

The most
comprehensive loading
data available for
.44 Remington Magnum
containing:

41 different
jacketed, cast and
swaged bullets
from

BARNES
BULLETS

Hornady
Revolving Tools

Nosler
BULLETS

Remington

SIERRA

SPEER

WINCHESTER

21 different
propellants from



Accurate Arms

ALLIANT POWDER

HODGDON

IMR



VIHTAVUORI OY

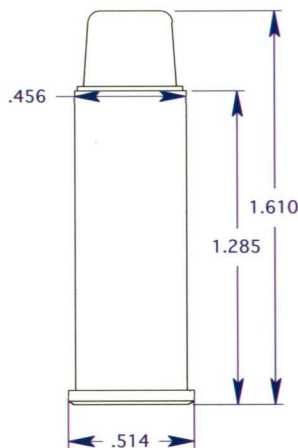
WINCHESTER

.44 Remington Magnum

Volume One - First Printing

LoadMAP™

(Maximum Average Pressure)



SAAMI Maximum Dimensions
Not actual size



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

USA
Midway

Sierra JHC
180 grain

**Hodgdon
Titegroup**

Charge
in
grains psi fps

STOP		
11.3	36000	1578
11.2	35500	1569
11.1	35000	1560
11.0	34500	1552
10.9	34000	1543
10.8	33600	1535
10.7	33100	1526
10.6	32600	1517
10.5	32100	1509
10.4	31600	1500
10.3	31200	1492
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 cartridge 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 cannot 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 all major bullet companies 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.

IMPORTANT: 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 20 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 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



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

start here

Sierra JHC 180 grain		
Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
11.3	36000	1578
11.2	35500	1569
11.1	35000	1560
11.0	34500	1552
10.9	34000	1543
10.8	33600	1535
10.7	33100	1526
10.6	32600	1517
10.5	32100	1509
10.4	31600	1500
10.3	31200	1492
STOP		
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, e.g. 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 e.g. 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 more consistent ignition and 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 or thin cup will show signs of excessive pressure at lower pressures 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 moisture level of the propellant will change when exposed to the air during loading. 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**



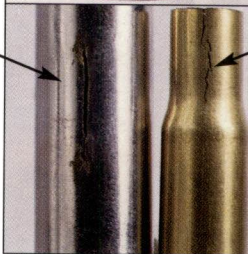
8. Incipient Cartridge Case Head Separation - A faint line will appear on the cartridge case body just above the web area, approximately 1/4" above the extractor groove. * See footnotes: **a,b,c,d,e**



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
www.amfire.com/gunsites/accurate/accuratehome.html

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
www.atk.com

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

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

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

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

Bullet Companies

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

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

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

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

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
www.remington.com

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

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

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

Bullet Terminology

<u>Abbreviation</u>	<u>Description</u>	<u>Abbreviation</u>	<u>Description</u>	<u>Abbreviation</u>	<u>Description</u>
Barnes		Sierra		Common cont.	
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®				

**.44 Remington
Magnum**

.429" Diameter

180 grain

Sectional

Density .139



	Hornady HP/XTP	Remington JHP	Sierra JHC
Ballistic Coefficient	.138	N/A	.127
Ctg. Overall Length	1.600	1.555	1.580

Reducing Cartridge Over All Length increases pressure greatly.

BULLETPAGE

Hornady HP/XTPJacketed14-15

Remington JHPPlated16-17

Sierra JHCJacketed18-19

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"


Maximum Average Pressure (MAP) 36,000 psi

All testing was done using a solid barrel.

Ammunition fired from a revolver will show a considerable decrease in velocity.




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 5		
Charge in grains	psi	fps
STOP		
16.9	36000	1718
16.7	35200	1698
16.5	34400	1679
16.3	33700	1660
16.1	32900	1641
15.9	32100	1621
15.7	31400	1602
15.5	30600	1583
15.3	29800	1564
15.1	29100	1544
14.9	28300	1525
14.7	27500	1506
14.5	26800	1487
STOP		

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.


Alliant Blue Dot		
Charge in grains	psi	fps
STOP		
20.8	36000	1820
20.5	35400	1797
20.0	34500	1760
19.5	33600	1723
19.0	32700	1685
18.5	31700	1648
18.0	30800	1611
17.5	29900	1573
17.0	29000	1536
16.5	28100	1499
16.0	27200	1462
15.5	26200	1424
15.0	25300	1387
14.5	24400	1350
14.0	23500	1312
13.5	22600	1275
13.0	21700	1238
12.5	20800	1201
STOP		

Alliant Unique		
Charge in grains	psi	fps
STOP		
13.8	36000	1624
13.6	35200	1605
13.4	34500	1587
13.2	33700	1569
13.0	33000	1550
12.8	32300	1532
12.6	31500	1514
12.4	30800	1496
12.2	30100	1477
12.0	29300	1459
11.8	28600	1441
11.6	27900	1422
11.4	27100	1404
11.2	26400	1386
11.0	25700	1368
STOP		

Hodgdon 110		
Charge in grains	psi	fps
STOP		
32.0	36000	1978
31.6	35200	1949
31.2	34400	1920
30.8	33700	1892
30.4	32900	1863
30.0	32200	1835
29.6	31400	1806
29.2	30700	1778
28.8	29900	1749
28.4	29200	1721
28.0	28400	1692
27.6	27600	1663
27.2	26900	1635
26.8	26100	1606
26.4	25400	1578
26.0	24600	1549
25.6	23900	1521
25.2	23100	1492
24.8	22400	1464
STOP		

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
11.6	36000	1590
11.5	35500	1581
11.4	35000	1572
11.3	34500	1563
11.2	34000	1554
11.1	33500	1545
11.0	33000	1536
10.9	32500	1527
10.8	32000	1518
10.7	31500	1509
10.6	31000	1500
10.5	30500	1491
10.4	30000	1482
10.3	29500	1474
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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or Red
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pressures
are listed in
psi not
C.U.P. See
page 4.

IMR 4227			
	Charge in grains	psi	fps
	STOP		
★	30.7	36000	1787
	30.4	35400	1768
	30.1	34800	1750
	29.8	34200	1732
	29.5	33600	1714
	29.2	33000	1696
	28.9	32400	1678
	28.6	31900	1660
	28.3	31300	1642
	28.0	30700	1624
	27.7	30100	1606
	27.4	29500	1588
	27.1	28900	1570
	26.8	28400	1552
	26.5	27800	1534
start here	26.2	27200	1516
	25.9	26600	1498
	25.6	26000	1480
	STOP		
★ Compressed load.			

* Compressed load.

Winchester 231			
Charge in grains	psi	fps	
STOP			
12.6	36000	1590	
12.5	35500	1580	
12.4	35000	1571	
12.3	34600	1561	
12.2	34100	1552	
12.1	33600	1543	
12.0	33200	1533	
11.9	32700	1524	
11.8	32300	1515	
11.7	31800	1505	
11.6	31300	1496	
11.5	30900	1486	
11.4	30400	1477	
11.3	29900	1468	
11.2	29500	1458	
11.1	29000	1449	
11.0	28600	1440	
STOP			

start here

Winchester 296			
Charge in grains	psi	fps	
STOP			
30.5	31900	1884	
30.2	31300	1863	
29.9	30800	1843	
29.6	30300	1822	
29.3	29800	1802	
29.0	29300	1781	
28.7	28700	1761	
28.4	28200	1740	
28.1	27700	1720	
27.8	27200	1699	
27.5	26700	1679	
27.2	26100	1658	
26.9	25600	1638	
26.6	25100	1617	
26.3	24600	1597	
26.0	24100	1577	
STOP			

* Compressed load.



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psi not
C.U.P. See
page 4.

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.

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Remington 180 gr JHP

.44 Remington Magnum

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



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

Accurate Arms 5			
Charge in grains	psi	fps	
STOP			
16.6	36000	1719	
16.5	35600	1710	
16.3	34900	1692	
16.1	34300	1675	
15.9	33600	1658	
15.7	32900	1640	
15.5	32200	1623	
15.3	31600	1605	
15.1	30900	1588	
14.9	30200	1570	
14.7	29500	1553	
14.5	28900	1536	
STOP			

start here

Alliant Blue Dot			
Charge in grains	psi	fps	
STOP			
20.7	36000	1825	
20.5	35600	1810	
20.0	34700	1773	
19.5	33800	1736	
19.0	32900	1699	
18.5	32000	1663	
18.0	31000	1626	
17.5	30100	1589	
17.0	29200	1552	
16.5	28300	1516	
16.0	27400	1479	
15.5	26500	1442	
15.0	25600	1405	
14.5	24700	1369	
14.0	23800	1332	
13.5	22900	1295	
13.0	22000	1258	
12.5	21100	1222	
STOP			

start here

Alliant Unique			
Charge in grains	psi	fps	
STOP			
13.6	36000	1624	
13.4	35200	1606	
13.2	34400	1588	
13.0	33700	1570	
12.8	32900	1552	
12.6	32100	1535	
12.4	31400	1517	
12.2	30600	1499	
12.0	29900	1481	
11.8	29100	1464	
11.6	28300	1446	
11.4	27600	1428	
11.2	26800	1410	
11.0	26100	1393	
STOP			

start here

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
31.8	36000	1972	
31.6	35600	1957	
31.2	34800	1929	
30.8	34100	1901	
30.4	33300	1873	
30.0	32600	1844	
29.6	31900	1816	
29.2	31100	1788	
28.8	30400	1760	
28.4	29600	1731	
28.0	28900	1703	
27.6	28100	1675	
27.2	27400	1647	
26.8	26700	1618	
26.4	25900	1590	
26.0	25200	1562	
25.6	24400	1534	
25.2	23700	1505	
24.8	22900	1477	
STOP			

start here

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
11.2	36000	1587	
11.1	35500	1578	
11.0	35000	1569	
10.9	34500	1560	
10.8	34000	1551	
10.7	33500	1542	
10.6	33000	1533	
10.5	32500	1524	
10.4	32000	1515	
10.3	31500	1506	
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 cover page for this grain weight for O.A.L.


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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 4227		
Charge in grains	psi	fps
STOP		
30.0	36000	1776
29.8	35600	1764
29.5	35000	1748
29.2	34500	1731
28.9	33900	1715
28.6	33300	1698
28.3	32800	1682
28.0	32200	1665
27.7	31700	1649
27.4	31100	1632
27.1	30600	1615
26.8	30000	1599
26.5	29400	1582
26.2	28900	1566
25.9	28300	1549
25.6	27800	1533
25.3	27200	1516
25.0	26700	1500
STOP		

*Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
12.1	36000	1577
12.0	35400	1567
11.9	34900	1558
11.8	34400	1548
11.7	33800	1539
11.6	33300	1530
11.5	32800	1520
11.4	32300	1511
11.3	31700	1502
11.2	31200	1492
11.1	30700	1483
11.0	30200	1474
STOP		


start here

Winchester 296		
Charge in grains	psi	fps
STOP		
30.5	36000	1942
30.2	35300	1921
29.9	34600	1901
29.6	33900	1881
29.3	33200	1861
29.0	32500	1841
28.7	31800	1821
28.4	31100	1801
28.1	30500	1780
27.8	29800	1760
27.5	29100	1740
27.2	28400	1720
26.9	27700	1700
26.6	27000	1680
26.3	26300	1660
26.0	25700	1640
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.

Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.

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psi not
C.U.P. See
page 4.

Accurate Arms 5		
Charge in grains	psi	fps
STOP		
16.5	36000	1711
16.4	35600	1702
16.3	35200	1693
16.2	34900	1684
16.1	34500	1675
16.0	34200	1666
15.9	33800	1657
15.8	33400	1648
15.7	33100	1639
15.6	32700	1630
15.5	32400	1621
15.4	32000	1612
15.3	31600	1603
15.2	31300	1594
15.1	30900	1585
15.0	30600	1576
14.9	30200	1567
14.8	29800	1558
14.7	29500	1549
STOP		

start here

Alliant Blue Dot		
Charge in grains	psi	fps
STOP		
20.8	36000	1833
20.5	35400	1810
20.0	34500	1773
19.5	33600	1736
19.0	32700	1700
18.5	31800	1663
18.0	30900	1626
17.5	30000	1589
17.0	29100	1552
16.5	28200	1515
16.0	27300	1478
15.5	26400	1441
15.0	25500	1404
14.5	24600	1367
14.0	23700	1330
13.5	22800	1293
13.0	21900	1256
12.5	21000	1220
STOP		

start here

Alliant Unique		
Charge in grains	psi	fps
STOP		
13.6	36000	1613
13.4	35100	1595
13.2	34300	1577
13.0	33500	1560
12.8	32700	1542
12.6	31900	1524
12.4	31100	1507
12.2	30200	1489
12.0	29400	1472
11.8	28600	1454
11.6	27800	1436
11.4	27000	1419
11.2	26200	1401
11.0	25400	1384
STOP		

start here

Hodgdon 110		
Charge in grains	psi	fps
STOP		
31.8	36000	1991
31.6	35600	1977
31.2	34900	1949
30.8	34100	1921
30.4	33400	1893
30.0	32700	1865
29.6	32000	1837
29.2	31300	1809
28.8	30500	1781
28.4	29800	1753
28.0	29100	1725
27.6	28400	1697
27.2	27600	1669
26.8	26900	1641
26.4	26200	1613
26.0	25500	1585
25.6	24700	1557
25.2	24000	1529
24.8	23300	1501
STOP		

start here

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
11.3	36000	1578
11.2	35500	1569
11.1	35000	1560
11.0	34500	1552
10.9	34000	1543
10.8	33600	1535
10.7	33100	1526
10.6	32600	1517
10.5	32100	1509
10.4	31600	1500
10.3	31200	1492
STOP		

start here

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.



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IMR 4227		
Charge in grains	psi	fps
STOP		
* 30.0	36000	1770
29.8	35600	1758
29.5	35000	1740
29.2	34400	1722
28.9	33800	1704
28.6	33200	1687
28.3	32600	1669
28.0	32000	1651
27.7	31400	1633
27.4	30800	1616
27.1	30200	1598
26.8	29600	1580
26.5	29000	1562
26.2	28400	1545
25.9	27800	1527
25.6	27200	1509
25.3	26600	1491
25.0	26000	1474
STOP		

* Compressed load.

Winchester 231		
Charge in grains	psi	fps
STOP		
12.1	36000	1561
12.0	35400	1551
11.9	34900	1542
11.8	34300	1533
11.7	33800	1524
11.6	33200	1515
11.5	32700	1506
11.4	32100	1497
11.3	31600	1488
11.2	31000	1479
11.1	30500	1470
11.0	30000	1461
STOP		


start here

Winchester 296		
Charge in grains	psi	fps
STOP		
* 30.5	36000	1941
30.2	35300	1919
29.9	34600	1898
29.6	33900	1877
29.3	33300	1856
29.0	32600	1835
28.7	31900	1813
28.4	31200	1792
28.1	30600	1771
27.8	29900	1750
27.5	29200	1729
27.2	28500	1707
26.9	27900	1686
26.6	27200	1665
26.3	26500	1644
26.0	25900	1623
STOP		

start here

* Compressed load.

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Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.

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.

**.44 Remington
Magnum**

.429" Diameter

190 grain

Sectional

Density .147

MidwayUSA
SWC

Ballistic Coefficient

N/A

Ctg. Overall Length

1.540

Reducing Cartridge Over All Length increases pressure greatly.

BULLETPAGE


MidwayUSA SWCLead21

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"
Maximum Average Pressure (MAP) 36,000 psi			




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page 4.

Accurate Arms 5			
Charge in grains	psi	fps	
STOP			
15.5	36000	1642	
15.4	35600	1632	
15.3	35200	1622	
15.2	34800	1612	
15.1	34400	1603	
15.0	34000	1593	
14.9	33600	1583	
14.8	33200	1573	
14.7	32800	1564	
14.6	32400	1554	
14.5	32100	1544	
14.4	31700	1534	
14.3	31300	1525	
14.2	30900	1515	
14.1	30500	1505	
14.0	30100	1495	
13.9	29700	1486	
13.8	29300	1476	
13.7	28900	1466	
STOP			


Alliant Blue Dot			
Charge in grains	psi	fps	
STOP			
20.3	36000	1793	
20.0	35600	1778	
19.7	35300	1764	
19.4	35000	1750	
19.1	34700	1736	
18.8	34300	1721	
18.5	34000	1707	
18.2	33700	1693	
17.9	33400	1679	
17.6	33100	1665	
17.3	32700	1650	
17.0	32400	1636	
16.7	32100	1622	
16.4	31800	1608	
16.1	31500	1594	
STOP			

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
29.8	36000	1921	
29.7	35600	1912	
29.5	35000	1896	
29.3	34300	1880	
29.1	33700	1864	
28.9	33000	1848	
28.7	32400	1832	
28.5	31700	1816	
28.3	31100	1800	
28.1	30400	1784	
27.9	29800	1768	
27.7	29100	1752	
27.5	28500	1736	
STOP			

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
10.6	36000	1536	
10.5	35400	1526	
10.4	34800	1516	
10.3	34200	1506	
}	10.2	33600	1496
	10.1	33000	1486
	10.0	32400	1477
STOP			

Winchester 231			
Charge in grains	psi	fps	
STOP			
11.6	36000	1536	
11.5	35400	1526	
11.4	34900	1517	
11.3	34400	1508	
11.2	33900	1499	
11.1	33400	1490	
11.0	32800	1481	
10.9	32300	1472	
10.8	31800	1463	
10.7	31300	1454	
10.6	30800	1445	
10.5	30300	1436	
STOP			


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

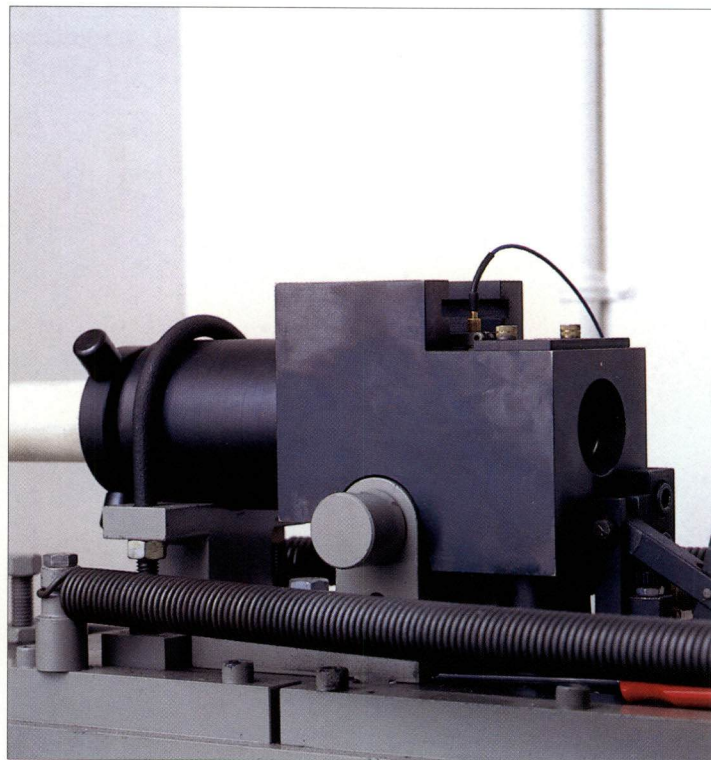

All
pressures
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psi not
C.U.P. See
page 4.

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Over All Length
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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.

.44 Remington Magnum

.429" Diameter

200 grain

Sectional

Density .155



	Barnes XPB	Hornady HP/XTP	Nosler JHP	Speer Mag HP
Ballistic Coefficient	N/A	.170	.151	.155
Ctg. Overall Length	1.585	1.590	1.560	1.575

Reducing Cartridge Over All Length increases pressure greatly.

BULLETPAGE

Barnes XPB.....Solid	24-25
Hornady HP/XTP.....Jacketed	26-27
Nosler JHP.....Jacketed	28-29
Speer Mag HP.....Plated	30-31

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"

Maximum Average Pressure (MAP) 36,000 psi

All testing was done using a solid barrel.

Ammunition fired from a revolver will show a considerable decrease in velocity.



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or Red
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All
pressures
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psi not
C.U.P. See
page 4.

Accurate Arms 7			
Charge in grains	psi	fps	
STOP			
16.6	36000	1536	
16.5	35500	1526	
16.4	35100	1516	
16.3	34600	1507	
16.2	34200	1497	
16.1	33800	1488	
16.0	33300	1478	
15.9	32900	1469	
15.8	32500	1459	
15.7	32000	1449	
15.6	31600	1440	
15.5	31100	1430	
15.4	30700	1421	
15.3	30300	1411	
15.2	29800	1402	
15.1	29400	1392	
15.0	29000	1383	
STOP			

start here

Accurate Arms 9			
Charge in grains	psi	fps	
STOP			
19.2	36000	1541	
19.0	35300	1526	
18.8	34600	1511	
18.6	34000	1496	
18.4	33300	1481	
18.2	32700	1466	
18.0	32000	1451	
17.8	31400	1436	
17.6	30700	1421	
17.4	30100	1406	
17.2	29400	1391	
17.0	28800	1377	
STOP			

start here

Alliant Blue Dot			
Charge in grains	psi	fps	
STOP			
16.0	36000	1579	
15.8	35400	1561	
15.6	34900	1543	
15.4	34400	1526	
15.2	33800	1508	
15.0	33300	1491	
14.8	32800	1473	
14.6	32200	1455	
14.4	31700	1438	
14.2	31200	1420	
14.0	30600	1403	
13.8	30100	1385	
13.6	29600	1367	
13.4	29000	1350	
13.2	28500	1332	
13.0	28000	1315	
STOP			

start here

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
24.2	36000	1700	
24.0	35500	1688	
23.8	35000	1677	
23.6	34500	1665	
23.4	34000	1654	
23.2	33500	1642	
23.0	33000	1631	
22.8	32500	1619	
22.6	32000	1608	
22.4	31500	1596	
22.2	31000	1585	
22.0	30500	1574	
STOP			

start here

*Compressed load.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.0	36000	1363	
8.9	35500	1352	
8.8	35000	1341	
8.7	34500	1330	
8.6	34000	1319	
8.5	33500	1308	
8.4	33000	1297	
8.3	32500	1286	
8.2	32000	1275	
8.1	31500	1264	
8.0	31000	1254	
STOP			

start here



Use
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C.U.P. See
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Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.

