724		
3.1	19000	704		
3.0	17900	684		
STOP				

Vihtavuori 3N37

Charge in grains			psi	fps
STOP				
5.1	32600	991		
5.0	31600	969		
4.9	30700	948		
4.8	29700	927		
4.7	28800	906		
4.6	27800	885		
4.5	26900	864		
4.4	25900	843		
4.3	25000	822		
4.2	24100	800		
4.1	23100	779		
4.0	22200	758		
3.9	21200	737		
3.8	20300	716		
3.7	19300	695		
3.6	18400	674		
3.5	17500	653		
STOP				

Winchester 231

Charge in grains			psi	fps
STOP				
3.6	32400	899		
3.5	31100	874		
3.4	29800	849		
3.3	28600	824		
3.2	27300	800		
3.1	26000	775		
3.0	24800	750		
2.9	23500	726		
2.8	22200	701		
2.7	21000	676		
2.6	19700	651		
2.5	18400	627		
2.4	17200	602		
2.3	15900	577		
2.2	14700	553		
STOP				

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All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 2

Charge in grains			psi			fps		
STOP								
4.0	35000	955						
3.9	33800	933						
STOP								
3.8	32700	911						
3.7	31600	890						
3.6	30400	868						
3.5	29300	847						
3.4	28200	825						
3.3	27100	803						
3.2	25900	782						
3.1	24800	760						
3.0	23700	739						
2.9	22600	717						
2.8	21400	695						
2.7	20300	674						
2.6	19200	652						
2.5	18100	631						
STOP								

Accurate Arms No. 5

Charge in grains			psi			fps		
STOP								
5.4	35000	978						
5.3	33800	959						
STOP								
5.2	32700	940						
5.1	31600	921						
5.0	30500	903						
4.9	29300	884						
4.8	28200	865						
4.7	27100	847						
4.6	26000	828						
4.5	24900	809						
4.4	23700	790						
4.3	22600	772						
4.2	21500	753						
4.1	20400	734						
4.0	19300	716						
STOP								

Accurate Arms No. 7

Charge in grains			psi			fps		
STOP								
7.3	35000	1032						
7.2	34300	1017						
7.1	33600	1003						
STOP								
7.0	32900	989						
6.9	32200	975						
6.8	31500	961						
6.7	30800	946						
6.6	30100	932						
6.5	29400	918						
6.4	28700	904						
6.3	28000	890						
6.2	27300	876						
6.1	26600	861						
6.0	25900	847						
5.9	25200	833						
5.8	24500	819						
5.7	23800	805						
5.6	23100	791						
5.5	22400	776						
STOP								

Alliant Blue Dot

Charge in grains			psi			fps		
STOP								
6.2	29600	987						
6.1	28900	971						
6.0	28300	956						
5.9	27600	940						
5.8	27000	925						
5.7	26300	909						
5.6	25700	894						
5.5	25100	879						
5.4	24400	863						
5.3	23800	848						
5.2	23100	832						
5.1	22500	817						
5.0	21900	802						
STOP								

Alliant Unique

Charge in grains			psi			fps		
STOP								
4.4	33200	978						
4.3	32100	960						
4.2	31100	942						
4.1	30100	925						
4.0	29100	907						
3.9	28100	890						
3.8	27100	872						
3.7	26100	855						
3.6	25100	837						
3.5	24100	820						
STOP								

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Reducing Cartridge Over All Length increases pressure greatly. See page 103 for O.A.L. in our testing.



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Reducing Cartridge Over All Length increases pressure greatly. See page 113 for O.A.L. in our testing.

