Frankford™ Arsenal Reloading Tools

357 Magnum

Volume One - First Printing

LoadMAP™

The most complete loading manual

Containing:

74 different jacketed, cast and swaged bullets from

BULL-X® INCORPORATED

Hornady Reloading Tools

Nosler® BULLETS

Remington

SIERRA

SPEER

WINCHESTER

18 different propellants from

Accurate Arms

ALLIANT POWDER®

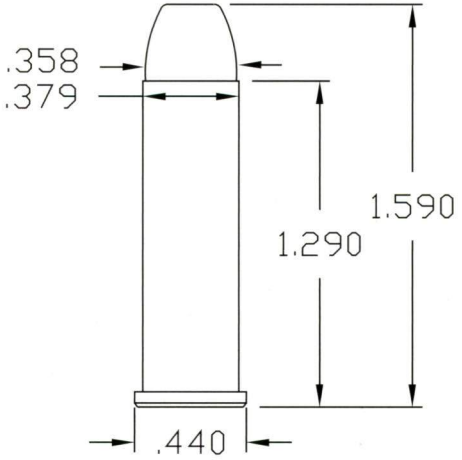
*formerly Hercules

HODGDON

IMR

VIHTAVUORI OY

WINCHESTER



SAAMI Maximum Dimensions
Not actual size

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

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

Hornady
110 gr HP/XTP

Accurate Arms 5

Charge in grains	RGS™ .484" psi	fps
STOP		
10.3	35000	1670
10.2	34100	1654
10.1	33300	1638
10.0	32400	1622
9.9	31600	1607
9.8	30800	1591
9.7	29900	1575
9.6	29100	1560
9.5	28200	1544
9.4	27400	1528
9.3	26600	1513
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 our laboratories. (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."

357 Magnum
Table of Contents

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 **M**aximum **A**verage **P**ressure 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 ±1/10th grain. The test ammunition and components were loaded and stored in a temperature and humidity controlled room at 70° Fahrenheit ±2° and 60% relative humidity ±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 dotted black line across the LoadMAP™ indicates 95% of SAAMI MAP.

Hornady HP/XTP
110 grain

Hodgdon Titegroup

RGS™.484"

Charge in grains	psi	fps
STOP		
10.3	35000	1670
10.2	34100	1654
10.1	33300	1638
10.0	32400	1622
9.9	31600	1607
9.8	30800	1591
9.7	29900	1575
9.6	29100	1560
9.5	28200	1544
9.4	27400	1528
9.3	26600	1513
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.

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

The **R**elative **G**roup **S**ize (**RGS**) is a measured 10-shot group at 50' from a machine rest using the maximum charge of that projectile/propellant combination.

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 cartridge 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.

Battenfeld Technologies, Inc.®
5885 W Van Horn Tavern Road, Columbia, MO 65203

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.accuratearms.com

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.alliantpowder.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

Bull-X Inc., 520 N Main, Farmer City, IL 61842
phone 800-248-3845 FAX 309-928-2130
www.bull-x.com

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

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

Rainier Ballistics Corp., 4500 15th Street East, Tacoma, WA 98424
phone 800-638-8722 FAX 253-922-7854
www.rainierballistics.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

Abbreviation	Description
Barnes	
O	Original
S	Solid
X	X-Bullet®
Hornady	
A-Max™	Accuracy Match Bullet
CL	Crimp Lock™
I	Interlock™
SX™	Super Explosive
V-Max™	Plastic Tipped Varmint
XTP	Extreme Terminal Performance™
UHC	Ultra High Coefficient™
V	Vector®
Nosler	
BT	Ballistic Tip®
PAR	Partition®
PAR-HG	Partition-Handgun™
PP	Practical Pistol™
SB	Solid Base®
Remington	
BRPT	Bronze Point®
CL	Core Lokt®
ER	Extended Range®
GS	Golden Sabre®
HPPL	Hollow Point-Power Lokt®

Abbreviation	Description
Sierra	
Blitz	Blitz Bullet®
FPJ	Full Profile Jacket®
JHC	Jacketed Hollow Cavity®
SBT	Spitzer Boat Tail®
SMP	Semi-Pointed®
Speer	
GD	Gold Dot®
GS	Grand Slam®
Mag-Tip™	Magnum Tip
Plinker®	Plinker
Solid	Solid
TMJ	Total Metal Jacket®
TNT™	Explosive
Varminter®	Varminter
Winchester	
PP	Power Point®
ST	Silver Tip™
Common	
BBWC	Bevel Base Wadcutter
BT	Boat Tail

Abbreviation	Description
Common cont.	
DEWC	Double Ended Wadcutter
FMJ	Full Metal Jacket
FN	Flat Nose
FP	Flat Point
HB	Hollow Base
HP	Hollow Point
J	Jacketed
L	Lead
Match	Match
MC	Metal Case
PHP	Plated Hollow Point
PSP	Pointed Soft Point
RN	Round Nose
SIL	Silhouette
SJ	Short-or Semi-Jacketed
SP	Spire Point or Soft Point
SPT, SPTZ	Spitzer
SST	Semi-Spitzer
SWC	Semi-Wadcutter
TC	Truncated Cone
WC	Wadcutter

357Magnum
.357" Diameter
110 grain
Sectional
Density .123

	Hornady HP/XTP	Remington JHP	Sierra JHC Blitz	Speer JHP	Winchester JHP
Ballistic Coefficient	.131	N/A	.135	.122	N/A
Ctg. Over All Length	1.573"	1.558"	1.565"	1.570"	1.560"

Reducing Cartridge Over All Length increases pressure greatly.

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 psi

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

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

Accurate Arms 5

Charge in grains	RGS™ .484" psi	fps
STOP		
10.3	35000	1670
10.2	34100	1654
10.1	33300	1638
10.0	32400	1622
9.9	31600	1607
9.8	30800	1591
9.7	29900	1575
9.6	29100	1560
9.5	28200	1544
9.4	27400	1528
9.3	26600	1513
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .484" psi	fps
STOP		
15.2	35000	1769
15.0	34500	1754
14.8	34100	1739
14.6	33600	1725
14.4	33200	1710
14.2	32700	1695
14.0	32300	1681
13.8	31800	1666
13.6	31400	1651
13.4	30900	1637
13.2	30500	1622
13.0	30100	1608
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .709" psi	fps
STOP		
7.6	35000	1512
7.5	33900	1494
7.4	32800	1476
7.3	31800	1459
7.2	30700	1441
7.1	29600	1424
7.0	28600	1406
6.9	27500	1389
6.8	26400	1371
6.7	25400	1354
6.6	24300	1336
6.5	23300	1319
STOP		

start here

Hodgdon HS-6

Charge in grains	RGS™ .692" psi	fps
STOP		
10.1	35000	1672
10.0	34200	1656
9.9	33400	1641
9.8	32700	1626
9.7	31900	1611
9.6	31200	1596
9.5	30400	1581
9.4	29600	1565
9.3	28900	1550
9.2	28100	1535
9.1	27400	1520
9.0	26600	1505
8.9	25900	1490
STOP		

start here

Hodgdon HS-7

Charge in grains	RGS™ .640" psi	fps
STOP		
11.2	35000	1685
11.1	34300	1671
11.0	33600	1657
10.9	32900	1643
10.8	32200	1629
10.7	31500	1615
10.6	30800	1602
10.5	30100	1588
10.4	29400	1574
10.3	28700	1560
10.2	28000	1546
10.1	27300	1532
10.0	26700	1519
STOP		

start here

RGS™ See page 5.

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.

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	RGS™ .484" psi	fps
STOP		
7.3	35000	1565
7.2	33900	1549
7.1	32800	1534
7.0	31700	1519
6.9	30600	1504
6.8	29500	1488
6.7	28400	1473
6.6	27300	1458
6.5	26300	1443
STOP		

start here

IMR 4227

Charge in grains	RGS™ .276" psi	fps
STOP		
* 19.0	29600	1718
18.8	29400	1708
18.6	29300	1698
18.4	29200	1689
18.2	29100	1679
18.0	29000	1670
17.8	28900	1660
17.6	28800	1651
17.4	28700	1641
17.2	28600	1632
17.0	28500	1622
16.8	28300	1612
16.6	28200	1603
16.4	28100	1593
16.2	28000	1584
16.0	27900	1574
15.8	27800	1565
15.6	27700	1555
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .674" psi	fps
STOP		
7.1	35000	1586
7.0	34200	1570
6.9	33400	1555
6.8	32600	1540
6.7	31800	1524
6.6	31000	1509
6.5	30300	1494
6.4	29500	1478
6.3	28700	1463
6.2	27900	1448
6.1	27100	1432
6.0	26300	1417
5.9	25600	1402
STOP		

start here

VihtaVuori N110

Charge in grains	RGS™ .259" psi	fps
STOP		
* 18.0	35000	1972
17.8	34300	1955
17.6	33700	1938
17.4	33100	1922
17.2	32500	1905
17.0	31900	1889
16.8	31300	1872
16.6	30700	1855
16.4	30000	1839
16.2	29400	1822
16.0	28800	1806
15.8	28200	1789
15.6	27600	1772
15.4	27000	1756
15.2	26400	1739
15.0	25800	1723
STOP		

start here

*Compressed load.

Winchester 296

Charge in grains	RGS™ .363" psi	fps
STOP		
* 21.0	35000	2033
20.8	34500	2019
20.6	34000	2006
20.4	33500	1993
20.2	33000	1980
20.0	32500	1967
19.8	32000	1954
19.6	31600	1940
19.4	31100	1927
19.2	30600	1914
19.0	30100	1901
18.8	29600	1888
18.6	29100	1875
18.4	28600	1862
18.2	28200	1848
18.0	27700	1835
17.8	27200	1822
17.6	26700	1809
STOP		

start here

*Compressed load.

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 5

RGS™ .346"

Charge in grains	psi	fps
STOP		
10.3	35000	1658
10.2	34200	1646
10.1	33400	1634
10.0	32600	1622
9.9	31800	1610
9.8	31000	1598
9.7	30200	1586
9.6	29400	1574
9.5	28600	1562
9.4	27800	1550
9.3	27000	1538
STOP		

start here

Alliant 2400

RGS™ .501"

Charge in grains	psi	fps
STOP		
15.3	35000	1740
15.2	34700	1733
15.0	34300	1719
14.8	33800	1705
14.6	33400	1691
14.4	33000	1677
14.2	32500	1663
14.0	32100	1649
13.8	31600	1635
13.6	31200	1621
13.4	30700	1607
13.2	30300	1593
13.0	29900	1580
STOP		

start here

Alliant Unique

RGS™ .553"

Charge in grains	psi	fps
STOP		
7.3	35000	1466
7.2	33800	1451
7.1	32600	1436
7.0	31500	1421
6.9	30300	1407
6.8	29100	1392
6.7	28000	1377
6.6	26800	1362
6.5	25700	1348
STOP		

start here

Hodgdon HS-6

RGS™ .519"

Charge in grains	psi	fps
STOP		
10.2	35000	1664
10.1	34200	1648
10.0	33400	1633
9.9	32600	1618
9.8	31800	1603
9.7	31000	1587
9.6	30200	1572
9.5	29500	1557
9.4	28700	1542
9.3	27900	1526
9.2	27100	1511
9.1	26300	1496
9.0	25500	1481
8.9	24800	1466
STOP		

start here

Hodgdon HS-7

RGS™ .709"

Charge in grains	psi	fps
STOP		
11.1	35000	1658
11.0	34300	1646
10.9	33700	1634
10.8	33000	1623
10.7	32400	1611
10.6	31700	1600
10.5	31100	1588
10.4	30400	1577
10.3	29800	1565
10.2	29100	1554
10.1	28500	1542
10.0	27900	1531
STOP		

start here

RGS™See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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.

Hodgdon Titegroup

Charge in grains	RGS™ .692" psi	fps
STOP		
7.3	35000	1568
7.2	34000	1553
7.1	33000	1539
7.0	32000	1524
6.9	31000	1510
6.8	30000	1495
6.7	29000	1481
6.6	28000	1466
6.5	27000	1452
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.

IMR 4227

Charge in grains	RGS™ .242" psi	fps
STOP		
* 19.0	29300	1713
18.8	29100	1703
18.6	29000	1693
18.4	28900	1683
18.2	28800	1673
18.0	28600	1663
17.8	28500	1653
17.6	28400	1644
17.4	28300	1634
17.2	28100	1624
17.0	28000	1614
16.8	27900	1604
16.6	27800	1594
16.4	27600	1584
16.2	27500	1575
16.0	27400	1565
15.8	27300	1555
15.6	27100	1545
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .536" psi	fps
STOP		
7.0	35000	1560
6.9	34200	1545
6.8	33500	1530
6.7	32700	1515
6.6	32000	1501
6.5	31300	1486
6.4	30500	1471
6.3	29800	1456
6.2	29100	1442
6.1	28300	1427
6.0	27600	1412
5.9	26900	1398
STOP		

start here

VihtaVuori N110

Charge in grains	RGS™ .467" psi	fps
STOP		
* 18.0	35000	1965
17.8	34300	1947
17.6	33700	1930
17.4	33100	1913
17.2	32400	1895
17.0	31800	1878
16.8	31200	1861
16.6	30500	1844
16.4	29900	1826
16.2	29300	1809
16.0	28600	1792
15.8	28000	1775
15.6	27400	1757
15.4	26700	1740
15.2	26100	1723
15.0	25500	1706
STOP		

start here

*Compressed load.

Winchester 296

Charge in grains	RGS™ .449" psi	fps
STOP		
* 21.0	35000	2041
20.8	34300	2023
20.6	33600	2005
20.4	32900	1987
20.2	32300	1970
20.0	31600	1952
19.8	30900	1934
19.6	30200	1917
19.4	29600	1899
19.2	28900	1881
19.0	28200	1864
18.8	27500	1846
18.6	26900	1828
18.4	26200	1810
18.2	25500	1793
18.0	24800	1775
17.8	24200	1757
17.6	23500	1740
STOP		

start here

*Compressed load.

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 5

RGS™ .432"

Charge in grains	psi	fps
STOP		
10.3	35000	1663
10.2	34000	1649
10.1	33000	1636
10.0	32100	1622
9.9	31100	1609
9.8	30200	1595
9.7	29200	1582
9.6	28200	1568
9.5	27300	1555
9.4	26300	1541
9.3	25400	1528
STOP		

start here

Alliant 2400

RGS™ .380"

Charge in grains	psi	fps
STOP		
15.5	35000	1778
15.4	34700	1770
15.2	34100	1754
15.0	33500	1738
14.8	32900	1722
14.6	32300	1707
14.4	31700	1691
14.2	31100	1675
14.0	30500	1659
13.8	29900	1644
13.6	29300	1628
13.4	28700	1612
13.2	28100	1596
13.0	27500	1581
STOP		

start here

Alliant Unique

RGS™ .380"

Charge in grains	psi	fps
STOP		
7.5	35000	1531
7.4	34000	1516
7.3	33100	1502
7.2	32200	1488
7.1	31300	1474
7.0	30400	1460
6.9	29400	1445
6.8	28500	1431
6.7	27600	1417
6.6	26700	1403
6.5	25800	1389
STOP		

start here

Hodgdon HS-6

RGS™ .519"

Charge in grains	psi	fps
STOP		
10.2	35000	1665
10.1	34100	1649
10.0	33200	1634
9.9	32400	1619
9.8	31500	1604
9.7	30600	1589
9.6	29800	1574
9.5	28900	1558
9.4	28100	1543
9.3	27200	1528
9.2	26300	1513
9.1	25500	1498
9.0	24600	1483
8.9	23800	1468
STOP		

start here

Hodgdon HS-7

RGS™ .397"

Charge in grains	psi	fps
STOP		
11.2	35000	1680
11.1	34300	1666
11.0	33700	1653
10.9	33000	1640
10.8	32400	1627
10.7	31700	1613
10.6	31100	1600
10.5	30500	1587
10.4	29800	1574
10.3	29200	1560
10.2	28500	1547
10.1	27900	1534
10.0	27300	1521
STOP		

start here

RGS™See page 5.

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

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

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

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

Hodgdon Titegroup

Charge in grains	RGS™ .467" psi	fps
STOP		
7.4	35000	1592
7.3	34000	1577
7.2	33000	1562
7.1	32100	1547
7.0	31100	1532
6.9	30100	1517
6.8	29200	1502
6.7	28200	1487
6.6	27200	1472
6.5	26300	1458
STOP		

start here

IMR 4227

Charge in grains	RGS™ .346" psi	fps
STOP		
* 19.0	29300	1719
18.8	29100	1709
18.6	29000	1699
18.4	28800	1689
18.2	28700	1680
18.0	28500	1670
17.8	28400	1660
17.6	28200	1650
17.4	28100	1641
17.2	27900	1631
17.0	27800	1621
16.8	27700	1611
16.6	27500	1602
16.4	27400	1592
16.2	27200	1582
16.0	27100	1572
15.8	26900	1563
15.6	26800	1553
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .847" psi	fps
STOP		
7.0	35000	1577
6.9	34200	1561
6.8	33400	1545
6.7	32600	1530
6.6	31800	1514
6.5	31000	1498
6.4	30200	1483
6.3	29400	1467
6.2	28600	1451
6.1	27800	1436
6.0	27000	1420
5.9	26300	1405
STOP		

start here

VihtaVuori N110

Charge in grains	RGS™ .346" psi	fps
STOP		
* 18.0	35000	1969
17.8	34300	1952
17.6	33700	1935
17.4	33100	1918
17.2	32500	1901
17.0	31900	1884
16.8	31200	1867
16.6	30600	1850
16.4	30000	1834
16.2	29400	1817
16.0	28800	1800
15.8	28100	1783
15.6	27500	1766
15.4	26900	1749
15.2	26300	1732
15.0	25700	1716
STOP		

start here

*Compressed load.

Winchester 296

Charge in grains	RGS™ .415" psi	fps
STOP		
* 21.0	31100	2025
20.8	30700	2010
20.6	30300	1996
20.4	29900	1982
20.2	29500	1968
20.0	29200	1954
19.8	28800	1939
19.6	28400	1925
19.4	28000	1911
19.2	27600	1897
19.0	27300	1883
18.8	26900	1868
18.6	26500	1854
18.4	26100	1840
18.2	25700	1826
18.0	25400	1812
17.8	25000	1797
17.6	24600	1783
STOP		

start here

*Compressed load.

RGS™ See page 5.

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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 5

Charge in grains	RGS™ .501" psi	fps
STOP		
10.4	35000	1657
10.3	34200	1642
10.2	33400	1628
10.1	32600	1614
10.0	31800	1599
9.9	31000	1585
9.8	30300	1571
9.7	29500	1557
9.6	28700	1542
9.5	27900	1528
9.4	27100	1514
9.3	26400	1500
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .397" psi	fps
STOP		
15.8	35000	1767
15.6	34400	1751
15.4	33900	1735
15.2	33300	1720
15.0	32800	1704
14.8	32300	1688
14.6	31700	1673
14.4	31200	1657
14.2	30700	1641
14.0	30100	1626
13.8	29600	1610
13.6	29100	1594
13.4	28500	1579
13.2	28000	1563
13.0	27500	1548
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .605" psi	fps
STOP		
7.4	35000	1454
7.3	34000	1442
7.2	33000	1430
7.1	32000	1419
7.0	31000	1407
6.9	30000	1395
6.8	29000	1384
6.7	28000	1372
6.6	27000	1360
6.5	26000	1349
STOP		

start here

Hodgdon HS-6

Charge in grains	RGS™ .363" psi	fps
STOP		
10.3	35000	1668
10.2	34200	1653
10.1	33400	1638
10.0	32600	1624
9.9	31900	1609
9.8	31100	1594
9.7	30300	1580
9.6	29600	1565
9.5	28800	1550
9.4	28000	1536
9.3	27200	1521
9.2	26500	1506
9.1	25700	1492
9.0	24900	1477
8.9	24200	1463
STOP		

start here

Hodgdon HS-7

Charge in grains	RGS™ .328" psi	fps
STOP		
11.3	35000	1675
11.2	34300	1661
11.1	33600	1647
11.0	32900	1633
10.9	32200	1619
10.8	31500	1605
10.7	30800	1591
10.6	30100	1578
10.5	29400	1564
10.4	28700	1550
10.3	28000	1536
10.2	27300	1522
10.1	26600	1508
10.0	25900	1495
STOP		

start here

RGS™See page 5.

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

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

Hodgdon Titegroup

RGS™ .519"

Charge in grains	psi	fps
STOP		
7.5	35000	1594
7.4	34100	1579
7.3	33200	1564
7.2	32300	1549
7.1	31400	1534
7.0	30500	1519
6.9	29600	1504
6.8	28700	1489
6.7	27800	1474
6.6	26900	1459
6.5	26100	1444
STOP		

start here

IMR 4227

RGS™ .276"

Charge in grains	psi	fps
STOP		
* 19.0	28900	1702
18.8	28800	1692
18.6	28700	1682
18.4	28600	1672
18.2	28500	1662
18.0	28500	1652
17.8	28400	1642
17.6	28300	1633
17.4	28200	1623
17.2	28100	1613
17.0	28100	1603
16.8	28000	1593
16.6	27900	1583
16.4	27800	1573
16.2	27700	1564
16.0	27700	1554
15.8	27600	1544
15.6	27500	1534
STOP		

start here

*Compressed load.

IMR 700X

RGS™ .501"

Charge in grains	psi	fps
STOP		
7.0	35000	1517
6.9	34100	1502
6.8	33300	1488
6.7	32500	1473
6.6	31700	1459
6.5	30900	1445
6.4	30000	1430
6.3	29200	1416
6.2	28400	1402
6.1	27600	1387
6.0	26800	1373
5.9	26000	1359
STOP		

start here

VihtaVuori N110

RGS™ .363"

Charge in grains	psi	fps
STOP		
* 18.0	35000	1967
17.8	34400	1951
17.6	33900	1935
17.4	33400	1919
17.2	32800	1903
17.0	32300	1887
16.8	31800	1871
16.6	31200	1855
16.4	30700	1839
16.2	30200	1823
16.0	29600	1807
15.8	29100	1791
15.6	28600	1775
15.4	28000	1759
15.2	27500	1743
15.0	27000	1727
STOP		

start here

*Compressed load.

Winchester 296

RGS™ .224"

Charge in grains	psi	fps
STOP		
* 21.0	35000	2008
20.8	34700	1998
20.6	34400	1988
20.4	34100	1979
20.2	33800	1969
20.0	33500	1959
19.8	33200	1950
19.6	32900	1940
19.4	32600	1930
19.2	32300	1921
19.0	32000	1911
18.8	31700	1901
18.6	31400	1892
18.4	31100	1882
18.2	30800	1872
18.0	30500	1863
17.8	30200	1853
17.6	29900	1843
STOP		

start here

*Compressed load.

RGS™See page 5.

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

Accurate Arms 5

Charge in grains	RGS™ .380" psi	fps
STOP		
10.7	35000	1694
10.6	34300	1680
10.5	33600	1666
10.4	32900	1652
10.3	32200	1638
10.2	31500	1624
10.1	30800	1610
10.0	30100	1596
9.9	29400	1582
9.8	28700	1568
9.7	28000	1554
9.6	27300	1540
9.5	26600	1526
9.4	25900	1512
9.3	25300	1498
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .484" psi	fps
STOP		
16.0	35000	1784
15.8	34600	1771
15.6	34300	1758
15.4	34000	1746
15.2	33700	1733
15.0	33400	1721
14.8	33000	1708
14.6	32700	1695
14.4	32400	1683
14.2	32100	1670
14.0	31800	1658
13.8	31400	1645
13.6	31100	1632
13.4	30800	1620
13.2	30500	1607
13.0	30200	1595
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .692" psi	fps
STOP		
7.4	35000	1490
7.3	34000	1476
7.2	33100	1462
7.1	32200	1448
7.0	31200	1434
6.9	30300	1420
6.8	29400	1406
6.7	28400	1392
6.6	27500	1378
6.5	26600	1365
STOP		

start here

Hodgdon HS-6

Charge in grains	RGS™ .363" psi	fps
STOP		
10.3	35000	1683
10.2	34200	1668
10.1	33500	1654
10.0	32800	1640
9.9	32100	1626
9.8	31300	1612
9.7	30600	1598
9.6	29900	1584
9.5	29200	1569
9.4	28500	1555
9.3	27700	1541
9.2	27000	1527
9.1	26300	1513
9.0	25600	1499
8.9	24900	1485
STOP		

start here

Hodgdon HS-7

Charge in grains	RGS™ .432" psi	fps
STOP		
11.3	35000	1685
11.2	34300	1671
11.1	33700	1658
11.0	33000	1644
10.9	32400	1631
10.8	31800	1617
10.7	31100	1604
10.6	30500	1590
10.5	29800	1577
10.4	29200	1563
10.3	28600	1550
10.2	27900	1536
10.1	27300	1523
10.0	26700	1510
STOP		

start here

RGS™ See page 5.

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

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

Hodgdon Titegroup

Charge in grains	RGS™ .519" psi	fps
STOP		
7.5	35000	1602
7.4	34100	1587
7.3	33300	1572
7.2	32500	1557
7.1	31600	1542
7.0	30800	1527
6.9	30000	1512
6.8	29100	1497
6.7 start here	28300	1482
6.6	27500	1467
6.5	26700	1452
STOP		

IMR 4227

Charge in grains	RGS™ .276" psi	fps
STOP		
* 19.0	27700	1686
18.8	27600	1677
18.6	27600	1668
18.4	27500	1659
18.2	27500	1650
18.0	27400	1642
17.8	27400	1633
17.6	27300	1624
17.4	27300	1615
17.2	27200	1606
17.0	27200	1598
16.8	27200	1589
16.6	27100	1580
16.4	27100	1571
16.2	27000	1562
16.0 start here	27000	1554
15.8	26900	1545
15.6	26900	1536
STOP		

*Compressed load.

IMR 700X

Charge in grains	RGS™ .484" psi	fps
STOP		
7.0	35000	1557
6.9	34100	1540
6.8	33300	1523
6.7	32500	1506
6.6	31700	1489
6.5	30900	1472
6.4	30100	1456
6.3	29300	1439
6.2	28500	1422
6.1 start here	27700	1405
6.0	26900	1388
5.9	26100	1372
STOP		

VihtaVuori N110

Charge in grains	RGS™ .432" psi	fps
STOP		
* 18.0	35000	1948
17.8	34400	1932
17.6	33800	1916
17.4	33200	1900
17.2	32600	1885
17.0	32000	1869
16.8	31400	1853
16.6	30800	1837
16.4	30200	1822
16.2	29600	1806
16.0	29000	1790
15.8	28400	1774
15.6	27800	1759
15.4 start here	27200	1743
15.2	26600	1727
15.0	26100	1712
STOP		

*Compressed load.

Winchester 296

Charge in grains	RGS™ .224" psi	fps
STOP		
* 21.0	29700	1994
20.8	29200	1977
20.6	28800	1960
20.4	28400	1944
20.2	28000	1927
20.0	27600	1911
19.8	27100	1894
19.6	26700	1878
19.4	26300	1861
19.2	25900	1845
19.0	25500	1828
18.8	25000	1811
18.6	24600	1795
18.4	24200	1778
18.2	23800	1762
18.0 start here	23400	1745
17.8	22900	1729
17.6	22500	1712
STOP		

*Compressed load.

RGS™ See page 5.

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357Magnum
.357" Diameter
115 grain
Sectional
Density .129

	Nosler PP
Ballistic Coefficient	.110
Ctg. Over All Length	1.555

Reducing Cartridge Over All Length increases pressure greatly.