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.

.44 Remington Magnum

Barnes 200 gr XPB



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page 4.

IMR 4227			
Charge in grains	psi	fps	
STOP			
22.8	36000	1466	
22.7	35700	1459	
22.5	35200	1446	
22.3	34700	1433	
22.1	34200	1420	
21.9	33600	1406	
21.7	33100	1393	
21.5	32600	1380	
21.3	32100	1367	
21.1	31600	1354	
20.9	31100	1341	
20.7	30600	1328	
20.5	30100	1315	
STOP			

* Compressed load.

IMR 700X			
Charge in grains	psi	fps	
STOP			
9.3	36000	1367	
9.2	35400	1355	
9.1	34900	1343	
9.0	34400	1331	
8.9	33900	1319	
8.8	33400	1307	
8.7	32900	1295	
8.6	32400	1283	
8.5	31900	1271	
8.4	31400	1259	
8.3	30800	1247	
8.2	30300	1235	
8.1	29800	1223	
8.0	29300	1211	
7.9	28800	1199	
7.8	28300	1187	
7.7	27800	1175	
7.6	27300	1163	
7.5	26800	1152	
STOP			

IMR SR7625			
Charge in grains	psi	fps	
STOP			
10.7	36000	1363	
10.6	35500	1353	
10.5	35000	1344	
10.4	34600	1335	
10.3	34100	1325	
10.2	33600	1316	
10.1	33200	1307	
10.0	32700	1297	
9.9	32200	1288	
9.8	31800	1279	
9.7	31300	1269	
9.6	30800	1260	
9.5	30400	1251	
STOP			

Winchester 296			
Charge in grains	psi	fps	
STOP			
23.0	36000	1657	
22.9	35500	1649	
22.8	35100	1641	
22.7	34700	1633	
22.6	34200	1625	
22.5	33800	1617	
22.4	33400	1609	
22.3	33000	1601	
22.2	32500	1594	
22.1	32100	1586	
22.0	31700	1578	
21.9	31300	1570	
21.8	30800	1562	
21.7	30400	1554	
21.6	30000	1546	
21.5	29600	1539	
STOP			



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Hornady 200 gr HP/XTP

.44 Remington Magnum

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



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Accurate Arms 7		
Charge in grains	psi	fps
STOP		
19.8	36000	1684
19.7	35700	1677
19.5	35200	1664
19.3	34700	1651
19.1	34200	1638
18.9	33700	1625
18.7	33300	1613
18.5	32800	1600
18.3	32300	1587
18.1	31800	1574
17.9	31300	1561
17.7	30800	1548
17.5	30300	1535
17.3	29800	1522
17.1	29300	1509
16.9	28800	1496
16.7	28300	1483
16.5	27900	1471
STOP		

Accurate Arms 9		
Charge in grains	psi	fps
STOP		
25.0	36000	1776
24.9	35700	1769
24.7	35200	1757
24.5	34700	1745
24.3	34200	1733
24.1	33700	1721
23.9	33200	1709
23.7	32700	1696
23.5	32200	1684
23.3	31700	1672
23.1	31200	1660
22.9	30700	1648
22.7	30200	1636
22.5	29800	1624
STOP		


Alliant Blue Dot		
Charge in grains	psi	fps
STOP		
19.0	36000	1699
18.9	35700	1691
18.6	35000	1669
18.3	34300	1647
18.0	33600	1625
17.7	33000	1603
17.4	32300	1581
17.1	31600	1559
16.8	30900	1537
16.5	30200	1515
16.2	29500	1493
15.9	28800	1471
15.6	28100	1449
15.3	27400	1427
15.0	26700	1405
14.7	26000	1383
14.4	25400	1361
STOP		

Hodgdon 110		
Charge in grains	psi	fps
STOP		
29.0	36000	1847
28.9	35700	1840
28.7	35100	1826
28.5	34600	1812
28.3	34000	1798
28.1	33400	1784
27.9	32900	1770
27.7	32300	1756
27.5	31800	1742
27.3	31200	1728
27.1	30600	1714
26.9	30100	1700
26.7	29500	1686
26.5	29000	1673
STOP		

* Compressed load.

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
10.8	36000	1482
10.7	35500	1473
10.6	35000	1464
10.5	34600	1455
10.4	34100	1446
10.3	33600	1437
10.2	33200	1428
10.1	32700	1419
10.0	32300	1410
9.9	31800	1401
9.8	31300	1392
9.7	30900	1383
9.6	30400	1374
9.5	30000	1366
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 cover page for this grain weight for O.A.L.

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.44 Remington Magnum

Hornady 200 gr HP/XTP



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IMR 4227			
	Charge in grains	psi	fps
*	STOP		
	27.8	36000	1678
	27.7	35700	1671
	27.6	35500	1665
	27.5	35200	1659
	27.4	35000	1652
	27.3	34800	1646
	27.2	34500	1640
	27.1	34300	1633
		27.0	34000
start here	26.9	33800	1621
	26.8	33600	1615
	26.7	33300	1608
	26.6	33100	1602
	26.5	32800	1596
	26.4	32600	1589
	26.3	32400	1583
	26.2	32100	1577
	26.1	31900	1570
	STOP		

* Compressed load.

IMR 700X			
Start time	Charge in grains	psi	fps
	STOP		
	11.0	36000	1485
	10.8	35200	1465
	10.6	34400	1446
	10.4	33600	1426
	10.2	32800	1407
	10.0	32000	1388
	9.8	31200	1368
	9.6	30400	1349
	9.4	29600	1330
	9.2	28800	1310
	9.0	28000	1291
	8.8	27200	1271
	8.6	26400	1252
	8.4	25600	1233
	8.2	24800	1213
	8.0	24000	1194
	7.8	23200	1175
	STOP		

IMR SR7625			
Charge in grains	psi	fps	
STOP			
12.0	36000	1458	
11.9	35500	1448	
11.7	34600	1430	

11.5	33700	1412	
11.3	32700	1394	
11.1	31800	1376	
10.9	30900	1358	
10.7	30000	1339	
10.5	29100	1321	
10.3	28100	1303	
10.1	27200	1285	
9.9	26300	1267	
9.7	25400	1249	
9.5	24500	1231	
STOP			

Winchester 296			
Charge in grains	psi	fps	
STOP			
28.1	36000	1823	
27.9	35300	1807	
27.7	34700	1792	
27.5	34100	1777	
27.3	33500	1761	
27.1	32900	1746	
26.9	32300	1731	
26.7	31600	1715	
26.5	31000	1700	
26.3	30400	1685	
26.1	29800	1669	
25.9	29200	1654	
25.7	28600	1639	
25.5	28000	1624	
STOP			



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Nosler 200 gr JHP

.44 Remington Magnum

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Accurate Arms 7			
Charge in grains	psi	fps	
STOP			
19.5	36000	1690	
19.3	35400	1676	
19.1	34900	1662	
18.9	34400	1648	

18.7	33900	1634	
18.5	33400	1620	
18.3	32800	1606	
18.1	32300	1592	
17.9	31800	1578	
17.7	31300	1564	
17.5	30800	1550	
17.3	30200	1536	
17.1	29700	1522	
16.9	29200	1508	
16.7	28700	1494	
16.5	28200	1481	
STOP			

start here

Accurate Arms 9			
Charge in grains	psi	fps	
STOP			
24.3	36000	1773	
24.2	35700	1766	
24.1	35400	1760	
24.0	35200	1753	
23.9	34900	1747	
23.8	34600	1740	
23.7	34400	1734	

23.6	34100	1727	
23.5	33800	1721	
23.4	33600	1714	
23.3	33300	1708	
23.2	33000	1701	
23.1	32800	1695	
23.0	32500	1688	
22.9	32200	1682	
22.8	32000	1675	
22.7	31700	1669	
22.6	31400	1662	
22.5	31200	1656	
STOP			

start here

Alliant Blue Dot			
start here	Charge in grains	psi	fps
	STOP		
	18.7	36000	1694
	18.6	35700	1686
	18.3	35000	1664
	18.0	34300	1643
	17.7	33600	1621
	17.4	32900	1599
	17.1	32200	1577
	16.8	31500	1555
	16.5	30800	1533
	16.2	30100	1512
	15.9	29400	1490
	15.6	28700	1468
	15.3	28000	1446
	15.0	27300	1424
	14.7	26600	1402
	14.4	26000	1381
	STOP		

start here

Hodgdon 110			
Charge in grains		psi	fps
* <			

start here

* Compressed load.

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
10.6	36000	1427
10.5	35400	1420
10.4	34900	1413
10.3	34400	1406
10.2	33900	1399
10.1	33400	1393
10.0	32900	1386
9.9	32300	1379
9.8	31800	1372
9.7	31300	1366
9.6	30800	1359
9.5	30300	1352
9.4	29800	1345
9.3	29300	1339
STOP		

start here

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IMR 4227			
	Charge in grains	psi	fps
	STOP		
★	27.2	36000	1663
	27.1	35700	1656
	27.0	35400	1649
	26.9	35100	1642
	26.8	34900	1635
	26.7	34600	1628
	26.6	34300	1621
	26.5	34100	1614
	26.4	33800	1607
	26.3	33500	1601
start here	26.2	33200	1594
	26.1	33000	1587
	26.0	32700	1580
	25.9	32400	1573
	25.8	32200	1566
	25.7	31900	1559
	25.6	31600	1552
	25.5	31400	1546
	STOP		

* Compressed load.

IMR 700X			
Charge in grains	psi	fps	
STOP			
11.0	36000	1443	
10.8	35200	1426	
10.6	34400	1410	
10.4	33600	1394	
10.2	32900	1378	
10.0	32100	1362	
9.8	31300	1346	
9.6	30600	1330	
9.4	29800	1314	
9.2	29000	1298	
9.0	28300	1282	
8.8	27500	1266	
8.6	26700	1250	
8.4	26000	1234	
8.2	25200	1218	
8.0	24400	1202	
7.8	23700	1186	
STOP			

IMR SR7625			
Charge in grains	psi	fps	
		STOP	
12.2	36000	1454	
12.1	35500	1445	
11.9	34700	1429	
11.7	33800	1412	
11.5	32900	1395	
11.3	32100	1379	
11.1	31200	1362	
10.9	30300	1346	
10.7	29500	1329	
10.5	28600	1312	
10.3	27700	1296	
10.1	26900	1279	
9.9	26000	1263	
9.7	25100	1246	
9.5	24300	1230	
STOP			

Winchester 296			
* Scale 1/2 inch	Charge in grains	psi	fps
	STOP		
	28.1	36000	1863
	27.9	35500	1849
	27.7	35000	1835
	27.5	34500	1821
	27.3	34000	1807
	27.1	33500	1794
	26.9	33000	1780
	26.7	32600	1766
	26.5	32100	1752
	26.3	31600	1739
	26.1	31100	1725
	25.9	30600	1711
	25.7	30100	1697
	25.5	29700	1684
	STOP		

* Compressed load.



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Speer 200 gr Mag HP

.44 Remington Magnum

Read pages 2-11 before loading.
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Accurate Arms 7			
Charge in grains	psi	fps	
STOP			
19.5	36000	1684	
19.3	35400	1669	
19.1	34800	1654	
18.9	34300	1640	

18.7	33700	1625	
18.5	33100	1611	
18.3	32600	1596	
18.1	32000	1582	
17.9	31400	1567	
17.7	30900	1553	
17.5	30300	1538	
17.3	29700	1524	
17.1	29200	1509	
16.9	28600	1495	
16.7	28000	1480	
16.5	27500	1466	
STOP			

Accurate Arms 9			
start here	Charge in grains	psi	fps
	STOP		
	24.9	36000	1781
	24.7	35400	1766
	24.5	34800	1752
	24.3	34200	1738

	24.1	33600	1724
	23.9	33000	1709
	23.7	32400	1695
	23.5	31800	1681
	23.3	31200	1667
	23.1	30600	1652
	22.9	30000	1638
	22.7	29400	1624
22.5	28900	1610	
STOP			

Alliant Blue Dot			
Charge in grains	psi	fps	
STOP			
18.7	36000	1677	
18.6	35700	1669	
18.3	34900	1646	
18.0	34100	1623	
17.7	33400	1601	
17.4	32600	1578	
17.1	31800	1555	
16.8	31000	1532	
16.5	30300	1510	
16.2	29500	1487	
15.9	28700	1464	
15.6	27900	1441	
15.3	27200	1419	
15.0	26400	1396	
14.7	25600	1373	
14.4	24900	1351	
STOP			

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
* <			

* Compressed load.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
10.9	36000	1482	
10.8	35500	1472	
10.7	35000	1463	
10.6	34500	1454	
10.5	34000	1445	
10.4	33600	1436	
10.3	33100	1427	
10.2	32600	1418	
10.1	32100	1409	
10.0	31600	1400	
9.9	31200	1391	
9.8	30700	1382	
9.7	30200	1373	
9.6	29700	1364	
9.5	29300	1355	
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 cover page for this grain weight for O.A.L.

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.




Use
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the Yellow
or Red
zones.


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

IMR 4227			
Charge in grains	psi	fps	
* 			

* Compressed load.

IMR 700X			
Charge in grains	psi	fps	
STOP			
11.0	36000	1472	
10.8	35200	1453	
10.6	34400	1434	
10.4	33600	1415	
10.2	32800	1396	
10.0	32000	1377	
9.8	31200	1359	
9.6	30400	1340	
9.4	29600	1321	
9.2	28800	1302	
9.0	28000	1283	
8.8	27200	1265	
8.6	26400	1246	
8.4	25600	1227	
8.2	24800	1208	
8.0	24000	1189	
7.8	23200	1171	
STOP			

start here


IMR SR7625			
Charge in grains	psi	fps	
		STOP	
12.2	36000	1460	
12.1	35500	1451	
11.9	34600	1433	
11.7	33800	1415	
11.5	32900	1398	
11.3	32000	1380	
11.1	31100	1362	
10.9	30300	1344	
10.7	29400	1327	
10.5	28500	1309	
10.3	27600	1291	
10.1	26800	1274	
9.9	25900	1256	
9.7	25000	1238	
9.5	24200	1221	
STOP			

start here

Winchester 296			
Charge in grains		psi	fps
STOP			
* 			

* Compressed load.


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zones.


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pressures
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psi not
C.U.P. See
page 4.

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.

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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.

**.44 Remington
Magnum**

.429" Diameter

210 grain

Sectional

Density .163



	Remington JHP	Sierra JHC	Winchester ST/HP
Ballistic Coefficient	N/A	.167	N/A
Ctg. Overall Length	1.565	1.580	1.585

Reducing Cartridge Over All Length increases pressure greatly.

BULLETPAGE

Remington JHPPlated34-35

Sierra JHCJacketed36-37

Winchester ST/HPJacketed38-39

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"


Maximum Average Pressure (MAP) 36,000 psi

All testing was done using a solid barrel.

Ammunition fired from a revolver will show a considerable decrease in velocity.




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page 4.

Accurate Arms 9			
Charge in grains	psi	fps	
STOP			
22.9	36000	1679	
22.8	35700	1673	
22.6	35300	1662	
22.4	34800	1650	
22.2	34300	1639	

22.0	33900	1628	
21.8	33400	1616	
21.6	32900	1605	
21.4	32500	1594	
21.2	32000	1582	
21.0	31600	1571	
20.8	31100	1560	
20.6	30600	1548	
20.4	30200	1537	
20.2	29700	1526	
20.0	29300	1515	
STOP			

start here

Alliant 2400			
Charge in grains	psi		fps
	STOP		
22.0	36000	1587	
21.8	35400	1574	
21.6	34900	1561	
21.4	34300	1549	

21.2	33800	1536	
21.0	33300	1523	
20.8	32700	1511	
20.6	32200	1498	
20.4	31600	1485	
20.2	31100	1473	
20.0	30600	1460	
19.8	30000	1447	
19.6	29500	1435	
19.4	28900	1422	
19.2	28400	1409	
19.0	27900	1397	
18.8	27300	1384	
18.6	26800	1371	
18.4	26200	1359	
STOP			

start here

Hodgdon 110			
	Charge in grains	psi	fps
	STOP		
* <			

start here

* Compressed load.

Hodgdon 4227			
Charge in grains	psi	fps	
STOP			
* 26.4	36000	1620	
26.2	35300	1606	
26.0	34700	1593	

25.8	34100	1580	
25.6	33400	1567	
25.4	32800	1554	
25.2	32200	1541	
25.0	31500	1528	
24.8	30900	1515	
24.6	30300	1502	
24.4	29600	1489	
24.2	29000	1476	
24.0	28400	1463	
STOP			
* Compressed load.			

start here


* Compressed load.

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
16.1	36000	1478	
16.0	35500	1470	
15.9	35000	1462	
15.8	34600	1454	

15.7	34100	1447	
15.6	33700	1439	
15.5	33200	1431	
15.4	32800	1423	
15.3	32300	1416	
15.2	31800	1408	
15.1	31400	1400	
15.0	30900	1392	
14.9	30500	1385	
14.8	30000	1377	
14.7	29600	1369	
14.6	29100	1361	
14.5	28700	1354	
STOP			

start here


Use
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psi not
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Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.

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.



 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 Titegroup			
Charge in grains	psi	fps	
STOP			
9.5	36000	1335	
9.4	35100	1325	
9.3	34200	1316	
9.2	33300	1307	
9.1	32400	1298	
9.0	31500	1289	
STOP			

start here

IMR 4227			
	Charge in grains	psi	fps
*	STOP		
	25.2	36000	1525
	25.1	35600	1518
	24.8	34700	1497
start here	24.5	33700	1476
	24.2	32700	1456
	23.9	31700	1435
	23.6	30800	1414
	23.3	29800	1394
	23.0	28800	1373
	22.7	27800	1352
	22.4	26900	1332
	22.1	25900	1311
	21.8	24900	1290
	21.5	23900	1270
	21.2	23000	1249
	20.9	22000	1228
	20.6	21000	1208
	20.3	20000	1187
STOP			


start here

* Compressed load.

IMR SR7625			
Charge in grains	psi	fps	
STOP			
11.3	36000	1393	
11.2	35300	1383	
11.0	34100	1363	
10.8	32900	1343	
10.6	31600	1324	
10.4	30400	1304	
10.2	29200	1284	
10.0	27900	1265	
9.8	26700	1245	
9.6	25500	1225	
9.4	24200	1206	
9.2	23000	1186	
9.0	21800	1167	
STOP			

start here

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

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Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.


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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.



 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 9			
Charge in grains	psi	fps	
STOP			
23.2	36000	1700	
23.0	35500	1688	
22.8	35100	1677	
22.6	34700	1666	
22.4	34300	1655	
22.2	33800	1643	
22.0	33400	1632	
21.8	33000	1621	
21.6	32600	1610	
21.4	32100	1598	
21.2	31700	1587	
21.0	31300	1576	
20.8	30900	1565	
20.6	30400	1553	
20.4	30000	1542	
20.2	29600	1531	
20.0	29200	1520	
STOP			

start here

Alliant 2400			
Charge in grains	psi	fps	
STOP			
22.3	36000	1600	
22.2	35700	1593	
21.9	34900	1574	

21.6	34100	1556	
21.3	33300	1537	
21.0	32400	1518	
20.7	31600	1499	
20.4	30800	1481	
20.1	30000	1462	
19.8	29200	1443	
19.5	28400	1424	
19.2	27600	1406	
18.9	26800	1387	
18.6	26000	1368	
18.3	25200	1349	
18.0	24400	1331	
STOP			

start here

Hodgdon 110			
	Charge in grains	psi	fps
	STOP		
* 			

start here

* Compressed load.

Hodgdon 4227			
	Charge in grains	psi	fps
	STOP		
* start here {	26.4	36000	1604
	26.2	35200	1591
	26.0	34400	1578

	25.8	33600	1565
	25.6	32800	1552
	25.4	32000	1539
	25.2	31300	1526
	25.0	30500	1513
	24.8	29700	1500
	24.6	28900	1487
	24.4	28100	1474
	24.2	27300	1461
	24.0	26600	1449
	STOP		
* Compressed load.			


start here

* Compressed load.

Hodgdon HS-7			
start here	Charge in grains	psi	fps
	STOP		
	16.2	36000	1483
	16.1	35400	1474
	16.0	34800	1465
	15.9	34300	1457
	15.8	33700	1448
	15.7	33100	1439
	15.6	32600	1431
	15.5	32000	1422
	15.4	31400	1413
	15.3	30900	1405
	15.2	30300	1396
	15.1	29700	1387
	15.0	29200	1379
	14.9	28600	1370
	14.8	28000	1361
	14.7	27500	1353
	14.6	26900	1344
	14.5	26400	1336
STOP			

start here

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

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Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.