Hodgdon HS-6

Charge in grains			psi	fps
STOP				
5.5	32400	980		
5.4	31400	961		
5.3	30500	942		
5.2	29600	924		
5.1	28600	905		
5.0	27700	886		
4.9	26800	868		
4.8	25800	849		
4.7	24900	831		
4.6	24000	812		
4.5	23000	793		
4.4	22100	775		
4.3	21200	756		
4.2	20300	738		
STOP				

Hodgdon HS-7

Charge in grains			psi	fps
STOP				
6.0	35000	970		
5.9	34000	952		
STOP				
5.8	33000	935		
5.7	32100	917		
5.6	31100	900		
5.5	30100	882		
5.4	29200	865		
5.3	28200	847		
5.2	27200	830		
5.1	26300	813		
5.0	25300	795		
4.9	24300	778		
4.8	23400	760		
4.7	22400	743		
4.6	21400	725		
4.5	20500	708		
4.4	19500	690		
4.3	18500	673		
4.2	17600	656		
STOP				

IMR SR7625

Charge in grains			psi	fps
STOP				
4.6	35000	991		
4.5	33900	970		
STOP				
4.4	32900	950		
4.3	31800	930		
4.2	30800	910		
4.1	29800	889		
4.0	28700	869		
3.9	27700	849		
3.8	26700	829		
3.7	25600	808		
3.6	24600	788		
3.5	23500	768		
3.4	22500	748		
3.3	21500	727		
3.2	20400	707		
3.1	19400	687		
3.0	18400	667		
STOP				

Vihtavuori 3N37

Charge in grains			psi	fps
STOP				
5.1	32900	982		
5.0	31900	961		
4.9	31000	940		
4.8	30100	919		
4.7	29200	898		
4.6	28300	877		
4.5	27300	856		
4.4	26400	835		
4.3	25500	814		
4.2	24600	793		
4.1	23700	772		
4.0	22700	751		
3.9	21800	730		
3.8	20900	709		
3.7	20000	688		
3.6	19100	667		
3.5	18200	646		
STOP				

Winchester 231

Charge in grains			psi	fps
STOP				
3.7	35000	919		
3.6	33600	894		
3.5	32300	870		
3.4	31000	845		
3.3	29700	821		
3.2	28400	797		
3.1	27100	772		
3.0	25800	748		
2.9	24400	723		
2.8	23100	699		
2.7	21800	675		
2.6	20500	650		
2.5	19200	626		
2.4	17900	601		
2.3	16600	577		
2.2	15300	553		
STOP				

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up carefully. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.



Use extreme caution when loading in the Yellow or Red zones.

All pressures are listed in psi not C.U.P. See page 4.

Accurate Arms No. 2

Charge in grains psi fps

STOP		
4.0	35000	956
3.9	33800	935

3.8	32700	914
3.7	31500	893
3.6	30400	872
3.5	29200	851
3.4	28100	830
3.3	26900	809
3.2	25800	788
3.1	24600	767
3.0	23500	746
2.9	22300	725
2.8	21200	704
2.7	20000	683
2.6	18900	662
2.5	17800	642
STOP		

start here

Accurate Arms No. 5

Charge in grains psi fps

STOP		
5.6	35000	1010
5.5	34000	992
5.4	33000	974
5.3	32000	957
5.2	31000	939
5.1	30000	922
5.0	29000	904
4.9	28000	887
4.8	27100	869
4.7	26100	851
4.6	25100	834
4.5	24100	816
4.4	23100	799
4.3	22100	781
4.2	21100	764
4.1	20100	746
4.0	19200	729
STOP		

start here

Accurate Arms No. 7

Charge in grains psi fps

STOP		
7.4	35000	1039
7.3	34300	1025
7.2	33600	1012
7.1	32900	998
7.0	32300	985
6.9	31600	971
6.8	30900	958
6.7	30300	944
6.6	29600	931
6.5	28900	917
6.4	28200	904
6.3	27600	890
6.2	26900	877
6.1	26200	863
6.0	25600	850
5.9	24900	836
5.8	24200	823
5.7	23500	809
5.6	22900	796
STOP		

start here

Alliant Blue Dot

Charge in grains psi fps

STOP		
6.2	29700	995
6.1	28900	977
6.0	28200	960
5.9	27500	943
5.8	26800	925
5.7	26000	908
5.6	25300	891
5.5	24600	873
5.4	23900	856
5.3	23100	839
5.2	22400	821
5.1	21700	804
5.0	21000	787
STOP		

start here

*Compressed load.