BULLET	PAGE
Nosler Practical Pistol	Jacketed 25

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 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

RGS™ .675"

Charge in grains	psi	fps
STOP		
9.8	35000	1608
9.7	34200	1592
9.6	33500	1576
9.5	32800	1561
9.4	32000	1545
9.3	31300	1529
9.2	30600	1514
9.1	29800	1498
9.0	29100	1483
8.9	28400	1467
8.8	27600	1451
8.7	26900	1436
8.6	26200	1420
8.5	25500	1405
STOP		

start here

Hodgdon Titegroup

RGS™ .692"

Charge in grains	psi	fps
STOP		
7.1	35000	1544
7.0	34200	1529
6.9	33400	1514
6.8	32600	1500
6.7	31800	1485
6.6	31000	1471
6.5	30300	1456
6.4	29500	1441
6.3	28700	1427
6.2	27900	1412
6.1	27100	1398
6.0	26300	1383
5.9	25600	1369
STOP		

start here

IMR 4227

RGS™ .432"

Charge in grains	psi	fps
STOP		
* 18.0	35000	1721
17.8	34500	1708
17.6	34100	1695
17.4	33600	1682
17.2	33200	1670
17.0	32800	1657
16.8	32300	1644
16.6	31900	1631
16.4	31400	1619
16.2	31000	1606
16.0	30600	1593
15.8	30100	1580
15.6	29700	1568
15.4	29200	1555
15.2	28800	1542
15.0	28400	1530
STOP		

start here

*Compressed load.

IMR 700X

RGS™ .415"

Charge in grains	psi	fps
STOP		
* 6.6	35000	1494
6.5	34100	1476
6.4	33200	1459
6.3	32300	1441
6.2	31400	1424
6.1	30500	1406
6.0	29600	1389
5.9	28700	1371
5.8	27900	1354
STOP		

start here

Winchester 296

RGS™ .311"

Charge in grains	psi	fps
STOP		
* 19.0	35000	1934
18.8	34700	1925
18.6	34500	1916
18.4	34300	1907
18.2	34000	1898
18.0	33800	1889
17.8	33600	1880
17.6	33300	1871
17.4	33100	1862
17.2	32900	1853
17.0	32700	1844
16.8	32400	1835
16.6	32200	1826
16.4	32000	1817
16.2	31700	1808
16.0	31500	1799
15.8	31300	1790
15.6	31000	1781
STOP		

start here

*Compressed load.

RGS™ See page 5.

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

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

357Magnum

.357" Diameter
125 grain
Sectional
Density .140

	Hornady FP/XTP	Hornady HP/XTP	Nosler JHP	Rainier JFP	Rainier JHP	Remington 38GS	Remington 357GS	Remington JHP	Remington JSP	Sierra JHC
Ballistic Coefficient	.148	.151	.143	N/A	N/A	N/A	N/A	N/A	N/A	.135
Ctg. Over All Length	1.580	1.576	1.560	1.545	1.550	1.540	1.560	1.545	1.570	1.568

	Sierra JSP	Speer GDHP	Speer JHP	Speer JSP	Speer TMJ	Winchester SJHP
Ballistic Coefficient	.133	.140	.135	.140	.146	N/A
Ctg. Over All Length	1.584	1.570	1.573	1.575	1.580	1.555

Reducing Cartridge Over All Length increases pressure greatly.

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 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

RGS™ .242"

Charge in grains	psi	fps
STOP		
13.0	35000	1622
12.9	34500	1611
12.7	33500	1591
12.5	32600	1570
12.3	31600	1549
12.1	30700	1529
11.9	29800	1508
11.7	28800	1487
11.5	27900	1467
11.3	26900	1446
11.1	26000	1425
10.9	25000	1405
10.7	24100	1384
10.5	23200	1364
STOP		

start here

Alliant 2400

RGS™ .519"

Charge in grains	psi	fps
STOP		
13.1	35000	1593
13.0	34600	1583
12.8	33900	1564
12.6	33200	1545
12.4	32500	1526
12.2	31800	1507
12.0	31100	1488
11.8	30400	1469
11.6	29700	1450
11.4	29000	1431
11.2	28300	1412
11.0	27700	1394
STOP		

start here

Alliant Unique

RGS™ .398"

Charge in grains	psi	fps
STOP		
7.0	35000	1401
6.9	34100	1381
6.8	33300	1362
6.7	32500	1342
6.6	31600	1323
6.5	30800	1303
6.4	30000	1284
6.3	29200	1264
6.2	28300	1245
6.1	27500	1225
6.0	26700	1206
5.9	25900	1186
5.8	25000	1167
5.7	24200	1147
5.6	23400	1128
5.5	22600	1109
STOP		

start here

Hodgdon 110

RGS™ .207"

Charge in grains	psi	fps
STOP		
19.3	35000	1844
19.2	34500	1834
19.0	33500	1814
18.8	32600	1794
18.6	31700	1775
18.4	30700	1755
18.2	29800	1735
18.0	28800	1716
17.8	27900	1696
17.6	27000	1676
17.4	26000	1657
17.2	25100	1637
17.0	24200	1618
STOP		

start here

Hodgdon HS-6

RGS™ .432"

Charge in grains	psi	fps
STOP		
9.8	35000	1593
9.7	34200	1578
9.6	33500	1564
9.5	32800	1550
9.4	32000	1536
9.3	31300	1521
9.2	30600	1507
9.1	29800	1493
9.0	29100	1479
8.9	28400	1464
8.8	27600	1450
8.7	26900	1436
8.6	26200	1422
8.5	25500	1408
STOP		

start here

RGS™ See page 5.

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

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

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

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

Hodgdon HS-7

Charge in grains	RGS™ .571" psi	fps
STOP		
10.5	35000	1553
10.4	34100	1538
10.3	33200	1523
10.2	32400	1509
10.1	31500	1494
10.0	30700	1479
9.9	29800	1465
9.8	29000	1450
9.7	28100	1436
9.6	27300	1421
9.5	26400	1406
9.4	25600	1392
9.3	24700	1377
9.2	23900	1363
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .450" psi	fps
STOP		
7.0	35000	1497
6.9	34000	1480
6.8	33000	1463
6.7	32100	1446
6.6	31100	1430
6.5	30200	1413
6.4	29200	1396
6.3	28200	1380
6.2	27300	1363
6.1	26300	1346
6.0	25400	1330
STOP		

start here

IMR 4227

Charge in grains	RGS™ .260" psi	fps
STOP		
* 18.0	35000	1663
17.9	34700	1655
17.7	34100	1641
17.5	33500	1627
17.3	32900	1613
17.1	32300	1598
16.9	31700	1584
16.7	31100	1570
16.5	30500	1556
16.3	29900	1541
16.1	29300	1527
15.9	28700	1513
15.7	28100	1499
15.5	27500	1485
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .346" psi	fps
STOP		
6.6	35000	1451
6.5	34200	1436
6.4	33500	1421
6.3	32800	1406
6.2	32100	1391
6.1	31300	1376
6.0	30600	1361
5.9	29900	1346
5.8	29200	1331
5.7	28500	1316
5.6	27700	1301
5.5	27000	1286
5.4	26300	1271
5.3	25600	1256
5.2	24800	1241
5.1	24100	1226
5.0	23400	1211
4.9	22700	1196
4.8	22000	1182
STOP		

start here

Winchester 296

Charge in grains	RGS™ .225" psi	fps
STOP		
19.9	35000	1912
19.8	34600	1903
19.6	33900	1885
19.4	33300	1868
19.2	32600	1850
19.0	31900	1833
18.8	31300	1816
18.6	30600	1798
18.4	29900	1781
18.2	29300	1763
18.0	28600	1746
17.8	27900	1728
17.6	27300	1711
17.4	26600	1693
17.2	25900	1676
17.0	25300	1659
STOP		

start here

RGS™ See page 5.

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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 9

Charge in grains	RGS™ .225" psi	fps
STOP		
13.0	35000	1623
12.9	34500	1612
12.7	33500	1590
12.5	32600	1569
12.3	31600	1547
12.1	30700	1526
11.9	29800	1505
11.7	28800	1483
11.5	27900	1462
11.3	26900	1440
11.1	26000	1419
10.9	25000	1397
10.7	24100	1376
10.5	23200	1355
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .450" psi	fps
STOP		
13.1	35000	1576
13.0	34600	1566
12.8	33900	1547
12.6	33100	1528
12.4	32400	1509
12.2	31700	1490
12.0	31000	1471
11.8	30200	1452
11.6	29500	1433
11.4	28800	1414
11.2	28100	1395
11.0	27400	1376
STOP		

start here

Alliant Unique

Charge in grains	RGS™ 1.089" psi	fps
STOP		
7.0	35000	1383
6.9	34100	1366
6.8	33200	1350
6.7	32300	1334
6.6	31400	1318
6.5	30500	1302
6.4	29600	1286
6.3	28700	1270
6.2	27900	1254
6.1	27000	1238
6.0	26100	1222
5.9	25200	1206
5.8	24300	1190
5.7	23400	1174
5.6	22500	1158
5.5	21700	1142
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .260" psi	fps
STOP		
19.4	35000	1835
19.2	34000	1816
19.0	33100	1797
18.8	32200	1778
18.6	31300	1759
18.4	30400	1740
18.2	29500	1721
18.0	28600	1702
17.8	27700	1683
17.6	26800	1664
17.4	25900	1645
17.2	25000	1626
17.0	24100	1607
STOP		

start here

Hodgdon HS-6

Charge in grains	RGS™ .363" psi	fps
STOP		
9.6	35000	1540
9.5	34100	1526
9.4	33200	1512
9.3	32300	1498
9.2	31400	1484
9.1	30500	1470
9.0	29700	1457
8.9	28800	1443
8.8	27900	1429
8.7	27000	1415
8.6	26100	1401
8.5	25300	1388
STOP		

start here

RGS™See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 HS-7

RGS™ .346"

Charge in grains	psi	fps
STOP		
10.5	35000	1559
10.4	34200	1544
10.3	33400	1529
10.2	32600	1514
10.1	31800	1500
10.0	31100	1485
9.9	30300	1470
9.8	29500	1456
9.7	28700	1441
9.6	28000	1426
9.5	27200	1412
9.4	26400	1397
9.3	25600	1382
9.2	24900	1368
STOP		

start here

Hodgdon Titegroup

RGS™ .484"

Charge in grains	psi	fps
STOP		
6.9	35000	1473
6.8	34000	1455
6.7	33100	1438
6.6	32200	1421
6.5	31200	1404
6.4	30300	1387
6.3	29400	1370
6.2	28400	1353
6.1	27500	1336
6.0	26600	1319
STOP		

start here

IMR 4227

RGS™ .311"

Charge in grains	psi	fps
STOP		
* 18.0	31400	1603
17.9	31200	1596
17.7	30800	1584
17.5	30400	1572
17.3	30000	1559
17.1	29600	1547
16.9	29200	1535
16.7	28900	1522
16.5	28500	1510
16.3	28100	1498
16.1	27700	1485
15.9	27300	1473
15.7	26900	1461
15.5	26600	1449
STOP		

start here

*Compressed load.

IMR 700X

RGS™ .398"

Charge in grains	psi	fps
STOP		
6.6	35000	1444
6.5	34200	1426
6.4	33400	1409
6.3	32600	1392
6.2	31800	1374
6.1	31000	1357
6.0	30200	1340
5.9	29400	1322
5.8	28600	1305
5.7	27900	1288
5.6	27100	1270
5.5	26300	1253
5.4	25500	1236
5.3	24700	1218
5.2	23900	1201
5.1	23100	1184
5.0	22300	1166
4.9	21500	1149
4.8	20800	1132
STOP		

start here

Winchester 296

RGS™ .260"

Charge in grains	psi	fps
STOP		
19.9	35000	1869
19.8	34600	1860
19.6	33800	1843
19.4	33100	1827
19.2	32300	1810
19.0	31500	1793
18.8	30800	1777
18.6	30000	1760
18.4	29300	1743
18.2	28500	1727
18.0	27700	1710
17.8	27000	1693
17.6	26200	1677
17.4	25500	1660
17.2	24700	1643
17.0	24000	1627
STOP		

start here

RGS™See page 5.

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

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

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

Accurate Arms 9

Charge in grains	RGS™ .553" psi	fps
STOP		
13.0	35000	1635
12.9	34500	1624
12.7	33600	1602
12.5	32700	1580
12.3	31800	1559
12.1	30900	1537
11.9	30000	1515
11.7	29100	1494
11.5	28200	1472
11.3	27300	1450
11.1	26400	1429
10.9	25500	1407
10.7	24600	1385
10.5	23700	1364
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .640" psi	fps
STOP		
12.7	35000	1605
12.6	34600	1595
12.5	34200	1586
12.4	33900	1577
12.3	33500	1568
12.2	33200	1558
12.1	32800	1549
12.0	32400	1540
11.9	32100	1531
11.8	31700	1521
11.7	31400	1512
11.6	31000	1503
11.5	30600	1494
11.4	30300	1484
11.3	29900	1475
11.2	29600	1466
11.1	29200	1457
11.0	28900	1448
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .657" psi	fps
STOP		
6.9	35000	1417
6.8	34200	1402
6.7	33500	1388
6.6	32800	1373
6.5	32000	1359
6.4	31300	1344
6.3	30600	1330
6.2	29900	1315
6.1	29100	1301
6.0	28400	1286
5.9	27700	1272
5.8	26900	1257
5.7	26200	1243
5.6	25500	1228
5.5	24800	1214
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .571" psi	fps
STOP		
19.0	35000	1850
18.9	34500	1839
18.8	34100	1829
18.7	33600	1819
18.6	33200	1809
18.5	32700	1799
18.4	32300	1789
18.3	31800	1778
18.2	31400	1768
18.1	30900	1758
18.0	30500	1748
17.9	30000	1738
17.8	29600	1728
17.7	29100	1718
17.6	28700	1707
17.5	28200	1697
17.4	27800	1687
17.3	27300	1677
17.2	26900	1667
STOP		

start here

Hodgdon HS-6

Charge in grains	RGS™ .675" psi	fps
STOP		
9.5	35000	1585
9.4	34200	1569
9.3	33400	1554
9.2	32600	1538
9.1	31800	1523
9.0	31000	1508
8.9	30200	1492
8.8	29400	1477
8.7	28600	1461
8.6	27800	1446
8.5	27000	1431
STOP		

start here

RGS™See page 5.

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

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

Hodgdon HS-7

Charge in grains	RGS™ .709" psi	fps
STOP		
10.5	35000	1576
10.4	34100	1560
10.3	33300	1545
10.2	32500	1530
10.1	31700	1515
10.0	30800	1500
9.9	30000	1485
9.8	29200	1469
9.7	28400	1454
9.6	27500	1439
9.5	26700	1424
9.4	25900	1409
9.3	25100	1394
9.2	24300	1379
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ 1.322" psi	fps
STOP		
6.9	35000	1507
6.8	34000	1491
6.7	33100	1475
6.6	32200	1460
6.5	31200	1444
6.4	30300	1429
6.3	29400	1413
6.2	28400	1398
6.1	27500	1382
6.0	26600	1367
STOP		

start here

IMR 4227

Charge in grains	RGS™ .847" psi	fps
STOP		
* 17.7	35000	1654
17.5	34300	1638
17.3	33600	1622
17.1	32900	1606
16.9	32200	1590
16.7	31500	1574
16.5	30800	1558
16.3	30100	1542
16.1	29400	1526
15.9	28700	1510
15.7	28000	1494
15.5	27300	1478
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ 1.055" psi	fps
STOP		
6.5	35000	1455
6.4	34200	1439
6.3	33400	1424
6.2	32700	1408
6.1	31900	1393
6.0	31200	1377
5.9	30400	1362
5.8	29700	1347
5.7	28900	1331
5.6	28200	1316
5.5	27400	1300
5.4	26700	1285
5.3	25900	1270
5.2	25200	1254
5.1	24400	1239
5.0	23700	1223
4.9	22900	1208
4.8	22200	1193
STOP		

start here

Winchester 296

Charge in grains	RGS™ .519" psi	fps
STOP		
19.2	35000	1897
19.0	34200	1877
18.8	33400	1857
18.6	32600	1838
18.4	31800	1818
18.2	31000	1798
18.0	30300	1779
17.8	29500	1759
17.6	28700	1739
17.4	27900	1720
17.2	27100	1700
17.0	26400	1681
STOP		

start here

RGS™ See page 5.

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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 9

Charge in grains	RGS™ .571" psi	fps
STOP		
13.0	35000	1648
12.9	34500	1636
12.7	33500	1613
12.5	32500	1590
12.3	31500	1567
12.1	30500	1545
11.9	29500	1522
11.7	28500	1499
11.5	27500	1476
11.3	26500	1453
11.1	25500	1430
start here 10.9	24500	1407
10.7	23500	1384
10.5	22600	1362
STOP		

Alliant 2400

Charge in grains	RGS™ .726" psi	fps
STOP		
13.0	35000	1586
12.9	34600	1576
12.8	34200	1567
12.7	33800	1558
12.6	33500	1549
12.5	33100	1540
12.4	32700	1531
12.3	32300	1522
12.2	32000	1513
12.1	31600	1504
12.0	31200	1495
11.9	30800	1486
11.8	30500	1477
11.7	30100	1468
11.6	29700	1459
11.5	29300	1450
start here 11.4	29000	1441
11.3	28600	1432
11.2	28200	1423
STOP		

Alliant Unique

Charge in grains	RGS™ 3.892" psi	fps
STOP		
7.0	35000	1422
6.9	34000	1404
6.8	33100	1387
6.7	32100	1370
6.6	31200	1353
6.5	30300	1336
6.4	29300	1318
6.3	28400	1301
6.2	27400	1284
6.1	26500	1267
6.0	25600	1250
5.9	24600	1232
5.8	23700	1215
start here 5.7	22700	1198
5.6	21800	1181
5.5	20900	1164
STOP		

Hodgdon 110

Charge in grains	RGS™ .433" psi	fps
STOP		
19.0	35000	1866
18.9	34600	1856
18.8	34200	1847
18.7	33900	1838
18.6	33500	1829
18.5	33200	1820
18.4	32800	1810
18.3	32400	1801
18.2	32100	1792
18.1	31700	1783
18.0	31400	1774
17.9	31000	1764
17.8	30600	1755
17.7	30300	1746
17.6	29900	1737
17.5	29600	1728
start here 17.4	29200	1718
17.3	28800	1709
17.2	28500	1700
STOP		

Hodgdon HS-6

Charge in grains	RGS™ .657" psi	fps
STOP		
9.6	35000	1569
9.5	34100	1555
9.4	33300	1541
9.3	32500	1527
9.2	31700	1513
9.1	30900	1499
9.0	30000	1486
8.9	29200	1472
8.8	28400	1458
start here 8.7	27600	1444
8.6	26800	1430
8.5	26000	1417
STOP		

RGS™See page 5.

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

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Hodgdon HS-7

RGS™ .588"

Charge in grains	psi	fps
STOP		
10.6	35000	1572
10.5	34200	1558
10.4	33400	1544
10.3	32700	1530
10.2	31900	1516
10.1	31100	1503
10.0	30400	1489
9.9	29600	1475
9.8	28800	1461
9.7	28100	1447
9.6	27300	1434
9.5	26500	1420
9.4	25800	1406
9.3	25000	1392
9.2	24300	1379
STOP		

start here

Hodgdon Titegroup

RGS™ 4.671"

Charge in grains	psi	fps
STOP		
6.9	35000	1500
6.8	33900	1480
6.7	32900	1461
6.6	31900	1441
6.5	30800	1422
6.4	29800	1402
6.3	28800	1383
6.2	27700	1363
6.1	26700	1344
6.0	25700	1325
STOP		

start here

IMR 4227

RGS™ .398"

Charge in grains	psi	fps
STOP		
* 18.0	35000	1671
17.9	34700	1662
17.7	34100	1646
17.5	33500	1629
17.3	32900	1613
17.1	32300	1596
16.9	31700	1579
16.7	31100	1563
16.5	30500	1546
16.3	29900	1530
16.1	29300	1513
15.9	28700	1497
15.7	28100	1480
15.5	27500	1464
STOP		

start here

*Compressed load.

IMR 700X

RGS™ 3.494"

Charge in grains	psi	fps
STOP		
6.6	35000	1463
6.5	34200	1447
6.4	33400	1431
6.3	32700	1415
6.2	31900	1399
6.1	31200	1383
6.0	30400	1367
5.9	29700	1351
5.8	28900	1335
5.7	28200	1320
5.6	27400	1304
5.5	26600	1288
5.4	25900	1272
5.3	25100	1256
5.2	24400	1240
5.1	23600	1224
5.0	22900	1208
4.9	22100	1192
4.8	21400	1177
STOP		

start here

Winchester 296

RGS™ .709"

Charge in grains	psi	fps
STOP		
19.6	35000	1917
19.4	34200	1897
19.2	33500	1877
19.0	32800	1858
18.8	32100	1838
18.6	31300	1818
18.4	30600	1799
18.2	29900	1779
18.0	29200	1760
17.8	28400	1740
17.6	27700	1720
17.4	27000	1701
17.2	26300	1681
17.0	25600	1662
STOP		

start here

RGS™ See page 5.

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Accurate Arms 9

Charge in grains	RGS™ .623" psi	fps
STOP		
12.8	35000	1619
12.7	34400	1606
12.5	33400	1582
12.3	32400	1557
12.1	31300	1533
11.9	30300	1509
11.7	29300	1484
11.5	28200	1460
11.3	27200	1435
11.1	26200	1411
10.9	25100	1386
10.7	24100	1362
10.5	23100	1338
STOP		

start here

Alliant 2400

Charge in grains	RGS™ 1.107" psi	fps
STOP		
12.6	35000	1557
12.5	34500	1546
12.4	34000	1535
12.3	33600	1525
12.2	33100	1514
12.1	32700	1503
12.0	32200	1493
11.9	31800	1482
11.8	31300	1472
11.7	30800	1461
11.6	30400	1450
11.5	29900	1440
11.4	29500	1429
11.3	29000	1418
11.2	28600	1408
11.1	28100	1397
11.0	27700	1387
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .917" psi	fps
STOP		
6.9	35000	1405
6.8	34000	1385
6.7	33000	1366
6.6	32000	1346
6.5	31000	1327
6.4	30000	1307
6.3	29000	1288
6.2	28000	1269
6.1	27000	1249
6.0	26000	1230
5.9	25000	1210
5.8	24000	1191
5.7	23000	1171
5.6	22000	1152
5.5	21000	1133
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .415" psi	fps
STOP		
18.5	35000	1820
18.4	34500	1810
18.3	34000	1800
18.2	33500	1790
18.1	33000	1780
18.0	32600	1770
17.9	32100	1760
17.8	31600	1750
17.7	31100	1740
17.6	30600	1730
17.5	30200	1720
17.4	29700	1710
17.3	29200	1700
17.2	28700	1690
17.1	28200	1680
17.0	27800	1671
STOP		

start here

Hodgdon HS-6

Charge in grains	RGS™ .623" psi	fps
STOP		
9.6	35000	1553
9.5	34100	1537
9.4	33200	1522
9.3	32300	1507
9.2	31400	1491
9.1	30500	1476
9.0	29600	1461
8.9	28700	1446
8.8	27800	1430
8.7	26900	1415
8.6	26000	1400
8.5	25200	1385
STOP		

start here

RGS™See page 5.

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

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

Hodgdon HS-7

Charge in grains	RGS™ .622" psi	fps
STOP		
10.5	35000	1566
10.4	34100	1550
10.3	33200	1534
10.2	32400	1518
10.1	31500	1502
10.0	30700	1487
9.9	29800	1471
9.8	29000	1455
9.7	28100	1439
9.6	27300	1424
9.5	26400	1408
9.4	25600	1392
9.3	24700	1376
9.2	23900	1361
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .951" psi	fps
STOP		
6.9	35000	1514
6.8	34000	1497
6.7	33100	1480
6.6	32200	1464
6.5	31300	1447
6.4	30300	1431
6.3	29400	1414
6.2	28500	1398
6.1	27600	1381
6.0	26700	1365
STOP		

start here

IMR 4227

Charge in grains	RGS™ .415" psi	fps
STOP		
* 17.7	35000	1651
17.5	34300	1633
17.3	33600	1616
17.1	32900	1599
16.9	32200	1581
16.7	31500	1564
16.5	30900	1547
16.3	30200	1530
16.1	29500	1512
15.9	28800	1495
15.7	28100	1478
15.5	27500	1461
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ 1.020" psi	fps
STOP		
6.5	35000	1456
6.4	34200	1439
6.3	33400	1422
6.2	32600	1405
6.1	31800	1388
6.0	31000	1371
5.9	30300	1355
5.8	29500	1338
5.7	28700	1321
5.6	27900	1304
5.5	27100	1287
5.4	26300	1270
5.3	25600	1254
5.2	24800	1237
5.1	24000	1220
5.0	23200	1203
4.9	22400	1186
4.8	21700	1170
STOP		

start here

Winchester 296

Charge in grains	RGS™ .571" psi	fps
STOP		
19.2	35000	1899
19.0	34200	1879
18.8	33500	1859
18.6	32800	1840
18.4	32000	1820
18.2	31300	1800
18.0	30600	1781
17.8	29900	1761
17.6	29100	1741
17.4	28400	1722
17.2	27700	1702
17.0	27000	1683
STOP		

start here

RGS™ See page 5.

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

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

Accurate Arms 9

RGS™ .519"

Charge in grains	psi	fps
STOP		
13.3	35000	1660
13.1	34200	1640
12.9	33400	1620
12.7	32700	1600
12.5	31900	1580
12.3	31200	1560
12.1	30400	1540
11.9	29700	1520
11.7	28900	1500
11.5	28100	1480
11.3	27400	1460
11.1	26600	1440
10.9	25900	1420
10.7	25100	1400
10.5	24400	1380
STOP		

start here

Alliant 2400

RGS™ .450"

Charge in grains	psi	fps
STOP		
13.4	35000	1617
13.2	34400	1601
13.0	33800	1586
12.8	33200	1571
12.6	32600	1556
12.4	32000	1541
12.2	31400	1526
12.0	30800	1511
11.8	30200	1496
11.6	29600	1481
11.4	29000	1466
11.2	28400	1451
11.0	27900	1436
STOP		

start here

Alliant Unique

RGS™ .709"

Charge in grains	psi	fps
STOP		
6.6	35000	1359
6.5	33900	1342
6.4	32900	1326
6.3	31900	1309
6.2	30900	1293
6.1	29900	1277
6.0	28900	1260
5.9	27900	1244
5.8	26900	1228
5.7	25900	1211
5.6	24900	1195
5.5	23900	1179
STOP		

start here

Hodgdon 110

RGS™ .346"

Charge in grains	psi	fps
STOP		
* 19.1	31000	1841
19.0	30600	1832
18.8	30000	1814
18.6	29400	1797
18.4	28800	1780
18.2	28200	1762
18.0	27500	1745
17.8	26900	1727
17.6	26300	1710
17.4	25700	1692
17.2	25100	1675
17.0	24500	1658
STOP		

start here

*Compressed load.

Hodgdon HS-6

RGS™ .554"

Charge in grains	psi	fps
STOP		
9.3	35000	1541
9.2	34000	1524
9.1	33000	1508
9.0	32100	1491
8.9	31100	1475
8.8	30100	1459
8.7	29200	1442
8.6	28200	1426
8.5	27300	1410
STOP		

start here

RGS™ See page 5.