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

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Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.7	36000	1356	
9.6	35200	1347	
9.5	34500	1338	
9.4	33800	1329	
9.3	33100	1320	
9.2	32400	1311	
9.1	31700	1302	
9.0	31000	1294	
STOP			

start here

IMR 4227			
Charge in grains		psi	fps
STOP			
*	25.4	36000	1532
	25.1	35000	1511
start here	24.8	34100	1491
	24.5	33100	1471
	24.2	32200	1451
	23.9	31200	1431
	23.6	30300	1411
	23.3	29300	1390
	23.0	28400	1370
	22.7	27400	1350
	22.4	26500	1330
	22.1	25500	1310
	21.8	24600	1290
	21.5	23600	1269
	21.2	22700	1249
	20.9	21700	1229
	20.6	20800	1209
20.3	19800	1189	
STOP			
* Compressed load.			


start here

* Compressed load.

IMR SR7625			
Charge in grains	psi	fps	
STOP			
11.3	36000	1397	
11.2	35300	1386	
11.0	33900	1365	
10.8	32500	1345	
10.6	31200	1324	
10.4	29800	1303	
10.2	28400	1282	
10.0	27100	1261	
9.8	25700	1241	
9.6	24300	1220	
9.4	23000	1199	
9.2	21600	1178	
9.0	20300	1158	
STOP			

start here

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

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Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.

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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.

start here

Accurate Arms 9		
Charge in grains	psi	fps
STOP		
23.2	36000	1653
23.0	35600	1643
22.8	35300	1634
22.6	34900	1625
22.4	34600	1616
22.2	34200	1607
STOP		
22.0	33900	1598
21.8	33500	1589
21.6	33200	1580
21.4	32800	1571
21.2	32500	1562
21.0	32100	1553
20.8	31800	1544
20.6	31400	1535
20.4	31100	1526
20.2	30700	1517
20.0	30400	1508
STOP		

start here

Alliant 2400		
Charge in grains	psi	fps
STOP		
22.6	36000	1577
22.5	35700	1572
22.2	35100	1557
21.9	34400	1542
21.6	33700	1527
21.3	33000	1512
21.0	32400	1497
20.7	31700	1482
20.4	31000	1467
20.1	30400	1453
19.8	29700	1438
19.5	29000	1423
19.2	28300	1408
18.9	27700	1393
18.6	27000	1378
18.3	26300	1363
18.0	25700	1349
STOP		

start here

Hodgdon 110		
Charge in grains	psi	fps
STOP		
25.5	28200	1580
25.4	28000	1574
25.2	27600	1563
25.0	27200	1552
24.8	26800	1540
24.6	26500	1529
24.4	26100	1518
24.2	25700	1507
24.0	25300	1496
23.8	25000	1484
23.6	24600	1473
23.4	24200	1462
23.2	23800	1451
23.0	23500	1440
STOP		

* Compressed load.

start here

Hodgdon 4227		
Charge in grains	psi	fps
STOP		
26.4	36000	1585
26.2	35100	1571
26.0	34200	1558
25.8	33300	1545
25.6	32500	1532
25.4	31600	1518
25.2	30700	1505
25.0	29800	1492
24.8	29000	1479
24.6	28100	1465
24.4	27200	1452
24.2	26300	1439
24.0	25500	1426
STOP		

* Compressed load.

start here

Hodgdon HS-7		
Charge in grains	psi	fps
STOP		
16.4	36000	1473
16.3	35400	1462
16.2	34800	1452
16.1	34200	1441
16.0	33600	1431
15.9	33000	1420
15.8	32400	1410
15.7	31800	1400
15.6	31200	1389
15.5	30600	1379
15.4	30000	1368
15.3	29400	1358
15.2	28800	1347
15.1	28200	1337
15.0	27600	1327
14.9	27000	1316
14.8	26400	1306
14.7	25800	1295
14.6	25200	1285
STOP		

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Reducing Cartridge Over All Length increases pressure greatly.
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pressures
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C.U.P. See
page 4.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.9	36000	1359	
9.8	35200	1349	
9.7	34500	1339	
9.6	33700	1330	
9.5	33000	1320	
9.4	32200	1310	
9.3	31500	1301	
9.2	30700	1291	
9.1	30000	1281	
9.0	29300	1272	
STOP			

start here

IMR 4227			
Charge in grains	psi	fps	
*	STOP		
25.8	36000	1531	
25.7	35700	1524	
25.4	34800	1504	

25.1	33900	1484	
24.8	33100	1465	
24.5	32200	1445	
24.2	31300	1425	
23.9	30400	1405	
23.6	29600	1386	
23.3	28700	1366	
23.0	27800	1346	
22.7	27000	1326	
22.4	26100	1307	
22.1	25200	1287	
21.8	24400	1267	
21.5	23500	1247	
21.2	22600	1228	
20.9	21800	1208	
STOP			
* Compressed load.			


start here

* Compressed load.

IMR SR7625			
Charge in grains	psi	fps	
STOP			
11.5	36000	1396	
11.4	35300	1386	
11.2	34100	1366	
11.0	32900	1346	
10.8	31600	1326	
10.6	30400	1307	
10.4	29200	1287	
10.2	27900	1267	
10.0	26700	1247	
9.8	25500	1228	
9.6	24200	1208	
9.4	23000	1188	
9.2	21800	1168	
9.0	20600	1149	
STOP			

start here


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Over All Length
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See cover page for this
grain weight for O.A.L.

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220 grain

.44 Remington Magnum

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

.44 Remington Magnum

.429" Diameter

220 grain

Sectional



Density .170

Sierra
FPJ

Ballistic Coefficient

.190

Ctg. Overall Length

1.585

Reducing Cartridge Over All Length increases pressure greatly.

BULLETPAGE

Sierra FPJJacketed.....41

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"
Maximum Average Pressure (MAP) 36,000 psi			

All testing was done using a solid barrel.
Ammunition fired from a revolver will show a considerable decrease in velocity.



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

Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.

Accurate Arms 9			
Charge in grains	psi	fps	
STOP			
22.7	36000	1652	
22.5	35400	1639	
22.3	34900	1627	
22.1	34300	1614	
21.9	33800	1602	
21.7	33300	1589	
21.5	32700	1577	
21.3	32200	1564	
21.1	31700	1552	
20.9	31100	1539	
20.7	30600	1527	
20.5	30000	1514	
20.3	29500	1502	
20.1	29000	1489	
19.9	28400	1477	
19.7	27900	1464	
19.5	27400	1452	
STOP			

for this grain
O.A.L.

Accurate Arms XMP5744			
Charge in grains	psi	fps	
STOP			
24.6	36000	1489	
24.4	35400	1477	
24.0	34400	1453	

23.6	33300	1429	
23.2	32200	1405	
22.8	31200	1381	
22.4	30100	1357	
22.0	29000	1333	
21.6	28000	1309	
21.2	26900	1285	
20.8	25800	1261	
20.4	24800	1237	
20.0	23700	1213	
19.6	22600	1189	
19.2	21600	1165	
18.8	20500	1141	
18.4	19400	1117	
18.0	18400	1094	
STOP			

Alliant 2400			
Charge in grains	psi	fps	
STOP			
22.6	36000	1597	
22.2	35100	1572	
21.8	34200	1548	

21.4	33300	1524	
21.0	32400	1499	
20.6	31500	1475	
20.2	30600	1451	
19.8	29700	1427	
19.4	28800	1402	
19.0	27900	1378	
18.6	27100	1354	
18.2	26200	1330	
17.8	25300	1305	
17.4	24400	1281	
17.0	23500	1257	
16.6	22600	1233	
16.2	21700	1208	
15.8	20800	1184	
15.4	19900	1160	
STOP			

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
26.5	36000	1707	start here
26.3	35400	1694	
26.1	34800	1681	
25.9	34200	1668	
25.7	33600	1655	
25.5	33100	1642	
25.3	32500	1629	
25.1	31900	1616	
24.9	31300	1603	
24.7	30700	1590	
24.5	30200	1577	
24.3	29600	1564	
24.1	29000	1551	
23.9	28400	1538	
23.7	27800	1525	
23.5	27300	1512	
23.3	26700	1499	
23.1	26100	1486	
22.9	25500	1473	
STOP			

Hodgdon Power Pistol			
Charge in grains	psi	fps	
STOP			
13.7	36000	1533	
13.6	35500	1523	
13.4	34700	1505	

13.2	33800	1486	
13.0	32900	1468	
12.8	32100	1449	
12.6	31200	1431	
12.4	30400	1412	
12.2	29500	1394	
12.0	28600	1375	
11.8	27800	1357	
11.6	26900	1338	
11.4	26100	1320	
11.2	25200	1301	
11.0	24300	1283	
10.8	23500	1264	
10.6	22600	1246	
10.4	21800	1227	
10.2	20900	1209	
STOP			



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



The Marlin Model 1894 Cowboy II is one of the long guns available in .44 Remington Magnum. The 1894 Cowboy II is used in cowboy matches around the country. It has a ten round tubular magazine.



photo courtesy of **Sturm, Ruger and Company, Inc.**

Also seen at Cowboy shoots is the Ruger Vaquero. Note the color case hardening on the body of the gun.

.44 Remington Magnum

.429" Diameter

225 grain

Sectional

Density .174



	Barnes XPB	Speer SWC/HP
Ballistic Coefficient	N/A	.146
Ctg. Overall Length	1.600	1.575

Reducing Cartridge Over All Length increases pressure greatly.

BULLETPAGE

Barnes XPB.....Solid44

Speer SWC/HPJacketed45

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"


Maximum Average Pressure (MAP) 36,000 psi

All testing was done using a solid barrel.

Ammunition fired from a revolver will show a considerable decrease in velocity.



 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 2400			
Charge in grains		psi	fps
* <			

* Compressed load.

Alliant Unique			
Charge in grains	psi	fps	
STOP			
9.6	36000	1172	
9.5	35300	1160	
9.4	34700	1148	

9.3	34000	1136	
9.2	33400	1124	
9.1	32700	1112	
9.0	32100	1100	
8.9	31400	1088	
8.8	30800	1076	
8.7	30100	1064	
8.6	29500	1052	
8.5	28800	1040	
8.4	28200	1028	
8.3	27500	1016	
8.2	26900	1004	
8.1	26200	992	
8.0	25600	981	
STOP			

* Compressed load.

Hodgdon 110			
Charge in grains		psi	fps
* 			

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
7.3	36000	1087	
7.2	35200	1073	
7.1	34400	1059	
7.0	33600	1045	
6.9	32800	1032	
6.8	32000	1018	
6.7	31200	1004	
6.6	30400	991	
6.5	29600	977	
6.4	28800	963	
6.3	28000	950	
6.2	27200	936	
6.1	26400	922	
6.0	25600	909	
STOP			

start here

Reducing Cartridge
pressure greatly.
See cover page for

Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.


IMR 4227			
	Charge in grains	psi	fps
	STOP		
*	18.8	36000	1192
	18.6	35000	1173
{ start here	18.4	34000	1154
	18.2	33000	1135
	18.0	32000	1116
	17.8	31000	1097
	17.6	30000	1078
	17.4	29100	1059
	17.2	28100	1040
	17.0	27100	1021
	16.8	26100	1002
	16.6	25100	983
	16.4	24100	964
	16.2	23100	945
	16.0	22200	926
	STOP		
	* Compressed load.		

Over All Length increase

this grain weight for O

* Compressed load.

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

Alliant 2400			
Charge in grains	psi	fps	
*	STOP		
	21.3	36000	1513
	21.1	35300	1500
	20.9	34700	1487
{ start... here	20.7	34000	1475
	20.5	33400	1462
	20.3	32700	1449
	20.1	32100	1437
	19.9	31400	1424
	19.7	30800	1411
	19.5	30100	1399
	19.3	29500	1386
	19.1	28800	1374
	18.9	28200	1361
	18.7	27500	1348
	18.5	26900	1336
	18.3	26200	1323
	18.1	25600	1310
	17.9	24900	1298
STOP			
* Compressed load.			

* Compressed load.

Alliant Unique			
Charge in grains	psi	fps	
	STOP		
11.6	36000	1349	
11.5	35200	1339	
11.4	34400	1329	
11.3	33700	1320	
11.2	32900	1310	
11.1	32200	1301	
11.0	31400	1291	
10.9	30700	1282	
10.8	29900	1272	
10.7	29200	1263	
10.6	28400	1253	
10.5	27700	1244	
STOP			

start here

Hodgdon 110			
	Charge in grains	psi	fps
*	STOP		
	25.7	36000	1691
	25.5	35200	1675
	25.3	34500	1660
start here	25.1	33800	1644
	24.9	33100	1629
	24.7	32300	1613
	24.5	31600	1598
	24.3	30900	1582
	24.1	30200	1567
	23.9	29400	1552
	23.7	28700	1536
	23.5	28000	1521
	23.3	27300	1505
	23.1	26500	1490
	22.9	25800	1474
	22.7	25100	1459
	22.5	24400	1444
	STOP		
* Compressed load.			

start here

* Compressed load.

Hodgdon Titegroup			
start here	Charge in grains	psi	fps
	STOP		
	9.3	36000	1288
	9.2	35200	1278
	9.1	34400	1268
	9.0	33700	1259
	8.9	32900	1249
	8.8	32100	1239
	8.7	31400	1230
	8.6	30600	1220
	8.5	29900	1211
	8.4	29100	1201
	8.3	28300	1191
	8.2	27600	1182
	8.1	26800	1172
8.0	26100	1163	
STOP			

start here


Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.

IMR 4227			
Charge in grains	psi	fps	
* 24.3	36000	1471	1471
24.2	35600	1464	1464
24.0	34900	1450	1450
23.8	34200	1436	1436
23.6	33500	1422	1422
23.4	32700	1408	1408
23.2	32000	1394	1394
23.0	31300	1381	1381
22.8	30600	1367	1367
22.6	29900	1353	1353
22.4	29200	1339	1339
22.2	28500	1325	1325
22.0	27800	1312	1312
STOP			
*Compressed load			

start here

* Compressed load.

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photo courtesy of **Colt Manufacturing Co., Inc.**

This Colt Anaconda is a competition gun, fitted with a scope and ported barrel.



photo courtesy of **Sturm, Ruger and Company, Inc.**



photo courtesy of **Sturm, Ruger and Company, Inc.**

The Ruger Blackhawk (bottom) debuted in 1955, the same year as the .44 Remington Magnum cartridge itself. The even more popular Ruger Super Blackhawk (top) shortly followed into the marketplace.

.44 Remington Magnum

.429" Diameter

240 grain

Sectional

Density .186



	Hornady CL-SIL	Hornady HP/XTP	MidwayUSA JFP	MidwayUSA JHP	Nosler JHP	Nosler JSP	Remington JHP	Remington JSP	Sierra JHC	Speer Mag-HP	Speer Mag-SP
Ballistic Coefficient	.174	.205	N/A	N/A	.173	.177	N/A	N/A	.180	.165	.164
Ctg. Overall Length	1.595	1.595	1.600	1.580	1.565	1.585	1.575	1.575	1.575	1.575	1.580

Reducing Cartridge Over All Length increases pressure greatly.



	Speer SWC-SP	Speer TMJ-SIL	Winchester HSP	Hornady SWC	Hornady SWC/HP	MidwayUSA RN/FP	MidwayUSA SWC	Speer SWC
B. C.	N/A	.206	N/A	.182	.204	N/A	N/A	.151
C.O.L.	1.575	1.610	1.590	1.600	1.600	1.565	1.600	1.600

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"

Maximum Average Pressure (MAP) 36,000 psi


BULLETPAGE

Hornady CL-SIL.....	Jacketed	48-49
Hornady HP/XTP	Jacketed	50-51
MidwayUSA JFP	Plated	52-53
MidwayUSA JHP	Plated	54-55
Nosler JHP	Jacketed	56-57
Nosler JSP	Jacketed	58-59
Remington JHP.....	Jacketed	60-61
Remington JSP	Jacketed	62-63
Sierra JHC	Jacketed	64-65
Speer MAG-HP	Plated	66-67
Speer MAG-SP	Plated	68-69
Speer SWC-SP	Plated	70-71
Speer TMJ-SIL.....	Plated	72-73
Winchester HSP	Jacketed	74-75
Hornady SWC	Lead	76
Hornady SWC/HP	Lead	77
MidwayUSA RN/FP	Lead	78
MidwayUSA SWC	Lead	79
Speer SWC	Lead	80

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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 XMP5744

Charge
in
grains psi fps

STOP

23.0	36000	1370
22.8	35300	1358
22.6	34600	1346
22.4	33900	1334
22.2	33200	1322
22.0	32500	1310
21.8	31800	1298
21.6	31100	1286
21.4	30500	1274
21.2	29800	1262
21.0	29100	1250
20.8	28400	1238
20.6	27700	1226
20.4	27000	1214
20.2	26300	1202
20.0	25700	1191

STOP

Alliant 2400

Charge
in
grains psi fps

STOP

20.0	36000	1445
19.8	35400	1432
19.6	34800	1419
19.4	34200	1406
19.2	33600	1394
19.0	33000	1381
18.8	32400	1368
18.6	31800	1355
18.4	31200	1343
18.2	30600	1330
18.0	30000	1317
17.8	29400	1304
17.6	28800	1292
17.4	28200	1279
17.2	27600	1266
17.0	27000	1253
16.8	26400	1241
16.6	25800	1228
16.4	25200	1215

STOP

Alliant Unique

Charge
in
grains psi fps

STOP

11.2	36000	1288
11.1	35200	1277
11.0	34500	1267
10.9	33700	1257
10.8	33000	1247
10.7	32200	1237
10.6	31500	1227
10.5	30800	1217
10.4	30000	1206
10.3	29300	1196
10.2	28500	1186
10.1	27800	1176
10.0	27000	1166
9.9	26300	1156
9.8	25600	1146

STOP

Hodgdon HS-7

Charge
in
grains psi fps

STOP

15.3	36000	1387
15.2	35400	1378
15.1	34800	1369
15.0	34200	1360
14.9	33600	1351
14.8	33100	1342
14.7	32500	1333
14.6	31900	1324
14.5	31300	1315
14.4	30800	1306
14.3	30200	1297
14.2	29600	1288
14.1	29000	1279
14.0	28500	1270

STOP

Hodgdon Titegroup


Charge
in
grains psi fps

STOP

8.8	36000	1230
8.7	35200	1218
8.6	34400	1207
8.5	33600	1195
8.4	32800	1184
8.3	32000	1172
8.2	31200	1161
8.1	30400	1149
8.0	29600	1138
7.9	28800	1126
7.8	28000	1115

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 cover page for this
grain weight for O.A.L.



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page 4.

IMR 800X			
Charge in grains psi fps			
STOP			
13.9	36000	1464	
13.7	35100	1448	
13.5	34300	1432	
13.3	33500	1416	
13.1	32600	1400	
12.9	31800	1384	
12.7	31000	1368	
12.5	30100	1352	
12.3	29300	1336	
12.1	28500	1320	
11.9	27600	1304	
11.7	26800	1288	
11.5	26000	1273	
STOP			

start here

IMR SR4756			
Charge in grains psi fps			
STOP			
12.0	36000	1297	
11.9	35300	1287	
11.8	34600	1277	
11.7	33900	1267	
11.6	33200	1257	
11.5	32600	1248	
11.4	31900	1238	
11.3	31200	1228	
11.2	30500	1218	
11.1	29800	1208	
11.0	29200	1199	
10.9	28500	1189	
10.8	27800	1179	
10.7	27100	1169	
10.6	26400	1159	
10.5	25800	1150	
STOP			

start here

VihtaVuori N105			
Charge in grains psi fps			
STOP			
15.4	36000	1461	
15.2	35200	1448	
15.0	34500	1435	
14.8	33800	1422	
14.6	33100	1409	
14.4	32400	1396	
14.2	31700	1384	
14.0	30900	1371	
13.8	30200	1358	
13.6	29500	1345	
13.4	28800	1332	
13.2	28100	1319	
13.0	27400	1307	
STOP			

start here

VihtaVuori N350			
Charge in grains psi fps			
STOP			
11.6	36000	1284	
11.5	35200	1274	
11.4	34400	1264	
11.3	33600	1255	
11.2	32800	1245	
11.1	32000	1235	
11.0	31200	1226	
10.9	30400	1216	
10.8	29600	1206	
10.7	28800	1197	
10.6	28000	1187	
10.5	27200	1178	
STOP			

start here

Winchester 296			
Charge in grains psi fps			
STOP			
23.7	36000	1593	
23.5	35100	1576	
23.3	34200	1560	
23.1	33300	1544	
22.9	32400	1527	
22.7	31500	1511	
22.5	30700	1495	
22.3	29800	1479	
22.1	28900	1462	
21.9	28000	1446	
21.7	27100	1430	
21.5	26300	1414	
STOP			

start here

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Over All Length
increases pressure
greatly.
See cover page for this
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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.

start here

Accurate Arms XMP5744		
Charge in grains	psi	fps
STOP		
23.2	36000	1390
23.0	35300	1378
22.8	34700	1366
22.6	34000	1354
22.4	33400	1342
22.2	32700	1330
22.0	32100	1319
21.8	31400	1307
21.6	30800	1295
21.4	30200	1283
21.2	29500	1271
21.0	28900	1260
20.8	28200	1248
20.6	27600	1236
20.4	26900	1224
20.2	26300	1212
20.0	25700	1201
STOP		

start here

Alliant 2400		
Charge in grains	psi	fps
STOP		
20.0	36000	1450
19.8	35400	1438
19.6	34900	1426
19.4	34400	1415
19.2	33900	1403
19.0	33300	1392
18.8	32800	1380
18.6	32300	1369
18.4	31800	1357
18.2	31200	1346
18.0	30700	1334
17.8	30200	1322
17.6	29700	1311
17.4	29100	1299
17.2	28600	1288
17.0	28100	1276
16.8	27600	1265
16.6	27000	1253
16.4	26500	1242
STOP		

start here

Alliant Unique		
Charge in grains	psi	fps
STOP		
11.4	36000	1300
11.3	35300	1291
11.2	34700	1282
11.1	34100	1273
11.0	33400	1265
10.9	32800	1256
10.8	32200	1247
10.7	31500	1239
10.6	30900	1230
10.5	30300	1221
10.4	29600	1213
10.3	29000	1204
10.2	28400	1195
10.1	27700	1187
10.0	27100	1178
9.9	26500	1169
9.8	25900	1161
STOP		

start here

Hodgdon HS-7		
Charge in grains	psi	fps
STOP		
15.3	36000	1392
15.2	35400	1384
15.1	34900	1376
15.0	34400	1368
14.9	33900	1361
14.8	33400	1353
14.7	32900	1345
14.6	32300	1338
14.5	31800	1330
14.4	31300	1322
14.3	30800	1315
14.2	30300	1307
14.1	29800	1299
14.0	29300	1292
STOP		

start here

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
8.9	36000	1241
8.8	35200	1230
8.7	34400	1220
8.6	33700	1210
8.5	32900	1199
8.4	32100	1189
8.3	31400	1179
8.2	30600	1169
8.1	29800	1158
8.0	29100	1148
7.9	28300	1138
7.8	27600	1128
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 cover page for this grain weight for O.A.L.