Alliant Unique

Charge in grains psi fps

STOP		
4.4	32000	970
4.3	31000	954
4.2	30100	938
4.1	29200	922
4.0	28200	906
3.9	27300	890
3.8	26400	874
3.7	25400	858
3.6	24500	842
3.5	23600	827
STOP		

start here

*Compressed load.

Reducing Cartridge Over All Length increases pressure greatly. See page 103 for O.A.L. in our testing.

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Hodgdon HS-6			
Charge in grains	psi	fps	
STOP			
5.6	35000	1003	
5.5	33800	984	
5.4	32700	966	
5.3	31600	947	
5.2	30500	929	
5.1	29300	910	
5.0	28200	892	
4.9	27100	874	
4.8	26000	855	
4.7	24900	837	
4.6	23700	818	
4.5	22600	800	
4.4	21500	781	
4.3	20400	763	
4.2	19300	745	
STOP			

start here

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
6.1	35000	983	
6.0	34000	965	
5.9	33100	948	
5.8	32100	931	
5.7	31200	914	
5.6	30200	897	
5.5	29300	880	
5.4	28300	863	
5.3	27400	846	
5.2	26400	829	
5.1	25500	811	
5.0	24500	794	
4.9	23600	777	
4.8	22600	760	
4.7	21700	743	
4.6	20700	726	
4.5	19800	709	
4.4	18800	692	
4.3	17900	675	
STOP			

start here

IMR SR7625			
Charge in grains	psi	fps	
STOP			
4.6	35000	990	
4.5	33900	970	
4.4	32900	951	
4.3	31900	932	
4.2	30800	913	
4.1	29800	894	
4.0	28800	875	
3.9	27700	856	
3.8	26700	837	
3.7	25700	818	
3.6	24600	799	
3.5	23600	780	
3.4	22600	761	
3.3	21500	742	
3.2	20500	723	
3.1	19500	704	
3.0	18500	685	
STOP			

start here

Vihtavuori 3N37			
Charge in grains	psi	fps	
STOP			
5.3	35000	1014	
5.2	33900	993	
5.1	32900	973	
5.0	31900	952	
4.9	30900	932	
4.8	29900	912	
4.7	28900	891	
4.6	27900	871	
4.5	26900	850	
4.4	25900	830	
4.3	24900	810	
4.2	23900	789	
4.1	22900	769	
4.0	21900	748	
3.9	20900	728	
3.8	19900	708	
3.7	18900	687	
3.6	17900	667	
3.5	16900	647	
STOP			

start here

Winchester 231			
Charge in grains	psi	fps	
STOP			
3.7	35000	914	
3.6	33600	889	
3.5	32300	864	
3.4	31000	840	
3.3	29700	815	
3.2	28400	791	
3.1	27000	766	
3.0	25700	741	
2.9	24400	717	
2.8	23100	692	
2.7	21800	668	
2.6	20400	643	
2.5	19100	618	
2.4	17800	594	
2.3	16500	569	
2.2	15200	545	
STOP			

start here

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Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
147	Hornady	HP/XTP	XXX	A5
Primer	Case	Length	Lot number	Temperature
SP Win	469			
Range: 200	Best Group:	Average Group: 2.0	Velocity (fps): XXXX	
Gun: Springfield 1911 A1				
Notes: This bullet shoots best with a...				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Range: <input type="text"/>	Best Group: <input type="text"/>	Average Group: <input type="text"/>	Velocity (fps): <input type="text"/>	
Gun: <input type="text"/>				
Notes: <input type="text"/>				

Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
147	Kead	FP	0.40cc	Uniquex
Primer	Case	Overall Length	Lot number	Temperature
dny	once-fired			
Range: <input type="text"/>	Best Group: <input type="text"/>	Average Group: <input type="text"/>	Velocity (fps): <input type="text"/>	
Gun: <input type="text"/>				
Notes: <input type="text"/>				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
125	Kead	RN	0.46cc	Uniquex
Primer	Case	Overall Length	Lot number	Temperature
dny	once-fired			
Range: <input type="text"/>	Best Group: <input type="text"/>	Average Group: <input type="text"/>	Velocity (fps): <input type="text"/>	
Gun: <input type="text"/>				
Notes: <input type="text"/>				

WARNING: Always begin in the 'start here' area of the green zone and work your loads up slowly. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.