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Hodgdon HS-7

Charge in grains	RGS™ .588" psi	fps
STOP		
10.3	35000	1512
10.2	34200	1499
10.1	33500	1487
10.0	32800	1474
9.9	32100	1462
9.8	31400	1450
9.7	30600	1437
9.6	29900	1425
9.5	29200	1413
9.4	28500	1400
9.3	27800	1388
9.2	27100	1376
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .398" psi	fps
STOP		
6.6	35000	1420
6.5	33900	1407
6.4	32800	1394
6.3	31700	1381
6.2	30600	1368
6.1	29500	1355
6.0	28500	1342
STOP		

start here

IMR 4227

Charge in grains	RGS™ .242" psi	fps
STOP		
* 17.7	35000	1624
17.5	34200	1608
17.3	33400	1592
17.1	32600	1576
16.9	31800	1560
16.7	31000	1544
16.5	30200	1529
16.3	29400	1513
16.1	28600	1497
15.9	27800	1481
15.7	27000	1465
15.5	26200	1450
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .553" psi	fps
STOP		
6.2	35000	1384
6.1	34100	1369
6.0	33200	1354
5.9	32300	1339
5.8	31400	1324
5.7	30500	1309
5.6	29600	1294
5.5	28800	1280
5.4	27900	1265
5.3	27000	1250
5.2	26100	1235
5.1	25200	1220
5.0	24300	1205
4.9	23400	1190
4.8	22600	1176
STOP		

start here

Winchester 296

Charge in grains	RGS™ .346" psi	fps
STOP		
19.6	35000	1916
19.4	34200	1897
19.2	33400	1878
19.0	32600	1859
18.8	31800	1840
18.6	31000	1821
18.4	30200	1802
18.2	29400	1784
18.0	28600	1765
17.8	27800	1746
17.6	27000	1727
17.4	26200	1708
17.2	25400	1689
17.0	24700	1671
STOP		

start here

RGS™ See page 5.

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

Accurate Arms 9

Charge in grains	RGS™ .536" psi	fps
STOP		
13.3	35000	1649
13.1	34100	1628
12.9	33200	1607
12.7	32400	1586
12.5	31500	1565
12.3	30700	1544
12.1	29800	1523
11.9	29000	1502
11.7	28100	1481
11.5	27200	1460
11.3	26400	1439
11.1	25500	1418
10.9	24700	1397
10.7	23800	1376
10.5	23000	1355
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .346" psi	fps
STOP		
13.4	35000	1631
13.2	34400	1615
13.0	33900	1600
12.8	33400	1584
12.6	32900	1569
12.4	32400	1553
12.2	31900	1538
12.0	31300	1522
11.8	30800	1507
11.6	30300	1491
11.4	29800	1476
11.2	29300	1460
11.0	28800	1445
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .934" psi	fps
STOP		
6.7	35000	1358
6.6	34000	1342
6.5	33000	1326
6.4	32100	1310
6.3	31100	1295
6.2	30100	1279
6.1	29200	1263
6.0	28200	1247
5.9	27200	1232
5.8	26300	1216
5.7	25300	1200
5.6	24300	1184
5.5	23400	1169
STOP		

start here

Hodgdon 110

	Charge in grains	RGS™ .588" psi	fps
	STOP		
*	19.1	29200	1803
	19.0	28900	1794
	18.8	28500	1778
	18.6	28000	1761
	18.4	27500	1745
	18.2	27100	1728
	18.0	26600	1711
	17.8	26100	1695
	17.6	25700	1678
	17.4	25200	1662
	17.2	24700	1645
	17.0	24300	1629
	STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains	RGS™ .536" psi	fps
STOP		
9.4	35000	1535
9.3	34200	1522
9.2	33400	1509
9.1	32600	1496
9.0	31800	1483
8.9	31000	1470
8.8	30200	1457
8.7	29400	1444
8.6	28600	1431
8.5	27900	1419
STOP		

start here

RGS™ See page 5.

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357 Magnum Remington 125 gr 357 Golden Sabre

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

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

Hodgdon HS-7

Charge in grains	RGS™ .432" psi	fps
STOP		
10.4	35000	1530
10.3	34200	1517
10.2	33500	1504
10.1	32700	1491
10.0	32000	1478
9.9	31200	1465
9.8	30500	1452
9.7	29800	1439
9.6	29000	1426
9.5	28300	1413
9.4	27500	1400
9.3	26800	1387
9.2	26100	1374
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .433" psi	fps
STOP		
6.7	35000	1436
6.6	33900	1421
6.5	32800	1407
6.4	31700	1393
6.3	30700	1379
6.2	29600	1365
6.1	28500	1351
6.0	27500	1337
STOP		

start here

IMR 4227

Charge in grains	RGS™ .415" psi	fps
STOP		
* 17.7	29900	1600
17.5	29500	1586
17.3	29100	1572
17.1	28700	1559
16.9	28300	1545
16.7	27900	1531
16.5	27500	1518
16.3	27100	1504
16.1	26700	1490
15.9	26300	1477
15.7	25900	1463
15.5	25500	1450
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .450" psi	fps
STOP		
* 6.2	35000	1385
6.1	34100	1367
6.0	33200	1350
5.9	32300	1333
5.8	31400	1316
5.7	30500	1299
5.6	29600	1282
5.5	28700	1265
5.4	27800	1247
5.3	26900	1230
5.2	26000	1213
5.1	25100	1196
5.0	24200	1179
4.9	23300	1162
4.8	22400	1145
STOP		

start here

Winchester 296

Charge in grains	RGS™ .363" psi	fps
STOP		
* 20.0	35000	1912
19.8	34200	1893
19.6	33400	1875
19.4	32700	1857
19.2	31900	1839
19.0	31200	1821
18.8	30400	1803
18.6	29600	1785
18.4	28900	1766
18.2	28100	1748
18.0	27400	1730
17.8	26600	1712
17.6	25800	1694
17.4	25100	1676
17.2	24300	1658
17.0	23600	1640
STOP		

start here

*Compressed load.

RGS™ See page 5.

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Accurate Arms 9

RGS™ .398"

Charge in grains	psi	fps
STOP		
13.1	35000	1624
12.9	34100	1603
12.7	33200	1582
12.5	32400	1562
12.3	31500	1541
12.1	30600	1521
11.9	29800	1500
11.7	28900	1480
11.5	28100	1459
11.3	27200	1439
11.1	26300	1418
10.9	25500	1398
10.7	24600	1377
10.5	23800	1357
STOP		

start here

Alliant 2400

RGS™ .398"

Charge in grains	psi	fps
STOP		
13.3	35000	1601
13.2	34700	1593
13.0	34100	1578
12.8	33500	1563
12.6	33000	1548
12.4	32400	1533
12.2	31800	1518
12.0	31300	1503
11.8	30700	1488
11.6	30100	1473
11.4	29600	1458
11.2	29000	1443
11.0	28500	1429
STOP		

start here

Alliant Unique

RGS™ 1.055"

Charge in grains	psi	fps
STOP		
6.9	35000	1402
6.8	34100	1385
6.7	33200	1368
6.6	32400	1352
6.5	31500	1335
6.4	30600	1319
6.3	29800	1302
6.2	28900	1286
6.1	28000	1269
6.0	27200	1252
5.9	26300	1236
5.8	25400	1219
5.7	24600	1203
5.6	23700	1186
5.5	22900	1170
STOP		

start here

Hodgdon 110

RGS™ .467"

Charge in grains	psi	fps
STOP		
* 19.2	31100	1837
19.0	30500	1820
18.8	29900	1803
18.6	29300	1786
18.4	28700	1769
18.2	28100	1752
18.0	27500	1736
17.8	26900	1719
17.6	26300	1702
17.4	25700	1685
17.2	25100	1668
17.0	24600	1652
STOP		

start here

*Compressed load.

Hodgdon HS-6

RGS™ .502"

Charge in grains	psi	fps
STOP		
9.5	35000	1561
9.4	34200	1546
9.3	33400	1532
9.2	32700	1518
9.1	31900	1504
9.0	31200	1490
8.9	30400	1476
8.8	29600	1462
8.7	28900	1448
8.6	28100	1434
8.5	27400	1420
STOP		

start here

RGS™See page 5.

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357 Magnum

Remington 125 gr JHP

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

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Hodgdon HS-7

Charge in grains	RGS™ .363" psi	fps
STOP		
10.5	35000	1551
10.4	34300	1537
10.3	33600	1524
10.2	32900	1511
10.1	32200	1497
10.0	31500	1484
9.9	30800	1471
9.8	30100	1457
9.7	29400	1444
9.6	28700	1431
9.5	28000	1417
9.4	27300	1404
9.3	26600	1391
9.2	26000	1378
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .692" psi	fps
STOP		
6.6	35000	1442
6.5	33700	1425
6.4	32500	1409
6.3	31300	1393
6.2	30100	1376
6.1	28900	1360
6.0	27700	1344
STOP		

start here

IMR 4227

Charge in grains	RGS™ .311" psi	fps
STOP		
* 17.7	35000	1619
17.5	34200	1604
17.3	33500	1590
17.1	32800	1576
16.9	32000	1561
16.7	31300	1547
16.5	30600	1533
16.3	29900	1519
16.1	29100	1504
15.9	28400	1490
15.7	27700	1476
15.5	27000	1462
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .605" psi	fps
STOP		
6.4	35000	1429
6.3	34100	1411
6.2	33300	1394
6.1	32400	1377
6.0	31600	1360
5.9	30700	1343
5.8	29900	1326
5.7	29000	1309
5.6	28200	1292
5.5	27400	1275
5.4	26500	1258
5.3	25700	1241
5.2	24800	1224
5.1	24000	1207
5.0	23100	1190
4.9	22300	1173
4.8	21500	1156
STOP		

start here

Winchester 296

Charge in grains	RGS™ .294" psi	fps
STOP		
19.6	35000	1913
19.4	34200	1894
19.2	33400	1875
19.0	32600	1856
18.8	31800	1837
18.6	31000	1818
18.4	30200	1799
18.2	29500	1780
18.0	28700	1761
17.8	27900	1742
17.6	27100	1723
17.4	26300	1704
17.2	25500	1685
17.0	24800	1667
STOP		

start here

RGS™ See page 5.

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

Accurate Arms 9

RGS™ .605"

Charge in grains	psi	fps
STOP		
13.1	35000	1631
12.9	34000	1607
12.7	33000	1584
12.5	32000	1561
12.3	31100	1538
12.1	30100	1515
11.9	29100	1492
11.7	28200	1469
11.5	27200	1446
11.3	26200	1423
11.1	25300	1400
10.9	24300	1377
10.7	23300	1354
10.5	22400	1331
STOP		

start here

Alliant 2400

RGS™ .709"

Charge in grains	psi	fps
STOP		
13.3	35000	1616
13.2	34600	1607
13.0	34000	1589
12.8	33300	1571
12.6	32600	1553
12.4	32000	1535
12.2	31300	1517
12.0	30700	1499
11.8	30000	1481
11.6	29300	1463
11.4	28700	1445
11.2	28000	1427
11.0	27400	1409
STOP		

start here

Alliant Unique

RGS™ 1.089"

Charge in grains	psi	fps
STOP		
6.9	35000	1385
6.8	34100	1367
6.7	33200	1350
6.6	32300	1332
6.5	31500	1315
6.4	30600	1298
6.3	29700	1280
6.2	28900	1263
6.1	28000	1246
6.0	27100	1228
5.9	26200	1211
5.8	25400	1194
5.7	24500	1176
5.6	23600	1159
5.5	22800	1142
STOP		

start here

Hodgdon 110

RGS™ .484"

Charge in grains	psi	fps
STOP		
19.2	31400	1821
19.0	30700	1804
18.8	30000	1787
18.6	29300	1770
18.4	28700	1753
18.2	28000	1736
18.0	27300	1720
17.8	26600	1703
17.6	26000	1686
17.4	25300	1669
17.2	24600	1652
17.0	24000	1636
STOP		

start here

Hodgdon HS-6

RGS™ .467"

Charge in grains	psi	fps
STOP		
9.5	35000	1548
9.4	34000	1532
9.3	33100	1517
9.2	32200	1501
9.1	31300	1486
9.0	30400	1471
8.9	29500	1455
8.8	28600	1440
8.7	27700	1424
8.6	26800	1409
8.5	25900	1394
STOP		

start here

RGS™See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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.

357 Magnum

Remington 125 gr JSP

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

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

Hodgdon HS-7

Charge in grains	RGS™ .502" psi	fps
STOP		
10.5	35000	1537
10.4	34100	1520
10.3	33200	1503
10.2	32300	1487
10.1	31400	1470
10.0	30500	1453
9.9	29600	1437
9.8	28800	1420
9.7	27900	1404
9.6	27000	1387
9.5	26100	1370
9.4	25200	1354
9.3	24300	1337
9.2	23500	1321
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .450" psi	fps
STOP		
6.9	35000	1466
6.8	34100	1448
6.7	33200	1430
6.6	32300	1413
6.5	31400	1395
6.4	30600	1377
6.3	29700	1360
6.2	28800	1342
6.1	27900	1324
6.0	27100	1307
STOP		

start here

IMR 4227

Charge in grains	RGS™ .502" psi	fps
STOP		
* 17.7	30900	1614
17.5	30500	1600
17.3	30100	1587
17.1	29700	1573
16.9	29400	1560
16.7	29000	1547
16.5	28600	1533
16.3	28200	1520
16.1	27900	1507
15.9	27500	1493
15.7	27100	1480
15.5	26800	1467
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .449" psi	fps
STOP		
6.4	35000	1402
6.3	34200	1385
6.2	33400	1369
6.1	32600	1353
6.0	31900	1337
5.9	31100	1321
5.8	30300	1305
5.7	29500	1289
5.6	28800	1273
5.5	28000	1257
5.4	27200	1241
5.3	26400	1225
5.2	25700	1209
5.1	24900	1193
5.0	24100	1177
4.9	23300	1161
4.8	22600	1145
STOP		

start here

Winchester 296

Charge in grains	RGS™ .311" psi	fps
STOP		
19.9	35000	1917
19.8	34600	1907
19.6	33900	1889
19.4	33200	1870
19.2	32500	1852
19.0	31800	1833
18.8	31000	1814
18.6	30300	1796
18.4	29600	1777
18.2	28900	1759
18.0	28200	1740
17.8	27500	1722
17.6	26800	1703
17.4	26100	1685
17.2	25400	1666
17.0	24700	1648
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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

RGS™ .398"

Charge in grains	psi	fps
STOP		
13.0	35000	1638
12.9	34500	1627
12.7	33600	1605
12.5	32700	1584
12.3	31800	1562
12.1	30900	1541
11.9	30000	1520
11.7	29100	1498
11.5	28200	1477
11.3	27300	1455
11.1	26400	1434
10.9	25500	1412
10.7	24600	1391
10.5	23700	1370
STOP		

start here

Alliant 2400

RGS™ .726"

Charge in grains	psi	fps
STOP		
13.2	35000	1630
13.0	34300	1613
12.8	33700	1596
12.6	33100	1579
12.4	32400	1562
12.2	31800	1545
12.0	31200	1528
11.8	30600	1511
11.6	29900	1494
11.4	29300	1477
11.2	28700	1460
11.0	28100	1444
STOP		

start here

Alliant Unique

RGS™ 3.390"

Charge in grains	psi	fps
STOP		
6.9	35000	1411
6.8	34000	1393
6.7	33000	1375
6.6	32000	1357
6.5	31000	1340
6.4	30000	1322
6.3	29000	1304
6.2	28000	1287
6.1	27000	1269
6.0	26000	1251
5.9	25000	1233
5.8	24000	1216
5.7	23000	1198
5.6	22000	1180
5.5	21100	1163
STOP		

start here

Hodgdon 110

RGS™ .484"

Charge in grains	psi	fps
STOP		
* 19.2	31100	1821
19.0	30400	1803
18.8	29700	1785
18.6	29000	1767
18.4	28400	1750
18.2	27700	1732
18.0	27000	1714
17.8	26300	1696
17.6	25700	1679
17.4	25000	1661
17.2	24300	1643
17.0	23700	1626
STOP		

start here

*Compressed load.

Hodgdon HS-6

RGS™ .381"

Charge in grains	psi	fps
STOP		
9.5	35000	1577
9.4	34000	1559
9.3	33100	1542
9.2	32200	1525
9.1	31200	1507
9.0	30300	1490
8.9	29400	1473
8.8	28400	1455
8.7	27500	1438
8.6	26600	1421
8.5	25700	1404
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 HS-7

RGS™ .501"

Charge in grains	psi	fps
STOP		
10.5	35000	1565
10.4	34200	1550
10.3	33400	1536
10.2	32700	1522
10.1	31900	1508
10.0	31100	1494
9.9	30400	1480
9.8	29600	1465
9.7	28900	1451
9.6	28100	1437
9.5	27300	1423
9.4	26600	1409
9.3	25800	1395
9.2	25100	1381
STOP		

start here

Hodgdon Titegroup

RGS™ .381"

Charge in grains	psi	fps
STOP		
6.8	35000	1469
6.7	33900	1452
6.6	32800	1436
6.5	31800	1420
6.4	30700	1404
6.3	29600	1388
6.2	28600	1372
6.1	27500	1356
6.0	26500	1340
STOP		

start here

IMR 4227

RGS™ .346"

Charge in grains	psi	fps
STOP		
* 17.7	35000	1643
17.5	34200	1628
17.3	33500	1613
17.1	32800	1599
16.9	32000	1584
16.7	31300	1570
16.5	30600	1555
16.3	29900	1541
16.1	29100	1526
15.9	28400	1512
15.7	27700	1497
15.5	27000	1483
STOP		

start here

*Compressed load.

IMR 700X

RGS™ 2.214"

Charge in grains	psi	fps
STOP		
6.6	35000	1468
6.5	34200	1451
6.4	33500	1435
6.3	32800	1418
6.2	32000	1402
6.1	31300	1385
6.0	30600	1369
5.9	29800	1352
5.8	29100	1336
5.7	28400	1319
5.6	27600	1303
5.5	26900	1286
5.4	26200	1270
5.3	25400	1253
5.2	24700	1237
5.1	24000	1220
5.0	23200	1204
4.9	22500	1187
4.8	21800	1171
STOP		

start here

Winchester 296

RGS™ .363"

Charge in grains	psi	fps
STOP		
19.7	35000	1933
19.6	34600	1923
19.4	33900	1903
19.2	33200	1883
19.0	32500	1863
18.8	31800	1843
18.6	31000	1823
18.4	30300	1803
18.2	29600	1783
18.0	28900	1763
17.8	28200	1743
17.6	27500	1723
17.4	26800	1703
17.2	26100	1683
17.0	25400	1663
STOP		

start here

RGS™ See page 5.

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

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

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

Accurate Arms 9

Charge in grains	RGS™ .432" psi	fps
STOP		
13.1	35000	1634
12.9	34000	1612
12.7	33000	1591
12.5	32100	1569
12.3	31100	1548
12.1	30100	1527
11.9	29200	1505
11.7	28200	1484
11.5	27300	1462
11.3	26300	1441
11.1	25300	1420
10.9	24400	1398
10.7	23400	1377
10.5	22500	1356
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .744" psi	fps
STOP		
13.2	35000	1629
13.0	34200	1610
12.8	33400	1592
12.6	32700	1574
12.4	31900	1556
12.2	31200	1538
12.0	30400	1520
11.8	29700	1502
11.6	28900	1484
11.4	28200	1466
11.2	27400	1448
11.0	26700	1430
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .744" psi	fps
STOP		
7.0	35000	1404
6.9	34100	1388
6.8	33300	1372
6.7	32400	1356
6.6	31600	1340
6.5	30800	1324
6.4	29900	1308
6.3	29100	1292
6.2	28200	1277
6.1	27400	1261
6.0	26600	1245
5.9	25700	1229
5.8	24900	1213
5.7	24000	1197
5.6	23200	1181
5.5	22400	1166
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .277" psi	fps
STOP		
* 19.3	29100	1786
19.2	28800	1778
19.0	28200	1762
18.8	27600	1747
18.6	27000	1731
18.4	26400	1716
18.2	25800	1700
18.0	25200	1685
17.8	24600	1669
17.6	24000	1654
17.4	23400	1638
17.2	22800	1623
17.0	22300	1608
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains	RGS™ .450" psi	fps
STOP		
9.6	35000	1541
9.5	34100	1526
9.4	33200	1512
9.3	32300	1498
9.2	31400	1483
9.1	30500	1469
9.0	29600	1455
8.9	28700	1441
8.8	27800	1426
8.7	26900	1412
8.6	26000	1398
8.5	25100	1384
STOP		

start here

RGS™See page 5.

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

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

Hodgdon HS-7

Charge in grains	RGS™ .674" psi	fps
STOP		
10.7	35000	1577
10.6	34200	1562
10.5	33500	1548
10.4	32800	1534
10.3	32100	1519
10.2	31400	1505
10.1	30600	1491
10.0	29900	1477
9.9	29200	1462
9.8	28500	1448
9.7	27800	1434
9.6	27000	1420
9.5	26300	1405
9.4	25600	1391
9.3	24900	1377
9.2	24200	1363
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .502" psi	fps
STOP		
7.1	35000	1509
7.0	34100	1492
6.9	33200	1475
6.8	32400	1458
6.7	31500	1442
6.6	30700	1425
6.5	29800	1408
6.4	29000	1391
6.3	28100	1375
6.2	27300	1358
6.1	26400	1341
6.0	25600	1325
STOP		

start here

IMR 4227

Charge in grains	RGS™ .363" psi	fps
STOP		
* 17.7	29800	1612
17.5	29500	1600
17.3	29300	1589
17.1	29000	1578
16.9	28800	1567
16.7	28600	1556
16.5	28300	1544
16.3	28100	1533
16.1	27900	1522
15.9	27600	1511
15.7	27400	1500
15.5	27200	1489
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .363" psi	fps
STOP		
6.7	35000	1465
6.6	34300	1449
6.5	33600	1433
6.4	32900	1417
6.3	32200	1401
6.2	31500	1385
6.1	30800	1369
6.0	30100	1353
5.9	29400	1337
5.8	28700	1321
5.7	28000	1305
5.6	27300	1289
5.5	26600	1273
5.4	25900	1257
5.3	25200	1241
5.2	24500	1225
5.1	23800	1209
5.0	23100	1193
4.9	22400	1177
STOP		

start here

Winchester 296

Charge in grains	RGS™ .432" psi	fps
STOP		
19.9	35000	1918
19.8	34600	1909
19.6	33800	1891
19.4	33100	1873
19.2	32400	1855
19.0	31600	1837
18.8	30900	1819
18.6	30200	1801
18.4	29400	1784
18.2	28700	1766
18.0	27900	1748
17.8	27200	1730
17.6	26500	1712
17.4	25700	1694
17.2	25000	1676
17.0	24300	1659
STOP		

start here

RGS™ See page 5.

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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 9

Charge in grains	RGS™ .398" psi	fps
STOP		
13.1	35000	1621
12.9	34000	1598
12.7	33000	1576
12.5	32000	1554
12.3	31000	1532
12.1	30100	1510
11.9	29100	1488
11.7	28100	1465
11.5	27100	1443
11.3	26200	1421
11.1	25200	1399
start here 10.9	24200	1377
10.7	23200	1355
10.5	22300	1333
STOP		

Alliant 2400

Charge in grains	RGS™ .458" psi	fps
STOP		
13.2	35000	1616
13.0	34300	1596
12.8	33600	1577
12.6	32900	1558
12.4	32200	1538
12.2	31500	1519
12.0	30800	1500
11.8	30100	1481
11.6	29400	1461
start here 11.4	28700	1442
11.2	28000	1423
11.0	27300	1404
STOP		

Alliant Unique

Charge in grains	RGS™ .622" psi	fps
STOP		
7.0	35000	1404
6.9	34000	1385
6.8	33100	1367
6.7	32100	1349
6.6	31200	1330
6.5	30200	1312
6.4	29300	1294
6.3	28300	1276
6.2	27400	1257
6.1	26400	1239
6.0	25500	1221
5.9	24500	1203
5.8	23600	1184
start here 5.7	22600	1166
5.6	21700	1148
5.5	20800	1130
STOP		

Hodgdon 110

Charge in grains	RGS™ .276" psi	fps
STOP		
* 19.4	29500	1784
19.2	29100	1771
19.0	28700	1758
18.8	28300	1745
18.6	27900	1732
18.4	27500	1719
18.2	27100	1707
18.0	26700	1694
17.8	26300	1681
17.6	25900	1668
start here 17.4	25500	1655
17.2	25100	1642
17.0	24700	1630
STOP		

*Compressed load.

Hodgdon HS-6

Charge in grains	RGS™ .536" psi	fps
STOP		
9.7	35000	1580
9.6	34100	1562
9.5	33200	1544
9.4	32400	1527
9.3	31500	1509
9.2	30700	1491
9.1	29800	1474
9.0	28900	1456
8.9	28100	1438
8.8	27200	1421
start here 8.7	26400	1403
8.6	25500	1385
8.5	24700	1368
STOP		

RGS™See page 5.

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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Hodgdon HS-7

RGS™ .415"

Charge in grains	psi	fps
STOP		
10.8	35000	1568
10.7	34300	1553
10.6	33600	1539
10.5	32900	1525
10.4	32200	1511
10.3	31500	1497
10.2	30800	1483
10.1	30100	1469
10.0	29400	1455
9.9	28700	1441
9.8	28000	1427
9.7	27300	1413
9.6	26600	1399
9.5	25900	1385
9.4	25200	1371
9.3	24500	1357
9.2	23800	1343
STOP		

start here

Hodgdon Titegroup

RGS™ .519"

Charge in grains	psi	fps
STOP		
7.1	35000	1502
7.0	34000	1485
6.9	33100	1468
6.8	32100	1452
6.7	31200	1435
6.6	30300	1418
6.5	29300	1402
6.4	28400	1385
6.3	27500	1368
6.2	26500	1352
6.1	25600	1335
6.0	24700	1319
STOP		

start here

IMR 4227

RGS™ .311"

Charge in grains	psi	fps
STOP		
* 17.7	29700	1579
17.5	29400	1567
17.3	29100	1556
17.1	28800	1544
16.9	28500	1533
16.7	28200	1521
16.5	27900	1510
16.3	27600	1498
16.1	27300	1487
15.9	27000	1475
15.7	26700	1464
15.5	26500	1453
STOP		

start here

*Compressed load.

IMR 700X

RGS™ .449"

Charge in grains	psi	fps
STOP		
6.7	35000	1444
6.6	34200	1427
6.5	33500	1410
6.4	32800	1393
6.3	32100	1376
6.2	31400	1359
6.1	30700	1342
6.0	30000	1325
5.9	29300	1308
5.8	28600	1291
5.7	27900	1274
5.6	27200	1257
5.5	26500	1240
5.4	25800	1223
5.3	25100	1206
5.2	24400	1189
5.1	23700	1172
5.0	23000	1155
4.9	22300	1138
STOP		

start here

Winchester 296

RGS™ .173"

Charge in grains	psi	fps
STOP		
20.1	35000	1913
20.0	34600	1904
19.8	34000	1887
19.6	33300	1870
19.4	32700	1853
19.2	32000	1836
19.0	31400	1820
18.8	30700	1803
18.6	30100	1786
18.4	29400	1769
18.2	28800	1752
18.0	28100	1735
17.8	27500	1718
17.6	26800	1701
17.4	26200	1684
17.2	25500	1667
17.0	24900	1651
STOP		

start here

RGS™See page 5.