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or Red
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All
pressures
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psi not
C.U.P. See
page 4.

IMR 800X			
Charge in grains	psi	fps	
STOP			
13.6	36000	1458	
13.5	35500	1449	
13.3	34700	1433	
13.1	33900	1417	
12.9	33000	1401	
12.7	32200	1384	
12.5	31300	1368	
12.3	30500	1352	
12.1	29700	1335	
11.9	28800	1319	
11.7	28000	1303	
11.5	27200	1287	
STOP			

start here

IMR SR4756			
Charge in grains	psi	fps	
STOP			
12.1	36000	1316	
12.0	35400	1307	
11.9	34900	1299	
11.8	34300	1290	
11.7	33800	1282	
11.6	33200	1273	
11.5	32700	1265	
11.4	32100	1256	
11.3	31600	1248	
11.2	31000	1240	
11.1	30500	1231	
11.0	29900	1223	
10.9	29400	1214	
10.8	28800	1206	
10.7	28300	1197	
10.6	27700	1189	
10.5	27200	1181	
STOP			

start here

VihtaVuori N105			
Charge in grains	psi	fps	
STOP			
15.5	36000	1467	
15.4	35400	1459	
15.2	34400	1443	
15.0	33400	1427	
14.8	32400	1411	
14.6	31400	1395	
14.4	30400	1379	
14.2	29400	1363	
14.0	28400	1347	
13.8	27400	1331	
13.6	26400	1315	
13.4	25400	1299	
13.2	24400	1283	
13.0	23400	1267	
STOP			

start here

VihtaVuori N350			
Charge in grains	psi	fps	
STOP			
11.7	36000	1299	
11.6	35300	1291	
11.5	34600	1283	
11.4	34000	1275	Start Load
11.3	33300	1267	
11.2	32700	1259	
11.1	32000	1251	
11.0	31300	1243	
10.9	30700	1235	
10.8	30000	1227	
10.7	29400	1219	
10.6	28700	1211	
10.5	28100	1204	
STOP			

start here

Winchester 296			
State	Charge in grains	psi	fps
	STOP		
	23.7	36000	1597
	23.5	35100	1582
	23.3	34300	1567
	23.1	33500	1553
	22.9	32700	1538
	22.7	31900	1523
	22.5	31000	1509
	22.3	30200	1494
	22.1	29400	1479
	21.9	28600	1465
	21.7	27800	1450
	21.5	27000	1436
STOP			

start here



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Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.

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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page 4.

Accurate Arms XMP5744			
Charge in grains	psi	fps	
STOP			
23.2	36000	1347	
23.0	35200	1336	
22.8	34400	1326	
22.6	33600	1315	
22.4	32900	1305	
22.2	32100	1294	
22.0	31300	1284	
21.8	30500	1273	
21.6	29800	1263	
21.4	29000	1252	
21.2	28200	1242	
21.0	27400	1231	
20.8	26700	1221	
20.6	25900	1210	
20.4	25100	1200	
20.2	24300	1189	
20.0	23600	1179	
STOP			

start here

Alliant 2400			
	Charge in grains	psi	fps
* 			

start here

* Compressed load.

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.4	36000	1227	
11.3	35200	1221	
11.2	34400	1216	
11.1	33600	1211	
11.0	32800	1206	
10.9	32000	1201	
10.8	31300	1196	
10.7	30500	1191	
10.6	29700	1186	
10.5	28900	1180	
10.4	28100	1175	
10.3	27400	1170	
10.2	26600	1165	
10.1	25800	1160	
10.0	25000	1155	
9.9	24200	1150	
9.8	23500	1145	
STOP			

start here

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
15.7	36000	1396	
15.6	35400	1388	
15.5	34800	1381	
15.4	34300	1373	
15.3	33700	1366	
15.2	33200	1358	
15.1	32600	1351	
15.0	32000	1344	
14.9	31500	1336	
14.8	30900	1329	
14.7	30400	1321	
14.6	29800	1314	
14.5	29200	1307	
14.4	28700	1299	
14.3	28100	1292	
14.2	27600	1284	
14.1	27000	1277	
14.0	26500	1270	
STOP			

start here

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
9.4	36000	1224
9.3	35200	1216
9.2	34500	1209
9.1	33800	1202
9.0	33000	1194
8.9	32300	1187
8.8	31600	1180
8.7	30800	1172
8.6	30100	1165
8.5	29400	1158
8.4	28600	1150
8.3	27900	1143
8.2	27200	1136
8.1	26400	1128
8.0	25700	1121
7.9	25000	1114
7.8	24300	1107
STOP		

start here

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Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.

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.

.44 Remington Magnum

MidwayUSA 240 gr JFP



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or Red
zones.

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psi not
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page 4.

IMR 800X			
Charge in grains	psi	fps	
STOP			
14.4	36000	1377	
14.3	35500	1372	
14.1	34600	1362	
13.9	33700	1353	
13.7	32800	1343	
13.5	31900	1333	
13.3	31000	1324	
13.1	30100	1314	
12.9	29200	1305	
12.7	28300	1295	
12.5	27400	1285	
12.3	26500	1276	
12.1	25600	1266	
11.9	24700	1257	
11.7	23800	1247	
11.5	22900	1238	
STOP			

start here

IMR SR4756			
Charge in grains	psi	fps	
STOP			
12.3	36000	1298	
12.2	35300	1291	
12.1	34700	1284	
12.0	34100	1278	
11.9	33400	1271	
11.8	32800	1264	
11.7	32200	1258	
11.6	31500	1251	
11.5	30900	1245	
11.4	30300	1238	
11.3	29600	1231	
11.2	29000	1225	
11.1	28400	1218	
11.0	27700	1212	
10.9	27100	1205	
10.8	26500	1198	
10.7	25800	1192	
10.6	25200	1185	
10.5	24600	1179	
STOP			

start here

VihtaVuori N105			
Charge in grains	psi	fps	
STOP			
16.2	36000	1367	
16.0	34800	1354	
15.8	33700	1341	
15.6	32600	1329	
15.4	31500	1316	
15.2	30400	1303	
15.0	29300	1291	
14.8	28200	1278	
14.6	27100	1266	
14.4	25900	1253	
14.2	24800	1240	
14.0	23700	1228	
13.8	22600	1215	
13.6	21500	1202	
13.4	20400	1190	
13.2	19300	1177	
13.0	18200	1165	
STOP			

start here

VihtaVuori N350			
Charge in grains	psi	fps	
STOP			
12.3	36000	1270	
12.2	35300	1263	
12.1	34600	1256	
12.0	33900	1249	
11.9	33300	1242	
11.8	32600	1235	
11.7	31900	1228	
11.6	31200	1221	
11.5	30600	1214	
11.4	29900	1207	
11.3	29200	1200	
11.2	28600	1193	
11.1	27900	1186	
11.0	27200	1179	
10.9	26500	1172	
10.8	25900	1165	
10.7	25200	1158	
10.6	24500	1151	
10.5	23900	1144	
STOP			

start here

Winchester 296			
Charge in grains	psi	fps	
STOP			
24.3	36000	1597	1583
24.1	35300	1583	
23.9	34600	1570	
23.7	34000	1557	1544
23.5	33300	1544	
23.3	32600	1531	
23.1	32000	1518	1505
22.9	31300	1505	
22.7	30600	1492	
22.5	30000	1479	1466
22.3	29300	1466	
22.1	28600	1453	
21.9	28000	1440	1427
21.7	27300	1427	
21.5	26700	1414	
STOP			

start here

Reducing Cartridge Over All
Length increases pressure
greatly.
See cover page for this grain
weight for O.A.L.



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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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Accurate Arms XMP5744		
Charge in grains	psi	fps
STOP		
23.3	36000	1392
23.2	35600	1384
23.0	34900	1370
22.8	34100	1355
22.6	33400	1341
22.4	32700	1327
22.2	32000	1312
22.0	31300	1298
21.8	30500	1283
21.6	29800	1269
21.4	29100	1254
21.2	28400	1240
21.0	27700	1226
20.8	26900	1211
20.6	26200	1197
20.4	25500	1182
20.2	24800	1168
20.0	24100	1154
STOP		

start here

Alliant 2400		
Charge in grains	psi	fps
STOP		
20.6	31800	1406
20.5	31500	1400
20.2	30700	1382
19.9	29900	1364
19.6	29200	1347
19.3	28400	1329
19.0	27600	1311
18.7	26800	1294
18.4	26100	1276
18.1	25300	1258
17.8	24500	1241
17.5	23700	1223
17.2	23000	1205
16.9	22200	1188
16.6	21400	1170
16.3	20600	1152
16.0	19900	1135
STOP		

start here

*Compressed load.

Alliant Unique		
Charge in grains	psi	fps
STOP		
11.1	36000	1205
11.0	35300	1200
10.9	34700	1196
10.8	34000	1191
10.7	33400	1187
10.6	32800	1182
10.5	32100	1178
10.4	31500	1173
10.3	30800	1169
10.2	30200	1164
10.1	29600	1160
10.0	28900	1155
9.9	28300	1151
9.8	27700	1147
STOP		

start here

Hodgdon HS-7		
Charge in grains	psi	fps
STOP		
15.4	36000	1426
15.3	35500	1417
15.2	35000	1408
15.1	34500	1399
15.0	34000	1390
14.9	33500	1382
14.8	33000	1373
14.7	32500	1364
14.6	32000	1355
14.5	31500	1346
14.4	31000	1338
14.3	30500	1329
14.2	30000	1320
14.1	29500	1311
14.0	29100	1303
STOP		

start here

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
9.1	36000	1173
9.0	35200	1167
8.9	34500	1162
8.8	33800	1157
8.7	33100	1152
8.6	32300	1147
8.5	31600	1142
8.4	30900	1137
8.3	30200	1132
8.2	29400	1127
8.1	28700	1122
8.0	28000	1117
7.9	27300	1112
7.8	26600	1107
STOP		

start here



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Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.

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.



 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 800X			
Charge in grains	psi	fps	
STOP			
14.2	36000	1315	
14.1	35500	1312	
13.9	34700	1306	

13.7	33900	1301	
13.5	33100	1296	
13.3	32300	1290	
13.1	31400	1285	
12.9	30600	1279	
12.7	29800	1274	
12.5	29000	1269	
12.3	28100	1263	
12.1	27300	1258	
11.9	26500	1252	
11.7	25700	1247	
11.5	24900	1242	
STOP			

start here

IMR SR4756			
Charge in grains	psi	fps	
		STOP	
12.3	36000	1280	
12.2	35400	1274	
12.1	34900	1268	
12.0	34400	1262	
<hr/>			
11.9	33800	1256	
11.8	33300	1250	
11.7	32800	1244	
11.6	32300	1238	
11.5	31700	1232	
11.4	31200	1226	
11.3	30700	1220	
11.2	30100	1214	
11.1	29600	1208	
11.0	29100	1202	
10.9	28600	1196	
10.8	28000	1190	
10.7	27500	1184	
10.6	27000	1178	
10.5	26500	1172	
STOP			

start here

VihtaVuori N105			
Charge in grains	psi	fps	
STOP			
16.2	36000	1256	
16.0	34800	1249	

15.8	33700	1243	
15.6	32600	1237	
15.4	31500	1231	
15.2	30400	1225	
15.0	29300	1219	
14.8	28200	1213	
14.6	27100	1207	
14.4	26000	1200	
14.2	24900	1194	
14.0	23800	1188	
13.8	22700	1182	
13.6	21600	1176	
13.4	20500	1170	
13.2	19400	1164	
13.0	18300	1158	
STOP			

start here

VihtaVuori N350			
Charge in grains	psi	fps	
STOP			
12.0	36000	1245	
11.9	35300	1237	
11.8	34600	1230	

11.7	33900	1223	
11.6	33200	1215	
11.5	32600	1208	
11.4	31900	1201	
11.3	31200	1194	
11.2	30500	1186	
11.1	29800	1179	
11.0	29200	1172	
10.9	28500	1165	
10.8	27800	1157	
10.7	27100	1150	
10.6	26400	1143	
10.5	25800	1136	
STOP			


start here

Winchester 296			
Charge in grains	psi	fps	
STOP			
24.1	36000	1625	
23.9	35200	1609	
23.7	34400	1593	

23.5	33600	1578	
23.3	32800	1562	
23.1	32000	1546	
22.9	31200	1531	
22.7	30400	1515	
22.5	29600	1500	
22.3	28800	1484	
22.1	28000	1468	
21.9	27200	1453	
21.7	26400	1437	
21.5	25700	1422	
STOP			

start here

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

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Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.

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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page 4.

start here

Accurate Arms XMP5744			
Charge in grains	psi	fps	
STOP			
23.0	36000	1385	
22.8	35200	1372	
22.6	34500	1360	
22.4	33800	1348	
22.2	33100	1336	
22.0	32400	1324	
21.8	31700	1312	
21.6	31000	1300	
21.4	30200	1288	
21.2	29500	1276	
21.0	28800	1264	
20.8	28100	1252	
20.6	27400	1240	
20.4	26700	1228	
20.2	26000	1216	
20.0	25300	1204	
STOP			

start here

Alliant 2400		
Charge in grains	psi	fps
STOP		
19.9	36000	1453
19.8	35700	1447
19.6	35100	1435
19.4	34600	1423
19.2	34000	1411
19.0	33500	1399
18.8	33000	1387
18.6	32400	1375
18.4	31900	1363
18.2	31300	1351
18.0	30800	1339
17.8	30200	1328
17.6	29700	1316
17.4	29200	1304
17.2	28600	1292
17.0	28100	1280
16.8	27500	1268
16.6	27000	1256
16.4	26400	1244
STOP		

start here

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.0	36000	1282	
10.9	35400	1274	
10.8	34800	1267	
10.7	34200	1259	
10.6	33600	1252	
10.5	33000	1244	
10.4	32500	1237	
10.3	31900	1229	
10.2	31300	1222	
10.1	30700	1214	
10.0	30100	1207	
9.9	29500	1199	
9.8	29000	1192	
STOP			

start here

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
15.0	36000	1379	
14.9	35300	1370	
14.8	34600	1362	
14.7	33900	1354	
14.6	33300	1346	
14.5	32600	1338	
14.4	31900	1329	
14.3	31300	1321	
14.2	30600	1313	
14.1	29900	1305	
14.0	29300	1297	
STOP			

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.

start here

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
8.9	36000	1228	
8.8	35200	1219	
8.7	34500	1211	
8.6	33800	1202	
8.5	33000	1194	
8.4	32300	1185	
8.3	31600	1177	
8.2	30900	1168	
8.1	30100	1160	
8.0	29400	1151	
7.9	28700	1143	
7.8	28000	1135	
STOP			

Use
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All
pressures
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psi not
C.U.P. See
page 4.

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IMR 800X		
Charge in grains	psi	fps
STOP		
13.7	36000	1431
13.5	35000	1417
13.3	34100	1403
13.1	33200	1389
12.9	32300	1375
12.7	31400	1361
12.5	30500	1348
12.3	29600	1334
12.1	28700	1320
11.9	27800	1306
11.7	26900	1292
11.5	26000	1279
STOP		

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.

IMR SR4756		
Charge in grains	psi	fps
STOP		
12.1	36000	1320
12.0	35400	1311
11.9	34800	1303
11.8	34200	1295
11.7	33600	1286
11.6	33000	1278
11.5	32400	1270
11.4	31800	1261
11.3	31300	1253
11.2	30700	1245
11.1	30100	1236
11.0	29500	1228
10.9	28900	1220
10.8	28300	1211
10.7	27700	1203
10.6	27100	1195
10.5	26600	1187
STOP		

VihtaVuori N105		
Charge in grains	psi	fps
STOP		
15.0	36000	1421
14.9	35400	1414
14.8	34800	1408
14.7	34300	1402
14.6	33700	1396
14.5	33200	1389
14.4	32600	1383
14.3	32000	1377
14.2	31500	1371
14.1	30900	1364
14.0	30400	1358
13.9	29800	1352
13.8	29200	1346
13.7	28700	1339
13.6	28100	1333
13.5	27600	1327
13.4	27000	1321
13.3	26400	1314
13.2	25900	1308
STOP		

VihtaVuori N350		
Charge in grains	psi	fps
STOP		
11.6	36000	1283
11.5	35200	1275
11.4	34400	1267
11.3	33600	1259
11.2	32800	1251
11.1	32000	1243
11.0	31200	1235
10.9	30400	1227
10.8	29600	1219
10.7	28800	1211
10.6	28000	1203
10.5	27300	1196
STOP		

Winchester 296		
Charge in grains	psi	fps
STOP		
23.3	36000	1596
23.2	35600	1590
23.1	35200	1584
23.0	34800	1578
22.9	34400	1572
22.8	34000	1566
22.7	33600	1560
22.6	33200	1554
22.5	32800	1548
22.4	32500	1542
22.3	32100	1536
22.2	31700	1530
22.1	31300	1524
22.0	30900	1518
21.9	30500	1512
21.8	30100	1506
21.7	29700	1500
21.6	29300	1494
21.5	29000	1488
STOP		



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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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pressures
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page 4.

Accurate Arms XMP5744		
Charge in grains	psi	fps
STOP		
23.3	36000	1386
23.2	35600	1380
23.0	34900	1368
22.8	34200	1356
22.6	33400	1344
22.4	32700	1332
22.2	32000	1320
22.0	31300	1308
21.8	30600	1296
21.6	29900	1284
21.4	29200	1272
21.2	28400	1260
21.0	27700	1248
20.8	27000	1236
20.6	26300	1224
20.4	25600	1212
20.2	24900	1200
20.0	24200	1188
STOP		

start here

Alliant 2400		
Charge in grains	psi	fps
STOP		
20.3	36000	1448
20.2	35600	1442
19.9	34700	1424
19.6	33800	1406
19.3	32900	1388
19.0	32000	1370
18.7	31100	1352
18.4	30200	1334
18.1	29300	1317
17.8	28400	1299
17.5	27500	1281
17.2	26600	1263
16.9	25700	1245
16.6	24800	1227
16.3	23900	1209
16.0	23000	1192
STOP		

start here

Alliant Unique		
Charge in grains	psi	fps
STOP		
11.0	36000	1290
10.9	35200	1281
10.8	34400	1272
10.7	33700	1264
10.6	32900	1255
10.5	32200	1246
10.4	31400	1238
10.3	30600	1229
10.2	29900	1220
10.1	29100	1212
10.0	28400	1203
9.9	27600	1194
9.8	26900	1186
STOP		

start here


Hodgdon HS-7		
Charge in grains	psi	fps
STOP		
15.4	36000	1402
15.3	35400	1394
15.2	34900	1386
15.1	34300	1378
15.0	33800	1370
14.9	33200	1363
14.8	32700	1355
14.7	32100	1347
14.6	31600	1339
14.5	31000	1331
14.4	30500	1324
14.3	29900	1316
14.2	29400	1308
14.1	28800	1300
14.0	28300	1293
STOP		

start here

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
9.2	36000	1250
9.1	35300	1241
9.0	34600	1232
8.9	33900	1224
8.8	33300	1215
8.7	32600	1206
8.6	31900	1198
8.5	31300	1189
8.4	30600	1180
8.3	29900	1172
8.2	29200	1163
8.1	28600	1154
8.0	27900	1146
7.9	27200	1137
7.8	26600	1129
STOP		

start here


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Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.



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Over All Length
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grain weight for O.A.L.