Read pages 2 - 11 before loading.
 Always watch for excessive pressure signs.

Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Best Group: <input style="width: 50px;" type="text"/>		Average Group: <input style="width: 50px;" type="text"/>		Velocity (fps): <input style="width: 50px;" type="text"/>
Gun: <input style="width: 100%;" type="text"/>				
Notes: <input style="width: 100%;" type="text"/>				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Best Group: <input style="width: 50px;" type="text"/>		Average Group: <input style="width: 50px;" type="text"/>		Velocity (fps): <input style="width: 50px;" type="text"/>
Gun: <input style="width: 100%;" type="text"/>				
Notes: <input style="width: 100%;" type="text"/>				

Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Best Group: <input style="width: 50px;" type="text"/>		Average Group: <input style="width: 50px;" type="text"/>		Velocity (fps): <input style="width: 50px;" type="text"/>
Gun: <input style="width: 100%;" type="text"/>				
Notes: <input style="width: 100%;" type="text"/>				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Best Group: <input style="width: 50px;" type="text"/>		Average Group: <input style="width: 50px;" type="text"/>		Velocity (fps): <input style="width: 50px;" type="text"/>
Gun: <input style="width: 100%;" type="text"/>				
Notes: <input style="width: 100%;" type="text"/>				

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Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Range: <input type="text"/>	Best Group: <input type="text"/>	Average Group: <input type="text"/>	Velocity (fps): <input type="text"/>	
Gun:				
Notes:				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Range: <input type="text"/>	Best Group: <input type="text"/>	Average Group: <input type="text"/>	Velocity (fps): <input type="text"/>	
Gun:				
Notes:				

Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Range: <input type="text"/>	Best Group: <input type="text"/>	Average Group: <input type="text"/>	Velocity (fps): <input type="text"/>	
Gun:				
Notes:				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Range: <input type="text"/>	Best Group: <input type="text"/>	Average Group: <input type="text"/>	Velocity (fps): <input type="text"/>	
Gun:				
Notes:				

WARNING: Always begin in the 'start here' area of the green zone and work your loads up slowly. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.

Read pages 2 - 11 before loading.
 Always watch for excessive pressure signs.

Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Best Group: <input type="text"/>		Average Group: <input type="text"/>		Velocity (fps): <input type="text"/>
Gun:				
Notes:				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Best Group: <input type="text"/>		Average Group: <input type="text"/>		Velocity (fps): <input type="text"/>
Gun:				
Notes:				

Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Best Group: <input type="text"/>		Average Group: <input type="text"/>		Velocity (fps): <input type="text"/>
Gun:				
Notes:				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Best Group: <input type="text"/>		Average Group: <input type="text"/>		Velocity (fps): <input type="text"/>
Gun:				
Notes:				

WARNING: Always begin in the 'start here' area of the green zone and work your loads up slowly. Loads listed in yellow zone or red zone should not be used without working loads up slowly from the loads listed in the green zone. Watch for excessive pressure signs, see pages 9 - 10.

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Notes

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to Europe in 1882, where he went to work for the Hungarian Arms Factory in Budapest. Borchardt was impressed by a demonstration of Hiram Maxim's machine gun in 1888. Versions of the Maxim (including the British Vickers, the German MG08, the Russian Model 1905 (SPM), etc.) eventually became the standard machine guns for many countries through both World Wars. Many of these guns saw action in the Korean War and beyond. The Austrian government, for whom Borchardt worked at the time, was not as impressed, but Borchardt knew a good idea when he saw one. Maxim's gun worked on a toggle-link design that Borchardt adapted for use in his pistol. The result of this inspiration, the Borchardt C/93, was eventually produced by Ludwig Lowe & Co., and put on sale in 1894.