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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 9

Charge in grains	RGS™ .467" psi	fps
STOP		
13.1	35000	1640
12.9	34000	1617
12.7	33100	1594
12.5	32200	1571
12.3	31300	1548
12.1	30400	1525
11.9	29500	1502
11.7	28500	1479
11.5	27600	1456
11.3	26700	1433
11.1	25800	1410
10.9	24900	1387
10.7	24000	1364
10.5	23100	1342
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .761" psi	fps
STOP		
13.0	35000	1607
12.9	34500	1596
12.8	34100	1585
12.7	33600	1574
12.6	33200	1564
12.5	32700	1553
12.4	32300	1542
12.3	31800	1531
12.2	31400	1521
12.1	30900	1510
12.0	30500	1499
11.9	30100	1488
11.8	29600	1478
11.7	29200	1467
11.6	28700	1456
11.5	28300	1445
11.4	27800	1435
11.3	27400	1424
11.2	26900	1413
STOP		

start here

Alliant Unique

Charge in grains	RGS™ 1.072" psi	fps
STOP		
7.0	35000	1369
6.9	34200	1355
6.8	33400	1341
6.7	32700	1328
6.6	31900	1314
6.5	31100	1301
6.4	30400	1287
6.3	29600	1273
6.2	28800	1260
6.1	28100	1246
6.0	27300	1233
5.9	26500	1219
5.8	25800	1205
5.7	25000	1192
5.6	24200	1178
5.5	23500	1165
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .346" psi	fps
STOP		
19.4	35000	1845
19.2	34000	1825
19.0	33000	1805
18.8	32000	1786
18.6	31000	1766
18.4	30000	1747
18.2	29000	1727
18.0	28000	1707
17.8	27000	1688
17.6	26000	1668
17.4	25000	1649
17.2	24000	1629
17.0	23100	1610
STOP		

start here

Hodgdon HS-6

Charge in grains	RGS™ .519" psi	fps
STOP		
9.5	35000	1534
9.4	34100	1518
9.3	33300	1503
9.2	32400	1488
9.1	31600	1473
9.0	30700	1458
8.9	29900	1442
8.8	29000	1427
8.7	28200	1412
8.6	27300	1397
8.5	26500	1382
STOP		

start here

RGS™ See page 5.

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

Hodgdon HS-7

RGS™ .484"

Charge in grains	psi	fps
STOP		
10.7	35000	1548
10.6	34200	1533
10.5	33400	1519
10.4	32700	1505
10.3	31900	1491
10.2	31100	1477
10.1	30400	1463
10.0	29600	1449
9.9	28800	1435
9.8	28100	1421
9.7	27300	1407
9.6	26500	1393
9.5	25800	1379
9.4	25000	1365
9.3	24200	1351
9.2	23500	1337
STOP		

start here

Hodgdon Titegroup

RGS™ .311"

Charge in grains	psi	fps
STOP		
7.0	35000	1461
6.9	34000	1445
6.8	33100	1430
6.7	32200	1415
6.6	31300	1400
6.5	30400	1385
6.4	29400	1369
6.3	28500	1354
6.2	27600	1339
6.1	26700	1324
6.0	25800	1309
STOP		

start here

IMR 4227

RGS™ .415"

Charge in grains	psi	fps
STOP		
* 17.7	35000	1638
17.5	34300	1624
17.3	33700	1610
17.1	33000	1596
16.9	32400	1582
16.7	31700	1568
16.5	31100	1555
16.3	30400	1541
16.1	29800	1527
15.9	29100	1513
15.7	28500	1499
15.5	27900	1486
STOP		

start here

*Compressed load.

IMR 700X

RGS™ .276"

Charge in grains	psi	fps
STOP		
6.6	35000	1434
6.5	34200	1416
6.4	33400	1399
6.3	32700	1382
6.2	31900	1365
6.1	31100	1348
6.0	30400	1331
5.9	29600	1313
5.8	28800	1296
5.7	28100	1279
5.6	27300	1262
5.5	26500	1245
5.4	25800	1228
5.3	25000	1210
5.2	24200	1193
5.1	23500	1176
5.0	22700	1159
4.9	21900	1142
4.8	21200	1125
STOP		

start here

Winchester 296

RGS™ .225"

Charge in grains	psi	fps
STOP		
19.7	35000	1918
19.6	34600	1909
19.4	33900	1891
19.2	33300	1873
19.0	32600	1855
18.8	31900	1837
18.6	31200	1819
18.4	30600	1801
18.2	29900	1783
18.0	29200	1765
17.8	28500	1747
17.6	27900	1729
17.4	27200	1711
17.2	26500	1693
17.0	25900	1675
STOP		

start here

RGS™ See page 5.

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Accurate Arms 9

Charge in grains	RGS™ .398" psi	fps
STOP		
13.1	35000	1634
12.9	34000	1611
12.7	33000	1588
12.5	32000	1565
12.3	31100	1542
12.1	30100	1519
11.9	29100	1496
11.7	28200	1473
11.5	27200	1450
11.3	26200	1427
11.1	25300	1404
10.9	24300	1381
10.7	23300	1358
10.5	22400	1335
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .865" psi	fps
STOP		
12.9	35000	1604
12.8	34500	1594
12.7	34100	1584
12.6	33700	1574
12.5	33300	1564
12.4	32900	1555
12.3	32500	1545
12.2	32100	1535
12.1	31700	1525
12.0	31300	1515
11.9	30800	1506
11.8	30400	1496
11.7	30000	1486
11.6	29600	1476
11.5	29200	1466
11.4	28800	1457
11.3	28400	1447
11.2	28000	1437
11.1	27600	1427
STOP		

start here

Alliant Unique

Charge in grains	RGS™ 1.107" psi	fps
STOP		
7.0	35000	1364
6.9	34000	1347
6.8	33000	1331
6.7	32000	1315
6.6	31000	1299
6.5	30000	1283
6.4	29000	1266
6.3	28000	1250
6.2	27000	1234
6.1	26000	1218
6.0	25000	1202
5.9	24000	1185
5.8	23000	1169
5.7	22000	1153
5.6	21000	1137
5.5	20100	1121
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .260" psi	fps
STOP		
19.4	35000	1823
19.2	34000	1804
19.0	33100	1786
18.8	32100	1768
18.6	31200	1749
18.4	30200	1731
18.2	29300	1713
18.0	28300	1694
17.8	27400	1676
17.6	26400	1658
17.4	25500	1639
17.2	24500	1621
17.0	23600	1603
STOP		

start here

Hodgdon HS-6

Charge in grains	RGS™ .432" psi	fps
STOP		
9.6	35000	1524
9.5	34000	1509
9.4	33100	1494
9.3	32100	1479
9.2	31200	1464
9.1	30300	1449
9.0	29300	1434
8.9	28400	1419
8.8	27500	1404
8.7	26500	1389
8.6	25600	1374
8.5	24700	1359
STOP		

start here

RGS™See page 5.

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Hodgdon HS-7

Charge in grains	RGS™ .415" psi	fps
STOP		
10.7	35000	1556
10.6	34200	1541
10.5	33500	1527
10.4	32700	1513
10.3	32000	1499
10.2	31200	1485
10.1	30500	1471
10.0	29700	1457
9.9	29000	1443
9.8	28200	1429
9.7	27500	1415
9.6	26700	1401
9.5	26000	1387
9.4	25200	1373
9.3	24500	1359
9.2	23800	1345
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .432" psi	fps
STOP		
7.0	35000	1442
6.9	34000	1427
6.8	33100	1413
6.7	32200	1399
6.6	31300	1385
6.5	30400	1371
6.4	29400	1357
6.3	28500	1343
6.2	27600	1329
6.1	26700	1315
6.0	25800	1301
STOP		

start here

IMR 4227

Charge in grains	RGS™ .346" psi	fps
STOP		
* 17.7	31200	1628
17.5	30900	1616
17.3	30600	1604
17.1	30300	1592
16.9	30000	1581
16.7	29700	1569
16.5	29400	1557
16.3	29100	1545
16.1	28800	1534
15.9	28500	1522
15.7	28200	1510
15.5	27900	1499
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .432" psi	fps
STOP		
6.6	35000	1425
6.5	34200	1409
6.4	33500	1393
6.3	32800	1377
6.2	32000	1361
6.1	31300	1345
6.0	30600	1329
5.9	29800	1313
5.8	29100	1297
5.7	28400	1282
5.6	27600	1266
5.5	26900	1250
5.4	26200	1234
5.3	25400	1218
5.2	24700	1202
5.1	24000	1186
5.0	23200	1170
4.9	22500	1154
4.8	21800	1139
STOP		

start here

Winchester 296

Charge in grains	RGS™ .381" psi	fps
STOP		
20.2	35000	1938
20.0	34300	1920
19.8	33700	1902
19.6	33100	1885
19.4	32500	1867
19.2	31900	1849
19.0	31200	1832
18.8	30600	1814
18.6	30000	1797
18.4	29400	1779
18.2	28800	1761
18.0	28100	1744
17.8	27500	1726
17.6	26900	1708
17.4	26300	1691
17.2	25700	1673
17.0	25100	1656
STOP		

start here

RGS™ See page 5.

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Accurate Arms 9

Charge in grains	RGS™ .380" psi	fps
STOP		
13.1	35000	1636
12.9	34000	1612
12.7	33000	1589
12.5	32000	1566
12.3	31100	1542
12.1	30100	1519
11.9	29100	1496
11.7	28200	1472
11.5	27200	1449
11.3	26200	1426
11.1	25300	1402
10.9	24300	1379
10.7	23300	1356
10.5	22400	1333
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .778" psi	fps
STOP		
13.0	35000	1605
12.9	34600	1594
12.8	34200	1584
12.7	33800	1574
12.6	33400	1564
12.5	33000	1554
12.4	32600	1544
12.3	32200	1533
12.2	31800	1523
12.1	31400	1513
12.0	31000	1503
11.9	30600	1493
11.8	30200	1483
11.7	29800	1473
11.6	29400	1462
11.5	29000	1452
11.4	28600	1442
11.3	28200	1432
11.2	27800	1422
STOP		

start here

Alliant Unique

Charge in grains	RGS™ 1.781" psi	fps
STOP		
7.0	35000	1355
6.9	34200	1340
6.8	33400	1325
6.7	32600	1310
6.6	31900	1296
6.5	31100	1281
6.4	30300	1266
6.3	29500	1251
6.2	28800	1237
6.1	28000	1222
6.0	27200	1207
5.9	26400	1192
5.8	25700	1178
5.7	24900	1163
5.6	24100	1148
5.5	23400	1134
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .381" psi	fps
STOP		
* 19.4	29700	1798
19.2	29300	1784
19.0	28900	1771
18.8	28500	1758
18.6	28200	1745
18.4	27800	1731
18.2	27400	1718
18.0	27000	1705
17.8	26700	1692
17.6	26300	1678
17.4	25900	1665
17.2	25500	1652
17.0	25200	1639
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains	RGS™ .606" psi	fps
STOP		
10.0	35000	1554
9.9	34200	1540
9.8	33400	1527
9.7	32700	1514
9.6	31900	1500
9.5	31200	1487
9.4	30400	1474
9.3	29700	1460
9.2	28900	1447
9.1	28200	1434
9.0	27400	1420
8.9	26700	1407
8.8	25900	1394
8.7	25200	1380
8.6	24400	1367
8.5	23700	1354
STOP		

start here

RGS™ See page 5.

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

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

Hodgdon HS-7

Charge in grains	RGS™ 1.194" psi	fps
STOP		
10.7	35000	1531
10.6	34100	1516
10.5	33300	1502
10.4	32500	1487
10.3	31700	1473
10.2	30900	1459
10.1	30100	1444
10.0	29300	1430
9.9	28500	1415
9.8	27700	1401
9.7	26900	1387
9.6	26100	1372
9.5	25300	1358
9.4	24500	1343
9.3	23700	1329
9.2	22900	1315
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .398" psi	fps
STOP		
7.0	35000	1446
6.9	33900	1429
6.8	32900	1413
6.7	31800	1397
6.6	30800	1381
6.5	29800	1365
6.4	28700	1348
6.3	27700	1332
6.2	26600	1316
6.1	25600	1300
6.0	24600	1284
STOP		

start here

IMR 4227

Charge in grains	RGS™ .294" psi	fps
STOP		
* 17.7	35000	1665
17.5	34300	1649
17.3	33600	1633
17.1	33000	1618
16.9	32300	1602
16.7	31600	1586
16.5	31000	1571
16.3	30300	1555
16.1	29600	1539
15.9	29000	1524
15.7	28300	1508
15.5	27700	1493
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .484" psi	fps
STOP		
6.6	35000	1422
6.5	34200	1405
6.4	33500	1389
6.3	32800	1373
6.2	32100	1356
6.1	31400	1340
6.0	30700	1324
5.9	30000	1308
5.8	29300	1291
5.7	28600	1275
5.6	27900	1259
5.5	27200	1242
5.4	26500	1226
5.3	25800	1210
5.2	25100	1194
5.1	24400	1177
5.0	23700	1161
4.9	23000	1145
4.8	22300	1129
STOP		

start here

Winchester 296

Charge in grains	RGS™ .346" psi	fps
STOP		
19.7	35000	1899
19.6	34700	1892
19.4	34200	1878
19.2	33600	1865
19.0	33100	1851
18.8	32600	1838
18.6	32100	1824
18.4	31500	1810
18.2	31000	1797
18.0	30500	1783
17.8	30000	1770
17.6	29400	1756
17.4	28900	1743
17.2	28400	1729
17.0	27900	1716
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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	RGS™ .432" psi	fps
STOP		
13.2	35000	1632
13.1	34500	1622
12.9	33700	1604
12.7	32900	1585
12.5	32100	1566
12.3	31300	1548
12.1	30400	1529
11.9	29600	1510
11.7	28800	1492
11.5	28000	1473
11.3	27100	1454
11.1	26300	1436
10.9	25500	1417
10.7	24700	1398
10.5	23900	1380
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .467" psi	fps
STOP		
13.3	35000	1621
13.2	34600	1612
13.0	33900	1596
12.8	33200	1580
12.6	32500	1564
12.4	31800	1548
12.2	31100	1532
12.0	30400	1516
11.8	29700	1500
11.6	29000	1484
11.4	28300	1468
11.2	27600	1452
11.0	26900	1436
STOP		

start here

Alliant Unique

Charge in grains	RGS™ 2.439" psi	fps
STOP		
6.9	35000	1397
6.8	34000	1381
6.7	33100	1365
6.6	32200	1350
6.5	31300	1334
6.4	30400	1319
6.3	29500	1303
6.2	28600	1288
6.1	27700	1272
6.0	26800	1256
5.9	25900	1241
5.8	25000	1225
5.7	24100	1210
5.6	23200	1194
5.5	22300	1179
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .398" psi	fps
STOP		
* 19.4	29100	1824
19.2	28500	1806
19.0	27900	1789
18.8	27400	1771
18.6	26800	1754
18.4	26200	1736
18.2	25700	1719
18.0	25100	1702
17.8	24500	1684
17.6	24000	1667
17.4	23400	1649
17.2	22800	1632
17.0	22300	1615
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains	RGS™ .502" psi	fps
STOP		
9.8	35000	1558
9.7	34200	1544
9.6	33400	1531
9.5	32700	1518
9.4	31900	1504
9.3	31200	1491
9.2	30400	1478
9.1	29700	1464
9.0	28900	1451
8.9	28200	1438
8.8	27400	1424
8.7	26700	1411
8.6	25900	1398
8.5	25200	1385
STOP		

start here

RGS™ See page 5.

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

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

Hodgdon HS-7

Charge in grains	RGS™ .398" psi	fps
STOP		
10.7	35000	1585
10.6	34300	1571
10.5	33600	1558
10.4	32900	1545
10.3	32200	1532
10.2	31500	1519
10.1	30800	1506
10.0	30100	1493
9.9	29400	1479
9.8	28700	1466
9.7	28000	1453
9.6	27300	1440
9.5	26600	1427
9.4	25900	1414
9.3	25200	1401
start here 9.2	24600	1388
STOP		

Hodgdon Titegroup

Charge in grains	RGS™ .450" psi	fps
STOP		
7.0	35000	1494
6.9	34100	1479
6.8	33300	1465
6.7	32500	1451
6.6	31700	1436
6.5	30900	1422
6.4	30000	1408
6.3	29200	1393
start here 6.2	28400	1379
6.1	27600	1365
6.0	26800	1351
STOP		

IMR 4227

Charge in grains	RGS™ .363" psi	fps
STOP		
* 17.7	30500	1620
17.5	30100	1606
17.3	29700	1593
17.1	29400	1579
16.9	29000	1566
16.7	28600	1553
16.5	28300	1539
16.3	27900	1526
16.1	27500	1513
start here 15.9	27200	1499
15.7	26800	1486
15.5	26500	1473
STOP		

*Compressed load.

IMR 700X

Charge in grains	RGS™ 1.384" psi	fps
STOP		
6.5	35000	1443
6.4	34200	1427
6.3	33400	1411
6.2	32600	1395
6.1	31900	1379
6.0	31100	1363
5.9	30300	1347
5.8	29600	1331
5.7	28800	1315
5.6	28000	1299
5.5	27200	1283
5.4	26500	1267
5.3	25700	1251
5.2	24900	1235
5.1	24200	1219
start here 5.0	23400	1203
4.9	22600	1187
4.8	21900	1171
STOP		

Winchester 296

Charge in grains	RGS™ .467" psi	fps
STOP		
20.2	35000	1933
20.0	34200	1914
19.8	33500	1896
19.6	32800	1878
19.4	32000	1860
19.2	31300	1841
19.0	30600	1823
18.8	29800	1805
18.6	29100	1787
18.4	28400	1768
18.2	27600	1750
18.0	26900	1732
17.8	26200	1714
17.6	25400	1695
start here 17.4	24700	1677
17.2	24000	1659
17.0	23300	1641
STOP		

RGS™ See page 5.

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 pressures signs.

357Magnum
.357" Diameter
135 grain
Sectional
Density .151

	Nosler IPSC
Ballistic Coefficient	.149
Ctg. Over All Length	1.590"

Reducing Cartridge Over All Length increases pressure greatly.

BULLET		PAGE
Nosler IPSC	Jacketed	61

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 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	RGS™ .381" psi	fps
STOP		
12.8	35000	1553
12.6	34200	1531
12.4	33400	1509
12.2	32600	1487
12.0	31800	1466
11.8	31000	1444
11.6	30200	1422
11.4	29400	1401
11.2	28600	1379
11.0	27800	1357
10.8	27000	1335
10.6	26200	1314
10.4	25400	1292
10.2	24600	1270
start here 10.0	23800	1249
STOP		

Alliant 2400

Charge in grains	RGS™ .484" psi	fps
STOP		
16.0	35000	1696
15.8	34200	1673
15.6	33500	1650
15.4	32800	1627
15.2	32000	1604
15.0	31300	1581
14.8	30600	1558
14.6	29900	1535
14.4	29100	1513
14.2	28400	1490
14.0	27700	1467
13.8	27000	1444
13.6	26200	1421
start here 13.4	25500	1398
13.2	24800	1375
13.0	24100	1353
STOP		

Hodgdon 110

Charge in grains	RGS™ .259" psi	fps
STOP		
19.6	35000	1833
19.5	34600	1823
19.3	34000	1805
19.1	33400	1786
18.9	32800	1767
18.7	32200	1749
18.5	31600	1730
18.3	31000	1711
18.1	30400	1693
17.9	29700	1674
17.7	29100	1655
17.5	28500	1637
17.3	27900	1618
17.1	27300	1599
16.9	26700	1581
start here 16.7	26100	1562
16.5	25500	1544
STOP		

Hodgdon Titegroup

Charge in grains	RGS™ .277" psi	fps
STOP		
6.8	35000	1386
6.7	34100	1370
6.6	33300	1354
6.5	32500	1338
6.4	31700	1323
6.3	30900	1307
6.2	30100	1291
start here 6.1	29300	1275
6.0	28500	1260
STOP		

Winchester 296

Charge in grains	RGS™ .346" psi	fps
STOP		
18.9	35000	1820
18.8	34600	1809
18.7	34200	1799
18.6	33800	1788
18.5	33500	1778
18.4	33100	1767
18.3	32700	1757
18.2	32300	1747
18.1	32000	1736
18.0	31600	1726
17.9	31200	1715
17.8	30800	1705
17.7	30500	1694
17.6	30100	1684
17.5	29700	1674
17.4	29300	1663
17.3	29000	1653
start here 17.2	28600	1642
17.1	28200	1632
STOP		

RGS™ See page 5.

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

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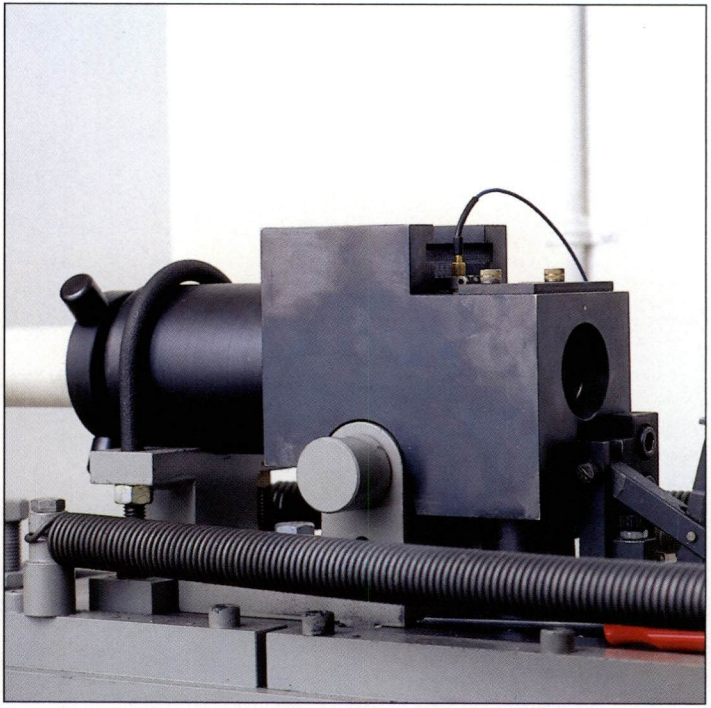

Our ballistics lab is temperature and humidity controlled to SAAMI specifications —70 degrees Fahrenheit and 60% relative humidity. Pressure and velocity are recorded using an Oehler System 83 and piezoelectric transducers, the latest in industry standard equipment. The Universal Receiver on the right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

357Magnum

.357" Diameter
140 grain
Sectional
Density .157

	Hornady HP/XTP	Remington JHP	Sierra JHC	Speer JHP
Ballistic Coefficient	.169	N/A	.155	.152
Ctg. Over All Length	1.575"	1.550"	1.560"	1.570"

Reducing Cartridge Over All Length increases pressure greatly.

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 psi

All testing was done using a solid barrel.
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Use extreme caution when loading in the Yellow or Red zones.

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Alliant 2400

RGS™ .225"

Charge in grains	psi	fps
STOP		
12.7	35000	1482
12.6	34600	1473
12.5	34200	1464
12.4	33900	1456
12.3	33500	1447
12.2	33200	1439
12.1	32800	1430
12.0	32500	1422
11.9	32100	1413
11.8	31800	1405
11.7	31400	1396
11.6	31100	1388
11.5	30700	1379
11.4	30400	1371
11.3	30000	1362
11.2	29700	1354
11.1	29300	1345
11.0	29000	1337
STOP		

start here

Hodgdon 110

RGS™ .329"

Charge in grains	psi	fps
STOP		
18.2	35000	1734
18.1	34600	1725
17.9	33900	1708
17.7	33300	1691
17.5	32600	1673
17.3	31900	1656
17.1	31200	1639
16.9	30600	1622
16.7	29900	1605
16.5	29200	1587
16.3	28500	1570
16.1	27900	1553
15.9	27200	1536
15.7	26500	1519
15.5	25900	1502
STOP		

start here

Hodgdon HS-6

RGS™ .415"

Charge in grains	psi	fps
STOP		
9.1	35000	1436
9.0	34200	1419
8.9	33400	1403
8.8	32700	1386
8.7	31900	1370
8.6	31100	1354
8.5	30400	1337
8.4	29600	1321
8.3	28800	1305
8.2	28100	1288
8.1	27300	1272
8.0	26600	1256
STOP		

start here

Hodgdon HS-7

RGS™ .208"

Charge in grains	psi	fps
STOP		
9.7	35000	1428
9.6	34200	1411
9.5	33500	1395
9.4	32800	1379
9.3	32000	1363
9.2	31300	1346
9.1	30600	1330
9.0	29800	1314
8.9	29100	1298
8.8	28400	1281
8.7	27600	1265
8.6	26900	1249
8.5	26200	1233
STOP		

start here

Hodgdon Titegroup

RGS™ .208"

Charge in grains	psi	fps
STOP		
6.5	35000	1346
6.4	34200	1330
6.3	33400	1315
6.2	32600	1299
6.1	31800	1284
6.0	31000	1268
5.9	30200	1253
5.8	29400	1237
5.7	28600	1222
5.6	27800	1206
5.5	27000	1191
STOP		

start here

RGS™See page 5.

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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	RGS™ .277" psi	fps
STOP		
16.5	35000	1518
16.4	34600	1510
16.3	34300	1502
16.2	34000	1494
16.1	33700	1486
16.0	33300	1478
15.9	33000	1470
15.8	32700	1463
15.7	32400	1455
15.6	32000	1447
15.5	31700	1439
15.4	31400	1431
15.3	31100	1423
15.2	30700	1415
15.1	30400	1408
15.0	30100	1400
14.9	29800	1392
14.8	29400	1384
14.7	29100	1376
STOP		

start here

IMR 700X

Charge in grains	RGS™ .260" psi	fps
STOP		
6.4	35000	1328
6.3	34100	1312
6.2	33200	1297
6.1	32400	1281
6.0	31500	1266
5.9	30600	1250
5.8	29800	1235
5.7	28900	1219
5.6	28000	1204
5.5	27200	1188
5.4	26300	1173
5.3	25500	1158
STOP		

start here

VihtaVuori N110

Charge in grains	RGS™ .225" psi	fps
STOP		
15.1	35000	1653
15.0	34600	1644
14.8	34000	1628
14.6	33400	1612
14.4	32700	1595
14.2	32100	1579
14.0	31400	1562
13.8	30800	1546
13.6	30200	1530
13.4	29500	1513
13.2	28900	1497
13.0	28200	1480
12.8	27600	1464
12.6	27000	1448
12.4	26300	1431
12.2	25700	1415
12.0	25100	1399
STOP		

start here

Winchester 296

Charge in grains	RGS™ .398" psi	fps
STOP		
17.9	35000	1730
17.8	34600	1721
17.7	34200	1712
17.6	33800	1704
17.5	33400	1695
17.4	33000	1686
17.3	32600	1678
17.2	32300	1669
17.1	31900	1660
17.0	31500	1652
16.9	31100	1643
16.8	30700	1635
16.7	30300	1626
16.6	30000	1617
16.5	29600	1609
16.4	29200	1600
16.3	28800	1591
16.2	28400	1583
16.1	28000	1574
STOP		

start here

RGS™ See page 5.

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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.