IMR 800X			
Charge in grains	psi	fps	
STOP			
13.8	36000	1458	
13.7	35500	1450	
13.5	34600	1434	
13.3	33600	1418	
13.1	32700	1402	
12.9	31800	1386	
12.7	30900	1370	
12.5	30000	1354	
12.3	29000	1338	
12.1	28100	1322	
11.9	27200	1306	
11.7	26300	1290	
11.5	25400	1275	
STOP			

IMR SR4756		
Charge in grains	psi	fps
STOP		
12.3	36000	1324
12.2	35500	1316
12.1	35000	1309
12.0	34500	1301
11.9	34000	1294
11.8	33500	1287
11.7	33000	1279
11.6	32500	1272
11.5	32000	1264
11.4	31500	1257
11.3	31000	1250
11.2	30500	1242
11.1	30000	1235
11.0	29500	1227
10.9	29000	1220
10.8	28500	1213
10.7	28000	1205
10.6	27500	1198
10.5	27000	1191
STOP		

VihtaVuori N105			
Charge in grains	psi	fps	
STOP			
15.5	36000	1441	
15.4	35400	1434	
15.2	34300	1420	
15.0	33300	1407	
14.8	32200	1393	
14.6	31100	1379	
14.4	30000	1366	
14.2	28900	1352	
14.0	27900	1339	
13.8	26800	1325	
13.6	25700	1311	
13.4	24600	1298	
13.2	23500	1284	
13.0	22500	1271	
STOP			

VihtaVuori N350			
Charge in grains	psi	fps	
STOP			
11.8	36000	1296	
11.7	35200	1286	
11.6	34400	1277	
11.5	33600	1268	
11.4	32800	1259	
11.3	32000	1250	
11.2	31200	1241	
11.1	30500	1231	
11.0	29700	1223	
10.9	28900	1213	
10.8	28100	1204	
10.7	27300	1195	
10.6	26500	1186	
10.5	25800	1177	
STOP			

Winchester 296			
Charge in grains	psi	fps	
STOP			
23.5	36000	1578	
23.4	35400	1569	
23.3	34900	1561	
23.2	34300	1552	

23.1	33800	1544	
23.0	33200	1535	
22.9	32700	1527	
22.8	32100	1518	
22.7	31600	1510	
22.6	31000	1501	
22.5	30500	1493	
22.4	29900	1484	
22.3	29400	1476	
22.2	28800	1467	
22.1	28300	1459	
22.0	27700	1450	
21.9	27200	1442	
21.8	26600	1433	
21.7	26100	1425	
STOP			



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Accurate Arms XMP5744		
Charge in grains	psi	fps
STOP		
22.7	36000	1362
22.6	35600	1355
22.4	34900	1343
22.2	34200	1330
22.0	33500	1318
21.8	32800	1306
21.6	32000	1293
21.4	31300	1281
21.2	30600	1268
21.0	29900	1256
20.8	29200	1243
20.6	28500	1231
20.4	27800	1218
20.2	27100	1206
20.0	26400	1194
STOP		

start here

Alliant 2400		
Charge in grains	psi	fps
STOP		
19.9	36000	1441
19.8	35700	1435
19.6	35200	1423
19.4	34700	1412
19.2	34200	1400
19.0	33700	1389
18.8	33200	1377
18.6	32700	1366
18.4	32100	1354
18.2	31600	1343
18.0	31100	1331
17.8	30600	1320
17.6	30100	1308
17.4	29600	1297
17.2	29100	1285
17.0	28600	1274
16.8	28100	1262
16.6	27600	1251
16.4	27100	1239
STOP		

start here

Alliant Unique		
Charge in grains	psi	fps
STOP		
10.9	36000	1292
10.8	35400	1283
10.7	34800	1275
10.6	34200	1267
10.5	33700	1259
10.4	33100	1251
10.3	32500	1242
10.2	31900	1234
10.1	31400	1226
10.0	30800	1218
9.9	30200	1210
9.8	29700	1202
STOP		

start here

Hodgdon HS-7		
Charge in grains	psi	fps
STOP		
14.9	36000	1369
14.8	35400	1361
14.7	34900	1353
14.6	34400	1345
14.5	33800	1337
14.4	33300	1329
14.3	32800	1321
14.2	32200	1313
14.1	31700	1305
14.0	31200	1297
STOP		

start here

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
8.7	36000	1237
8.6	35200	1226
8.5	34400	1216
8.4	33700	1206
8.3	32900	1195
8.2	32200	1185
8.1	31400	1175
8.0	30700	1164
7.9	29900	1154
7.8	29200	1144
STOP		

start here



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Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.

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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IMR 800X			
Charge in grains	psi	fps	
STOP			
13.5	36000	1443	start here
13.4	35500	1435	
13.3	35100	1427	
13.2	34600	1419	
13.1	34200	1411	

13.0	33700	1403	start here
12.9	33300	1395	
12.8	32800	1387	
12.7	32400	1379	
12.6	31900	1371	
12.5	31500	1364	
12.4	31100	1356	
12.3	30600	1348	
12.2	30200	1340	
12.1	29700	1332	
12.0	29300	1324	
11.9	28800	1316	
11.8	28400	1308	
11.7	27900	1300	
STOP			


IMR SR4756			
Charge in grains	psi	fps	
STOP			
12.2	36000	1313	start here
12.1	35500	1306	
12.0	35100	1299	
11.9	34700	1292	
11.8	34300	1285	
11.7	33900	1279	
11.6	33500	1272	
11.5	33100	1265	
11.4	32700	1258	
11.3	32200	1252	
11.2	31800	1245	
11.1	31400	1238	
11.0	31000	1231	
10.9	30600	1225	
10.8	30200	1218	
10.7	29800	1211	
10.6	29400	1204	
10.5	29000	1198	
STOP			

VihtaVuori N105			
Charge in grains	psi	fps	
STOP			
15.7	36000	1467	start here
15.6	35500	1459	
15.4	34500	1444	
15.2	33500	1429	
15.0	32500	1414	
14.8	31500	1399	
14.6	30500	1383	
14.4	29500	1368	
14.2	28500	1353	
14.0	27500	1338	
13.8	26500	1323	
13.6	25500	1308	
13.4	24500	1293	
13.2	23500	1278	
13.0	22500	1263	
STOP			

VihtaVuori N350			
Charge in grains	psi	fps	
STOP			
11.3	36000	1279	start here
11.2	35100	1271	
11.1	34300	1263	
11.0	33400	1255	
10.9	32600	1247	
10.8	31700	1239	
10.7	30900	1231	
10.6	30000	1223	
10.5	29200	1216	
STOP			

Winchester 296			
Charge in grains	psi	fps	start here
STOP			
23.7	36000	1597	
23.5	35100	1581	
23.3	34200	1566	
23.1	33300	1551	
22.9	32400	1536	
22.7	31500	1521	
22.5	30600	1506	
22.3	29700	1491	
22.1	28800	1476	
21.9	27900	1461	
21.7	27000	1446	
21.5	26200	1431	
STOP			


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Reducing Cartridge
Over All Length
increases pressure
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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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Accurate Arms XMP5744		
Charge in grains	psi	fps
STOP		
23.3	36000	1385
23.2	35700	1379
23.0	35100	1368
22.8	34500	1357
22.6	33900	1345
22.4	33300	1334
22.2	32700	1323
22.0	32100	1312
21.8	31500	1301
21.6	30900	1290
21.4	30300	1279
21.2	29700	1267
21.0	29100	1256
20.8	28500	1245
20.6	27900	1234
20.4	27300	1223
20.2	26700	1212
20.0	26200	1201
STOP		

start here

Alliant 2400			
Charge in grains	psi	fps	
STOP			
20.3	36000	1450	
20.2	35700	1444	
19.9	34900	1427	

19.6	34100	1410	
19.3	33300	1393	
19.0	32400	1376	
18.7	31600	1359	
18.4	30800	1342	
18.1	30000	1325	
17.8	29200	1308	
17.5	28400	1291	
17.2	27600	1274	
16.9	26800	1257	
16.6	26000	1240	
16.3	25200	1223	
16.0	24400	1207	
STOP			

start here

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.0	36000	1291	
10.9	35400	1282	
10.8	34800	1274	
10.7	34200	1266	

10.6	33600	1258	
10.5	33000	1249	
10.4	32500	1241	
10.3	31900	1233	
10.2	31300	1225	
10.1	30700	1216	
10.0	30100	1208	
9.9	29500	1200	
9.8	29000	1192	
STOP			

start here

Hodgdon HS-7			
	Charge in grains	psi	fps
	STOP		
start here	15.3	36000	1385
	15.2	35400	1377
	15.1	34900	1369
	15.0	34400	1362
	14.9	33900	1354
	14.8	33400	1347
	14.7	32900	1339
	14.6	32300	1332
	14.5	31800	1324
	14.4	31300	1317
	14.3	30800	1309
	14.2	30300	1302
	14.1	29800	1294
	14.0	29300	1287
STOP			

start here

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.0	36000	1248	
8.9	35200	1238	
8.8	34500	1228	

8.7	33800	1218	
8.6	33000	1208	
8.5	32300	1198	
8.4	31600	1189	
8.3	30800	1179	
8.2	30100	1169	
8.1	29400	1159	
8.0	28600	1149	
7.9	27900	1139	
7.8	27200	1130	
STOP			

start here

Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.

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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or Red
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page 4.

IMR 800X		
Charge in grains	psi	fps
STOP		
13.8	36000	1453
13.7	35500	1445
13.5	34600	1429
13.3	33700	1414
13.1	32800	1398
12.9	31800	1382
12.7	30900	1367
12.5	30000	1351
12.3	29100	1336
12.1	28200	1320
11.9	27300	1305
11.7	26400	1289
11.5	25500	1274
STOP		

start here

IMR SR4756		
Charge in grains	psi	fps
STOP		
12.2	36000	1315
12.1	35400	1306
12.0	34900	1298
11.9	34300	1290
11.8	33800	1282
11.7	33200	1274
11.6	32700	1265
11.5	32200	1257
11.4	31600	1249
11.3	31100	1241
11.2	30500	1233
11.1	30000	1225
11.0	29500	1216
10.9	28900	1208
10.8	28400	1200
10.7	27800	1192
10.6	27300	1184
10.5	26800	1176
STOP		

start here

VihtaVuori N105		
Charge in grains	psi	fps
STOP		
15.7	36000	1463
15.6	35400	1455
15.4	34400	1440
15.2	33300	1425
15.0	32300	1411
14.8	31300	1396
14.6	30200	1381
14.4	29200	1366
14.2	28100	1351
14.0	27100	1337
13.8	26000	1322
13.6	25000	1307
13.4	23900	1292
13.2	22900	1277
13.0	21900	1263
STOP		

start here

VihtaVuori N350		
Charge in grains	psi	fps
STOP		
11.7	36000	1292
11.6	35200	1283
11.5	34500	1274
11.4	33800	1266
11.3	33100	1257
11.2	32300	1248
11.1	31600	1240
11.0	30900	1231
10.9	30200	1222
10.8	29400	1214
10.7	28700	1205
10.6	28000	1196
10.5	27300	1188
STOP		

start here

Winchester 296		
Charge in grains	psi	fps
STOP		
23.9	36000	1601
23.7	35200	1588
23.5	34500	1575
23.3	33700	1562
23.1	33000	1549
22.9	32200	1536
22.7	31500	1524
22.5	30700	1511
22.3	30000	1498
22.1	29200	1485
21.9	28500	1472
21.7	27700	1459
21.5	27000	1447
STOP		

start here

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.



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or Red
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psi not
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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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or Red
zones.


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

start here

Accurate Arms XMP5744			
Charge in grains	psi	fps	
STOP			
22.7	36000	1372	
22.6	35600	1366	
22.4	35000	1354	
22.2	34300	1343	
22.0	33600	1331	
21.8	33000	1320	
21.6	32300	1308	
21.4	31600	1296	
21.2	31000	1285	
21.0	30300	1273	
20.8	29600	1262	
20.6	29000	1250	
20.4	28300	1239	
20.2	27600	1227	
20.0	27000	1216	
STOP			

start here

Alliant 2400			
Charge in grains	psi	fps	
STOP			
19.1	36000	1418	
19.0	35600	1411	
18.8	34900	1398	
18.6	34300	1385	

18.4	33600	1372	
18.2	32900	1359	
18.0	32300	1347	
17.8	31600	1334	
17.6	30900	1321	
17.4	30200	1308	
17.2	29600	1295	
17.0	28900	1282	
16.8	28200	1269	
16.6	27600	1256	
16.4	26900	1243	
16.2	26200	1230	
16.0	25600	1218	
STOP			

start here

Alliant Unique			
Charge in grains	psi	fps	
STOP			
10.8	36000	1270	
10.7	35200	1261	
10.6	34400	1253	
10.5	33600	1245	
10.4	32800	1236	
10.3	32100	1228	
10.2	31300	1220	
10.1	30500	1211	
10.0	29700	1203	
9.9	28900	1195	
9.8	28200	1187	
STOP			

start here


Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
14.8	36000	1371	
14.7	35300	1362	
14.6	34600	1353	

14.5	34000	1344	
14.4	33300	1335	
14.3	32600	1326	
14.2	32000	1317	
14.1	31300	1308	
14.0	30700	1299	
STOP			

start here

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
8.6	36000	1221	
8.5	35200	1211	
8.4	34400	1202	
8.3	33600	1192	
8.2	32900	1183	
8.1	32100	1173	
8.0	31300	1164	
7.9	30500	1154	
7.8	29800	1145	
STOP			


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or Red
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pressures
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psi not
C.U.P. See
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Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.




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 800X		
Charge in grains	psi	fps
STOP		
13.2	36000	1435
13.1	35500	1426
13.0	35000	1418
12.9	34500	1410
12.8	34000	1401
12.7	33500	1393
12.6	33100	1385
12.5	32600	1376
12.4	32100	1368
12.3	31600	1360
12.2	31100	1352
12.1	30600	1343
12.0	30200	1335
11.9	29700	1327
11.8	29200	1318
11.7	28700	1310
11.6	28200	1302
11.5	27800	1294
STOP		

start here

IMR SR4756		
Charge in grains	psi	fps
STOP		
11.9	36000	1309
11.8	35500	1301
11.7	35000	1294
11.6	34500	1286
11.5	34000	1279
11.4	33500	1272
11.3	33000	1264
11.2	32600	1257
11.1	32100	1250
11.0	31600	1242
10.9	31100	1235
10.8	30600	1228
10.7	30100	1220
10.6	29600	1213
10.5	29200	1206
STOP		

start here

VihtaVuori N105		
Charge in grains	psi	fps
STOP		
14.9	36000	1421
14.8	35400	1414
14.7	34800	1407
14.6	34300	1400
14.5	33700	1393
14.4	33200	1386
14.3	32600	1379
14.2	32000	1373
14.1	31500	1366
14.0	30900	1359
13.9	30400	1352
13.8	29800	1345
13.7	29300	1338
13.6	28700	1332
13.5	28100	1325
13.4	27600	1318
13.3	27000	1311
13.2	26500	1304
13.1	25900	1297
STOP		

start here

VihtaVuori N350		
Charge in grains	psi	fps
STOP		
11.2	36000	1269
11.1	35100	1261
11.0	34200	1253
10.9	33400	1245
10.8	32500	1237
10.7	31700	1229
10.6	30800	1221
10.5	30000	1213
STOP		

start here

Reducing
Cartridge Over All
Length increases
pressure greatly.
See cover page for
this grain weight
for O.A.L.

Winchester 296		
Charge in grains	psi	fps
STOP		
23.5	36000	1598
23.4	35500	1591
23.3	35100	1584
23.2	34600	1577
23.1	34200	1570
23.0	33800	1563
22.9	33300	1556
22.8	32900	1549
22.7	32500	1542
22.6	32000	1535
22.5	31600	1528
22.4	31200	1521
22.3	30700	1514
22.2	30300	1507
22.1	29900	1500
22.0	29400	1493
21.9	29000	1486
21.8	28600	1479
21.7	28100	1472
STOP		

start here


Use
**extreme
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or Red
zones.


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

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pressures
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psi not
C.U.P. See
page 4.

Accurate Arms XMP5744			
Charge in grains	psi	fps	
STOP			
23.3	36000	1399	
23.2	35600	1393	
23.0	35000	1381	
22.8	34300	1370	
22.6	33700	1358	
22.4	33000	1347	
22.2	32400	1335	
22.0	31700	1324	
21.8	31100	1312	
21.6	30400	1301	
21.4	29800	1289	
21.2	29100	1278	
21.0	28500	1266	
20.8	27800	1255	
20.6	27200	1243	
20.4	26500	1232	
20.2	25900	1220	
20.0	25300	1209	
STOP			

Alliant 2400			
Charge in grains	psi	fps	
STOP			
20.4	36000	1468	
20.2	35400	1455	
19.9	34500	1437	

19.6	33700	1418	
19.3	32800	1400	
19.0	32000	1382	
18.7	31100	1363	
18.4	30300	1345	
18.1	29400	1326	
17.8	28600	1308	
17.5	27700	1290	
17.2	26900	1271	
16.9	26000	1253	
16.6	25200	1234	
16.3	24300	1216	
16.0	23500	1198	
STOP			

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.2	36000	1292	
11.1	35300	1284	
11.0	34700	1276	

10.9	34000	1268	
10.8	33400	1260	
10.7	32800	1252	
10.6	32100	1244	
10.5	31500	1236	
10.4	30900	1228	
10.3	30200	1220	
10.2	29600	1212	
10.1	29000	1204	
10.0	28300	1196	
9.9	27700	1188	
9.8	27100	1181	
STOP			

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
15.1	36000	1380	
15.0	35200	1370	
14.9	34500	1361	
14.8	33800	1352	
14.7	33100	1343	
14.6	32400	1334	
14.5	31700	1325	
14.4	31000	1316	
14.3	30300	1307	
14.2	29600	1298	
14.1	28900	1289	
14.0	28200	1280	
STOP			

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.0	36000	1256	
8.9	35300	1246	
8.8	34700	1236	
8.7	34000	1226	
8.6	33400	1216	
8.5	32700	1206	
8.4	32100	1196	
8.3	31500	1186	
8.2	30800	1176	
8.1	30200	1166	
8.0	29500	1156	
7.9	28900	1146	
7.8	28300	1137	
STOP			

Use
extreme
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when
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or Red
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pressures
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psi not
C.U.P. See
page 4.

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Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.



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

IMR 800X			
Charge in grains	psi	fps	
STOP			
13.7	36000	1459	
13.5	35100	1443	
13.3	34200	1427	
13.1	33400	1412	
12.9	32500	1396	
12.7	31700	1380	
12.5	30800	1365	
12.3	30000	1349	
12.1	29100	1333	
11.9	28300	1318	
11.7	27400	1302	
11.5	26600	1287	
STOP			

start here

IMR SR4756		
Charge in grains	psi	fps
STOP		
12.2	36000	1317
12.1	35500	1309
12.0	35000	1301
11.9	34500	1294
11.8	34000	1286
11.7	33500	1278
11.6	33000	1271
11.5	32500	1263
11.4	32000	1255
11.3	31500	1248
11.2	31000	1240
11.1	30500	1232
11.0	30000	1225
10.9	29500	1217
10.8	29000	1209
10.7	28500	1202
10.6	28000	1194
10.5	27500	1187
STOP		

start here

VihtaVuori N105			
Charge in grains	psi	fps	
STOP			
15.9	36000	1460	
15.8	35500	1452	
15.6	34600	1437	

15.4	33600	1422	
15.2	32700	1408	
15.0	31800	1393	
14.8	30800	1378	
14.6	29900	1363	
14.4	29000	1348	
14.2	28000	1333	
14.0	27100	1319	
13.8	26200	1304	
13.6	25200	1289	
13.4	24300	1274	
13.2	23400	1259	
13.0	22500	1245	
STOP			

start here

VihtaVuori N350			
Charge in grains	psi	fps	
STOP			
11.6	36000	1284	
11.5	35100	1274	
11.4	34300	1265	
11.3	33500	1256	
11.2	32700	1247	
11.1	31900	1238	
11.0	31100	1229	
10.9	30300	1220	
10.8	29500	1211	
10.7	28700	1202	
10.6	27900	1193	
10.5	27100	1184	
STOP			

start here

Winchester 296			
Charge in grains	psi	fps	
		STOP	
23.9	36000	1615	start here
23.7	35100	1598	
23.5	34300	1582	
23.3	33400	1565	
23.1	32600	1549	
22.9	31700	1532	
22.7	30900	1516	
22.5	30100	1500	
22.3	29200	1483	
22.1	28400	1467	
21.9	27500	1450	
21.7	26700	1434	
21.5	25900	1418	
STOP			

start here

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.

Use
extreme
caution
when
loading in
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or Red
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pressures
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psi not
C.U.P. See
page 4.

Accurate Arms XMP5744			
Charge in grains	psi	fps	
STOP			
23.4	36000	1389	
23.2	35300	1377	
23.0	34600	1365	
22.8	33900	1354	
22.6	33200	1342	
22.4	32500	1330	
22.2	31800	1319	
22.0	31100	1307	
21.8	30400	1295	
21.6	29700	1284	
21.4	29000	1272	
21.2	28300	1260	
21.0	27600	1249	
20.8	26900	1237	
20.6	26200	1225	
20.4	25500	1214	
20.2	24800	1202	
20.0	24200	1191	
STOP			

start here

start here

Alliant 2400			
Charge in grains	psi	fps	
STOP			
20.5	36000	1460	
20.2	35200	1443	
19.9	34400	1426	
19.6	33600	1410	
19.3	32800	1393	
19.0	32000	1376	
18.7	31200	1360	
18.4	30400	1343	
18.1	29600	1326	
17.8	28800	1310	
17.5	28000	1293	
17.2	27200	1276	
16.9	26400	1260	
16.6	25600	1243	
16.3	24800	1226	
16.0	24000	1210	
STOP			

start here

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.3	36000	1295	
11.2	35200	1285	
11.1	34500	1276	
11.0	33700	1267	
10.9	33000	1257	
10.8	32300	1248	
10.7	31500	1239	
10.6	30800	1230	
10.5	30000	1220	
10.4	29300	1211	
10.3	28600	1202	
10.2	27800	1193	
10.1	27100	1183	
10.0	26300	1174	
9.9	25600	1165	
9.8	24900	1156	
STOP			

start here

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
15.3	36000	1376	
15.2	35300	1368	
15.1	34700	1360	
15.0	34000	1352	
14.9	33400	1344	
14.8	32700	1336	
14.7	32100	1328	
14.6	31400	1321	
14.5	30800	1313	
14.4	30100	1305	
14.3	29500	1297	
14.2	28800	1289	
14.1	28200	1281	
14.0	27600	1274	
STOP			

start here

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.1	36000	1258	
9.0	35300	1248	
8.9	34600	1238	
8.8	33900	1228	
8.7	33200	1218	
8.6	32500	1208	
8.5	31800	1198	
8.4	31100	1189	
8.3	30400	1179	
8.2	29700	1169	
8.1	29000	1159	
8.0	28300	1149	
7.9	27600	1139	
7.8	27000	1130	
STOP			



Use
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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 cover page for this
grain weight for O.A.L.