The modest success of Borchardt's gun provided the motivation for Gebrüder Mauser & Co. to jump into the pistol marketplace, an area in which they had previously experienced little success (their zigzag revolver of the 1870s was a conspicuous failure). The Mauser Company was given permission to use the 7.65 Borchardt, which they modified slightly into the 7.63x25mm or .30 Mauser, a cartridge that was dimensionally almost identical to Borchardt's round, but was loaded for higher velocities. Their first prototype, the Mauser C/96 or "Broomhandle," was introduced in March of 1895. A commercial success, the C/96 proved a hard sell to the military. Only a few powers, notably Turkey and Russia, were impressed enough to adopt it as a standard sidearm (the Russians, after the revolution, continued to use it as the 7.62x25 Tokarev, a round that is virtually identical to the 7.63x25 Mauser, and it became the standard of the Communist Bloc). Although the C/96 was used as a substitute standard by the armies of many countries, no major power adopted it as first line issue for its armed forces. They wanted a heavier, larger-diameter bullet moving at comparable velocities. In this regard, the development of the 9mm as a military pistol round parallels similar concerns in the United States over the suitability of the .38 Long Colt, which was discarded in favor of the .45 ACP in 1911.

GEORG LUGER AND THE GERMAN MILITARY

The challenge of designing an automatic pistol for the military fell to Georg Luger, who had previously assisted Borchardt in designing the C/93. Although Luger benefited from Borchardt's input for his design, his experience from seven years in the Austro-Hungarian Army gave him a better insight into what made a practical military firearm. Luger redesigned the C/93's toggle return springs and swept back the grip to give the shooter a more comfortable hold on the gun than what Borchardt's straight up-and-down grip allowed. Luger and Borchardt presented a version of their redesigned pistol to the Swiss army in 1898 chambered in Luger's first redesigned cartridge, the .30 Luger or 7.65x21. The Swiss felt that the load for the .30 Luger was too powerful and that the bullet was too small. Luger responded by removing the neck from the .30 Luger case, making it a slightly shorter "straight-walled" cartridge. Luger shortened the case to accommodate the inclined magazine imposed by the angle of the butt of his pistol. He left the rear of the case alone, though, and the round retains the taper of its parent cartridge. This became the 9mm Luger cartridge we know today. These modifications allowed Luger to re-fit existing pistols by simply replacing the barrels, as the face of the breechblock and the extractor were common to both cartridges. The result of Luger's modification was the Pistole .08, or German Luger. Luger's new round, called 9mm Parabellum by its inventor, but also known as 9x19mm and more commonly as 9mm Luger, was less powerful than its predecessor, but it resulted in more control and accuracy for his gun. The larger bullet and higher pressure from the smaller case more than compensated in military applications.

The 9mm Luger debuted in 1902. The German Navy adopted the 9mm Luger in 1904 and the German Army followed suit in 1908. The bullet itself has undergone a number of changes since its introduction, although the case itself has remained unchanged. The original German service cartridge, officially used until 1916 and as late as 1917, featured a 115 grain truncated cone bullet that was replaced with a 115 grain round-nosed bullet after 1916. The utility of the round for the military became immediately apparent during World War I. Many of its early critics were still

fighting the last war, so to speak, and viewed the rifle as the ideal weapon for infantry — this view envisioned combat at distances of 200-300 yards. The realities of trench warfare were at odds with this view—most combat took place closer than 200-300 feet, not yards—and the 9mm Luger was well suited to the task.

The 9mm's success as a military cartridge was enhanced by its use in submachine guns. Large quantities of ammunition loaded specifically for use in submachine guns were manufactured. These used a slower burning powder with a heavier bullet, typically 124 to 130 grains—loads that produced much higher pressures only for use in submachine guns. The first submachine gun was chambered in 9mm Glisenti, a less powerful round similar to the 9mm Luger that was mainly used in Italy. This was the Italian Villar Perosa, also known as the Fiat Model 15 after the Fiat Factory where it was originally produced. Introduced in 1915, this ungainly weapon proved too under-powered for its original use in aircraft and too cumbersome for use by infantry, for whom the 1200 round per minute cycle rate of the weapon was simply too high. The Germans were among the first to experiment with submachine guns and early attempts at producing them included the mounting of shoulder stocks and extended barrels to semi-automatic P.08 Lugers that sported extended 32-round snail magazines. The Germans and Austrians captured a number of the Villar Perosa submachine guns in Northern Italy at the battle of Caporetto in 1917 and immediately recognized the possibilities of the submachine gun. Study and redesign of the Italian weapon resulted in the first significant submachine gun chambered in 9mm Luger: the German MP18I, designed by Hugo Schmeisser and introduced in 1918. The MP38, produced from 1938 to 1940, and the MP40, produced from 1940 to 1944, followed it into service and their design is also credited to Schmeisser, although they were actually designed by Heinrich Vollmer and Berthold Geipel of Erma (Erfurter Maschinenfabrik), the company that manufactured them. Although less expensive than the MP18I, the MP38 was still costly and it was unsafe if mishandled. The MP40 addressed both of these deficiencies. Its stamped parts were cheaper to produce than the parts for the MP38. It was also modified with a slot to lock the bolt in place to prevent the