Alliant 2400

Charge in grains	RGS™ .363" psi	fps
STOP		
13.5	35000	1526
13.4	34800	1518
13.2	34400	1503
13.0	34000	1488
12.8	33600	1473
12.6	33200	1459
12.4	32800	1444
12.2	32400	1429
12.0	32000	1414
11.8	31600	1399
11.6	31200	1384
11.4	30800	1369
11.2	30400	1354
11.0	30100	1340
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .606" psi	fps
STOP		
18.3	35000	1740
18.1	34200	1722
17.9	33500	1704
17.7	32700	1687
17.5	32000	1669
17.3	31200	1652
17.1	30500	1634
16.9	29800	1617
16.7	29000	1599
16.5	28300	1581
16.3	27500	1564
16.1	26800	1546
15.9	26000	1529
15.7	25300	1511
15.5	24600	1494
STOP		

start here

Hodgdon HS-6

Charge in grains	RGS™ .433" psi	fps
STOP		
9.0	35000	1421
8.9	34200	1406
8.8	33500	1391
8.7	32800	1377
8.6	32000	1362
8.5	31300	1348
8.4	30600	1333
8.3	29800	1318
8.2	29100	1304
8.1	28400	1289
8.0	27700	1275
STOP		

start here

Hodgdon HS-7

Charge in grains	RGS™ .536" psi	fps
STOP		
9.7	35000	1400
9.6	34300	1385
9.5	33600	1371
9.4	32900	1356
9.3	32200	1342
9.2	31500	1327
9.1	30800	1313
9.0	30100	1298
8.9	29400	1284
8.8	28700	1269
8.7	28000	1255
8.6	27300	1240
8.5	26600	1226
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .623" psi	fps
STOP		
6.3	35000	1324
6.2	34000	1307
6.1	33100	1291
6.0	32100	1275
5.9	31200	1259
5.8	30300	1243
5.7	29300	1227
5.6	28400	1211
5.5	27500	1195
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 4227

Charge in grains	RGS™ .329" psi	fps
STOP		
16.6	35000	1510
16.5	34600	1501
16.3	34000	1485
16.1	33400	1469
15.9	32800	1453
15.7	32200	1436
15.5	31500	1420
15.3	30900	1404
15.1	30300	1387
14.9	29700	1371
14.7	29100	1355
14.5	28500	1339
STOP		

start here

IMR 700X

Charge in grains	RGS™ .571" psi	fps
STOP		
6.2	35000	1303
6.1	34000	1286
6.0	33100	1270
5.9	32100	1254
5.8	31200	1238
5.7	30200	1221
5.6	29300	1205
5.5	28300	1189
5.4	27400	1173
5.3	26500	1157
STOP		

start here

VihtaVuori N110

Charge in grains	RGS™ .588" psi	fps
STOP		
15.1	35000	1653
15.0	34600	1644
14.8	34000	1628
14.6	33400	1612
14.4	32800	1596
14.2	32200	1579
14.0	31600	1563
13.8	31000	1547
13.6	30400	1531
13.4	29800	1514
13.2	29200	1498
13.0	28600	1482
12.8	28000	1466
12.6	27400	1449
12.4	26800	1433
12.2	26200	1417
12.0	25600	1401
STOP		

start here

Winchester 296

Charge in grains	RGS™ .519" psi	fps
STOP		
18.0	35000	1747
17.9	34600	1738
17.8	34200	1730
17.7	33800	1721
17.6	33400	1713
17.5	33000	1705
17.4	32600	1696
17.3	32200	1688
17.2	31800	1679
17.1	31400	1671
17.0	31000	1663
16.9	30600	1654
16.8	30200	1646
16.7	29800	1637
16.6	29400	1629
16.5	29000	1621
16.4	28600	1612
16.3	28200	1604
16.2	27800	1595
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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

RGS™ .311"

Charge in grains	psi	fps
STOP		
13.0	35000	1522
12.9	34700	1514
12.8	34400	1506
12.7	34100	1498
12.6	33800	1491
12.5	33600	1483
12.4	33300	1475
12.3	33000	1467
12.2	32700	1460
12.1	32400	1452
12.0	32200	1444
11.9	31900	1436
11.8	31600	1429
11.7	31300	1421
11.6	31000	1413
11.5	30800	1405
11.4	30500	1398
11.3	30200	1390
11.2	29900	1382
STOP		

start here

Hodgdon 110

RGS™ .311"

Charge in grains	psi	fps
STOP		
17.4	35000	1714
17.3	34500	1703
17.2	34000	1693
17.1	33500	1683
17.0	33100	1673
16.9	32600	1663
16.8	32100	1653
16.7	31600	1642
16.6	31200	1632
16.5	30700	1622
16.4	30200	1612
16.3	29700	1602
16.2	29300	1592
16.1	28800	1581
16.0	28300	1571
15.9	27800	1561
15.8	27400	1551
15.7	26900	1541
15.6	26400	1531
STOP		

start here

Hodgdon HS-6

RGS™ .363"

Charge in grains	psi	fps
STOP		
8.9	35000	1423
8.8	34000	1406
8.7	33100	1390
8.6	32200	1374
8.5	31300	1358
8.4	30300	1341
8.3	29400	1325
8.2	28500	1309
8.1	27600	1293
8.0	26700	1277
STOP		

start here

Hodgdon HS-7

RGS™ .415"

Charge in grains	psi	fps
STOP		
9.5	35000	1404
9.4	34100	1386
9.3	33200	1369
9.2	32300	1352
9.1	31400	1335
9.0	30600	1318
8.9	29700	1301
8.8	28800	1284
8.7	27900	1267
8.6	27000	1250
8.5	26200	1233
STOP		

start here

Hodgdon Titegroup

RGS™ .675"

Charge in grains	psi	fps
STOP		
6.4	35000	1350
6.3	34000	1333
6.2	33100	1317
6.1	32200	1301
6.0	31300	1285
5.9	30400	1269
5.8	29500	1253
5.7	28600	1237
5.6	27700	1221
5.5	26800	1205
STOP		

start here

RGS™See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 4227

RGS™ .277"

Charge in grains	psi	fps
STOP		
16.4	35000	1527
16.3	34600	1518
16.2	34300	1510
16.1	34000	1502
16.0	33700	1494
15.9	33300	1486
15.8	33000	1478
15.7	32700	1470
15.6	32400	1462
15.5	32100	1454
15.4	31700	1446
15.3	31400	1438
15.2	31100	1430
15.1	30800	1422
15.0	30500	1414
14.9	30100	1406
14.8	29800	1398
14.7	29500	1390
14.6	29200	1382
STOP		

start here

IMR 700X

RGS™ .588"

Charge in grains	psi	fps
STOP		
6.2	35000	1314
6.1	33900	1296
6.0	32800	1279
5.9	31800	1262
5.8	30700	1245
5.7	29600	1228
5.6	28600	1211
5.5	27500	1194
5.4	26400	1177
5.3	25400	1160
STOP		

start here

VihtaVuori N110

RGS™ .640"

Charge in grains	psi	fps
STOP		
14.8	35000	1652
14.6	34300	1635
14.4	33600	1618
14.2	32900	1601
14.0	32200	1584
13.8	31600	1567
13.6	30900	1550
13.4	30200	1533
13.2	29500	1516
13.0	28800	1499
12.8	28200	1482
12.6	27500	1465
12.4	26800	1448
12.2	26100	1431
12.0	25500	1414
STOP		

start here

Winchester 296

RGS™ .346"

Charge in grains	psi	fps
STOP		
17.4	35000	1746
17.3	34500	1736
17.2	34000	1727
17.1	33600	1718
17.0	33100	1709
16.9	32600	1699
16.8	32200	1690
16.7	31700	1681
16.6	31200	1672
16.5	30800	1663
16.4	30300	1653
16.3	29800	1644
16.2	29400	1635
16.1	28900	1626
16.0	28500	1617
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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

RGS™ .190"

Charge in grains	psi	fps
STOP		
13.0	35000	1506
12.9	34700	1497
12.8	34400	1489
12.7	34100	1481
12.6	33800	1473
12.5	33500	1464
12.4	33200	1456
12.3	32900	1448
12.2	32600	1440
12.1	32300	1431
12.0	32000	1423
11.9	31700	1415
11.8	31400	1407
11.7	31100	1398
11.6	30800	1390
11.5	30500	1382
11.4	30200	1374
11.3	29900	1365
11.2	29600	1357
STOP		

start here

Hodgdon 110

RGS™ .294"

Charge in grains	psi	fps
STOP		
17.6	35000	1700
17.5	34500	1691
17.3	33700	1673
17.1	32900	1656
16.9	32000	1639
16.7	31200	1621
16.5	30300	1604
16.3	29500	1586
16.1	28700	1569
15.9	27800	1551
15.7	27000	1534
15.5	26200	1517
STOP		

start here

Hodgdon HS-6

RGS™ .260"

Charge in grains	psi	fps
STOP		
9.1	35000	1422
9.0	34200	1406
8.9	33400	1390
8.8	32600	1374
8.7	31800	1358
8.6	31000	1342
8.5	30300	1327
8.4	29500	1311
8.3	28700	1295
8.2	27900	1279
8.1	27100	1263
8.0	26400	1248
STOP		

start here

Hodgdon HS-7

RGS™ .346"

Charge in grains	psi	fps
STOP		
9.8	35000	1426
9.7	34300	1410
9.6	33600	1394
9.5	32900	1378
9.4	32200	1363
9.3	31500	1347
9.2	30800	1331
9.1	30100	1316
9.0	29400	1300
8.9	28700	1284
8.8	28000	1269
8.7	27300	1253
8.6	26600	1237
8.5	26000	1222
STOP		

start here

Hodgdon Titegroup

RGS™ .208"

Charge in grains	psi	fps
STOP		
6.5	35000	1339
6.4	34000	1322
6.3	33100	1306
6.2	32200	1290
6.1	31300	1274
6.0	30400	1258
5.9	29500	1241
5.8	28600	1225
5.7	27700	1209
5.6	26800	1193
5.5	25900	1177
STOP		

start here

RGS™See page 5.

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

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

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

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

IMR 4227

Charge in grains	RGS™ .242" psi	fps
STOP		
16.9	35000	1535
16.7	34400	1520
16.5	33800	1505
16.3	33300	1490
16.1	32700	1475
15.9	32100	1460
15.7	31600	1445
15.5	31000	1430
15.3	30400	1415
15.1	29900	1400
14.9	29300	1385
14.7	28700	1370
14.5	28200	1355
STOP		

start here

IMR 700X

Charge in grains	RGS™ .138" psi	fps
STOP		
6.3	35000	1302
6.2	34100	1286
6.1	33300	1271
6.0	32500	1256
5.9	31700	1241
5.8	30900	1226
5.7	30000	1210
5.6	29200	1195
5.5	28400	1180
5.4	27600	1165
5.3	26800	1150
STOP		

start here

VihtaVuori N110

Charge in grains	RGS™ .277" psi	fps
STOP		
15.1	35000	1645
15.0	34600	1636
14.8	34000	1620
14.6	33400	1604
14.4	32700	1588
14.2	32100	1572
14.0	31400	1556
13.8	30800	1540
13.6	30200	1524
13.4	29500	1508
13.2	28900	1492
13.0	28200	1476
12.8	27600	1460
12.6	27000	1444
12.4	26300	1428
12.2	25700	1412
12.0	25100	1396
STOP		

start here

Winchester 296

Charge in grains	RGS™ .277" psi	fps
STOP		
17.8	35000	1735
17.7	34500	1726
17.6	34100	1718
17.5	33700	1710
17.4	33300	1702
17.3	32900	1694
17.2	32500	1686
17.1	32000	1678
17.0	31600	1670
16.9	31200	1662
16.8	30800	1653
16.7	30400	1645
16.6	30000	1637
16.5	29500	1629
16.4	29100	1621
16.3	28700	1613
16.2	28300	1605
16.1	27900	1597
16.0	27500	1589
STOP		

start here

RGS™See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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.

357Magnum
.357" Diameter
145 grain
Sectional
Density .163

	Winchester ST/HP
Ballistic Coefficient	N/A
Ctg. Over All Length	1.570"

Reducing Cartridge Over All Length increases pressure greatly.

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 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	RGS™ .398" psi	fps
STOP		
12.2	35000	1447
12.1	34500	1436
12.0	34000	1426
11.9	33500	1416
11.8	33000	1406
11.7	32500	1396
11.6	32100	1386
11.5	31600	1375
11.4	31100	1365
11.3	30600	1355
start here 11.2	30100	1345
11.1	29600	1335
11.0	29200	1325
STOP		

Hodgdon 110

Charge in grains	RGS™ .190" psi	fps
STOP		
* 17.2	35000	1653
16.9	34300	1632
16.6	33600	1612
16.3	32900	1591
16.0	32200	1571
15.7	31600	1550
15.4	30900	1530
15.1	30200	1510
14.8	29500	1489
14.5	28800	1469
14.2	28200	1448
13.9	27500	1428
13.6	26800	1407
start here 13.3	26100	1387
13.0	25500	1367
STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .381" psi	fps
STOP		
6.2	35000	1294
6.1	34100	1277
6.0	33200	1260
5.9	32300	1243
5.8	31400	1226
5.7	30500	1209
start here 5.6	29600	1192
5.5	28700	1176
STOP		

VihtaVuori N110

Charge in grains	RGS™ .346" psi	fps
STOP		
14.7	35000	1619
14.5	34200	1600
14.3	33500	1582
14.1	32800	1563
13.9	32100	1545
13.7	31400	1526
13.5	30600	1508
13.3	29900	1489
13.1	29200	1471
12.9	28500	1452
start here 12.7	27800	1434
12.5	27100	1416
STOP		

Winchester 231

Charge in grains	RGS™ .242" psi	fps
STOP		
6.3	35000	1226
6.2	33700	1208
6.1	32400	1190
6.0	31100	1172
5.9	29800	1154
start here 5.8	28500	1136
STOP		

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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.

357Magnum
.357" Diameter
146 grain
Sectional
Density .164

	Speer SWC/HP
Ballistic Coefficient	.159
Ctg. Over All Length	1.530"

Reducing Cartridge Over All Length increases pressure greatly.

BULLET	PAGE
Speer SWC/HP ..... Plated	75

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 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.

Hodgdon 4227

	Charge in grains	RGS™ .311" psi	fps
	STOP		
*	16.0	35000	1479
	15.8	34500	1463
	15.6	34100	1448
	15.4	33600	1432
	15.2	33200	1417
	15.0	32800	1401
	14.8	32300	1386
	14.6	31900	1370
	14.4	31500	1355
	14.2	31000	1339
	14.0	30600	1324
	13.8	30200	1308
	13.6	29700	1293
	13.4	29300	1277
	13.2	28900	1262
	13.0	28400	1246
	12.8	28000	1231
start here	12.6	27600	1215
	STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .311" psi	fps
STOP		
5.9	35000	1264
5.8	34000	1246
5.7	33100	1228
5.6	32100	1210
5.5	31200	1193
5.4	30300	1175
5.3	29300	1157
5.2	28400	1139
5.1	27500	1122
5.0	26500	1104
4.9	25600	1086
start here 4.8	24700	1069
STOP		

IMR 4227

	Charge in grains	RGS™ .381" psi	fps
	STOP		
*	15.8	35000	1459
	15.6	34600	1444
	15.4	34200	1429
	15.2	33800	1414
	15.0	33400	1400
	14.8	33000	1385
	14.6	32600	1370
	14.4	32200	1355
	14.2	31800	1341
	14.0	31400	1326
	13.8	31000	1311
	13.6	30600	1296
	13.4	30200	1282
	13.2	29800	1267
	13.0	29400	1252
start here	12.8	29000	1237
	12.6	28600	1223
	STOP		

*Compressed load.

VihtaVuori N110

	Charge in grains	RGS™ .363" psi	fps
	STOP		
*	14.3	35000	1589
	14.2	34600	1580
	14.0	33900	1562
	13.8	33200	1544
	13.6	32500	1526
	13.4	31900	1509
	13.2	31200	1491
	13.0	30500	1473
	12.8	29800	1455
	12.6	29100	1438
	12.4	28400	1420
	12.2	27700	1402
start here	12.0	27100	1385
	STOP		

*Compressed load.

Winchester 296

	Charge in grains	RGS™ .329" psi	fps
	STOP		
*	17.0	35000	1689
	16.8	34400	1674
	16.6	33900	1659
	16.4	33400	1644
	16.2	32800	1629
	16.0	32300	1614
	15.8	31800	1599
	15.6	31200	1584
	15.4	30700	1569
	15.2	30200	1554
	15.0	29600	1539
	14.8	29100	1524
	14.6	28600	1509
	14.4	28000	1494
start here	14.2	27500	1479
	14.0	27000	1465
	STOP		

*Compressed load.

RGS™ See page 5.

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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357Magnum
.357" Diameter
148 grain
Sectional
Density .166

	Rainier DEWC	Bull-X BN	Bull-X DEWC	Hornady BBWC	Hornady DEWC	Hornady HBWC	Speer BBWC	Speer HBWC
Ballistic Coefficient	N/A	N/A	N/A	.055	.048	.047	.052	.050
Ctg. Over All Length	1.350"	1.415"	1.358"	1.260"	1.300"	1.300"	1.410"	1.315"

Reducing Cartridge Over All Length increases pressure greatly.

BULLET		PAGE
Rainier DEWC	Plated	77
Bull-X BN	Lead	78-79
Bull-X DEWC	Lead	80-81
Hornady BBWC	Lead	82-83
Hornady DEWC	Lead	84-85
Hornady HBWC	Lead	86-87
Speer BBWC	Lead	88-89
Speer HBWC	Lead	90-91

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 psi

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

357 Magnum

Rainier 148 gr DEWC

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	RGS™ .606" psi	fps
STOP		
9.7	35000	1276
9.6	34100	1264
9.5	33300	1252
9.4	32500	1240
9.3	31600	1229
9.2	30800	1217
9.1	30000	1205
9.0	29200	1194
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ 1.263" psi	fps
STOP		
* 14.3	35000	1525
14.2	34600	1516
14.0	33900	1498
13.8	33100	1480
13.6	32400	1463
13.4	31700	1445
13.2	30900	1427
13.0	30200	1410
12.8	29500	1392
12.6	28700	1374
12.4	28000	1357
12.2	27300	1339
12.0	26600	1322
STOP		

start here

*Compressed load.

Hodgdon HS-7

Charge in grains	RGS™ 2.336" psi	fps
STOP		
8.0	35000	1274
7.9	34200	1260
7.8	33500	1246
7.7	32700	1232
7.6	32000	1218
7.5	31200	1204
7.4	30500	1190
7.3	29700	1176
7.2	29000	1162
7.1	28200	1148
7.0	27500	1135
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ 1.134" psi	fps
STOP		
5.0	35000	1176
4.9	33600	1164
4.8	32300	1152
4.7	31000	1140
4.6	29700	1128
4.5	28400	1116
STOP		

start here

IMR 4227

Charge in grains	RGS™ .779" psi	fps
STOP		
* 12.8	35000	1294
12.6	34400	1276
12.4	33800	1259
12.2	33300	1241
12.0	32700	1224
11.8	32200	1206
11.6	31600	1189
11.4	31100	1171
11.2	30500	1154
11.0	29900	1136
10.8	29400	1119
10.6	28800	1101
10.4	28300	1084
10.2	27700	1066
10.0	27200	1049
STOP		

start here

*Compressed load.

RGS™ See page 5.

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

Accurate Arms 5

RGS™ .207"

Charge in grains	psi	fps
STOP		
7.6	35000	1326
7.5	34200	1311
7.4	33400	1297
7.3	32600	1282
7.2	31900	1268
7.1	31100	1253
7.0	30300	1239
6.9	29500	1224
6.8	28800	1210
6.7	28000	1195
6.6	27200	1181
6.5	26500	1167
STOP		

start here

Alliant 2400

RGS™ .450"

Charge in grains	psi	fps
STOP		
11.7	35000	1472
11.5	34500	1455
11.3	34000	1438
11.1	33500	1422
10.9	33000	1405
10.7	32500	1388
10.5	32000	1372
10.3	31500	1355
10.1	31000	1338
9.9	30500	1322
9.7	30000	1305
9.5	29600	1289
STOP		

start here

Hodgdon 4227

RGS™ .311"

	Charge in grains	psi	fps
	STOP		
*	13.5	29300	1331
	13.4	29100	1323
	13.2	28700	1308
	13.0	28400	1294
	12.8	28100	1279
	12.6	27700	1264
	12.4	27400	1249
	12.2	27000	1235
	12.0	26700	1220
	11.8	26300	1205
	11.6	26000	1190
	11.4	25700	1176
	11.2	25300	1161
	11.0	25000	1146
	10.8	24600	1131
	10.6	24300	1117
	10.4	23900	1102
	10.2	23600	1087
	STOP		

start here

*Compressed load.

Hodgdon Titegroup

RGS™ .225"

Charge in grains	psi	fps
STOP		
5.2	35000	1260
5.1	33900	1243
5.0	32900	1227
4.9	31900	1210
4.8	30900	1194
4.7	29900	1177
4.6	28900	1161
4.5	27800	1144
4.4	26800	1128
4.3	25800	1111
4.2	24800	1095
4.1	23800	1078
4.0	22800	1062
STOP		

start here

IMR 4227

RGS™ .260"

	Charge in grains	psi	fps
	STOP		
*	14.0	35000	1385
	13.8	34400	1370
	13.6	33900	1355
	13.4	33400	1340
	13.2	32800	1326
	13.0	32300	1311
	12.8	31800	1296
	12.6	31200	1282
	12.4	30700	1267
	12.2	30200	1252
	12.0	29700	1238
	11.8	29100	1223
	11.6	28600	1208
	11.4	28100	1193
	11.2	27500	1179
	11.0	27000	1164
	10.8	26500	1149
	10.6	25900	1135
	STOP		

start here

*Compressed load.

RGS™ See page 5.

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

IMR 700X

Charge in grains	RGS™ .190" psi	fps
STOP		
5.3	35000	1253
5.2	33900	1236
5.1	32900	1220
5.0	31900	1204
4.9	30900	1187
4.8	29900	1171
4.7	28900	1155
4.6	27900	1138
4.5	26900	1122
4.4	25900	1106
4.3	24900	1090
STOP		

start here

Winchester 231

Charge in grains	RGS™ .328" psi	fps
STOP		
5.4	35000	1208
5.3	33900	1191
5.2	32900	1174
5.1	31900	1157
5.0	30900	1140
4.9	29800	1124
4.8	28800	1107
4.7	27800	1090
4.6	26800	1073
4.5	25800	1056
4.4	24700	1040
4.3	23700	1023
4.2	22700	1006
4.1	21700	989
4.0	20700	973
STOP		

start here

Winchester 296

Charge in grains	RGS™ .726" psi	fps
STOP		
15.1	35000	1623
14.9	34500	1608
14.6	33900	1586
14.3	33300	1564
14.0	32700	1542
13.7	32100	1521
13.4	31500	1499
13.1	30900	1477
12.8	30300	1455
12.5	29700	1433
12.2	29100	1411
11.9	28500	1390
11.6	27900	1368
11.3	27300	1346
11.0	26700	1324
10.7	26100	1302
10.4	25500	1280
10.1	24900	1259
STOP		

start here

RGS™See page 5.

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

Accurate Arms 5

RGS™ .536"

Charge in grains	psi	fps
STOP		
7.5	35000	1319
7.4	34200	1304
7.3	33400	1289
7.2	32600	1274
7.1	31800	1259
7.0	31000	1244
6.9	30200	1229
6.8	29400	1214
6.7	28600	1199
6.6	27800	1184
6.5	27100	1170
STOP		

start here

Alliant 2400

RGS™ .588"

Charge in grains	psi	fps
STOP		
11.2	35000	1440
11.1	34700	1431
11.0	34500	1423
10.9	34300	1415
10.8	34100	1407
10.7	33900	1399
10.6	33600	1391
10.5	33400	1383
10.4	33200	1375
10.3	33000	1367
10.2	32800	1359
10.1	32600	1351
10.0	32300	1343
9.9	32100	1335
9.8	31900	1327
9.7	31700	1319
9.6	31500	1311
9.5	31300	1303
STOP		

start here

Hodgdon 4227

RGS™ .640"

Charge in grains	psi	fps
STOP		
* 13.5	31200	1355
13.4	30900	1346
13.2	30500	1330
13.0	30100	1314
12.8	29700	1297
12.6	29300	1281
12.4	28900	1265
12.2	28400	1248
12.0	28000	1232
11.8	27600	1216
11.6	27200	1199
11.4	26800	1183
11.2	26400	1167
11.0	25900	1150
10.8	25500	1134
10.6	25100	1118
10.4	24700	1101
10.2	24300	1085
STOP		

start here

*Compressed load.

Hodgdon Titegroup

RGS™ .328"

Charge in grains	psi	fps
STOP		
5.0	35000	1236
4.9	33900	1219
4.8	32900	1202
4.7	31800	1186
4.6	30800	1169
4.5	29800	1153
4.4	28700	1136
4.3	27700	1119
4.2	26600	1103
4.1	25600	1086
4.0	24600	1070
STOP		

start here

IMR 4227

RGS™ .605"

Charge in grains	psi	fps
STOP		
* 13.8	35000	1377
13.6	34500	1362
13.4	34000	1348
13.2	33500	1333
13.0	33000	1319
12.8	32500	1304
12.6	32000	1290
12.4	31500	1275
12.2	31000	1261
12.0	30500	1246
11.8	30000	1232
11.6	29500	1217
11.4	29000	1203
11.2	28500	1188
11.0	28000	1174
10.8	27500	1159
10.6	27000	1145
10.4	26500	1130
STOP		

start here

*Compressed load.

RGS™See page 5.

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357 Magnum

Bull-X 148 gr Lead DEWC

IMR 700X

Charge in grains	RGS™ .346" psi	fps
STOP		
5.1	35000	1231
5.0	33900	1214
4.9	32800	1198
4.8	31800	1182
4.7	30700	1166
4.6	29600	1150
4.5	28600	1134
4.4	27500	1118
4.3	26500	1102
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.

Winchester 231

Charge in grains	RGS™ .501" psi	fps
STOP		
5.3	35000	1188
5.2	34000	1173
5.1	33000	1158
5.0	32000	1143
4.9	31000	1128
4.8	30000	1113
4.7	29000	1098
4.6	28100	1084
4.5	27100	1069
4.4	26100	1054
4.3	25100	1039
4.2	24100	1024
4.1	23100	1009
4.0	22200	995
STOP		

start here

Winchester 296

Charge in grains	RGS™ .975" psi	fps
STOP		
14.4	35000	1595
14.3	34700	1587
14.0	34100	1566
13.7	33500	1545
13.4	32900	1523
13.1	32300	1502
12.8	31700	1480
12.5	31100	1459
12.2	30500	1437
11.9	29900	1416
11.6	29300	1395
11.3	28700	1373
11.0	28100	1352
10.7	27500	1330
10.4	26900	1309
10.1	26300	1288
STOP		

start here

RGS™See page 5.

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

Accurate Arms 5

RGS™ 1.608"

Charge in grains	psi	fps
STOP		
7.6	35000	1305
7.5	34200	1291
7.4	33400	1278
7.3	32600	1264
7.2	31800	1251
7.1	31100	1237
7.0	30300	1224
6.9	29500	1210
6.8	28700	1197
6.7	27900	1183
6.6	27200	1170
STOP		

start here

Alliant 2400

RGS™ .467"

Charge in grains	psi	fps
STOP		
11.3	35000	1424
11.2	34700	1415
11.1	34400	1407
11.0	34100	1398
10.9	33800	1390
10.8	33600	1381
10.7	33300	1373
10.6	33000	1364
10.5	32700	1356
10.4	32500	1347
10.3	32200	1339
10.2	31900	1330
10.1	31600	1322
10.0	31300	1313
9.9	31100	1305
9.8	30800	1296
9.7	30500	1288
9.6	30200	1279
9.5	30000	1271
STOP		

start here

Hodgdon 4227

RGS™ .225"

Charge in grains	psi	fps
STOP		
* 13.5	30700	1328
13.4	30400	1320
13.2	30000	1305
13.0	29600	1290
12.8	29200	1274
12.6	28700	1259
12.4	28300	1244
12.2	27900	1229
12.0	27500	1214
11.8	27100	1198
11.6	26600	1183
11.4	26200	1168
11.2	25800	1153
11.0	25400	1138
10.8	24900	1122
10.6	24500	1107
10.4	24100	1092
10.2	23700	1077
STOP		

start here

*Compressed load.

Hodgdon Titegroup

RGS™ .692"

Charge in grains	psi	fps
STOP		
5.2	35000	1150
5.1	34000	1139
5.0	33000	1129
4.9	32000	1119
4.8	31000	1108
4.7	30000	1098
4.6	29000	1088
4.5	28000	1077
4.4	27000	1067
4.3	26000	1057
4.2	25000	1046
4.1	24000	1036
4.0	2300	1026
STOP		

start here

IMR 4227

RGS™ 1.730"

Charge in grains	psi	fps
STOP		
* 14.0	35000	1362
13.8	34500	1347
13.6	34000	1333
13.4	33500	1319
13.2	33000	1305
13.0	32500	1291
12.8	32000	1277
12.6	31500	1262
12.4	31000	1248
12.2	30500	1234
12.0	30000	1220
11.8	29500	1206
11.6	29000	1192
11.4	28500	1178
11.2	28000	1163
11.0	27500	1149
10.8	27000	1135
10.6	26500	1121
STOP		

start here

*Compressed load.