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IMR 800X			
Charge in grains	psi	fps	
STOP			
13.8	36000	1456	
13.7	35500	1447	
13.5	34500	1430	
13.3	33500	1414	
13.1	32500	1397	
12.9	31500	1380	
12.7	30500	1364	
12.5	29500	1347	
12.3	28500	1330	
12.1	27500	1314	
11.9	26500	1297	
11.7	25500	1280	
11.5	24600	1264	
STOP			

start here

IMR SR4756			
Charge in grains	psi	fps	
	STOP		
12.3	36000	1322	
12.2	35400	1314	
12.1	34900	1306	
12.0	34400	1298	
11.9	33800	1291	
11.8	33300	1283	
11.7	32800	1275	
11.6	32300	1267	
11.5	31700	1260	
11.4	31200	1252	
11.3	30700	1244	
11.2	30100	1237	
11.1	29600	1229	
11.0	29100	1221	
10.9	28600	1213	
10.8	28000	1206	
10.7	27500	1198	
10.6	27000	1190	
10.5	26500	1183	
STOP			

start here

VihtaVuori N105			
Charge in grains	psi	fps	
STOP			
16.2	36000	1473	
16.0	35000	1456	
15.8	34100	1439	
15.6	33200	1422	
15.4	32200	1405	
15.2	31300	1388	
15.0	30400	1372	
14.8	29400	1355	
14.6	28500	1338	
14.4	27600	1321	
14.2	26600	1304	
14.0	25700	1288	
13.8	24800	1271	
13.6	23800	1254	
13.4	22900	1237	
13.2	22000	1220	
13.0	21100	1204	
STOP			

start here

VihtaVuori N350			
Charge in grains	psi	fps	
STOP			
11.7	36000	1295	
11.6	35200	1285	
11.5	34500	1275	
11.4	33800	1266	
11.3	33100	1256	
11.2	32400	1247	
11.1	31700	1237	
11.0	30900	1227	
10.9	30200	1218	
10.8	29500	1208	
10.7	28800	1199	
10.6	28100	1189	
10.5	27400	1180	
STOP			

start here

Winchester 296			
Charge in grains	psi	fps	
STOP			
23.9	36000	1602	
23.7	35100	1586	
23.5	34300	1571	
23.3	33500	1556	
23.1	32700	1541	
22.9	31800	1526	
22.7	31000	1511	
22.5	30200	1495	
22.3	29400	1480	
22.1	28500	1465	
21.9	27700	1450	
21.7	26900	1435	
21.5	26100	1420	
STOP			

start here

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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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page 4.

Accurate Arms XMP5744			
Charge in grains	psi	fps	
STOP			
22.8	36000	1373	
22.6	35300	1361	
22.4	34700	1349	
22.2	34100	1338	
22.0	33500	1326	
21.8	32900	1314	
21.6	32300	1303	
21.4	31700	1291	
21.2	31000	1279	
21.0	30400	1268	
20.8	29800	1256	
20.6	29200	1244	
20.4	28600	1233	
20.2	28000	1221	
20.0	27400	1210	
STOP			

start here

Alliant 2400			
Charge in grains	psi	fps	
STOP			
20.2	36000	1449	
19.9	35100	1430	
19.6	34300	1411	
19.3	33400	1392	
19.0	32600	1373	
18.7	31700	1354	
18.4	30900	1335	
18.1	30100	1316	
17.8	29200	1297	
17.5	28400	1278	
17.2	27500	1259	
16.9	26700	1240	
16.6	25800	1221	
16.3	25000	1202	
16.0	24200	1184	
STOP			

start here

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.2	36000	1297	
11.1	35300	1288	
11.0	34700	1280	
10.9	34100	1272	
10.8	33500	1263	
10.7	32800	1255	
10.6	32200	1247	
10.5	31600	1239	
10.4	31000	1230	
10.3	30400	1222	
10.2	29700	1214	
10.1	29100	1205	
10.0	28500	1197	
9.9	27900	1189	
9.8	27300	1181	
STOP			

start here

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
14.8	36000	1362	
14.7	35300	1353	
14.6	34600	1344	
14.5	33900	1336	
14.4	33200	1327	
14.3	32500	1318	
14.2	31800	1310	
14.1	31100	1301	
14.0	30500	1293	
STOP			

start here

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
8.7	36000	1233	
8.6	35300	1223	
8.5	34600	1213	
8.4	34000	1204	
8.3	33300	1194	
8.2	32700	1185	
8.1	32000	1175	
8.0	31400	1166	
7.9	30700	1156	
7.8	30100	1147	
STOP			

start here



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IMR 800X		
Charge in grains	psi	fps
STOP		
13.4	36000	1446
13.3	35500	1437
13.2	35000	1428
13.1	34500	1420
13.0	34000	1411
12.9	33500	1403
12.8	33000	1394
12.7	32500	1385
12.6	32000	1377
12.5	31500	1368
12.4	31100	1360
12.3	30600	1351
12.2	30100	1343
12.1	29600	1334
12.0	29100	1325
11.9	28600	1317
11.8	28100	1308
11.7	27600	1300
11.6	27100	1291
STOP		


IMR SR4756		
Charge in grains	psi	fps
STOP		
11.8	36000	1286
11.7	35400	1280
11.6	34900	1274
11.5	34300	1268
11.4	33800	1263
11.3	33200	1257
11.2	32700	1251
11.1	32100	1246
11.0	31600	1240
10.9	31000	1234
10.8	30500	1229
10.7	29900	1223
10.6	29400	1217
10.5	28900	1212
STOP		

VihtaVuori N105		
Charge in grains	psi	fps
STOP		
15.2	36000	1430
15.0	34800	1414
14.8	33600	1399
14.6	32400	1384
14.4	31200	1368
14.2	30000	1353
14.0	28900	1338
13.8	27700	1323
13.6	26500	1307
13.4	25300	1292
13.2	24100	1277
13.0	23000	1262
STOP		

VihtaVuori N350		
Charge in grains	psi	fps
STOP		
11.4	36000	1292
11.3	35200	1283
11.2	34500	1275
11.1	33800	1267
11.0	33100	1259
10.9	32400	1251
10.8	31700	1243
10.7	31000	1235
10.6	30300	1227
10.5	29600	1219
STOP		

Winchester 296		
Charge in grains	psi	fps
STOP		
23.9	36000	1611
23.7	35000	1595
23.5	34100	1579
23.3	33200	1563
23.1	32200	1547
22.9	31300	1531
22.7	30400	1515
22.5	29400	1499
22.3	28500	1483
22.1	27600	1467
21.9	26600	1451
21.7	25700	1435
21.5	24800	1420
STOP		

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Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.

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.




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


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Accurate Arms XMP5744			
Charge in grains	psi	fps	
	STOP		
23.3	36000	1389	
23.2	35600	1382	
23.0	34900	1370	
22.8	34300	1357	
22.6	33600	1344	
22.4	32900	1332	
22.2	32300	1319	
22.0	31600	1306	
21.8	30900	1294	
21.6	30200	1281	
21.4	29600	1268	
21.2	28900	1256	
21.0	28200	1243	
20.8	27500	1230	
20.6	26900	1218	
20.4	26200	1205	
20.2	25500	1192	
20.0	24900	1180	
STOP			

start here

Alliant 2400			
	Charge in grains	psi	fps
	STOP		
start here	20.5	36000	1448
	20.2	35100	1429
	19.9	34200	1410
	19.6	33400	1392
	19.3	32500	1373
	19.0	31600	1355
	18.7	30800	1336
	18.4	29900	1318
	18.1	29000	1299
	17.8	28200	1281
	17.5	27300	1262
	17.2	26400	1244
	16.9	25600	1225
	16.6	24700	1207
	16.3	23800	1188
16.0	23000	1170	
STOP			

start here

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.2	36000	1280	
11.1	35100	1268	
11.0	34200	1257	

10.9	33300	1246	
10.8	32500	1234	
10.7	31600	1223	
10.6	30700	1212	
10.5	29900	1201	
10.4	29000	1189	
10.3	28100	1178	
10.2	27200	1167	
10.1	26400	1155	
10.0	25500	1144	
9.9	24600	1133	
9.8	23800	1122	
STOP			

start here


Hodgdon HS-7			
start here	Charge in grains	psi	fps
	STOP		
	15.2	36000	1374
	15.1	35300	1365
	15.0	34700	1356
	14.9	34000	1347
	14.8	33400	1338
	14.7	32700	1329
	14.6	32100	1320
	14.5	31400	1311
	14.4	30800	1302
	14.3	30100	1293
	14.2	29500	1284
	14.1	28800	1275
	14.0	28200	1266
STOP			

start here

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.1	36000	1245	
9.0	35300	1234	
8.9	34700	1224	
8.8	34100	1214	
8.7	33500	1204	
8.6	32900	1194	
8.5	32300	1184	
8.4	31700	1174	
8.3	31100	1164	
8.2	30500	1154	
8.1	29900	1144	
8.0	29300	1134	
7.9	28700	1124	
7.8	28100	1114	
STOP			

start here


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IMR 800X			
Charge in grains	psi	fps	
STOP			
13.4	36000	1432	
13.3	35400	1423	
13.2	34900	1415	
13.1	34400	1406	
13.0	33900	1398	
12.9	33400	1389	
12.8	32900	1381	
12.7	32400	1373	
12.6	31900	1364	
12.5	31400	1356	
12.4	30800	1347	
12.3	30300	1339	
12.2	29800	1330	
12.1	29300	1322	
12.0	28800	1314	
11.9	28300	1305	
11.8	27800	1297	
11.7	27300	1288	
11.6	26800	1280	
STOP			

IMR SR4756			
Charge in grains	psi	fps	
STOP			
12.5	36000	1318	
12.4	35500	1310	
12.3	35100	1302	
12.2	34600	1295	
12.1	34200	1287	

12.0	33800	1280	
11.9	33300	1272	
11.8	32900	1265	
11.7	32500	1257	
11.6	32000	1250	
11.5	31600	1242	
11.4	31200	1234	
11.3	30700	1227	
11.2	30300	1219	
11.1	29900	1212	
11.0	29400	1204	
10.9	29000	1197	
10.8	28600	1189	
10.7	28100	1182	
STOP			

VihtaVuori N105			
Charge in grains	psi	fps	
STOP			
16.0	36000	1453	
15.8	35100	1438	
15.6	34300	1424	

15.4	33500	1409	
15.2	32700	1395	
15.0	31900	1380	
14.8	31000	1366	
14.6	30200	1351	
14.4	29400	1337	
14.2	28600	1322	
14.0	27800	1308	
13.8	26900	1293	
13.6	26100	1279	
13.4	25300	1264	
13.2	24500	1250	
13.0	23700	1236	
STOP			


VihtaVuori N350			
Charge in grains	psi	fps	
STOP			
11.7	36000	1278	
11.6	35200	1268	
11.5	34400	1258	

11.4	33700	1248	
11.3	32900	1239	
11.2	32200	1229	
11.1	31400	1219	
11.0	30600	1209	
10.9	29900	1200	
10.8	29100	1190	
10.7	28400	1180	
10.6	27600	1170	
10.5	26900	1161	
STOP			

Winchester 296			
Charge in grains	psi	fps	
STOP			
24.1	36000	160	
23.9	35100	159	
23.7	34300	157	

23.5	33500	155	
23.3	32700	153	
23.1	31800	152	
22.9	31000	150	
22.7	30200	148	
22.5	29400	147	
22.3	28500	145	
22.1	27700	143	
21.9	26900	142	
21.7	26100	140	
21.5	25300	138	
STOP			

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Winchester 240 gr HSP

.44 Remington Magnum

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



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Accurate Arms XMP5744			
Charge in grains	psi	fps	
STOP			
23.3	36000	1390	
23.2	35600	1383	
23.0	34900	1371	
22.8	34300	1359	
22.6	33600	1347	
22.4	32900	1335	
22.2	32200	1323	
22.0	31500	1310	
21.8	30900	1298	
21.6	30200	1286	
21.4	29500	1274	
21.2	28800	1262	
21.0	28100	1249	
20.8	27500	1237	
20.6	26800	1225	
20.4	26100	1213	
20.2	25400	1201	
20.0	24800	1189	
STOP			

Alliant 2400			
Charge in grains	psi	fps	
STOP			
20.7	36000	1466	
20.5	35400	1454	
20.2	34600	1437	

19.9	33800	1420	
19.6	33000	1402	
19.3	32100	1385	
19.0	31300	1368	
18.7	30500	1351	
18.4	29700	1333	
18.1	28900	1316	
17.8	28100	1299	
17.5	27200	1282	
17.2	26400	1264	
16.9	25600	1247	
16.6	24800	1230	
16.3	24000	1213	
16.0	23200	1196	
STOP			

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.3	36000	1303	
11.2	35300	1293	
11.1	34600	1283	

11.0	33900	1273	
10.9	33200	1263	
10.8	32500	1253	
10.7	31800	1243	
10.6	31100	1233	
10.5	30500	1224	
10.4	29800	1214	
10.3	29100	1204	
10.2	28400	1194	
10.1	27700	1184	
10.0	27000	1174	
9.9	26300	1164	
9.8	25700	1155	
STOP			

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
15.4	36000	1390	
15.3	35400	1381	
15.2	34800	1373	
15.1	34300	1365	

15.0	33700	1357	
14.9	33100	1349	
14.8	32600	1341	
14.7	32000	1333	
14.6	31400	1324	
14.5	30900	1316	
14.4	30300	1308	
14.3	29700	1300	
14.2	29200	1292	
14.1	28600	1284	
14.0	28100	1276	
STOP			

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
8.9	36000	1250	
8.8	35300	1239	
8.7	34600	1228	
8.6	33900	1217	
8.5	33200	1206	
8.4	32500	1195	
8.3	31800	1184	
8.2	31100	1173	
8.1	30400	1162	
8.0	29700	1151	
7.9	29000	1140	
7.8	28400	1129	
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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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.

Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.

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.

.44 Remington Magnum

Winchester 240 gr HSP



Use
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when
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the Yellow
or Red
zones.

All
pressures
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psi not
C.U.P. See
page 4.

start here

IMR 800X			
Charge in grains	psi	fps	
STOP			
13.8	36000	1460	
13.7	35500	1451	
13.5	34600	1435	
13.3	33700	1418	
13.1	32800	1402	
12.9	31800	1385	
12.7	30900	1369	
12.5	30000	1352	
12.3	29100	1336	
12.1	28200	1319	
11.9	27300	1303	
11.7	26400	1286	
11.5	25500	1270	
STOP			

start here

IMR SR4756			
Charge in grains	psi	fps	
STOP			
12.3	36000	1322	
12.2	35500	1313	
12.1	35000	1305	
12.0	34500	1297	
11.9	34000	1288	
11.8	33500	1280	
11.7	33000	1272	
11.6	32500	1264	
11.5	32000	1255	
11.4	31500	1247	
11.3	31000	1239	
11.2	30500	1230	
11.1	30000	1222	
11.0	29500	1214	
10.9	29000	1206	
10.8	28500	1197	
10.7	28000	1189	
10.6	27500	1181	
10.5	27100	1173	
STOP			

start here

VihtaVuori N105			
Charge in grains	psi	fps	
STOP			
16.1	36000	1471	
16.0	35600	1463	
15.8	34800	1449	
15.6	34000	1435	
15.4	33300	1421	
15.2	32500	1407	
15.0	31800	1392	
14.8	31000	1378	
14.6	30200	1364	
14.4	29500	1350	
14.2	28700	1336	
14.0	28000	1321	
13.8	27200	1307	
13.6	26400	1293	
13.4	25700	1279	
13.2	24900	1265	
13.0	24200	1251	
STOP			

start here

VihtaVuori N350			
Charge in grains	psi	fps	
	STOP		
11.8	36000	1299	
11.7	35300	1289	
11.6	34600	1280	
11.5	33900	1271	
11.4	33200	1262	
11.3	32500	1252	
11.2	31800	1243	
11.1	31200	1234	
11.0	30500	1225	
10.9	29800	1215	
10.8	29100	1206	
10.7	28400	1197	
10.6	27700	1188	
10.5	27100	1179	
STOP			

start here

Winchester 296			
Charge in grains	psi	fps	
STOP			
24.0	36000	1602	
23.9	35500	1594	
23.7	34700	1579	

23.5	33900	1565	
23.3	33100	1550	
23.1	32200	1535	
22.9	31400	1521	
22.7	30600	1506	
22.5	29800	1491	
22.3	28900	1476	
22.1	28100	1462	
21.9	27300	1447	
21.7	26500	1432	
21.5	25700	1418	
STOP			



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Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.

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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or Red
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pressures
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psi not
C.U.P. See
page 4.

Alliant 2400			
Charge in grains	psi	fps	
* <			

* Compressed load.

Alliant Unique			
Charge in grains	psi	fps	
		STOP	
11.3	36000	1276	
11.0	34500	1251	
10.7	33100	1227	
10.4	31600	1202	
10.1	30200	1178	
9.8	28700	1153	
9.5	27300	1129	
9.2	25800	1104	
8.9	24400	1080	
8.6	23000	1056	
8.3	21500	1031	
8.0	20100	1007	
7.7	18600	982	
7.4	17200	958	
7.1	15700	933	
6.8	14300	909	
6.5	12900	885	
STOP			

Reducing Cartridge Over All Length increases pressure greatly.
See cover page for this grain weight for O.A.L.


Hodgdon 110			
	Charge in grains	psi	fps
* <			

* Compressed load.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.2	36000	1231	
9.1	35100	1222	
9.0	34200	1213	
8.9	33400	1205	
8.8	32500	1196	
8.7	31600	1187	
8.6	30800	1179	
8.5	29900	1170	
8.4	29000	1161	
8.3	28200	1153	
STOP			

IMR SR4756			
Charge in grains	psi	fps	
STOP			
12.0	36000	1313	
11.9	35300	1304	
11.8	34600	1296	
11.7	33900	1288	
11.6	33200	1280	
11.5	32500	1272	
11.4	31800	1263	
11.3	31200	1255	
11.2	30500	1247	
11.1	29800	1239	
11.0	29100	1231	
10.9	28400	1222	
10.8	27700	1214	
10.7	27000	1206	
10.6	26400	1198	
10.5	25700	1190	
10.4	25000	1181	
10.3	24300	1173	
10.2	23600	1165	
STOP			


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pressures
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psi not
C.U.P. See
page 4.

Alliant 2400			
	Charge in grains	psi	fps
* <			

* Compressed load.

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.2	36000	1261	
11.0	34900	1245	
10.7	33400	1222	
10.4	31900	1198	
10.1	30400	1175	
9.8	28900	1152	
9.5	27300	1128	
9.2	25800	1105	
8.9	24300	1082	
8.6	22800	1059	
8.3	21300	1035	
8.0	19700	1012	
7.7	18200	989	
7.4	16700	965	
7.1	15200	942	
6.8	13700	919	
6.5	12200	896	
STOP			

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
24.0	31400	1582	
23.9	31000	1575	
23.8	30700	1568	
23.7	30400	1562	
23.6	30000	1555	
23.5	29700	1548	
23.4	29400	1542	
23.3	29100	1535	
23.2	28700	1528	
23.1	28400	1522	
23.0	28100	1515	
22.9	27800	1508	
22.8	27400	1502	
22.7	27100	1495	
22.6	26800	1488	
22.5	26500	1482	
STOP			
* Compressed load.			

* Compressed load.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.1	36000	1219	
9.0	35300	1212	
8.9	34600	1205	
8.8	33900	1198	
8.7	33200	1192	
8.6	32500	1185	
8.5	31800	1178	
8.4	31100	1171	
8.3	30500	1165	
STOP			

start here


Reducing
Cartridge Over All
Length increases
pressure greatly.
See cover page for
this grain weight
for O.A.L.

IMR SR4756			
Charge in grains	psi	fps	
STOP			
11.7	36000	1296	
11.6	35200	1286	
11.5	34400	1276	

11.4	33600	1267	
11.3	32800	1257	
11.2	32000	1247	
11.1	31200	1238	
11.0	30400	1228	
10.9	29600	1218	
10.8	28900	1209	
10.7	28100	1199	
10.6	27300	1189	
10.5	26500	1180	
10.4	25700	1170	
10.3	24900	1160	
10.2	24100	1151	
10.1	23300	1141	
10.0	22600	1132	
STOP			

start here


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pressures
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psi not
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page 4.

Alliant 2400			
Charge in grains	psi	fps	
★ <			

* Compressed load.