weapon from firing accidentally. The MP38 and MP40 were the standard submachine guns of the German Army during WWII.

DEVELOPMENT THROUGH WORLD WAR II

Between the World Wars, a wide variety of guns chambered in the 9mm Luger and 9mm variants were designed and produced. The most significant of these were the Browning Model 1935, commonly known as the Browning High Power, and the Walther P.38.

Shortly after the end of WW I, Fabrique Nationale of Herstal, Belgium approached John Moses Browning with the idea of designing a new pistol for the French Ministry of War to be chambered in 9mm. Browning created two guns: one was a blowback pistol that was never produced, the other would be recognizable today as a High Power. Browning received his first patents for this new gun in February of 1927, three months after his death. After testing the prototypes, Browning's son, Val, attempted to interest Colt in the gun, but there was little interest in a 9mm pistol in the United States and the gun ultimately found its way back to Fabrique Nationale. FN then embarked on a decade of revisions in response to the needs of the French Military. These revisions were mostly the work of FN's chief designer, Dieudonne Saive, whose alterations of Browning's original designs resulted a gun that was greatly changed from the gun that left the Browning shop in Ogden, Utah. The end product of this evolution was the FN Browning Model 1935 or Grand Puissance ("High Power" in French). The High Power was introduced in two forms: one with fixed sights and one with an adjustable rear sight and slotted grip for the attachment of a wooden buttstock. The High Power was the last pistol John Browning designed.

Walther's P.38 was introduced in 1938. A descendent of the popular Walther PP and PPK, it was designed to replace the P.08 and represents the first military double-action 9mm pistol. The initial military demand for the P.38 was so great that Walther alone was not able to keep up and it was soon manufactured by Mauser, as well. The P.38 was adopted as the official sidearm of the German Army in 1940, but the P.08 Luger hardly withered away: it was produced in quantity for the military until 1943 and

it saw much action during the war. The P.08 Luger is still popular in reproductions, Walther only recently replaced the P.38 with the P-5, and the High Power is still in production today.

The battle of Dunkirk in Northern France early in World War II proved to be a decisive event in the history of the 9mm Luger when Great Britain lost a huge amount of equipment and ammunition to the advancing German Blitzkrieg. The need to manufacture armaments to stave off an imminent German invasion, combined with the massive amount of 9mm ammo they had captured from the Italians in Eritrea, led the British to adopt the Lanchester and Sten submachine guns in 1941, both chambered in 9mm Luger. The Lanchester was made the old-fashioned way, with machined parts, while the Sten was made of mostly stamped parts at a minimal cost (estimated as low as \$4.00 a unit). The Sten was particularly successful. Economically designed with a bare minimum of moving parts and intended for use by paratroopers and commandos, the Sten was an ugly, but effective, weapon. In fact, the Sten was resoundingly mocked by opposing troops until it was demonstrated to be as effective as more complicated German submachine guns. The Birmingham Small Arms Company (BSA) alone made nearly half a million Stens for use not only by the British military, but for resistance groups on the continent as well. Stens were also made by the Royal Ordnance Factory in Great Britain, and were made by the millions in Canada. Australia produced a more complex version known as the "Austen." The Sten was paid a compliment by the same German Arms makers who mocked its ugliness when Germany began producing Sten knock-offs like the MP3008 late in the war. As the war progressed, Great Britain eventually adopted the Browning High Power, as well, since many of the arms designers from Fabrique Nationale, including Dieudonne Saive, escaped to England before the Germans overran the continent.