RGS™ See page 5.

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IMR 700X

Charge in grains	RGS™ 1.851" psi	fps
STOP		
5.3	35000	1123
5.2	33900	1115
5.1	32800	1107
5.0	31800	1099
4.9	30700	1091
4.8	29700	1084
4.7	28600	1076
4.6	27500	1068
4.5	26500	1060
4.4	25400	1052
4.3	24400	1045
STOP		

start here

Winchester 231

Charge in grains	RGS™ 1.038" psi	fps
STOP		
5.6	35000	1150
5.5	34000	1137
5.4	33000	1124
5.3	32100	1111
5.2	31100	1098
5.1	30200	1085
5.0	29200	1072
4.9	28300	1059
4.8	27300	1046
4.7	26300	1033
4.6	25400	1020
4.5	24400	1007
4.4	23500	994
4.3	22500	981
4.2	21600	968
4.1	20600	955
4.0	19700	942
STOP		

start here

Winchester 296

Charge in grains	RGS™ .398" psi	fps
STOP		
* 14.7	35000	1591
14.6	34700	1583
14.3	34000	1560
14.0	33300	1537
13.7	32600	1514
13.4	31900	1492
13.1	31200	1469
12.8	30500	1446
12.5	29800	1423
12.2	29100	1400
11.9	28400	1377
11.6	27700	1355
11.3	27000	1332
11.0	26300	1309
10.7	25600	1286
10.4	24900	1263
10.1	24300	1241
STOP		

start here

*Compressed load.

RGS™See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 5

RGS™ .276"

Charge in grains	psi	fps
STOP		
6.9	35000	1258
6.8	33800	1239
6.7	32600	1221
6.6	31400	1202
6.5	30200	1184
STOP		

start here

Alliant 2400

RGS™ .328"

Charge in grains	psi	fps
STOP		
11.1	35000	1420
11.0	34700	1411
10.9	34500	1402
10.8	34300	1394
10.7	34100	1385
10.6	33900	1376
10.5	33700	1368
10.4	33500	1359
10.3	33300	1351
10.2	33000	1342
10.1	32800	1333
10.0	32600	1325
9.9	32400	1316
9.8	32200	1307
9.7	32000	1299
9.6	31800	1290
9.5	31600	1282
STOP		

start here

Hodgdon 4227

RGS™ .328"

Charge in grains	psi	fps
STOP		
* 13.5	35000	1336
13.4	34700	1328
13.2	34200	1313
13.0	33600	1298
12.8	33100	1283
12.6	32600	1268
12.4	32100	1253
12.2	31500	1238
12.0	31000	1223
11.8	30500	1208
11.6	30000	1193
11.4	29400	1178
11.2	28900	1163
11.0	28400	1148
10.8	27900	1133
10.6	27300	1118
10.4	26800	1103
10.2	26300	1088
STOP		

start here

*Compressed load.

Hodgdon Titegroup

RGS™ 1.142"

Charge in grains	psi	fps
STOP		
4.8	35000	1177
4.7	33700	1159
4.6	32400	1141
4.5	31100	1123
4.4	29900	1106
4.3	28600	1088
4.2	27300	1070
4.1	26000	1052
4.0	24800	1035
STOP		

start here

IMR 4227

RGS™ .329"

Charge in grains	psi	fps
STOP		
* 13.3	35000	1321
13.2	34700	1313
13.0	34300	1299
12.8	33800	1284
12.6	33300	1269
12.4	32900	1255
12.2	32400	1240
12.0	31900	1225
11.8	31500	1211
11.6	31000	1196
11.4	30500	1181
11.2	30100	1167
11.0	29600	1152
10.8	29100	1137
10.6	28700	1123
10.4	28200	1108
10.2	27700	1093
10.0	27300	1079
STOP		

start here

*Compressed load.

RGS™ See page 5.

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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 700X

Charge in grains	RGS™ 1.851" psi	fps
STOP		
4.8	35000	1147
4.7	33400	1130
4.6	31800	1114
4.5	30300	1097
4.4	28700	1081
4.3	27200	1065
STOP		

start here

Winchester 231

Charge in grains	RGS™ 1.038" psi	fps
STOP		
5.3	35000	1168
5.2	33900	1152
5.1	32900	1136
5.0	31900	1120
4.9	30900	1105
4.8	29900	1089
4.7	28900	1073
4.6	27900	1058
4.5	26900	1042
4.4	25900	1026
4.3	24900	1011
4.2	23900	995
4.1	22900	979
4.0	21900	964
STOP		

start here

Winchester 296

Charge in grains	RGS™ .986" psi	fps
STOP		
14.0	35000	1547
13.9	34700	1539
13.7	34200	1523
13.5	33700	1507
13.3	33200	1491
13.1	32700	1475
12.9	32200	1460
12.7	31800	1444
12.5	31300	1428
12.3	30800	1412
12.1	30300	1396
11.9	29800	1381
11.7	29300	1365
11.5	28800	1349
11.3	28300	1333
11.1	27800	1317
10.9	27300	1302
10.7	26800	1286
10.5	26300	1270
STOP		

start here

RGS™See page 5.

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Hornady 148 gr Lead HBWC — 357 Magnum

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	RGS™ .363" psi	fps
STOP		
7.2	35000	1261
7.1	34200	1247
7.0	33400	1234
6.9	32600	1221
6.8	31800	1207
6.7	31000	1194
6.6	30200	1181
6.5	29500	1168
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .467" psi	fps
STOP		
11.5	35000	1440
11.4	34700	1431
11.3	34500	1423
11.2	34200	1415
11.1	34000	1406
11.0	33700	1398
10.9	33500	1390
10.8	33200	1381
10.7	33000	1373
10.6	32700	1365
10.5	32500	1357
10.4	32200	1348
10.3	32000	1340
10.2	31700	1332
10.1	31500	1323
10.0	31200	1315
9.9	31000	1307
9.8	30700	1298
9.7	30500	1290
STOP		

start here

Hodgdon 4227

Charge in grains	RGS™ .328" psi	fps
STOP		
* 13.5	29800	1323
13.4	29500	1315
13.2	29100	1300
13.0	28700	1286
12.8	28300	1271
12.6	27900	1256
12.4	27500	1241
12.2	27100	1226
12.0	26700	1212
11.8	26300	1197
11.6	25800	1182
11.4	25400	1167
11.2	25000	1152
11.0	24600	1138
10.8	24200	1123
10.6	23800	1108
10.4	23400	1093
10.2	23000	1078
STOP		

start here

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .553" psi	fps
STOP		
4.9	35000	1197
4.8	33900	1180
4.7	32900	1164
4.6	31800	1148
4.5	30800	1132
4.4	29700	1116
4.3	28700	1100
4.2	27600	1084
4.1	26600	1068
4.0	25600	1052
STOP		

start here

IMR 4227

Charge in grains	RGS™ .311" psi	fps
STOP		
* 14.0	35000	1364
13.8	34300	1348
13.6	33700	1332
13.4	33100	1316
13.2	32500	1300
13.0	31900	1284
12.8	31300	1268
12.6	30700	1252
12.4	30100	1236
12.2	29500	1220
12.0	28900	1204
11.8	28300	1188
11.6	27700	1172
11.4	27100	1156
11.2	26500	1140
11.0	25900	1124
10.8	25300	1108
10.6	24700	1092
STOP		

start here

*Compressed load.

RGS™ See page 5.

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

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357 Magnum

Hornady 148 gr Lead HBWC

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 700X

Charge in grains	RGS™ .432" psi	fps
STOP		
4.9	35000	1186
4.8	33800	1168
4.7	32700	1151
4.6	31600	1134
4.5	30500	1117
4.4	29400	1100
4.3	28300	1083
STOP		

start here

Winchester 231

Charge in grains	RGS™ .311" psi	fps
STOP		
5.4	35000	1184
5.3	34000	1168
5.2	33100	1152
5.1	32200	1136
5.0	31200	1120
4.9	30300	1105
4.8	29400	1089
4.7	28500	1073
4.6	27500	1057
4.5	26600	1041
4.4	25700	1026
4.3	24700	1010
4.2	23800	994
4.1	22900	978
4.0	22000	963
STOP		

start here

Winchester 296

Charge in grains	RGS™ 1.816" psi	fps
STOP		
* 14.7	35000	1574
14.6	34700	1566
14.3	34000	1542
14.0	33200	1519
13.7	32500	1495
13.4	31700	1472
13.1	31000	1449
12.8	30200	1425
12.5	29500	1402
12.2	28800	1378
11.9	28000	1355
11.6	27300	1332
11.3	26500	1308
11.0	25800	1285
10.7	25000	1261
10.4	24300	1238
10.1	23600	1215
STOP		

start here

*Compressed load.

RGS™ See page 5.

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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 5

Charge in grains	RGS™ .501" psi	fps
STOP		
7.9	35000	1338
7.8	34200	1323
7.7	33500	1309
7.6	32700	1295
7.5	32000	1281
7.4	31200	1267
7.3	30500	1253
7.2	29700	1239
7.1	29000	1225
7.0	28200	1211
6.9	27500	1197
6.8	26700	1183
start here 6.7	26000	1169
6.6	25200	1155
6.5	24500	1141
STOP		

Alliant 2400

Charge in grains	RGS™ .294" psi	fps
STOP		
11.6	35000	1452
11.5	34600	1443
11.3	33900	1425
11.1	33100	1407
10.9	32400	1390
10.7	31700	1372
10.5	31000	1354
10.3	30200	1336
10.1	29500	1319
start here 9.9	28800	1301
9.7	28100	1283
9.5	27400	1266
STOP		

Hodgdon 4227

Charge in grains	RGS™ .415" psi	fps
STOP		
* 13.5	27400	1310
13.4	27200	1302
13.2	26800	1287
13.0	26500	1272
12.8	26100	1256
12.6	25700	1241
12.4	25400	1226
12.2	25000	1211
12.0	24700	1196
11.8	24300	1180
11.6	23900	1165
11.4	23600	1150
11.2	23200	1135
11.0	22900	1120
10.8	22500	1104
start here 10.6	22100	1089
10.4	21800	1074
10.2	21400	1059
STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .571" psi	fps
STOP		
5.3	35000	1242
5.2	33900	1226
5.1	32900	1211
5.0	31900	1195
4.9	30900	1180
4.8	29900	1165
4.7	28900	1149
4.6	27800	1134
4.5	26800	1118
4.4	25800	1103
4.3	24800	1088
start here 4.2	23800	1072
4.1	22800	1057
4.0	21800	1042
STOP		

IMR 4227

Charge in grains	RGS™ .363" psi	fps
STOP		
* 14.0	29300	1339
13.8	29000	1325
13.6	28700	1312
13.4	28400	1298
13.2	28100	1285
13.0	27800	1272
12.8	27500	1258
12.6	27300	1245
12.4	27000	1231
12.2	26700	1218
12.0	26400	1205
11.8	26100	1191
11.6	25800	1178
11.4	25500	1164
11.2	25300	1151
start here 11.0	25000	1138
10.8	24700	1124
10.6	24400	1111
STOP		

*Compressed load.

RGS™ See page 5.

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

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IMR 700X

Charge in grains	RGS™ 2.335" psi	fps
STOP		
5.5	35000	1236
5.4	33900	1221
5.3	32900	1206
5.2	31900	1192
5.1	30900	1177
5.0	29800	1163
4.9	28800	1148
4.8	27800	1133
4.7	26800	1119
4.6	25700	1104
4.5	24700	1090
4.4	23700	1075
4.3	22700	1061
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.

Winchester 231

Charge in grains	RGS™ .536" psi	fps
STOP		
5.7	35000	1223
5.6	34000	1207
5.5	33100	1191
5.4	32200	1175
5.3	31300	1159
5.2	30400	1143
5.1	29500	1127
5.0	28600	1111
4.9	27700	1095
4.8	26800	1079
4.7	25900	1063
4.6	25000	1047
4.5	24100	1031
4.4	23200	1015
4.3	22300	999
4.2	21400	983
4.1	20500	967
4.0	19600	952
STOP		

start here

Winchester 296

Charge in grains	RGS™ 3.857" psi	fps
STOP		
* 15.0	28400	1560
14.9	28300	1553
14.6	28000	1535
14.3	27800	1517
14.0	27500	1498
13.7	27300	1480
13.4	27000	1462
13.1	26800	1443
12.8	26500	1425
12.5	26300	1406
12.2	26000	1388
11.9	25800	1370
11.6	25500	1351
11.3	25300	1333
11.0	25000	1315
10.7	24800	1296
10.4	24500	1278
10.1	24300	1260
STOP		

start here

*Compressed load.

RGS™See page 5.

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

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Accurate Arms 5

RGS™ 1.124"

Charge in grains	psi	fps
STOP		
7.3	35000	1308
7.2	34000	1287
7.1	33100	1266
7.0	32100	1245
6.9	31200	1225
6.8	30200	1204
6.7	29300	1183
6.6	28300	1162
6.5	27400	1142
STOP		

start here

Alliant 2400

RGS™ 1.297"

Charge in grains	psi	fps
STOP		
11.8	35000	1484
11.7	34700	1474
11.5	34200	1454
11.3	33600	1434
11.1	33100	1414
10.9	32600	1394
10.7	32000	1374
10.5	31500	1354
10.3	31000	1334
10.1	30400	1314
9.9	29900	1294
9.7	29400	1274
9.5	28900	1254
STOP		

start here

Hodgdon 4227

RGS™ .640"

Charge in grains	psi	fps
STOP		
* 13.5	29700	1299
13.4	29500	1291
13.2	29100	1277
13.0	28700	1263
12.8	28300	1249
12.6	27900	1234
12.4	27500	1220
12.2	27100	1206
12.0	26700	1191
11.8	26300	1177
11.6	26000	1163
11.4	25600	1149
11.2	25200	1134
11.0	24800	1120
10.8	24400	1106
10.6	24000	1091
10.4	23600	1077
10.2	23200	1063
STOP		

start here

*Compressed load.

Hodgdon Titegroup

RGS™ .415"

Charge in grains	psi	fps
STOP		
4.8	35000	1197
4.7	33800	1181
4.6	32700	1165
4.5	31500	1149
4.4	30400	1133
4.3	29300	1117
4.2	28100	1101
4.1	27000	1085
4.0	25900	1069
STOP		

start here

IMR 4227

RGS™ .381"

Charge in grains	psi	fps
STOP		
* 14.0	35000	1337
13.8	34400	1322
13.6	33800	1307
13.4	33200	1293
13.2	32700	1278
13.0	32100	1264
12.8	31500	1249
12.6	30900	1235
12.4	30400	1220
12.2	29800	1206
12.0	29200	1191
11.8	28600	1176
11.6	28100	1162
11.4	27500	1147
11.2	26900	1133
11.0	26300	1118
10.8	25800	1104
10.6	25200	1089
STOP		

start here

*Compressed load.

RGS™ See page 5.

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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.

357 Magnum

Speer 148 gr Lead HBWC

IMR 700X

Charge in grains	RGS™ .346" psi	fps
STOP		
4.8	35000	1171
4.7	33500	1155
4.6	32000	1140
4.5	30500	1124
4.4	29000	1109
start here 4.3	27500	1094
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.

Winchester 231

Charge in grains	RGS™ .346" psi	fps
STOP		
5.2	35000	1173
5.1	33800	1155
5.0	32700	1138
4.9	31600	1121
4.8	30500	1104
4.7	29300	1086
4.6	28200	1069
4.5	27100	1052
4.4	26000	1035
4.3	24800	1017
4.2	23700	1000
4.1	22600	983
start here 4.0	21500	966
STOP		

Winchester 296

Charge in grains	RGS™ .501" psi	fps
STOP		
15.0	35000	1572
14.9	34700	1564
14.6	33900	1541
14.3	33200	1519
14.0	32400	1496
13.7	31600	1473
13.4	30800	1451
13.1	30100	1428
12.8	29300	1405
12.5	28500	1383
12.2	27800	1360
11.9	27000	1337
11.6	26200	1315
11.3	25400	1292
11.0	24700	1269
10.7	23900	1247
10.4	23100	1224
start here 10.1	22400	1202
STOP		

RGS™ See page 5.

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Colt's 'Lawman' series was intended to compete with Smith and Wesson for the lucrative law enforcement market. Introduced in 1969, early models had an exposed ejector rod (as seen above right), reminiscent of the Police Positive, later models have a shrouded ejector rod (as seen above left). This double action revolver was available with a 2" or 4" barrel in either nickel or blue finish.

357Magnum
.357" Diameter
150 grain
Sectional
Density .168

	Nosler IPSC	Nosler JSP
Ballistic Coefficient	.157	.153
Ctg. Over All Length	1.590"	1.565"

Reducing Cartridge Over All Length increases pressure greatly.

BULLET		PAGE
Nosler IPSC	Jacketed	94
Nosler JSP	Jacketed	95

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 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	RGS™ .294" psi	fps
STOP		
12.6	35000	1456
12.5	34600	1445
12.4	34200	1435
12.3	33900	1425
12.2	33500	1415
12.1	33200	1405
12.0	32800	1395
11.9	32500	1385
11.8	32100	1375
11.7	31700	1365
11.6	31400	1355
11.5	31000	1345
11.4	30700	1335
11.3	30300	1325
11.2	30000	1315
11.1	29600	1305
11.0	29300	1295
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .709" psi	fps
STOP		
6.6	35000	1201
6.5	34100	1181
6.4	33200	1162
6.3	32300	1143
6.2	31400	1124
6.1	30500	1105
6.0	29600	1086
5.9	28700	1067
5.8	27800	1048
5.7	26900	1028
5.6	26000	1009
5.5	25100	990
5.4	24200	971
5.3	23300	952
5.2	22400	933
5.1	21500	914
5.0	20600	895
STOP		

start here

Hodgdon Lil' Gun

Charge in grains	RGS™ .328" psi	fps
STOP		
17.7	35000	1707
17.6	34800	1700
17.4	34400	1688
17.2	34000	1675
17.0	33600	1663
16.8	33200	1650
16.6	32800	1638
16.4	32400	1625
16.2	32000	1613
16.0	31600	1600
15.8	31200	1588
15.6	30800	1575
15.4	30400	1563
15.2	30000	1550
15.0	29700	1538
STOP		

start here

Hodgdon Titegroup

Charge in grains	RGS™ .225" psi	fps
STOP		
6.2	35000	1255
6.1	33800	1238
6.0	32700	1221
5.9	31600	1204
5.8	30400	1187
5.7	29300	1170
5.6	28200	1153
5.5	27100	1136
STOP		

start here

IMR 4227

Charge in grains	RGS™ .397" psi	fps
STOP		
15.3	35000	1437
15.2	34700	1428
15.0	34200	1412
14.8	33600	1395
14.6	33100	1378
14.4	32600	1362
14.2	32100	1345
14.0	31500	1328
13.8	31000	1312
13.6	30500	1295
13.4	29900	1278
13.2	29400	1262
13.0	28900	1245
12.8	28400	1228
12.6	27800	1212
12.4	27300	1195
12.2	26800	1178
12.0	26300	1162
STOP		

start here

RGS™ See page 5.

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

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

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

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

Alliant 2400

Charge in grains	RGS™ .277" psi	fps
STOP		
12.4	35000	1448
12.3	34600	1440
12.2	34200	1433
12.1	33800	1425
12.0	33400	1418
11.9	33000	1411
11.8	32600	1403
11.7	32200	1396
11.6	31800	1389
11.5	31400	1381
11.4	31000	1374
11.3	30600	1367
11.2	30200	1359
11.1	29800	1352
11.0	29500	1345
STOP		

start here

Alliant Unique

Charge in grains	RGS™ 1.366" psi	fps
STOP		
6.5	35000	1225
6.4	33900	1206
6.3	32900	1187
6.2	31900	1169
6.1	30900	1150
6.0	29900	1131
5.9	28900	1113
5.8	27900	1094
5.7	26800	1075
5.6	25800	1057
5.5	24800	1038
5.4	23800	1019
5.3	22800	1001
5.2	21800	982
5.1	20800	963
5.0	19800	945
STOP		

start here

Hodgdon Lil' Gun

Charge in grains	RGS™ .363" psi	fps
STOP		
* 17.6	35000	1698
17.4	34200	1680
17.2	33500	1662
17.0	32800	1644
16.8	32100	1626
16.6	31300	1608
16.4	30600	1590
16.2	29900	1572
16.0	29200	1554
15.8	28400	1536
15.6	27700	1518
15.4	27000	1500
15.2	26300	1482
15.0	25600	1464
STOP		

start here

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .484" psi	fps
STOP		
6.2	35000	1286
6.1	33800	1269
6.0	32700	1252
5.9	31600	1236
5.8	30500	1219
5.7	29400	1203
5.6	28300	1186
5.5	27200	1170
STOP		

start here

IMR 4227

Charge in grains	RGS™ .276" psi	fps
STOP		
15.3	35000	1448
15.2	34700	1440
15.0	34200	1424
14.8	33600	1408
14.6	33100	1393
14.4	32600	1377
14.2	32100	1362
14.0	31600	1346
13.8	31000	1330
13.6	30500	1315
13.4	30000	1299
13.2	29500	1283
13.0	29000	1268
12.8	28400	1252
12.6	27900	1236
12.4	27400	1221
12.2	26900	1205
12.0	26400	1190
STOP		

start here

RGS™ See page 5.

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357Magnum
.357" Diameter
158 grain
Sectional
Density .177

	Hornady FP/XTP	Hornady HP/XTP	Nosler JHP	Rainier JFP	Rainier JHP	Rainier JRN
Ballistic Coefficient	.199	.206	.182	N/A	N/A	N/A
Ctg. Over All Length	1.580"	1.570"	1.580"	1.590"	1.590"	1.590"

	Remington JHP	Remington JSP	Sierra JHC	Sierra JSP	Speer GDHP	Speer JHP
Ballistic Coefficient	N/A	N/A	.175	.175	.168	.158
Ctg. Over All Length	1.560"	1.570"	1.570"	1.585"	1.570"	1.560"

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 psi

Reducing Cartridge Over All Length increases pressure greatly.

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

357Magnum
.357" Diameter
158 grain
Sectional
Density .177

	Speer JSP	Speer TMJ	Winchester SJHP	Bull-X RN	Bull-X SWC	Hornady RN
Ballistic Coefficient	.150	.173	N/A	N/A	N/A	.159
Ctg. Over All Length	1.570"	1.575"	1.565"	1.590"	1.590"	1.590"

	Hornady SWC	Hornady SWC/HP	Speer RN	Speer SWC	Speer SWC/HP
Ballistic Coefficient	.135	.139	.170	.123	.121
Ctg. Over All Length	1.580"	1.560"	1.590"	1.590"	1.590"

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 psi

Reducing Cartridge Over All Length increases pressure greatly.

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

Accurate Arms 9

Charge in grains	RGS™ .432" psi	fps
STOP		
11.7	35000	1365
11.5	34000	1344
11.3	33000	1324
11.1	32100	1303
10.9	31100	1283
10.7	30200	1263
10.5	29200	1242
10.3	28300	1222
10.1	27300	1202
9.9	26400	1181
9.7	25400	1161
9.5	24500	1141
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .467" psi	fps
STOP		
11.5	35000	1348
11.4	34500	1337
11.3	34100	1327
11.2	33600	1316
11.1	33200	1306
11.0	32700	1295
10.9	32300	1285
10.8	31800	1274
10.7	31400	1264
10.6	30900	1253
10.5	30500	1243
10.4	30000	1232
10.3	29600	1222
10.2	29100	1211
10.1	28700	1201
10.0	28200	1190
9.9	27800	1180
9.8	27300	1169
9.7	26900	1159
STOP		

start here

Alliant Power Pistol

Charge in grains	RGS™ .381" psi	fps
STOP		
8.2	35000	1364
8.0	33700	1332
7.8	32400	1300
7.6	31100	1268
7.4	29900	1236
7.2	28600	1204
7.0	27300	1172
6.8	26000	1140
6.6	24800	1108
6.4	23500	1076
6.2	22200	1044
6.0	21000	1013
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .225" psi	fps
STOP		
16.4	35000	1584
16.2	34400	1568
16.0	33800	1552
15.8	33200	1537
15.6	32600	1521
15.4	32000	1505
15.2	31400	1490
15.0	30800	1474
14.8	30200	1458
14.6	29600	1443
14.4	29000	1427
14.2	28400	1411
14.0	27800	1396
STOP		

start here

Hodgdon HS-7

Charge in grains	RGS™ .398" psi	fps
STOP		
9.2	35000	1297
9.1	34200	1282
9.0	33500	1267
8.9	32800	1252
8.8	32000	1238
8.7	31300	1223
8.6	30600	1208
8.5	29800	1194
8.4	29100	1179
8.3	28400	1164
8.2	27700	1150
STOP		

start here

RGS™ See page 5.

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

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

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

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

Hodgdon Lil' Gun

Charge in grains	RGS™ .346" psi	fps
STOP		
* 17.3	30400	1579
17.2	30300	1574
16.9	30000	1560
16.6	29700	1546
16.3	29400	1532
16.0	29200	1518
15.7	28900	1504
15.4	28600	1490
15.1	28400	1476
14.8	28100	1462
14.5	27800	1448
14.2	27500	1434
13.9	27300	1420
13.6	27000	1406
13.3	26700	1392
13.0	26500	1378
STOP		

start here

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .311" psi	fps
STOP		
6.1	35000	1210
6.0	33900	1192
5.9	32900	1174
5.8	31900	1156
5.7	30900	1139
5.6	29900	1121
5.5	28900	1103
5.4	27900	1086
STOP		

start here

IMR 4227

Charge in grains	RGS™ .640" psi	fps
STOP		
15.0	35000	1369
14.8	34500	1354
14.6	34100	1340
14.4	33700	1325
14.2	33200	1311
14.0	32800	1296
13.8	32400	1282
13.6	32000	1267
13.4	31500	1253
13.2	31100	1238
13.0	30700	1224
12.8	30300	1209
12.6	29800	1195
12.4	29400	1180
12.2	29000	1166
12.0	28600	1152
STOP		

start here

IMR 700X

Charge in grains	RGS™ .346" psi	fps
STOP		
5.9	35000	1194
5.8	34200	1174
5.7	33500	1154
5.6	32700	1135
5.5	32000	1115
5.4	31200	1095
5.3	30500	1076
5.2	29700	1056
5.1	29000	1036
5.0	28200	1017
4.9	27500	997
4.8	26700	978
4.7	26000	958
4.6	25200	938
4.5	24500	919
4.4	23700	899
4.3	23000	879
4.2	22200	860
4.1	21500	840
STOP		

start here

Winchester 296

Charge in grains	RGS™ .225" psi	fps
STOP		
16.6	35000	1615
16.4	34700	1603
16.2	34500	1591
16.0	34300	1580
15.8	34000	1568
15.6	33800	1556
15.4	33600	1545
15.2	33300	1533
15.0	33100	1521
14.8	32900	1510
14.6	32600	1498
14.4	32400	1486
14.2	32200	1475
14.0	31900	1463
13.8	31700	1451
13.6	31500	1440
13.4	31200	1428
13.2	31000	1416
13.0	30800	1405
STOP		

start here

RGS™ See page 5.