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.2	36000	1343	
11.0	35000	1325	
10.7	33500	1298	
10.4	32100	1271	
10.1	30600	1244	
9.8	29100	1217	
9.5	27700	1190	
9.2	26200	1163	
8.9	24700	1136	
8.6	23300	1110	
8.3	21800	1083	
8.0	20400	1056	
7.7	18900	1029	
7.4	17400	1002	
7.1	16000	975	
6.8	14500	948	
6.5	13100	922	
STOP			

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
* 25.0	36000	1633	
24.9	35500	1626	
24.7	34600	1612	
24.5	33800	1598	
24.3	32900	1584	
24.1	32000	1570	
23.9	31200	1556	
23.7	30300	1542	
23.5	29400	1528	
23.3	28500	1514	
23.1	27700	1500	
22.9	26800	1486	
22.7	25900	1472	
22.5	25100	1458	
STOP			


* Compressed load.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.1	36000	1298	
9.0	35100	1289	
8.9	34300	1281	
8.8	33400	1272	
8.7	32600	1264	
8.6	31800	1256	
8.5	30900	1247	
8.4	30100	1239	
8.3	29300	1231	
STOP			

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for
this grain weight
for O.A.L.

IMR SR4756			
Charge in grains	psi	fps	
STOP			
11.8	36000	1343	
11.7	35300	1335	
11.6	34700	1328	
11.5	34100	1320	
11.4	33500	1313	
11.3	32900	1305	
11.2	32300	1298	
11.1	31700	1290	
11.0	31100	1283	
10.9	30500	1276	
10.8	29800	1268	
10.7	29200	1261	
10.6	28600	1253	
10.5	28000	1246	
10.4	27400	1238	
10.3	26800	1231	
10.2	26200	1223	
10.1	25600	1216	
10.0	25000	1209	
STOP			


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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.



 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 2400			
Charge in grains	psi	fps	
STOP			
20.0	30700	1426	
19.9	30400	1420	
19.6	29800	1403	
19.3	29100	1387	
19.0	28500	1370	
18.7	27900	1353	
18.4	27200	1336	
18.1	26600	1320	
17.8	25900	1303	
17.5	25300	1286	
17.2	24600	1270	
16.9	24000	1253	
16.6	23400	1236	
16.3	22700	1220	
16.0	22100	1203	
15.7	21400	1186	
15.4	20800	1170	
15.1	20100	1153	
STOP			
* Compressed load.			

*Compressed load.

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.4	36000	1344	
11.3	35500	1334	
11.0	34100	1307	
10.7	32700	1280	
10.4	31200	1253	
10.1	29800	1225	
9.8	28400	1198	
9.5	27000	1171	
9.2	25600	1144	
8.9	24200	1116	
8.6	22800	1089	
8.3	21300	1062	
8.0	19900	1035	
7.7	18500	1007	
7.4	17100	980	
7.1	15700	953	
6.8	14300	926	
6.5	12900	899	
STOP			

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
25.0	36000	1627	
24.9	35500	1619	
24.7	34500	1603	
24.5	33600	1588	
24.3	32700	1572	
24.1	31700	1557	
23.9	30800	1542	
23.7	29900	1526	
23.5	28900	1511	
23.3	28000	1495	
23.1	27100	1480	
22.9	26100	1464	
22.7	25200	1449	
22.5	24300	1434	
STOP			
*Compressed load.			

*Compressed load.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.1	36000	1288	
9.0	35000	1280	
8.9	34100	1272	
8.8	33200	1264	
8.7	32300	1256	
8.6	31400	1248	
8.5	30500	1240	
8.4	29600	1232	
8.3	28700	1224	
STOP			


start here

Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.

IMR SR4756			
Charge in grains	psi	fps	
STOP			
11.9	36000	1332	
11.8	35300	1324	
11.7	34600	1317	
11.6	34000	1310	
11.5	33300	1302	
11.4	32700	1295	
11.3	32000	1288	
11.2	31400	1281	
11.1	30700	1273	
11.0	30100	1266	
10.9	29400	1259	
10.8	28800	1252	
10.7	28100	1244	
10.6	27500	1237	
10.5	26800	1230	
10.4	26200	1223	
10.3	25500	1215	
10.2	24900	1208	
10.1	24200	1201	
STOP			

start here

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

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page 4.

Alliant 2400			
	Charge in grains	psi	fps
* 			

* Compressed load.

Alliant Unique			
Charge in grains	psi	fps	
STOP			
11.3	36000	1317	
11.0	34500	1289	
10.7	33000	1262	
10.4	31500	1235	
10.1	30000	1208	
9.8	28500	1181	
9.5	27100	1154	
9.2	25600	1127	
8.9	24100	1100	
8.6	22600	1073	
8.3	21100	1046	
8.0	19700	1019	
7.7	18200	992	
7.4	16700	965	
7.1	15200	938	
6.8	13700	911	
6.5	12300	884	
STOP			

Hodgdon 110			
Charge in grains		psi	fps
STOP			
* <			


* Compressed load.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
9.1	36000	1267	
9.0	35100	1260	
8.9	34300	1254	
8.8	33500	1247	
8.7	32700	1241	
8.6	31900	1234	
8.5	31100	1228	
8.4	30300	1221	
8.3	29500	1215	
STOP			

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for
this grain weight
for O.A.L.

IMR SR4756			
Charge in grains	psi	fps	
STOP			
11.8	36000	1347	
11.7	35200	1336	
11.6	34400	1326	
11.5	33600	1316	
11.4	32800	1306	
11.3	32000	1296	
11.2	31200	1286	
11.1	30400	1275	
11.0	29600	1265	
10.9	28900	1255	
10.8	28100	1245	
10.7	27300	1235	
10.6	26500	1225	
10.5	25700	1214	
10.4	24900	1204	
10.3	24100	1194	
10.2	23300	1184	
10.1	22500	1174	
10.0	21800	1164	
STOP			


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**.44 Remington
Magnum**

.429" Diameter

250 grain

Sectional

Density .194



	Nosler JHP	Sierra FPJ Match
Ballistic Coefficient	N/A	.221
Ctg. Overall Length	1.600	1.585

Reducing Cartridge Over All Length increases pressure greatly.

BULLETPAGE

Nosler JHPJacketed82

Sierra FPJ MatchJacketed83


See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"
Maximum Average Pressure (MAP) 36,000 psi			

All testing was done using a solid barrel.
Ammunition fired from a revolver will show a considerable decrease in velocity.



 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 9			
Charge in grains	psi	fps	
STOP			
18.4	36000	1347	
18.3	35500	1340	
18.2	35000	1333	
18.1	34600	1326	

18.0	34100	1319	
17.9	33600	1312	
17.8	33200	1305	
17.7	32700	1298	
17.6	32200	1291	
17.5	31800	1284	
17.4	31300	1277	
17.3	30800	1270	
17.2	30400	1263	
17.1	29900	1256	
17.0	29500	1250	
STOP			

start here

Alliant 2400			
Charge in grains	psi	fps	
		STOP	
18.0	36000	1280	
17.9	35400	1271	
17.8	34800	1263	
17.7	34300	1255	
17.6	33700	1247	
17.5	33100	1239	
17.4	32600	1230	
17.3	32000	1222	
17.2	31400	1214	
17.1	30900	1206	
17.0	30300	1198	
16.9	29700	1189	
16.8	29200	1181	
16.7	28600	1173	
16.6	28000	1165	
16.5	27500	1157	
STOP			

start here

Hodgdon Titegroup			
Start here	Charge in grains	psi	fps
	STOP		
	8.0	36000	1077
	7.9	35200	1066
	7.8	34500	1056
	7.7	33800	1045
	7.6	33100	1035
	7.5	32400	1025
	7.4	31700	1014
	7.3	31000	1004
	7.2	30300	993
	7.1	29600	983
	7.0	28900	973
	STOP		

start here

Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.


IMR 4227			
Charge in grains	psi	fps	
STOP			
20.0	36000	1210	
19.9	35400	1201	
19.8	34900	1192	
19.7	34300	1184	
19.6	33800	1175	
19.5	33300	1167	
19.4	32700	1158	
19.3	32200	1149	
19.2	31600	1141	
19.1	31100	1132	
19.0	30600	1124	
18.9	30000	1115	
18.8	29500	1106	
18.7	28900	1098	
18.6	28400	1089	
18.5	27900	1081	
18.4	27300	1072	
18.3	26800	1063	
18.2	26200	1055	
STOP			

start here

Winchester 296			
Charge in grains	psi	fps	
STOP			
19.7	36000	1390	
19.6	35400	1381	
19.4	34400	1365	
19.2	33300	1349	
19.0	32300	1333	
18.8	31200	1317	
18.6	30200	1301	
18.4	29100	1285	
18.2	28100	1268	
18.0	27000	1252	
17.8	26000	1236	
17.6	24900	1220	
17.4	23900	1204	
17.2	22800	1188	
17.0	21800	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.

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

.44 Remington Magnum

Sierra 250 gr FPJ Match




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when
loading in
the Yellow
or Red
zones.


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

Accurate Arms 9			
Charge in grains	psi	fps	
STOP			
20.4	36000	1463	
20.2	35300	1451	
20.0	34700	1439	
19.8	34100	1427	
19.6	33500	1415	
19.4	32800	1403	
19.2	32200	1391	
19.0	31600	1379	
18.8	31000	1367	
18.6	30300	1355	
18.4	29700	1343	
18.2	29100	1331	
18.0	28500	1319	
17.8	27800	1307	
17.6	27200	1295	
17.4	26600	1283	
17.2	26000	1271	
17.0	25400	1260	
STOP			


Alliant 2400			
Charge in grains	psi	fps	
STOP			
20.3	36000	1413	
20.2	35500	1404	
20.0	34600	1387	
19.8	33800	1370	
19.6	32900	1353	
19.4	32000	1336	
19.2	31100	1319	
19.0	30200	1301	
18.8	29400	1284	
18.6	28500	1267	
18.4	27600	1250	
18.2	26700	1233	
18.0	25800	1216	
17.8	25000	1199	
17.6	24100	1182	
17.4	23200	1165	
17.2	22300	1148	
17.0	21500	1131	
STOP			

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
8.7	36000	1169	
8.6	35200	1158	
8.5	34500	1148	
8.4	33800	1138	
8.3	33100	1128	
8.2	32300	1118	
8.1	31600	1107	
8.0	30900	1097	
7.9	30200	1087	
7.8	29400	1077	
7.7	28700	1067	
7.6	28000	1057	
7.5	27300	1046	
7.4	26500	1036	
7.3	25800	1026	
7.2	25100	1016	
7.1	24400	1006	
7.0	23700	996	
STOP			

IMR 4227			
Charge in grains	psi	fps	
STOP			
22.3	36000	1347	
22.2	35500	1338	
21.9	34300	1314	
21.6	33100	1289	
21.3	31900	1264	
21.0	30700	1239	
20.7	29500	1215	
20.4	28300	1190	
20.1	27000	1165	
19.8	25800	1141	
19.5	24600	1116	
19.2	23400	1091	
18.9	22200	1067	
18.6	21000	1042	
18.3	19800	1017	
18.0	18600	993	
STOP			

Winchester 296			
Charge in grains	psi	fps	
STOP			
23.5	36000	1560	
23.4	35600	1552	
23.2	34900	1538	
23.0	34200	1523	
22.8	33500	1509	
22.6	32800	1494	
22.4	32100	1480	
22.2	31300	1466	
22.0	30600	1451	
21.8	29900	1437	
21.6	29200	1422	
21.4	28500	1408	
21.2	27800	1393	
21.0	27100	1379	
20.8	26400	1364	
20.6	25700	1350	
20.4	25000	1335	
20.2	24300	1321	
20.0	23600	1307	
STOP			


Use
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Reducing Cartridge Over All Length increases pressure greatly. See cover page for this grain weight for O.A.L.

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.

265 grain

.44 Remington Magnum

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

.44 Remington
Magnum

.429" Diameter
265 grain
Sectional
Density .205



	Hornady JFP
Ballistic Coefficient	.189
Ctg. Overall Length	1.610

Reducing Cartridge Over All Length increases pressure greatly.

BULLET	PAGE
Hornady JFP	Jacketed85

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"
Maximum Average Pressure (MAP) 36,000 psi			



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or Red
zones.

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

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
21.0	27500	1382	
20.8	26900	1366	
20.6	26300	1350	
20.4	25800	1334	
20.2	25200	1318	
20.0	24700	1302	
19.8	24100	1286	
19.6	23500	1270	
19.4	23000	1255	
19.2	22400	1239	
19.0	21900	1223	
18.8	21300	1207	
18.6	20700	1191	
18.4	20200	1175	
18.2	19600	1159	
18.0	19100	1144	
STOP			
*Compressed load.			

* Compressed load.

Hodgdon 4227			
Charge in grains	psi	fps	
STOP			
22.0	31800	1334	
21.9	31400	1326	
21.7	30600	1310	
21.5	29800	1295	
21.3	29000	1279	
21.1	28200	1263	
20.9	27400	1248	
20.7	26700	1232	
20.5	25900	1217	
20.3	25100	1201	
20.1	24300	1185	
19.9	23500	1170	
19.7	22700	1154	
19.5	22000	1139	
STOP			
* Compressed load.			

* Compressed load.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
8.4	36000	1128	
8.3	35100	1116	
8.2	34200	1105	
8.1	33300	1094	
8.0	32400	1083	
7.9	31500	1072	
STOP			

Reducing
Cartridge Over All
Length increases
pressure greatly.
See cover page
for this grain
weight for O.A.L.

IMR 4227			
Charge in grains	psi	fps	
* STOP			
21.9	36000	1316	
21.7	35100	1300	
21.5	34200	1285	

21.3	33300	1269	
21.1	32400	1254	
20.9	31500	1238	
20.7	30700	1223	
20.5	29800	1207	
20.3	28900	1192	
20.1	28000	1176	
19.9	27100	1161	
19.7	26200	1145	
19.5	25400	1130	
STOP			
* Compressed load.			

* Compressed load.

Winchester 296			
	Charge in grains	psi	fps
	STOP		
* 			

* Compressed load.

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**.44 Remington
Magnum**

.429" Diameter

270 grain

Sectional

Density .209

Speer
SP/GD

Ballistic Coefficient

N/A

Ctg. Overall Length

1.585

Reducing Cartridge Over All Length increases pressure greatly.

BULLETPAGE

Speer SP/GDPlated.....87



photo courtesy of Magnum Research Inc.

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"
Maximum Average Pressure (MAP) 36,000 psi			

The Desert Eagle is a big bore automatic that was developed by the Israelis. They are imported into the United States by Magnum Research, Inc. of Minneapolis, MN. They are pictured here in nickel-plated, blued and stainless finishes. The Desert Eagle is also available chambered in the even larger .50 Action Express.

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

.44 Remington Magnum

Speer 270 gr SP/GD



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psi not
C.U.P. See
page 4.

Hodgdon 110			
Charge in grains	psi	fps	
STOP			
21.0	28500	1385	
20.8	27900	1370	
20.6	27300	1355	
20.4	26800	1340	
20.2	26200	1325	
20.0	25700	1310	
19.8	25100	1295	
19.6	24600	1280	
19.4	24000	1266	
19.2	23500	1251	
19.0	22900	1236	
18.8	22400	1221	
18.6	21800	1206	
18.4	21300	1191	
18.2	20700	1176	
18.0	20200	1162	
STOP			
*Compressed load.			

Hodgdon 4227			
	Charge in grains	psi	fps
	STOP		
*	22.0	36000	1353
	21.8	35000	1336
start here	21.6	34000	1319
	21.4	33000	1303
	21.2	32000	1286
	21.0	31100	1269
	20.8	30100	1253
	20.6	29100	1236
	20.4	28100	1219
	20.2	27100	1203
	20.0	26200	1186
	19.8	25200	1169
	19.6	24200	1153
	19.4	23200	1136
	19.2	22200	1119
	19.0	21300	1103
	STOP		
	* Compressed load.		

Hodgdon Titegroup			
Charge in grains		psi	fps
STOP			
8.3	36000	1125	
8.2	35100	1115	
8.1	34200	1106	
8.0	33300	1096	
7.9	32500	1087	
STOP			

Reducing
Cartridge Over All
Length increases
pressure greatly.
See cover page
for this grain
weight for O.A.L.

IMR 4227			
Charge in grains	psi	fps	
STOP			
21.0	36000	1287	
20.9	35300	1277	
20.8	34700	1267	
20.7	34000	1257	
20.6	33400	1247	
20.5	32700	1237	
20.4	32100	1227	
20.3	31400	1217	
20.2	30800	1208	
20.1	30100	1198	
20.0	29500	1188	
19.9	28800	1178	
19.8	28200	1168	
19.7	27500	1158	
19.6	26900	1148	
19.5	26300	1139	
STOP			
* Compressed load.			

Winchester 296			
Charge in grains	psi	fps	
* STOP			
21.8	36000	1470	
21.6	35200	1456	
21.4	34500	1442	

21.2	33800	1428	
21.0	33100	1414	
20.8	32400	1401	
20.6	31700	1387	
20.4	30900	1373	
20.2	30200	1359	
20.0	29500	1345	
19.8	28800	1332	
19.6	28100	1318	
19.4	27400	1304	
19.2	26600	1290	
19.0	25900	1276	
18.8	25200	1263	
18.6	24500	1249	
18.4	23800	1235	
STOP			
* Compressed load.			



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photo courtesy of Smith & Wesson

The Smith & Wesson Model 629 is a stainless steel version of the classic Model 29 (Introduced in 1955 it was the first production gun chambered in .44 Remington Magnum.).

.44 Remington Magnum

.429" Diameter

300 grain

Sectional

Density .232



	Hornady HP/XTP	Nosler JHP	Sierra JSP	Speer SP
Ballistic Coefficient	.245	.206	.240	.213
Ctg. Overall Length	1.590	1.570	1.610	1.600

Reducing Cartridge Over All Length increases pressure greatly.

BULLETPAGE

Hornady HP/XTP	Jacketed	90-91
Nosler JHP	Jacketed	92-93
Sierra JSP	Jacketed	94-95
Speer SP	Plated	96-97

See page 12 for bullet terminology information.

Gun	Universal Receiver	Case	Winchester
Barrel	Wiseman	Max Case Length	1.285"
Length	8.275" with 1:20" twist	Trim to Length	1.275"
Primer	Remington 2-1/2	Max OAL	1.610"

Maximum Average Pressure (MAP) 36,000 psi

All testing was done using a solid barrel.
Ammunition fired from a revolver will show a considerable decrease in velocity.

Hornady 300 gr HP/XTP

.44 Remington Magnum

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



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page 4.

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.

Accurate Arms 9			
Charge in grains	psi	fps	
STOP			
16.1	36000	1234	
16.0	35500	1227	
15.9	35100	1220	
15.8	34600	1213	
15.7	34200	1206	
15.6	33700	1199	
15.5	33300	1193	
15.4	32800	1186	
15.3	32400	1179	
15.2	31900	1172	
15.1	31500	1165	
15.0	31100	1159	
STOP			

Alliant 2400			
Charge in grains	psi	fps	
STOP			
15.7	36000	1187	
15.6	35400	1177	
15.5	34900	1168	
15.4	34300	1159	

15.3	33800	1150	
15.2	33200	1140	
15.1	32700	1131	
15.0	32100	1122	
14.9	31600	1113	
14.8	31000	1103	
14.7	30500	1094	
14.6	29900	1085	
14.5	29400	1076	
14.4	28800	1066	
14.3	28300	1057	
14.2	27700	1048	
14.1	27200	1039	
14.0	26700	1030	
STOP			

Alliant Power Pistol			
Charge in grains	psi	fps	
STOP			
10.1	36000	1146	
10.0	35300	1136	
9.9	34700	1126	
9.8	34000	1117	
9.7	33400	1107	
9.6	32700	1098	
9.5	32100	1088	
9.4	31400	1079	
9.3	30800	1069	
9.2	30100	1060	
9.1	29500	1050	
9.0	28900	1041	
STOP			

Hodgdon 4227			
	Charge in grains	psi	fps
	STOP		
*	19.0	36000	1228
	18.8	35100	1210
	18.6	34200	1192
	18.4	33300	1174
	18.2	32400	1156
	18.0	31500	1138
	17.8	30600	1120
	17.6	29700	1102
	17.4	28800	1085
	17.2	27900	1067
	17.0	27000	1049
	16.8	26100	1031
	16.6	25200	1013
start here }	16.4	24300	995
	16.2	23400	977
	16.0	22500	960
	STOP		

* Compressed load.

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
12.5	36000	1147	
12.4	35400	1137	
12.3	34800	1128	
12.2	34200	1119	
12.1	33600	1110	
12.0	33100	1101	
11.9	32500	1092	
11.8	31900	1083	
11.7	31300	1074	
11.6	30700	1065	
11.5	30200	1056	
11.4	29600	1047	
11.3	29000	1038	
11.2	28400	1029	
11.1	27800	1020	
11.0	27300	1011	
STOP			



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psi not
C.U.P. See
page 4.

Hodgdon Titegroup			
Charge in grains	psi	fps	
STOP			
7.0	36000	980	* start here
6.9	35100	968	
6.8	34300	957	
6.7	33500	945	
6.6	32700	934	
6.5	31900	922	
6.4	31000	911	
6.3	30200	899	
6.2	29400	888	
6.1	28600	876	
6.0	27800	865	
STOP			

IMR 4227		
Charge in grains	psi	fps
STOP		
17.6	36000	1118
17.5	35400	1109
17.3	34300	1091
17.1	33200	1073
16.9	32200	1055
16.7	31100	1037
16.5	30000	1019
16.3	28900	1001
16.1	27800	983
15.9	26700	965
15.7	25600	947
15.5	24600	930
STOP		

* Compressed load.