After the war, NATO adopted the 9mm Luger as its cartridge of choice as a matter of expedience—most of its member nations were already using it anyway.

THE 9MM IN AMERICA

The 9mm Luger was first loaded commercially in the United States in 1908, when Winchester submitted the round to the Sporting Arms and Ammunition Institute (SAAMI). Remington began loading it under the UMC headstamp four years later (they changed the headstamp to Remington in 1960). Federal did not offer a 9mm round until 1972, but they didn't offer handgun ammunition in general until the sixties. Despite its availability, it didn't catch on until after World War II with an influx of guns collected as souvenirs by GIs returning home from the European Theater. Even with the ready availability of military surplus ammunition, the demand for commercial ammunition in the United States grew dramatically. The popularity of the cartridge also gave rise to demand for an American-made 9mm. Colt responded to this new demand in 1951 by introducing the Colt Commander, a shorter and lighter version of their M1911. Other manufacturers soon followed suit. Smith & Wesson introduced their Model 39 three years later. Beginning with the Smith & Wesson M59 in 1973, 9mm pistols that combined the double action of the P.38 with the high capacity magazines of the High Power became a major force in the marketplace. The recent advent of the so-called "Wonder Nines" has only fueled the growing popularity of the cartridge. These guns have continued to evolve with the development of all varieties of bells and whistles, from the now standard double-stack magazine/double action combination to ambidextrous safeties, synthetic frames, shaped trigger guards, stainless steel construction, etc. In addition to these technical advancements, the 9mm has been popularized in movies; the *Lethal Weapon* and *Die Hard* movies have done for 9mm what *Dirty Harry* did for the .44 Magnum twenty-five years ago. These developments have made the 9mm Luger the most widely loaded military pistol round in the free world.

THE US MILITARY AND THE 9MM

Although 9mm Luger has been the official NATO cartridge for decades now, one member country was a longtime holdout: The United States. The traditional sidearm for American forces throughout most of

this century has been the .45 caliber 1911A1, but during this long holdout, it became apparent to the Department of Defense that it needed to bring its sidearm into line with the ammunition requirements of its NATO allies. They toyed with replacing the venerable 1911 with a 9mm sidearm as early as the 1950s (early American 9mm pistols were designed for this purpose). After many false starts over three decades, they eventually adopted the Beretta 92F. This gun was the descendant of a line of pistols originated by Pietro Beretta and his designer, Tullio Marengoni, and produced for the Italian military. The first of these guns produced in 9mm was the Beretta Model 951. This sidearm was adopted by the militaries of Italy, Egypt, and Israel almost immediately upon its introduction in 1956 (indeed, Egyptian and Israeli forces traded a great deal of fire with the same guns during their hostilities in this period). Pietro Beretta's son, Carlo, returned to this pistol with an eye toward modernization in 1975, when the Model 92 was introduced. It replaced the steel frame of the 951 with aluminum alloy and it featured the Beretta open-top slide and double action trigger.

At the direction of the Department of Defense, the United States Air Force began testing 9mm sidearms in 1979 with an eye toward adopting the 9mm Luger for all United States Armed Forces. Candidates included the Beretta 92S; Colt SSP; Smith & Wesson 459; Fabrique Nationale DA, FA, and High Power; Star M28; and the H & K P95 and VP70. During the course of the testing, Beretta modified the 92S into the 92SB, revising the safety, and this gun was declared the winner by the Air Force. The US Army, however, took issue with the test conditions and convinced the Department of Defense to void the Air Force's results. They ordered the Army to start again from scratch. The Army rigorously tested their candidates for reliability, accuracy, interchangeability, and durability. They disassembled weapons and reassembled them from the pieces, submerged them in mud and salt water to test for corrosion, dropped them onto hard surfaces, and put them through a variety of other grueling tests. In 1982, the Army declared that all of their candidates had failed. When tests resumed in 1984, Beretta submitted their model 92F, which was eventually declared the winner, and while it doesn't have the punch of the M1911,

it carries twice the ammunition. The 92F was designated the M9 by the military and became the first official sidearm common to all branches of the United States Armed Forces on January 15, 1985. It has since seen action in Panama, the Gulf War, and Bosnia. There are approximately 400,000 M9s in current American military service.