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

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

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

Accurate Arms 9

RGS™ .432"

Charge in grains	psi	fps
STOP		
11.3	35000	1335
11.2	34400	1324
11.1	33900	1313
11.0	33400	1303
10.9	32900	1292
10.8	32300	1281
10.7	31800	1271
10.6	31300	1260
10.5	30800	1250
10.4	30300	1239
10.3	29700	1228
10.2	29200	1218
10.1	28700	1207
10.0	28200	1197
9.9	27600	1186
9.8	27100	1175
9.7	26600	1165
9.6	26100	1154
9.5	25600	1144
STOP		

start here

Alliant 2400

RGS™ .346"

Charge in grains	psi	fps
STOP		
11.1	35000	1320
11.0	34500	1310
10.9	34000	1300
10.8	33600	1290
10.7	33100	1281
10.6	32700	1271
10.5	32200	1261
10.4	31800	1251
10.3	31300	1242
10.2	30800	1232
10.1	30400	1222
10.0	29900	1212
9.9	29500	1203
9.8	29000	1193
9.7	28600	1183
9.6	28100	1173
9.5	27700	1164
STOP		

start here

Alliant Power Pistol

RGS™ .311"

Charge in grains	psi	fps
STOP		
8.0	35000	1343
7.9	34300	1327
7.8	33700	1311
7.7	33000	1295
7.6	32400	1279
7.5	31700	1263
7.4	31100	1247
7.3	30400	1232
7.2	29800	1216
7.1	29100	1200
7.0	28500	1184
6.9	27800	1168
6.8	27200	1152
6.7	26500	1136
6.6	25900	1121
6.5	25200	1105
6.4	24600	1089
6.3	23900	1073
6.2	23300	1057
STOP		

start here

Hodgdon 110

RGS™ .260"

Charge in grains	psi	fps
STOP		
16.2	35000	1573
16.0	34300	1556
15.8	33600	1540
15.6	33000	1524
15.4	32300	1508
15.2	31700	1492
15.0	31000	1476
14.8	30400	1460
14.6	29700	1444
14.4	29100	1428
14.2	28400	1412
14.0	27800	1396
STOP		

start here

Hodgdon HS-7

RGS™ .242"

Charge in grains	psi	fps
STOP		
9.1	35000	1290
9.0	34200	1276
8.9	33500	1262
8.8	32800	1249
8.7	32100	1235
8.6	31400	1221
8.5	30700	1208
8.4	30000	1194
8.3	29300	1180
8.2	28600	1167
STOP		

start here

RGS™See page 5.

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

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Hodgdon Lil' Gun

Charge in grains	RGS™ .415" psi	fps
STOP		
* 17.2	35000	1610
16.9	34400	1594
16.6	33900	1578
16.3	33400	1562
16.0	32900	1547
15.7	32400	1531
15.4	31900	1515
15.1	31400	1500
14.8	30800	1484
14.5	30300	1468
14.2	29800	1452
13.9	29300	1437
start here 13.6	28800	1421
13.3	28300	1405
13.0	27800	1390
STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .346" psi	fps
STOP		
5.9	35000	1179
5.8	33900	1160
5.7	32800	1141
5.6	31700	1123
start here 5.5	30600	1104
5.4	29600	1086
STOP		

IMR 4227

Charge in grains	RGS™ .640" psi	fps
STOP		
15.0	35000	1367
14.8	34500	1350
14.6	34100	1334
14.4	33600	1318
14.2	33200	1302
14.0	32700	1286
13.8	32300	1270
13.6	31800	1254
13.4	31400	1237
13.2	30900	1221
13.0	30500	1205
12.8	30000	1189
12.6	29600	1173
12.4	29100	1157
start here 12.2	28700	1141
12.0	28300	1125
STOP		

IMR 700X

Charge in grains	RGS™ .294" psi	fps
STOP		
5.9	35000	1187
5.8	34300	1168
5.7	33600	1149
5.6	32900	1130
5.5	32200	1111
5.4	31500	1092
5.3	30800	1073
5.2	30100	1055
5.1	29400	1036
5.0	28700	1017
4.9	28000	998
4.8	27300	979
4.7	26600	960
4.6	25900	942
4.5	25200	923
4.4	24500	904
start here 4.3	23800	885
4.2	23100	866
4.1	22400	847
STOP		

Winchester 296

Charge in grains	RGS™ .328" psi	fps
STOP		
16.3	35000	1590
16.2	34800	1583
16.0	34400	1569
15.8	34100	1556
15.6	33700	1543
15.4	33400	1529
15.2	33100	1516
15.0	32700	1502
14.8	32400	1489
14.6	32000	1476
14.4	31700	1462
14.2	31300	1449
14.0	31000	1435
13.8	30600	1422
13.6	30300	1409
start here 13.4	29900	1395
13.2	29600	1382
13.0	29300	1369
STOP		

RGS™ See page 5.

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Accurate Arms 9

RGS™ .415"

Charge in grains	psi	fps
STOP		
11.5	35000	1374
11.4	34400	1363
11.3	33900	1352
11.2	33400	1342
11.1	32900	1331
11.0	32400	1321
10.9	31900	1310
10.8	31400	1300
10.7	30900	1289
10.6	30400	1279
10.5	29900	1268
10.4	29300	1257
10.3	28800	1247
10.2	28300	1236
10.1	27800	1226
10.0	27300	1215
9.9	26800	1205
9.8	26300	1194
9.7	25800	1184
STOP		

start here

Alliant 2400

RGS™ .640"

Charge in grains	psi	fps
STOP		
11.2	35000	1352
11.1	34500	1340
11.0	34000	1329
10.9	33500	1318
10.8	33000	1307
10.7	32500	1296
10.6	32000	1285
10.5	31500	1274
10.4	31000	1263
10.3	30500	1252
10.2	30000	1241
10.1	29500	1230
10.0	29000	1219
9.9	28500	1208
9.8	28000	1197
9.7	27500	1186
9.6	27000	1175
9.5	26600	1164
STOP		

start here

Alliant Power Pistol

RGS™ .398"

Charge in grains	psi	fps
STOP		
8.1	35000	1379
8.0	34300	1363
7.8	33100	1331
7.6	31800	1299
7.4	30600	1268
7.2	29300	1236
7.0	28000	1205
6.8	26800	1173
6.6	25500	1141
6.4	24300	1110
6.2	23000	1078
6.0	21800	1047
STOP		

start here

Hodgdon 110

RGS™ .346"

Charge in grains	psi	fps
STOP		
16.0	35000	1587
15.9	34600	1579
15.8	34300	1571
15.7	33900	1563
15.6	33600	1556
15.5	33300	1548
15.4	32900	1540
15.3	32600	1532
15.2	32300	1525
15.1	31900	1517
15.0	31600	1509
14.9	31300	1501
14.8	30900	1494
14.7	30600	1486
14.6	30300	1478
14.5	29900	1470
14.4	29600	1463
14.3	29300	1455
14.2	28900	1447
STOP		

start here

Hodgdon HS-7

RGS™ .467"

Charge in grains	psi	fps
STOP		
9.0	35000	1307
8.9	34200	1292
8.8	33400	1278
8.7	32700	1264
8.6	31900	1250
8.5	31100	1236
8.4	30400	1222
8.3	29600	1208
8.2	28900	1194
STOP		

start here

RGS™ See page 5.

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Hodgdon Lil' Gun

Charge in grains	RGS™ .065" psi	fps
STOP		
* 17.2	35000	1665
16.9	34400	1643
16.6	33800	1621
16.3	33200	1599
16.0	32600	1578
15.7	32000	1556
15.4	31400	1534
15.1	30800	1513
14.8	30200	1491
14.5	29600	1469
14.2	29000	1447
13.9	28400	1426
13.6	27800	1404
start here 13.3	27200	1382
13.0	26600	1361
STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .726" psi	fps
STOP		
5.8	35000	1201
5.7	32700	1182
5.6	30500	1164
5.5	28300	1145
start here 5.4	26100	1127
STOP		

IMR 4227

Charge in grains	RGS™ .657" psi	fps
STOP		
14.9	35000	1380
14.8	34700	1372
14.6	34200	1356
14.4	33700	1341
14.2	33200	1325
14.0	32700	1310
13.8	32200	1295
13.6	31700	1279
13.4	31200	1264
13.2	30700	1248
13.0	30200	1233
12.8	29700	1217
12.6	29200	1202
12.4	28700	1186
start here 12.2	28200	1171
12.0	27700	1156
STOP		

IMR 700X

Charge in grains	RGS™ .397" psi	fps
STOP		
5.7	35000	1191
5.6	34200	1172
5.5	33400	1154
5.4	32600	1135
5.3	31800	1117
5.2	31000	1099
5.1	30200	1080
5.0	29400	1062
4.9	28600	1044
4.8	27800	1025
4.7	27000	1007
4.6	26200	989
4.5	25400	970
4.4	24600	952
4.3	23800	934
start here 4.2	23000	915
4.1	22200	897
4.0	21500	879
STOP		

Winchester 296

Charge in grains	RGS™ .260" psi	fps
STOP		
16.1	35000	1611
16.0	34800	1604
15.8	34500	1591
15.6	34200	1578
15.4	34000	1565
15.2	33700	1552
15.0	33400	1540
14.8	33100	1527
14.6	32800	1514
14.4	32500	1501
14.2	32300	1488
14.0	32000	1475
13.8	31700	1462
13.6	31400	1449
13.4	31100	1436
start here 13.2	30800	1423
13.0	30600	1411
STOP		

RGS™ See page 5.

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Accurate Arms 9

RGS™ .398"

Charge in grains	psi	fps
STOP		
11.7	35000	1395
11.5	33900	1372
11.3	32800	1349
11.1	31700	1326
10.9	30600	1303
10.7	29500	1280
10.5	28400	1257
10.3	27300	1234
10.1	26200	1211
9.9	25100	1188
9.7	24000	1165
9.5	22900	1142
STOP		

start here

Alliant 2400

RGS™ .743"

Charge in grains	psi	fps
STOP		
11.5	35000	1351
11.4	34500	1340
11.3	34000	1330
11.2	33500	1319
11.1	33000	1309
11.0	32500	1298
10.9	32000	1288
10.8	31500	1277
10.7	31000	1267
10.6	30500	1256
10.5	30100	1246
10.4	29600	1236
10.3	29100	1225
10.2	28600	1215
10.1	28100	1204
10.0	27600	1194
9.9	27100	1183
9.8	26600	1173
9.7	26100	1162
STOP		

start here

Alliant Power Pistol

RGS™ .449"

Charge in grains	psi	fps
STOP		
8.3	35000	1387
8.2	34300	1371
8.0	32900	1339
7.8	31600	1307
7.6	30200	1275
7.4	28900	1244
7.2	27500	1212
7.0	26200	1180
6.8	24800	1148
6.6	23500	1117
6.4	22100	1085
6.2	20800	1053
6.0	19500	1022
STOP		

start here

Hodgdon 110

RGS™ .432"

Charge in grains	psi	fps
STOP		
* 16.6	35000	1569
16.4	34400	1556
16.2	33900	1543
16.0	33400	1530
15.8	32800	1517
15.6	32300	1505
15.4	31800	1492
15.2	31200	1479
15.0	30700	1466
14.8	30200	1454
14.6	29600	1441
14.4	29100	1428
14.2	28600	1415
14.0	28100	1403
STOP		

start here

*Compressed load.

Hodgdon HS-7

RGS™ .726"

Charge in grains	psi	fps
STOP		
9.4	35000	1339
9.3	34200	1324
9.2	33500	1310
9.1	32800	1296
9.0	32100	1281
8.9	31300	1267
8.8	30600	1253
8.7	29900	1238
8.6	29200	1224
8.5	28400	1210
8.4	27700	1195
8.3	27000	1181
8.2	26300	1167
STOP		

start here

RGS™See page 5.

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Hodgdon Lil' Gun

Charge in grains	RGS™ .415" psi	fps
STOP		
* 17.4	30100	1596
17.2	29800	1585
16.9	29500	1568
16.6	29100	1552
16.3	28800	1536
16.0	28500	1519
15.7	28100	1503
15.4	27800	1486
15.1	27400	1470
14.8	27100	1454
14.5	26800	1437
14.2	26400	1421
13.9	26100	1405
13.6	25700	1388
start here 13.3	25400	1372
13.0	25100	1356
STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .487" psi	fps
STOP		
6.2	35000	1248
6.1	33900	1230
6.0	32800	1212
5.9	31700	1194
5.8	30700	1176
5.7	29600	1158
start here 5.6	28500	1140
5.5	27400	1122
5.4	26400	1105
STOP		

IMR 4227

Charge in grains	RGS™ .450" psi	fps
STOP		
15.3	35000	1393
15.2	34700	1385
15.0	34300	1370
14.8	33800	1356
14.6	33300	1341
14.4	32900	1326
14.2	32400	1312
14.0	31900	1297
13.8	31500	1282
13.6	31000	1267
13.4	30500	1253
13.2	30100	1238
13.0	29600	1223
12.8	29100	1208
12.6	28700	1194
12.4	28200	1179
start here 12.2	27700	1164
12.0	27300	1150
STOP		

IMR 700X

Charge in grains	RGS™ .658" psi	fps
STOP		
6.0	35000	1216
5.9	34200	1200
5.8	33500	1184
5.7	32800	1168
5.6	32000	1152
5.5	31300	1136
5.4	30600	1120
5.3	29800	1104
5.2	29100	1088
5.1	28400	1072
5.0	27700	1057
4.9	26900	1041
4.8	26200	1025
4.7	25500	1009
4.6	24700	993
4.5	24000	977
4.4	23300	961
4.3	22500	945
start here 4.2	21800	929
STOP		

Winchester 296

Charge in grains	RGS™ .415" psi	fps
STOP		
* 16.7	35000	1617
16.6	34900	1611
16.4	34700	1601
16.2	34500	1591
16.0	34400	1581
15.8	34200	1571
15.6	34000	1561
15.4	33900	1551
15.2	33700	1541
15.0	33500	1531
14.8	33400	1521
14.6	33200	1511
14.4	33000	1501
14.2	32900	1491
14.0	32700	1481
13.8	32500	1471
start here 13.6	32400	1461
13.4	32200	1451
STOP		

*Compressed load.

RGS™ See page 5.

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Accurate Arms 9

RGS™ 1.245"

Charge in grains	psi	fps
STOP		
11.6	35000	1371
11.5	34400	1360
11.3	33400	1338
11.1	32400	1316
10.9	31400	1294
10.7	30300	1272
10.5	29300	1250
10.3	28300	1228
10.1	27200	1206
9.9	26200	1184
9.7	25200	1162
9.5	24200	1141
STOP		

start here

Alliant 2400

RGS™ .519"

Charge in grains	psi	fps
STOP		
11.1	35000	1315
11.0	34400	1305
10.9	33900	1295
10.8	33400	1285
10.7	32900	1275
10.6	32400	1265
10.5	31900	1255
10.4	31400	1245
10.3	30900	1236
10.2	30300	1226
10.1	29800	1216
10.0	29300	1206
9.9	28800	1196
9.8	28300	1186
9.7	27800	1176
9.6	27300	1166
9.5	26800	1157
STOP		

start here

Alliant Power Pistol

RGS™ .605"

Charge in grains	psi	fps
STOP		
8.3	35000	1390
8.2	34300	1374
8.0	33100	1344
7.8	31800	1314
7.6	30600	1284
7.4	29300	1254
7.2	28100	1224
7.0	26800	1193
6.8	25600	1163
6.6	24300	1133
6.4	23100	1103
6.2	21800	1073
6.0	20600	1043
STOP		

start here

Hodgdon 110

RGS™ .432"

Charge in grains	psi	fps
STOP		
* 16.1	30700	1535
16.0	30600	1529
15.8	30400	1517
15.6	30300	1505
15.4	30100	1493
15.2	30000	1481
15.0	29800	1469
14.8	29700	1457
14.6	29500	1445
14.4	29400	1433
14.2	29200	1421
14.0	29100	1410
STOP		

start here

*Compressed load.

Hodgdon HS-7

RGS™ .190"

Charge in grains	psi	fps
STOP		
9.3	35000	1320
9.2	34200	1305
9.1	33500	1290
9.0	32800	1275
8.9	32100	1261
8.8	31400	1246
8.7	30700	1231
8.6	30000	1216
8.5	29300	1202
8.4	28600	1187
8.3	27900	1172
8.2	27200	1158
STOP		

start here

RGS™ See page 5.

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Hodgdon Lil' Gun

Charge in grains	RGS™ .761" psi	fps
STOP		
* 17.2	30700	1600
16.9	30300	1583
16.6	30000	1566
16.3	29700	1549
16.0	29400	1532
15.7	29100	1515
15.4	28800	1498
15.1	28500	1482
14.8	28100	1465
14.5	27800	1448
14.2	27500	1431
13.9	27200	1414
13.6	26900	1397
start here 13.3	26600	1380
13.0	26300	1364
STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .346" psi	fps
STOP		
6.1	35000	1237
6.0	33900	1216
5.9	32800	1195
5.8	31700	1174
5.7	30600	1153
5.6	29500	1132
start here 5.5	28400	1111
5.4	27400	1090
STOP		

IMR 4227

Charge in grains	RGS™ .847" psi	fps
STOP		
15.2	35000	1387
15.0	34500	1370
14.8	34000	1354
14.6	33500	1338
14.4	33000	1322
14.2	32500	1305
14.0	32000	1289
13.8	31500	1273
13.6	31100	1257
13.4	30600	1240
13.2	30100	1224
13.0	29600	1208
12.8	29100	1192
12.6	28600	1175
start here 12.4	28100	1159
12.2	27600	1143
12.0	27200	1127
STOP		

IMR 700X

Charge in grains	RGS™ .398" psi	fps
STOP		
5.9	35000	1205
5.8	34200	1187
5.7	33400	1169
5.6	32600	1152
5.5	31800	1134
5.4	31100	1117
5.3	30300	1099
5.2	29500	1081
5.1	28700	1064
5.0	27900	1046
4.9	27200	1029
4.8	26400	1011
4.7	25600	994
4.6	24800	976
4.5	24000	958
4.4	23300	941
start here 4.3	22500	923
4.2	21700	906
4.1	20900	888
STOP		

Winchester 296

Charge in grains	RGS™ .588" psi	fps
STOP		
16.7	35000	1619
16.6	34900	1614
16.4	34800	1604
16.2	34700	1595
16.0	34600	1585
15.8	34500	1576
15.6	34400	1566
15.4	34300	1557
15.2	34200	1548
15.0	34100	1538
14.8	34000	1529
14.6	33900	1519
14.4	33800	1510
14.2	33700	1500
14.0	33600	1491
13.8	33500	1481
13.6	33400	1472
start here 13.4	33300	1462
13.2	33200	1453
STOP		

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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

RGS™ .380"

Charge in grains	psi	fps
STOP		
11.6	35000	1394
11.5	34400	1382
11.3	33300	1360
11.1	32200	1337
10.9	31100	1314
10.7	30000	1292
10.5	28900	1269
10.3	27800	1246
10.1	26700	1224
9.9	25600	1201
9.7	24500	1178
9.5	23400	1156
STOP		

start here

Alliant 2400

RGS™ .968"

Charge in grains	psi	fps
STOP		
11.2	35000	1349
11.1	34400	1337
11.0	33800	1326
10.9	33300	1315
10.8	32700	1304
10.7	32200	1293
10.6	31600	1282
10.5	31000	1271
10.4	30500	1260
10.3	29900	1249
10.2	29400	1238
10.1	28800	1227
10.0	28200	1216
9.9	27700	1205
9.8	27100	1194
9.7	26600	1183
9.6	26000	1172
9.5	25500	1161
STOP		

start here

Alliant Power Pistol

RGS™ .605"

Charge in grains	psi	fps
STOP		
8.3	35000	1397
8.2	34300	1382
8.0	33000	1352
7.8	31800	1323
7.6	30500	1293
7.4	29200	1264
7.2	28000	1234
7.0	26700	1205
6.8	25400	1175
6.6	24200	1146
6.4	22900	1116
6.2	21600	1087
6.0	20400	1058
STOP		

start here

Hodgdon 110

RGS™ .726"

Charge in grains	psi	fps
STOP		
16.2	35000	1580
16.0	34200	1564
15.8	33500	1549
15.6	32800	1533
15.4	32000	1518
15.2	31300	1503
15.0	30600	1487
14.8	29900	1472
14.6	29100	1457
14.4	28400	1441
14.2	27700	1426
14.0	27000	1411
STOP		

start here

Hodgdon HS-7

RGS™ .553"

Charge in grains	psi	fps
STOP		
9.1	35000	1319
9.0	34100	1304
8.9	33300	1290
8.8	32500	1276
8.7	31600	1262
8.6	30800	1247
8.5	30000	1233
8.4	29100	1219
8.3	28300	1205
8.2	27500	1191
STOP		

start here

RGS™See page 5.

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

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

Hodgdon Lil' Gun

Charge in grains	RGS™ .899" psi	fps
STOP		
* 17.4	35000	1640
17.2	34500	1627
16.9	33900	1609
16.6	33300	1591
16.3	32700	1573
16.0	32100	1555
15.7	31500	1536
15.4	30900	1518
15.1	30200	1500
14.8	29600	1482
14.5	29000	1464
14.2	28400	1445
13.9	27800	1427
13.6	27200	1409
start here 13.3	26600	1391
13.0	26000	1373
STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .346" psi	fps
STOP		
6.1	35000	1234
6.0	33700	1214
5.9	32400	1194
5.8	31100	1175
5.7	29800	1155
5.6	28500	1136
start here 5.5	27200	1116
5.4	26000	1097
STOP		

IMR 4227

Charge in grains	RGS™ .709" psi	fps
STOP		
15.2	35000	1399
15.0	34600	1385
14.8	34200	1371
14.6	33800	1357
14.4	33400	1343
14.2	33000	1329
14.0	32600	1315
13.8	32200	1301
13.6	31800	1287
13.4	31400	1273
13.2	31000	1259
13.0	30600	1245
12.8	30200	1231
12.6	29800	1217
12.4	29400	1203
start here 12.2	29000	1189
12.0	28700	1175
STOP		

IMR 700X

Charge in grains	RGS™ .695" psi	fps
STOP		
5.9	35000	1213
5.8	34200	1196
5.7	33400	1179
5.6	32700	1163
5.5	31900	1146
5.4	31200	1130
5.3	30400	1113
5.2	29600	1096
5.1	28900	1080
5.0	28100	1063
4.9	27400	1047
4.8	26600	1030
4.7	25900	1014
4.6	25100	997
4.5	24300	980
4.4	23600	964
4.3	22800	947
start here 4.2	22100	931
4.1	21300	914
STOP		

Winchester 296

Charge in grains	RGS™ .778" psi	fps
STOP		
16.3	35000	1615
16.2	34800	1609
16.0	34600	1598
15.8	34300	1586
15.6	34100	1575
15.4	33800	1564
15.2	33600	1552
15.0	33300	1541
14.8	33100	1530
14.6	32800	1518
14.4	32600	1507
14.2	32300	1496
14.0	32100	1484
13.8	31800	1473
13.6	31600	1462
13.4	31300	1450
start here 13.2	31100	1439
13.0	30900	1428
STOP		

RGS™ See page 5.

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

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Accurate Arms 9

RGS™ .397"

Charge in grains	psi	fps
STOP		
11.5	35000	1350
11.4	34500	1339
11.3	34000	1329
11.2	33500	1319
11.1	33000	1309
11.0	32500	1298
10.9	32000	1288
10.8	31500	1278
10.7	31000	1268
10.6	30500	1257
10.5	30100	1247
10.4	29600	1237
10.3	29100	1227
10.2	28600	1216
10.1	28100	1206
10.0	27600	1196
9.9	27100	1186
9.8	26600	1175
9.7	26100	1165
STOP		

start here

Alliant 2400

RGS™ .536"

Charge in grains	psi	fps
STOP		
11.9	35000	1355
11.7	34300	1338
11.5	33700	1321
11.3	33100	1304
11.1	32500	1288
10.9	31900	1271
10.7	31300	1254
10.5	30600	1237
10.3	30000	1221
10.1	29400	1204
9.9	28800	1187
9.7	28200	1170
9.5	27600	1154
STOP		

start here

Alliant Power Pistol

RGS™ .588"

Charge in grains	psi	fps
STOP		
8.1	35000	1369
8.0	34300	1353
7.8	33000	1322
7.6	31800	1291
7.4	30500	1260
7.2	29200	1229
7.0	27900	1198
6.8	26700	1167
6.6	25400	1136
6.4	24100	1105
6.2	22800	1074
6.0	21600	1043
STOP		

start here

Hodgdon 110

RGS™ .398"

Charge in grains	psi	fps
STOP		
16.6	35000	1604
16.4	34200	1585
16.2	33400	1566
16.0	32600	1547
15.8	31800	1528
15.6	31000	1509
15.4	30200	1490
15.2	29400	1471
15.0	28600	1452
14.8	27800	1433
14.6	27000	1414
14.4	26200	1395
14.2	25400	1376
14.0	24700	1357
STOP		

start here

Hodgdon HS-7

RGS™ .484"

Charge in grains	psi	fps
STOP		
9.0	35000	1290
8.9	34200	1275
8.8	33500	1261
8.7	32800	1247
8.6	32100	1233
8.5	31400	1219
8.4	30700	1205
8.3	30000	1191
8.2	29300	1177
STOP		

start here

RGS™ See page 5.

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

Hodgdon Lil' Gun

Charge in grains	RGS™ .398" psi	fps
STOP		
* 17.3	29200	1558
17.2	29000	1552
16.9	28700	1535
16.6	28300	1518
16.3	27900	1501
16.0	27600	1484
15.7	27200	1467
15.4	26900	1450
15.1	26500	1433
14.8	26100	1416
14.5	25800	1399
14.2	25400	1382
13.9	25000	1365
13.6	24700	1348
start here 13.3	24300	1331
13.0	24000	1315
STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .692" psi	fps
STOP		
5.8	35000	1187
5.7	33700	1169
5.6	32400	1151
5.5	31100	1133
start here 5.4	29900	1115
STOP		

IMR 4227

Charge in grains	RGS™ .553" psi	fps
STOP		
14.9	35000	1349
14.8	34700	1341
14.6	34200	1326
14.4	33700	1310
14.2	33100	1295
14.0	32600	1280
13.8	32100	1264
13.6	31600	1249
13.4	31100	1234
13.2	30600	1218
13.0	30000	1203
12.8	29500	1188
12.6	29000	1172
12.4	28500	1157
start here 12.2	28000	1142
12.0	27500	1127
STOP		

IMR 700X

Charge in grains	RGS™ .692" psi	fps
STOP		
5.7	35000	1177
5.6	34100	1157
5.5	33300	1138
5.4	32400	1119
5.3	31600	1100
5.2	30800	1081
5.1	29900	1062
5.0	29100	1043
4.9	28300	1024
4.8	27400	1005
4.7	26600	986
4.6	25800	967
4.5	24900	948
4.4	24100	929
4.3	23300	910
start here 4.2	22400	891
4.1	21600	872
4.0	20800	853
STOP		

Winchester 296

Charge in grains	RGS™ .380" psi	fps
STOP		
16.2	35000	1596
16.0	34400	1580
15.8	33900	1565
15.6	33300	1550
15.4	32800	1535
15.2	32300	1520
15.0	31700	1505
14.8	31200	1490
14.6	30700	1475
14.4	30100	1459
14.2	29600	1444
14.0	29000	1429
13.8	28500	1414
13.6	28000	1399
13.4	27400	1384
start here 13.2	26900	1369
13.0	26400	1354
STOP		

RGS™ See page 5.