IMR 800X		
Charge in grains	psi	fps
STOP		
11.0	36000	1197
10.9	35400	1188
10.8	34900	1179
10.7	34400	1170
10.6	33800	1161
10.5	33300	1152
10.4	32800	1143
10.3	32200	1134
10.2	31700	1125
10.1	31200	1116
10.0	30600	1107
9.9	30100	1098
9.8	29600	1089
9.7	29000	1080
9.6	28500	1071
9.5	28000	1063
STOP		

Winchester 296			
Charge in grains	psi	fps	
STOP			
18.1	36000	1311	start here
18.0	35400	1302	
17.8	34300	1286	
17.6	33200	1269	
17.4	32100	1253	
17.2	30900	1236	
17.0	29800	1219	
16.8	28700	1203	
16.6	27600	1186	
16.4	26500	1170	
16.2	25400	1153	
16.0	24300	1137	
STOP			



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increases pressure
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See cover page for this
grain weight for O.A.L.


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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 cover page for this
grain weight for O.A.L.

Accurate Arms 9			
Charge in grains	psi	fps	
STOP			
16.0	36000	1235	
15.9	35400	1226	
15.8	34900	1217	
15.7	34300	1209	
15.6	33800	1200	
15.5	33200	1192	
15.4	32700	1183	
15.3	32100	1174	
15.2	31600	1166	
15.1	31000	1157	
15.0	30500	1149	
STOP			

Alliant 2400			
Charge in grains		psi	fps
STOP			
15.6	36000		1162
15.5	35400		1153
15.4	34800		1145
15.3	34200		1136
15.2	33600		1128
15.1	33000		1120
15.0	32500		1111
14.9	31900		1103
14.8	31300		1095
14.7	30700		1086
14.6	30100		1078
14.5	29600		1069
14.4	29000		1061
14.3	28400		1053
14.2	27800		1044
14.1	27200		1036
14.0	26700		1028
STOP			


Alliant Power Pistol			
Charge in grains	psi	fps	
STOP			
10.1	36000	1139	
10.0	35300	1129	
9.9	34700	1120	
9.8	34100	1111	
9.7	33500	1102	
9.6	32900	1093	
9.5	32200	1084	
9.4	31600	1075	
9.3	31000	1066	
9.2	30400	1057	
9.1	29800	1048	
9.0	29200	1039	
STOP			

Hodgdon 4227			
	Charge in grains	psi	fps
	STOP		
* <			

* Compressed load.

Hodgdon HS-7			
Charge in grains	psi	fps	
STOP			
12.4	36000	1128	
12.3	35300	1118	
12.2	34700	1109	
12.1	34000	1100	
12.0	33400	1091	
11.9	32800	1082	
11.8	32100	1073	
11.7	31500	1064	
11.6	30900	1055	
11.5	30200	1046	
11.4	29600	1037	
11.3	29000	1028	
11.2	28300	1019	
11.1	27700	1010	
11.0	27100	1001	
STOP			


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

start here

Hodgdon Titegroup

Charge
in
grains psi fps

STOP		
6.9	36000	959
6.8	35100	947
6.7	34200	936
6.6	33300	925
6.5	32400	913
6.4	31500	902
6.3	30600	891
6.2	29700	879
6.1	28800	868
6.0	27900	857

STOP

Reducing Cartridge
Over All Length increas-
es pressure greatly.
See cover page for this
grain weight for O.A.L.

IMR 4227

Charge
in
grains psi fps

STOP		
17.6	36000	1114
17.5	35400	1104
17.3	34300	1086
17.1	33100	1067
16.9	32000	1049
16.7	30900	1030
16.5	29800	1012
16.3	28600	993
16.1	27500	975
15.9	26400	956
15.7	25300	938
15.5	24200	920

STOP

* Compressed load.

IMR 800X

Charge
in
grains psi fps

STOP		
10.9	36000	1180
10.8	35400	1171
10.7	34800	1162
10.6	34200	1153
10.5	33600	1144
10.4	33000	1135
10.3	32400	1126
10.2	31800	1117
10.1	31200	1108
10.0	30600	1099
9.9	30000	1090
9.8	29400	1081
9.7	28800	1072
9.6	28200	1063
9.5	27700	1054

STOP

Winchester 296

Charge
in
grains psi fps

STOP		
17.8	36000	1293
17.7	35400	1285
17.6	34800	1277
17.5	34300	1269
17.4	33700	1261
17.3	33200	1253
17.2	32600	1245
17.1	32100	1237
17.0	31500	1229
16.9	31000	1221
16.8	30400	1213
16.7	29800	1205
16.6	29300	1197
16.5	28700	1189
16.4	28200	1181
16.3	27600	1173
16.2	27100	1165
16.1	26500	1157
16.0	26000	1150

STOP



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psi not
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page 4.

Accurate Arms 9		
Charge in grains	psi	fps
STOP		
16.4	36000	1230
16.3	35400	1222
16.2	34900	1214
16.1	34400	1206
16.0	33900	1198
15.9	33400	1191
15.8	32900	1183
15.7	32400	1175
15.6	31900	1167
15.5	31400	1159
15.4	30900	1152
15.3	30400	1144
15.2	29900	1136
15.1	29400	1128
15.0	28900	1121
STOP		

start here

Alliant 2400		
Charge in grains	psi	fps
STOP		
16.1	36000	1174
16.0	35400	1165
15.8	34400	1147
15.6	33300	1130
15.4	32200	1112
15.2	31200	1095
15.0	30100	1077
14.8	29000	1060
14.6	28000	1042
14.4	26900	1025
14.2	25800	1007
14.0	24800	990
STOP		

Reducing
Cartridge Over All
Length increases
pressure greatly.
See cover page for
this grain weight
for O.A.L.


Alliant Power Pistol		
Charge in grains	psi	fps
STOP		
10.1	36000	1135
10.0	35300	1125
9.9	34600	1116
9.8	33900	1106
9.7	33300	1097
9.6	32600	1088
9.5	31900	1078
9.4	31200	1069
9.3	30600	1060
9.2	29900	1050
9.1	29200	1041
9.0	28600	1032
STOP		


start here

Hodgdon 4227		
Charge in grains	psi	fps
STOP		
* 19.0	36000	1167
18.8	35000	1151
18.6	34100	1135
18.4	33100	1119
18.2	32200	1103
18.0	31200	1087
17.8	30300	1071
17.6	29300	1055
17.4	28400	1040
17.2	27400	1024
17.0	26500	1008
16.8	25500	992
16.6	24600	976
16.4	23600	960
16.2	22700	944
16.0	21800	929
STOP		

* Compressed load.

Hodgdon HS-7		
Charge in grains	psi	fps
STOP		
12.5	36000	1131
12.4	35300	1121
12.3	34700	1111
12.2	34100	1102
12.1	33400	1092
12.0	32800	1082
11.9	32200	1073
11.8	31500	1063
11.7	30900	1053
11.6	30300	1044
11.5	29600	1034
11.4	29000	1024
11.3	28400	1015
11.2	27700	1005
11.1	27100	995
11.0	26500	986
STOP		


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start here

Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
7.2	36000	981
7.1	35100	969
7.0	34300	957
6.9	33500	945
6.8	32700	933
6.7	31800	921
6.6	31000	910
6.5	30200	898
6.4	29400	886
6.3	28500	874
6.2	27700	862
6.1	26900	850
6.0	26100	839
STOP		

start here

IMR 4227		
Charge in grains	psi	fps
STOP		
17.6	36000	1077
17.5	35400	1068
17.3	34300	1052
17.1	33100	1036
16.9	32000	1020
16.7	30900	1003
16.5	29800	987
16.3	28600	971
16.1	27500	954
15.9	26400	938
15.7	25300	922
15.5	24200	906
STOP		

* Compressed load.

start here

IMR 800X		
Charge in grains	psi	fps
STOP		
11.1	36000	1192
11.0	35400	1182
10.9	34900	1173
10.8	34300	1164
10.7	33800	1155
10.6	33200	1146
10.5	32700	1136
10.4	32100	1127
10.3	31600	1118
10.2	31100	1109
10.1	30500	1100
10.0	30000	1090
9.9	29400	1081
9.8	28900	1072
9.7	28300	1063
9.6	27800	1054
9.5	27300	1045
STOP		

start here

Winchester 296		
Charge in grains	psi	fps
STOP		
18.5	36000	1300
18.4	35400	1291
18.2	34300	1275
18.0	33200	1259
17.8	32100	1242
17.6	31000	1226
17.4	29900	1210
17.2	28800	1193
17.0	27700	1177
16.8	26600	1161
16.6	25500	1144
16.4	24400	1128
16.2	23300	1112
16.0	22200	1096
STOP		



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page 4.

Accurate Arms 9		
Charge in grains	psi	fps
STOP		
16.9	36000	1238
16.8	35600	1231
16.7	35200	1225
16.6	34800	1219
16.5	34400	1213
16.4	34000	1207
16.3	33600	1201
16.2	33300	1195
16.1	32900	1189
16.0	32500	1183
15.9	32100	1176
15.8	31700	1170
15.7	31300	1164
15.6	31000	1158
15.5	30600	1152
15.4	30200	1146
15.3	29800	1140
15.2	29400	1134
15.1	29000	1128
STOP		

start here

start here

Alliant 2400		
Charge in grains	psi	fps
STOP		
16.8	36000	1205
16.6	35200	1190
16.4	34400	1176
16.2	33600	1161
16.0	32900	1147
15.8	32100	1132
15.6	31300	1118
15.4	30600	1103
15.2	29800	1089
15.0	29000	1074
14.8	28200	1060
14.6	27500	1045
14.4	26700	1031
14.2	25900	1016
14.0	25200	1002
STOP		
* Compressed load.		

* Compressed load.

Alliant Power Pistol		
Charge in grains	psi	fps
STOP		
10.5	36000	1149
10.4	35300	1138
10.3	34600	1128
10.2	33900	1118
10.1	33200	1107
10.0	32600	1097
9.9	31900	1087
9.8	31200	1077
9.7	30500	1066
9.6	29800	1056
9.5	29200	1046
9.4	28500	1036
9.3	27800	1025
9.2	27100	1015
9.1	26400	1005
9.0	25800	995
STOP		

start here

STOP

Hodgdon 4227		
Charge in grains	psi	fps
STOP		
19.0	29100	1142
18.8	28400	1124
18.6	27700	1106
18.4	27000	1088
18.2	26300	1070
18.0	25600	1053
17.8	24900	1035
17.6	24200	1017
17.4	23500	999
17.2	22800	981
17.0	22100	964
16.8	21400	946
16.6	20700	928
16.4	20000	910
16.2	19300	892
16.0	18600	875
STOP		

start here

* Compressed load.

Hodgdon HS-7		
Charge in grains	psi	fps
STOP		
13.3	36000	1167
13.2	35400	1157
13.0	34400	1138
12.8	33300	1120
12.6	32300	1101
12.4	31300	1082
12.2	30200	1064
12.0	29200	1045
11.8	28100	1026
11.6	27100	1008
11.4	26000	989
11.2	25000	970
11.0	24000	952
STOP		

start here

Reducing Cartridge
Over All Length
increases pressure
greatly.
See cover page for this
grain weight for O.A.L.

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Hodgdon Titegroup		
Charge in grains	psi	fps
STOP		
7.6	36000	999
7.5	35200	987
7.4	34500	975
7.3	33800	963
7.2	33000	952
7.1	32300	940
7.0	31600	928
6.9	30800	916
6.8	30100	905
6.7	29400	893
6.6	28600	881
6.5	27900	869
6.4	27200	858
6.3	26400	846
6.2	25700	834
6.1	25000	822
6.0	24300	811
STOP		

start here

IMR 4227		
Charge in grains	psi	fps
STOP		
17.6	28500	1048
17.5	28100	1039
17.3	27400	1021
17.1	26700	1003
16.9	26000	985
16.7	25200	967
16.5	24500	950
16.3	23800	932
16.1	23100	914
15.9	22400	896
15.7	21700	878
15.5	21000	861
STOP		

start here

*Compressed load.

IMR 800X		
Charge in grains	psi	fps
STOP		
11.5	36000	1219
11.4	35400	1208
11.3	34900	1198
11.2	34300	1188
11.1	33800	1178
11.0	33300	1168
10.9	32700	1158
10.8	32200	1148
10.7	31700	1138
10.6	31100	1128
10.5	30600	1118
10.4	30100	1107
10.3	29500	1097
10.2	29000	1087
10.1	28500	1077
10.0	27900	1067
9.9	27400	1057
9.8	26900	1047
9.7	26300	1037
STOP		


start here

Winchester 296		
Charge in grains	psi	fps
STOP		
19.0	31800	1302
18.8	31000	1286
18.6	30300	1270
18.4	29600	1255
18.2	28800	1239
18.0	28100	1224
17.8	27400	1208
17.6	26700	1193
17.4	25900	1177
17.2	25200	1162
17.0	24500	1146
16.8	23800	1131
16.6	23000	1115
16.4	22300	1100
16.2	21600	1084
16.0	20900	1069
STOP		

start here

*Compressed load.


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Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
147	Hornady	HP/XTP	XXX	45
Primer	Case	Length	Lot number	Temperature
SP Win	69			
Range: 20	Best Group: 1.0	Average Group: 2.0	Velocity (fps): XXXX	
Gun: Springfield 7911 A1				
Notes: This bullet shoots best with a...				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Range:	Best Group:	Average Group:	Velocity (fps):	
Gun:				
Notes:				

Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Range:	Best Group:	Average Group:	Velocity (fps):	
Gun:				
Notes:				
Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature
Range:	Best Group:	Average Group:	Velocity (fps):	
Gun:				
Notes:				

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: Average Group: Velocity (fps):

Gun:

Notes:

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature

Best Group: Average Group: Velocity (fps):

Gun:

Notes:

Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature

Best Group: Average Group: Velocity (fps):

Gun:

Notes:

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature

Best Group: Average Group: Velocity (fps):

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
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.

Always watch for excessive pressure signs.**Favorite Loads**

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature

Best Group: Average Group: Velocity (fps):

Gun:

Notes:

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
Primer	Case	Overall Length	Lot number	Temperature

Best Group: Average Group: Velocity (fps):

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Favorite Loads

Bullet			Propellant	
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Bullet			Propellant	
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Read pages 2 - 11 before loading.
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left to dominate the American market and win The West. .44 Russian revolvers were durable enough to be encountered as late as WW II in the hands of both Soviet and Japanese forces (the Japanese had captured them during their conflict with Imperial Russia at the turn of the century).

Doubtless, the .44 Russian would still be in use today if the cartridge had been long enough to accommodate an adequate charge of bulkier smokeless powders. In a sense, it is still around: the round underwent modification in 1907, resulting in the .44 Smith & Wesson Special (.44 Special for short). It used the same bullet as the .44 Russian, but the case was lengthened by .2 inches to accommodate smokeless powders. The .44 Special is still in service today. It is one of the most accurate big bore pistol cartridges, but it never quite gained widespread acceptance. It is possible to load the .44 Special up to the power of the .44 Magnum, but few guns chambered in that round are safely able to withstand the recoil generated by magnum-style loads. Both the .44 Special and .44 Russian can be fired in guns chambered for .44 Magnum.

The transformation of the .44 Special into the .44 Magnum occurred at the urging of Elmer Keith. Keith, who was also instrumental in the development of the .357 Magnum, began toying with the idea of a magnum round in .44 caliber as early as 1929, but nothing came of these early experiments. During the early fifties, Keith began loading magnum loads for the .44 Special in conjunction with Remington. He had such good results with these rounds that he urged Remington to produce a factory load of comparable power. The engineers at Remington were understandably hesitant. They were concerned that the force behind the load was too much for the Smith & Wesson Triple Lock with which Keith was testing the round. Keith suggested that they lengthen the case to the same length as the .357 Magnum to prevent the round from chambering in .44 Special guns and call the new round .44 Magnum. Remington was willing to produce it provided someone manufactured a gun in .44 Magnum. Keith then took his proposed round to Smith & Wesson.

Smith & Wesson provided Keith with a prototype in 1955. In the course of putting the new gun through its paces, Keith claims to have shot

a deer through the lungs at 600 yards in the fall of 1955. Whether this is a tall tale or God's honest truth, it suggests that the .44 Magnum was a superb hunting round from the get go. This gun made its commercial debut in 1956. This was the Smith & Wesson Model 29. Smith & Wesson initially offered this gun in a blued finish with a 4" or 6 1/2" barrel. An 8 3/8" barrel was added later. The 4" barrels are scarce, since it became immediately apparent that the longer barrels tamed the .44 Magnum's notoriously heavy recoil. The Smith & Wesson Model 629, introduced in 1979, is essentially a stainless steel version of the Model 29. The same year that Smith & Wesson debuted the Model 29, another gun chambered in .44 Magnum also made its debut: This was the Ruger Blackhawk Flat-Top. Ruger would follow it three years later with the Super Blackhawk. These guns (especially the Super Blackhawk) quickly became the favorites for handgun hunters. In the intervening years, .44 Magnum guns have flourished as the number of guns chambered for it has increased. Colt has the Anaconda™, Ruger has added the Vaquero™ and Redhawk™, Magnum Research has produced the Desert Eagle automatic; there are even derringers from Texas Arms and American Derringer. There are now .44 Magnum guns to suit most styles of shooting.

The .44 Magnum was never really thought of as a police round until 1971 and the release of Dirty Harry. Inspector Harry Callahan carried a Model 29 with a 6 1/2-inch barrel that magically transformed into an 8 3/8-inch barrel for close-ups. Although it is not an official police round anywhere, many police officers carry the .44 Magnum because of its ability to penetrate and stop automobiles (many large-bore pistol enthusiasts carry them for the same reason). A pistol round able to attain the velocity and power of a rifle round, it is viewed as the ultimate man-stopper, the defensive round of all defensive rounds. And, of course, it's the gun that Dirty Harry used. With a Smith & Wesson Model 29 strapped to your hip, the swagger in your walk will come naturally (the gun is that big). You too can face off against your paper targets or tin cans, grit your teeth, squint your eyes, and snarl, "Go ahead, make my day." That's a heck of a selling point.

.44 Remington Magnum

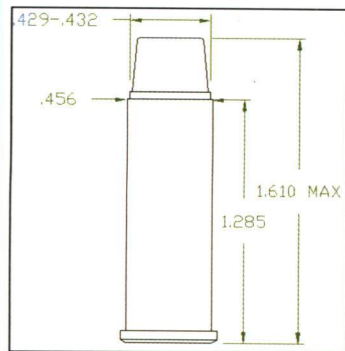
The .44 Remington Magnum cartridge, commonly called the .44 Magnum or .44 Mag, probably enjoys more notoriety than any other handgun cartridge. The 9mm is more widespread and the .45 ACP is more beloved by shooters, but the .44 Magnum has the weight of Dirty Harry behind it. Everyone has heard the speech Clint Eastwood intones in Dirty Harry: "I know what you're thinking. Did he fire six shots or only five? Well to tell you the truth, in all of the confusion, I've sort of lost track myself. But seeing as this is a .44 Magnum, the most powerful handgun in the world, and could blow your head clean off, you have to ask yourself, 'Do you feel lucky?' Well do you, punk?" You can't buy better advertising than that. In the wake of Dirty Harry, the demand for Smith & Wesson Model 29s, the gun Dirty Harry made famous, was so great that the manufacturer was unable to keep up with it for more than 5 years.

Of course, the romance with the .44 Magnum is all Hollywood hokum. Dirty Harry wouldn't last very long against a determined and skilled opponent with a 9mm Beretta or a .45 caliber 1911. By the time he

tames the recoil of his first shot, his enemy would get off four or five shots (it is significant that Harry finally dispatches the bad guy with something other than his S&W Model 29 in four of the five Dirty Harry movies). All of this is a symptom of the fact that the .44 Magnum is the most misunderstood pistol cartridge around. The .44 Magnum was never intended as a police round in the first place. It is a hunting round. It is perhaps the most versatile hunting handgun round in current production, capable of taking every variety of

American game. It is, in fact, one of the only handgun rounds capable of taking really big game. It is routinely found on the hips of guides, fishermen, campers, electrical linemen, and pipeline workers in Alaska as a defense against bears. Additionally, several rifles like the Marlin 1894S, Ruger 44 Semi-auto, 96/44 and, 77/44, Rossi 65/92 Lever Action, and Winchester Model 94 Trapper are chambered in the .44 Magnum. Rifles in .44 Magnum are sometimes known as "brush guns" since most of these guns are short carbines designed for hunting deer in heavy brush. These are applications to which the round is ideally suited—these are the uses for which it was designed.

The .44 Magnum is a modern cartridge. It was introduced in 1955 at the instigation of Elmer Keith. Despite its recent lineage, the roots of the cartridge reach back to the dawn of centerfire ammunition. The .44 Magnum we know today evolved from the .44 Smith & Wesson American, a centerfire blackpowder round known to have existed in 1869. It was used in the Smith & Wesson Model 3 revolver, also known as the .44 American, a gun that was used by the US Army from 1871 to 1873. This single action revolver was the first break-open breech-loading revolver officially adopted by the United States military, but its success was short-lived. It was replaced by the .45 caliber Colt Peacemaker in 1873. During this period, Russian Grand Duke Alexis visited the United States intent on purchasing revolvers for the Russian military. He originally wanted to buy the same Colts in use by the US Army, but changed his mind following a hunting trip with Buffalo Bill Cody. The .44 American was one of Cody's favorites and the Duke enjoyed the feel and the accuracy of the gun. At the Duke's direction, Smith & Wesson modified the .44 American slightly into the .44 Russian. This round became a favorite of Buffalo Bill, among others, because it was more accurate than both its predecessor and the .45 Colt. Smith & Wesson contracted to build 150,000 of these guns for the Russians and it occupied their production capacity to such an extent that rival Colt was



SAAMI Maximum Dimensions
Actual size

(continued on page 107)



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