Acceptance by the United States military has all but assured the continued success of the 9mm Luger in the marketplace. As the sidearm of choice for the world's only remaining superpower, the 9mm is guaranteed to be manufactured and used well into the next century. As we approach the 9mm's 100th birthday, this modest little cartridge is well positioned to maintain its position as the world's dominant pistol cartridge.

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9mm Luger

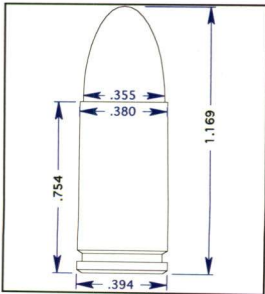
The 9mm Luger is arguably the most popular pistol cartridge in the world. It is the chosen pistol cartridge for the North Atlantic Treaty Organization (NATO). It is used by law enforcement the world over and is an enormously popular commercial round. At first glance, the 9mm Luger seems an unlikely success. Critics of the cartridge have long contended that it is under-powered. It is unpopular among many IPSC competition shooters because the 9mm Luger's velocity and bullet weight restrict it to minor caliber. Until relatively recently, the slight taper of its case made finding good carbide dies for reloading the 9mm hard to come by (in fact, at the outset of the round's commercial career, it was not reloadable at all since virtually all 9mm brass was Berdan-primed military surplus, some made of steel). Many of the law enforcement agencies who replaced their .38 Specials and .357 Magnums with the 9mm over the last 20 years have begun to abandon it in favor of more powerful cartridges like the .40 S&W or the .357 Sig, etc. The 9mm's checkered career as a commercial cartridge may have taken its biggest hit in 1994 when the manufacture and import of magazines with a capacity greater than 10 rounds was banned in the United States. Many 9mm Luger magazines hold 15 rounds or more without extending beyond the butt of the grip, so the ban on high capacity magazines knocks the legs out from one of the cartridge's key selling points. In spite of all this, the complaints of its critics are swimming upstream against a huge swell of support. There are valid reasons why the 9mm Luger is so popular.

While the 9mm Luger does not excel in any one particular area, it is very good in many areas—it is the jack of all trades of pistol rounds. It is physically lighter than more powerful cartridges,

which makes it easier to carry. Its small size means an officer or a soldier can carry more ammunition in the same amount of space. Even the ban on high capacity magazines may prove to be a blessing: it has enabled many fans of the 9mm to rediscover the suitability of scaled-down 9mm pistols as concealment weapons.

9mm Luger is actually much more powerful than close relatives like the .380 Auto. Just how does it compare with other cartridges? The following chart gives some idea:

Cartridge	Muzzle Velocity(fps)	Muzzle Energy (ft.lbs)
.380 ACP 90 Gr. JHP	1000	200
9mm Luger 115 Gr. JHP	1155	341
9mm Luger 124 Gr. JHP	1110	339
9mm Luger 147 Gr. JHP	975	310
.38 Special 158 Gr. JHP	800	225
.357 Magnum 158 Gr. JHP	1250	548
40 S&W 180 Gr. JHP	950	361
.44 Special 180 Gr. JHP	1000	400
.44 Magnum 240 Gr. JHP	1350	971
.45 ACP 200 Gr. JHP	900	444



SAAMI Maximum Dimensions
Actual size

The development of the 9mm Luger cartridge can be traced to its predecessor, the 7.65mm Borchardt, and Hugo Borchardt's development of the C/93 Borchardt, a self-loading pistol chambered for that cartridge. Borchardt was born in Germany, but emigrated to the United States when he was sixteen. He became an American citizen in 1875. Borchardt designed a number of revolvers for Winchester that were never produced. This so frustrated him that he returned



(continued on page 144)