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Accurate Arms 9

RGS™ .726"

Charge in grains	psi	fps
STOP		
11.6	35000	1365
11.5	34500	1354
11.3	33500	1333
11.1	32500	1311
10.9	31500	1290
10.7	30500	1269
10.5	29500	1248
10.3	28500	1226
10.1	27500	1205
9.9	26500	1184
9.7	25500	1163
9.5	24500	1142
STOP		

start here

Alliant 2400

RGS™ .467"

Charge in grains	psi	fps
STOP		
11.8	35000	1363
11.7	34600	1353
11.5	33900	1335
11.3	33100	1316
11.1	32400	1298
10.9	31700	1279
10.7	31000	1261
10.5	30300	1242
10.3	29500	1224
10.1	28800	1205
9.9	28100	1187
9.7	27400	1168
9.5	26700	1150
STOP		

start here

Alliant Power Pistol

RGS™ .657"

Charge in grains	psi	fps
STOP		
8.2	35000	1365
8.0	33700	1335
7.8	32400	1305
7.6	31100	1275
7.4	29800	1245
7.2	28500	1215
7.0	27300	1185
6.8	26000	1155
6.6	24700	1125
6.4	23400	1095
6.2	22100	1065
6.0	20900	1035
STOP		

start here

Hodgdon 110

RGS™ .380"

	Charge in grains	psi	fps
	STOP		
*	16.9	35000	1620
	16.8	34600	1611
	16.6	33900	1594
	16.4	33300	1577
	16.2	32600	1560
	16.0	31900	1543
	15.8	31200	1527
	15.6	30600	1510
	15.4	29900	1493
	15.2	29200	1476
	15.0	28500	1459
	14.8	27900	1442
	14.6	27200	1425
	14.4	26500	1408
	14.2	25800	1391
	14.0	25200	1375
	STOP		

start here

*Compressed load.

Hodgdon HS-7

RGS™ .380"

Charge in grains	psi	fps
STOP		
9.1	35000	1292
9.0	34100	1275
8.9	33200	1259
8.8	32300	1243
8.7	31400	1227
8.6	30500	1211
8.5	29600	1195
8.4	28700	1179
8.3	27800	1163
8.2	27000	1147
STOP		

start here

RGS™See page 5.

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

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

Hodgdon Lil' Gun

Charge in grains	RGS™ .467" psi	fps
STOP		
* 17.4	30200	1593
17.2	29900	1581
16.9	29500	1564
16.6	29200	1546
16.3	28800	1529
16.0	28400	1511
15.7	28000	1494
15.4	27700	1477
15.1	27300	1459
14.8	26900	1442
14.5	26500	1424
14.2	26200	1407
13.9	25800	1390
13.6	25400	1372
13.3	25000	1355
13.0	24700	1338
STOP		

start here

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .380" psi	fps
STOP		
6.0	35000	1201
5.9	33800	1183
5.8	32700	1166
5.7	31500	1149
5.6	30400	1131
5.5	29200	1114
5.4	28100	1097
STOP		

start here

IMR 4227

Charge in grains	RGS™ .519" psi	fps
STOP		
* 15.2	35000	1371
15.0	34500	1357
14.8	34000	1343
14.6	33500	1329
14.4	33100	1315
14.2	32600	1301
14.0	32100	1288
13.8	31600	1274
13.6	31200	1260
13.4	30700	1246
13.2	30200	1232
13.0	29700	1219
12.8	29300	1205
12.6	28800	1191
12.4	28300	1177
12.2	27800	1163
12.0	27400	1150
STOP		

start here

*Compressed load.

IMR 700X

Charge in grains	RGS™ .381" psi	fps
STOP		
5.8	35000	1177
5.7	34200	1159
5.6	33400	1141
5.5	32600	1123
5.4	31800	1105
5.3	31000	1087
5.2	30200	1069
5.1	29400	1051
5.0	28600	1033
4.9	27800	1015
4.8	27000	997
4.7	26200	979
4.6	25400	961
4.5	24600	943
4.4	23800	925
4.3	23000	907
4.2	22200	889
4.1	21400	871
4.0	20700	854
STOP		

start here

Winchester 296

Charge in grains	RGS™ .381" psi	fps
STOP		
16.5	35000	1618
16.4	34800	1611
16.2	34400	1598
16.0	34100	1584
15.8	33700	1571
15.6	33400	1558
15.4	33000	1544
15.2	32600	1531
15.0	32300	1518
14.8	31900	1504
14.6	31600	1491
14.4	31200	1478
14.2	30900	1464
14.0	30500	1451
13.8	30200	1438
13.6	29800	1424
13.4	29500	1411
13.2	29100	1398
13.0	28800	1385
STOP		

start here

RGS™ See page 5.

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Accurate Arms 9

RGS™ .328"

Charge in grains	psi	fps
STOP		
11.4	35000	1361
11.3	34400	1350
11.2	33900	1339
11.1	33300	1328
11.0	32800	1317
10.9	32300	1306
10.8	31700	1295
10.7	31200	1285
10.6	30700	1274
10.5	30100	1263
10.4	29600	1252
10.3	29000	1241
10.2	28500	1230
10.1	28000	1220
10.0	27400	1209
9.9	26900	1198
9.8	26400	1187
9.7	25800	1176
9.6	25300	1165
STOP		

start here

Alliant 2400

RGS™ .571"

Charge in grains	psi	fps
STOP		
11.6	35000	1353
11.5	34500	1343
11.3	33700	1324
11.1	32900	1304
10.9	32100	1285
10.7	31300	1266
10.5	30500	1247
10.3	29700	1227
10.1	28900	1208
9.9	28100	1189
9.7	27300	1170
9.5	26500	1151
STOP		

start here

Alliant Power Pistol

RGS™ .525"

Charge in grains	psi	fps
STOP		
8.2	35000	1386
8.0	33700	1355
7.8	32500	1324
7.6	31300	1294
7.4	30100	1263
7.2	28900	1232
7.0	27700	1202
6.8	26500	1171
6.6	25300	1140
6.4	24100	1110
6.2	22900	1079
6.0	21700	1049
STOP		

start here

Hodgdon 110

RGS™ .311"

Charge in grains	psi	fps
STOP		
16.5	35000	1601
16.4	34600	1592
16.2	33900	1575
16.0	33200	1558
15.8	32500	1541
15.6	31800	1524
15.4	31100	1507
15.2	30400	1490
15.0	29700	1473
14.8	29000	1456
14.6	28300	1439
14.4	27600	1422
14.2	26900	1405
14.0	26300	1389
STOP		

start here

Hodgdon HS-7

RGS™ .346"

Charge in grains	psi	fps
STOP		
9.0	35000	1286
8.9	34100	1271
8.8	33300	1256
8.7	32500	1241
8.6	31700	1226
8.5	30900	1211
8.4	30100	1196
8.3	29300	1181
8.2	28500	1167
STOP		

start here

RGS™See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 Lil' Gun

RGS™ .467"

Charge in grains	psi	fps
STOP		
* 17.4	35000	1612
17.2	34500	1599
16.9	33700	1580
16.6	33000	1561
16.3	32300	1542
16.0	31500	1523
15.7	30800	1504
15.4	30100	1486
15.1	29400	1467
14.8	28600	1448
14.5	27900	1429
14.2	27200	1410
13.9	26400	1391
13.6	25700	1372
13.3	25000	1353
13.0	24300	1335
STOP		

start here

*Compressed load.

Hodgdon Titegroup

RGS™ 1.245"

Charge in grains	psi	fps
STOP		
5.9	35000	1211
5.8	33800	1193
5.7	32600	1176
5.6	31400	1159
5.5	30200	1142
5.4	29100	1125
STOP		

start here

IMR 4227

RGS™ .899"

Charge in grains	psi	fps
STOP		
14.9	35000	1367
14.8	34700	1359
14.6	34200	1344
14.4	33700	1328
14.2	33100	1313
14.0	32600	1298
13.8	32100	1282
13.6	31600	1267
13.4	31100	1252
13.2	30600	1236
13.0	30000	1221
12.8	29500	1206
12.6	29000	1190
12.4	28500	1175
12.2	28000	1160
12.0	27500	1145
STOP		

start here

IMR 700X

RGS™ .865"

Charge in grains	psi	fps
STOP		
5.8	35000	1203
5.7	34200	1184
5.6	33400	1166
5.5	32600	1148
5.4	31800	1129
5.3	31000	1111
5.2	30200	1093
5.1	29400	1075
5.0	28600	1056
4.9	27800	1038
4.8	27000	1020
4.7	26200	1001
4.6	25400	983
4.5	24600	965
4.4	23800	947
4.3	23000	928
4.2	22200	910
4.1	21400	892
4.0	20700	874
STOP		

start here

Winchester 296

RGS™ .276"

Charge in grains	psi	fps
STOP		
16.3	35000	1620
16.2	34700	1612
16.0	34300	1598
15.8	33900	1584
15.6	33500	1570
15.4	33100	1556
15.2	32700	1542
15.0	32300	1528
14.8	31900	1514
14.6	31500	1500
14.4	31100	1486
14.2	30700	1472
14.0	30300	1458
13.8	29900	1444
13.6	29500	1430
13.4	29100	1416
13.2	28700	1402
13.0	28300	1388
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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	RGS™ .484" psi	fps
STOP		
11.7	35000	1389
11.5	33900	1366
11.3	32800	1344
11.1	31700	1322
10.9	30600	1299
10.7	29500	1277
10.5	28400	1255
10.3	27300	1233
10.1	26200	1210
9.9	25100	1188
9.7	24000	1166
9.5	23000	1144
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .328" psi	fps
STOP		
12.0	35000	1394
11.9	34600	1384
11.7	33800	1364
11.5	33100	1344
11.3	32300	1325
11.1	31500	1305
10.9	30800	1285
10.7	30000	1266
10.5	29300	1246
10.3	28500	1226
10.1	27700	1207
9.9	27000	1187
9.7	26200	1167
9.5	25500	1148
STOP		

start here

Alliant Power Pistol

Charge in grains	RGS™ .622" psi	fps
STOP		
8.4	35000	1389
8.2	33700	1358
8.0	32400	1328
7.8	31100	1298
7.6	29900	1268
7.4	28600	1237
7.2	27300	1207
7.0	26000	1177
6.8	24800	1147
6.6	23500	1116
6.4	22200	1086
6.2	20900	1056
6.0	19700	1026
STOP		

start here

Hodgdon 110

	Charge in grains	RGS™ .311" psi	fps
	STOP		
*	16.7	35000	1585
	16.6	34600	1577
	16.4	34000	1562
	16.2	33300	1547
	16.0	32600	1533
	15.8	32000	1518
	15.6	31300	1503
	15.4	30700	1488
	15.2	30000	1473
	15.0	29300	1459
	14.8	28700	1444
	14.6	28000	1429
	14.4	27400	1414
	14.2	26700	1399
	14.0	26100	1385
	STOP		

start here

*Compressed load.

Hodgdon HS-7

Charge in grains	RGS™ .622" psi	fps
STOP		
9.2	35000	1316
9.1	34100	1300
9.0	33300	1285
8.9	32400	1270
8.8	31600	1254
8.7	30800	1239
8.6	29900	1224
8.5	29100	1208
8.4	28200	1193
8.3	27400	1178
8.2	26600	1163
STOP		

start here

RGS™See page 5.

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

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

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

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

Hodgdon Lil' Gun

RGS™ .484"

Charge in grains	psi	fps
STOP		
* 17.5	30500	1586
17.2	30000	1569
16.9	29600	1552
16.6	29200	1535
16.3	28700	1519
16.0	28300	1502
15.7	27900	1485
15.4	27500	1468
15.1	27000	1452
14.8	26600	1435
14.5	26200	1418
14.2	25800	1401
13.9	25300	1385
13.6	24900	1368
start here 13.3	24500	1351
13.0	24100	1335
STOP		

*Compressed load.

Hodgdon Titegroup

RGS™ .276"

Charge in grains	psi	fps
STOP		
6.1	35000	1223
6.0	33800	1206
5.9	32700	1190
5.8	31600	1173
5.7	30400	1157
5.6	29300	1140
start here 5.5	28200	1124
5.4	27100	1108
STOP		

IMR 4227

RGS™ .657"

Charge in grains	psi	fps
STOP		
* 15.3	35000	1389
15.2	34700	1382
15.0	34300	1368
14.8	33800	1354
14.6	33300	1340
14.4	32900	1326
14.2	32400	1312
14.0	31900	1298
13.8	31500	1284
13.6	31000	1270
13.4	30500	1256
13.2	30100	1242
13.0	29600	1228
12.8	29100	1214
12.6	28700	1200
start here 12.4	28200	1186
12.2	27700	1172
12.0	27300	1159
STOP		

*Compressed load.

IMR 700X

RGS™ .225"

Charge in grains	psi	fps
STOP		
6.0	35000	1222
5.9	34200	1203
5.8	33400	1185
5.7	32700	1167
5.6	31900	1148
5.5	31200	1130
5.4	30400	1112
5.3	29700	1093
5.2	28900	1075
5.1	28200	1057
5.0	27400	1039
4.9	26600	1020
4.8	25900	1002
4.7	25100	984
4.6	24400	965
4.5	23600	947
start here 4.4	22900	929
4.3	22100	910
4.2	21400	892
STOP		

Winchester 296

RGS™ .294"

Charge in grains	psi	fps
STOP		
16.8	35000	1622
16.6	34700	1610
16.4	34400	1599
16.2	34100	1588
16.0	33800	1576
15.8	33500	1565
15.6	33200	1554
15.4	32900	1542
15.2	32600	1531
15.0	32300	1520
14.8	32000	1508
14.6	31700	1497
14.4	31400	1486
14.2	31100	1474
14.0	30800	1463
13.8	30500	1452
13.6	30200	1440
start here 13.4	29900	1429
13.2	29600	1418
STOP		

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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

RGS™ .484"

Charge in grains	psi	fps
STOP		
11.6	35000	1344
11.5	34400	1332
11.3	33400	1310
11.1	32300	1288
10.9	31300	1265
10.7	30200	1243
10.5	29200	1220
10.3	28100	1198
10.1	27100	1176
9.9	26000	1153
9.7	25000	1131
9.5	24000	1109
STOP		

start here

Alliant 2400

RGS™ .467"

Charge in grains	psi	fps
STOP		
11.8	35000	1325
11.7	34600	1315
11.5	33800	1295
11.3	33000	1276
11.1	32200	1256
10.9	31400	1237
10.7	30600	1217
10.5	29800	1198
10.3	29000	1178
10.1	28200	1159
9.9	27400	1139
9.7	26600	1120
9.5	25900	1101
STOP		

start here

Alliant Power Pistol

RGS™ .536"

Charge in grains	psi	fps
STOP		
8.5	35000	1355
8.4	34400	1339
8.2	33200	1309
8.0	32100	1278
7.8	30900	1248
7.6	29700	1217
7.4	28600	1187
7.2	27400	1156
7.0	26300	1126
6.8	25100	1095
6.6	23900	1065
6.4	22800	1034
6.2	21600	1004
6.0	20500	974
STOP		

start here

Hodgdon 110

RGS™ .173"

Charge in grains	psi	fps
STOP		
* 16.9	35000	1555
16.8	34700	1548
16.6	34200	1535
16.4	33700	1521
16.2	33200	1508
16.0	32700	1495
15.8	32100	1481
15.6	31600	1468
15.4	31100	1455
15.2	30600	1441
15.0	30100	1428
14.8	29600	1415
14.6	29100	1401
14.4	28600	1388
14.2	28100	1375
14.0	27600	1362
STOP		

start here

*Compressed load.

Hodgdon HS-7

RGS™ .346"

Charge in grains	psi	fps
STOP		
9.3	35000	1262
9.2	34200	1246
9.1	33400	1231
9.0	32600	1216
8.9	31800	1200
8.8	31000	1185
8.7	30200	1170
8.6	29400	1155
8.5	28600	1139
8.4	27800	1124
8.3	27000	1109
8.2	26200	1094
STOP		

start here

RGS™ See page 5.

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

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

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

Hodgdon Lil' Gun

Charge in grains	RGS™ .484" psi	fps
STOP		
* 17.5	30000	1541
17.2	29700	1527
16.9	29400	1514
16.6	29200	1501
16.3	28900	1488
16.0	28700	1475
15.7	28400	1462
15.4	28100	1449
15.1	27900	1435
14.8	27600	1422
14.5	27400	1409
14.2	27100	1396
13.9	26800	1383
13.6	26600	1370
start here 13.3	26300	1357
13.0	26100	1344
STOP		

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .415" psi	fps
STOP		
6.2	35000	1176
6.1	34100	1159
6.0	33300	1142
5.9	32500	1125
5.8	31700	1108
5.7	30900	1091
5.6	30100	1074
start here 5.5	29300	1057
5.4	28500	1040
STOP		

IMR 4227

Charge in grains	RGS™ .605" psi	fps
STOP		
* 15.3	35000	1346
15.2	34700	1338
15.0	34300	1324
14.8	33900	1309
14.6	33400	1295
14.4	33000	1281
14.2	32600	1266
14.0	32200	1252
13.8	31700	1237
13.6	31300	1223
13.4	30900	1208
13.2	30400	1194
13.0	30000	1180
12.8	29600	1165
12.6	29100	1151
start here 12.4	28700	1136
12.2	28300	1122
12.0	27900	1108
STOP		

*Compressed load.

IMR 700X

Charge in grains	RGS™ .778" psi	fps
STOP		
5.9	35000	1153
5.8	34100	1131
5.7	33300	1110
5.6	32500	1089
5.5	31700	1068
5.4	30800	1047
5.3	30000	1026
5.2	29200	1004
5.1	28400	983
5.0	27600	962
4.9	26700	941
4.8	25900	920
4.7	25100	899
4.6	24300	877
4.5	23500	856
4.4	22600	835
start here 4.3	21800	814
4.2	21000	793
4.1	20200	772
STOP		

Winchester 296

Charge in grains	RGS™ .260" psi	fps
STOP		
* 16.9	35000	1592
16.8	34900	1587
16.6	34800	1578
16.4	34700	1568
16.2	34600	1559
16.0	34400	1550
15.8	34300	1541
15.6	34200	1532
15.4	34100	1522
15.2	34000	1513
15.0	33900	1504
14.8	33800	1495
14.6	33700	1485
14.4	33500	1476
14.2	33400	1467
14.0	33300	1458
start here 13.8	33200	1448
13.6	33100	1439
STOP		

*Compressed load.

RGS™ See page 5.

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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

RGS™ .311"

Charge in grains	psi	fps
STOP		
11.5	35000	1363
11.4	34500	1352
11.3	34000	1341
11.2	33500	1330
11.1	33000	1319
11.0	32500	1309
10.9	32000	1298
10.8	31500	1287
10.7	31000	1276
10.6	30500	1265
10.5	30100	1255
10.4	29600	1244
10.3	29100	1233
10.2	28600	1222
10.1	28100	1211
10.0	27600	1201
9.9	27100	1190
9.8	26600	1179
9.7	26100	1168
STOP		

start here

Alliant 2400

RGS™ .536"

Charge in grains	psi	fps
STOP		
11.5	35000	1335
11.4	34500	1324
11.3	34100	1314
11.2	33600	1304
11.1	33200	1294
11.0	32800	1284
10.9	32300	1274
10.8	31900	1264
10.7	31400	1254
10.6	31000	1244
10.5	30600	1234
10.4	30100	1223
10.3	29700	1213
10.2	29200	1203
10.1	28800	1193
10.0	28400	1183
9.9	27900	1173
9.8	27500	1163
9.7	27000	1153
STOP		

start here

Alliant Power Pistol

RGS™ .692"

Charge in grains	psi	fps
STOP		
8.0	35000	1345
7.9	34300	1328
7.8	33600	1312
7.7	32900	1296
7.6	32200	1279
7.5	31500	1263
7.4	30800	1247
7.3	30200	1230
7.2	29500	1214
7.1	28800	1198
7.0	28100	1182
6.9	27400	1165
6.8	26700	1149
6.7	26000	1133
6.6	25400	1116
6.5	24700	1100
6.4	24000	1084
6.3	23300	1067
6.2	22600	1051
STOP		

start here

Hodgdon 110

RGS™ .242"

Charge in grains	psi	fps
STOP		
16.5	35000	1588
16.4	34700	1580
16.2	34100	1565
16.0	33500	1551
15.8	32900	1536
15.6	32300	1521
15.4	31700	1507
15.2	31200	1492
15.0	30600	1477
14.8	30000	1462
14.6	29400	1448
14.4	28800	1433
14.2	28200	1418
14.0	27700	1404
STOP		

start here

Hodgdon HS-7

RGS™ .294"

Charge in grains	psi	fps
STOP		
9.0	35000	1283
8.9	34100	1266
8.8	33200	1249
8.7	32300	1232
8.6	31400	1215
8.5	30500	1198
8.4	29600	1181
8.3	28700	1164
8.2	27800	1147
STOP		

start here

RGS™See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 Lil' Gun

RGS™ .346"

Charge in grains	psi	fps
STOP		
* 17.3	35000	1616
17.2	34700	1609
16.9	34100	1591
16.6	33400	1572
16.3	32700	1554
16.0	32100	1535
15.7	31400	1517
15.4	30800	1498
15.1	30100	1480
14.8	29400	1461
14.5	28800	1443
14.2	28100	1424
13.9	27400	1406
13.6	26800	1387
start here 13.3	26100	1369
13.0	25500	1351
STOP		

*Compressed load.

Hodgdon Titegroup

RGS™ .449"

Charge in grains	psi	fps
STOP		
5.9	35000	1187
5.8	33800	1168
5.7	32700	1149
5.6	31500	1131
5.5	30400	1112
start here 5.4	29300	1094
STOP		

IMR 4227

RGS™ .622"

Charge in grains	psi	fps
STOP		
* 15.0	35000	1375
14.8	34500	1360
14.6	34100	1346
14.4	33600	1332
14.2	33200	1317
14.0	32800	1303
13.8	32300	1289
13.6	31900	1274
13.4	31400	1260
13.2	31000	1246
13.0	30600	1231
12.8	30100	1217
12.6	29700	1203
12.4	29200	1188
start here 12.2	28800	1174
12.0	28400	1160
STOP		

*Compressed load.

IMR 700X

RGS™ .467"

Charge in grains	psi	fps
STOP		
5.7	35000	1165
5.6	34200	1146
5.5	33400	1128
5.4	32600	1109
5.3	31900	1091
5.2	31100	1072
5.1	30300	1054
5.0	29600	1036
4.9	28800	1017
4.8	28000	999
4.7	27200	980
4.6	26500	962
4.5	25700	944
4.4	24900	925
4.3	24200	907
start here 4.2	23400	888
4.1	22600	870
4.0	21900	852
STOP		

Winchester 296

RGS™ .224"

Charge in grains	psi	fps
STOP		
16.4	35000	1612
16.2	34600	1599
16.0	34300	1586
15.8	34000	1573
15.6	33600	1560
15.4	33300	1547
15.2	33000	1534
15.0	32600	1521
14.8	32300	1508
14.6	32000	1495
14.4	31700	1482
14.2	31300	1469
14.0	31000	1456
13.8	30700	1443
13.6	30300	1430
start here 13.4	30000	1417
13.2	29700	1404
13.0	29400	1392
STOP		

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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

RGS™ .311"

Charge in grains	psi	fps
STOP		
11.7	35000	1374
11.5	34000	1353
11.3	33100	1332
11.1	32100	1311
10.9	31200	1290
10.7	30200	1269
10.5	29300	1248
10.3	28300	1227
10.1	27400	1206
9.9	26400	1185
9.7	25500	1164
9.5	24600	1144
STOP		

start here

Alliant 2400

RGS™ .553"

Charge in grains	psi	fps
STOP		
11.8	35000	1353
11.7	34500	1342
11.5	33600	1322
11.3	32800	1302
11.1	31900	1281
10.9	31000	1261
10.7	30200	1241
10.5	29300	1220
10.3	28400	1200
10.1	27600	1180
9.9	26700	1159
9.7	25800	1139
9.5	25000	1119
STOP		

start here

Alliant Power Pistol

RGS™ .571"

Charge in grains	psi	fps
STOP		
8.2	35000	1353
8.0	33700	1322
7.8	32400	1291
7.6	31100	1260
7.4	29800	1229
7.2	28500	1198
7.0	27200	1167
6.8	25900	1136
6.6	24600	1105
6.4	23300	1074
6.2	22000	1043
6.0	20800	1012
STOP		

start here

Hodgdon 110

RGS™ .225"

Charge in grains	psi	fps
STOP		
16.8	35000	1601
16.6	34300	1585
16.4	33700	1570
16.2	33100	1555
16.0	32500	1539
15.8	31900	1524
15.6	31300	1509
15.4	30700	1494
15.2	30000	1478
15.0	29400	1463
14.8	28800	1448
14.6	28200	1432
14.4	27600	1417
14.2	27000	1402
14.0	26400	1387
STOP		

start here

Hodgdon HS-7

RGS™ .138"

Charge in grains	psi	fps
STOP		
9.2	35000	1306
9.1	34100	1289
9.0	33300	1272
8.9	32400	1256
8.8	31600	1239
8.7	30800	1223
8.6	29900	1206
8.5	29100	1189
8.4	28200	1173
8.3	27400	1156
8.2	26600	1140
STOP		

start here

RGS™See page 5.

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

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

Hodgdon Lil' Gun

RGS™ .311"

Charge in grains	psi	fps
STOP		
* 17.5	35000	1621
17.2	34400	1603
16.9	33800	1586
16.6	33200	1569
16.3	32600	1552
16.0	32000	1535
15.7	31400	1517
15.4	30800	1500
15.1	30200	1483
14.8	29600	1466
14.5	29000	1449
14.2	28400	1431
13.9	27800	1414
13.6	27200	1397
13.3	26600	1380
start here 13.0	26100	1363
STOP		

*Compressed load.

Hodgdon Titegroup

RGS™ .380"

Charge in grains	psi	fps
STOP		
6.0	35000	1197
5.9	33800	1178
5.8	32700	1160
5.7	31600	1142
5.6	30400	1123
5.5	29300	1105
start here 5.4	28200	1087
STOP		

IMR 4227

RGS™ .571"

Charge in grains	psi	fps
STOP		
15.2	35000	1383
15.0	34600	1369
14.8	34200	1356
14.6	33800	1343
14.4	33400	1329
14.2	33000	1316
14.0	32600	1303
13.8	32200	1289
13.6	31900	1276
13.4	31500	1263
13.2	31100	1249
13.0	30700	1236
12.8	30300	1223
12.6	29900	1209
12.4	29500	1196
12.2	29100	1183
start here 12.0	28800	1170
STOP		

IMR 700X

RGS™ .346"

Charge in grains	psi	fps
STOP		
5.8	35000	1175
5.7	34100	1155
5.6	33300	1136
5.5	32500	1117
5.4	31700	1098
5.3	30900	1079
5.2	30100	1060
5.1	29300	1041
5.0	28500	1022
4.9	27700	1003
4.8	26900	983
4.7	26100	964
4.6	25300	945
4.5	24500	926
4.4	23700	907
4.3	22900	888
start here 4.2	22100	869
4.1	21300	850
4.0	20500	831
STOP		

Winchester 296

RGS™ .225"

Charge in grains	psi	fps
STOP		
16.6	35000	1613
16.4	34700	1601
16.2	34400	1589
16.0	34100	1578
15.8	33800	1566
15.6	33500	1554
15.4	33300	1543
15.2	33000	1531
15.0	32700	1519
14.8	32400	1508
14.6	32100	1496
14.4	31800	1484
14.2	31600	1473
14.0	31300	1461
13.8	31000	1449
13.6	30700	1438
start here 13.4	30400	1426
13.2	30100	1414
13.0	29900	1403
STOP		

RGS™ See page 5.

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

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

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

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

Accurate Arms 9

Charge in grains	RGS™ .450" psi	fps
STOP		
11.7	35000	1377
11.5	34000	1354
11.3	33000	1332
11.1	32000	1310
10.9	31000	1288
10.7	30000	1266
10.5	29000	1244
10.3	28000	1222
10.1	27000	1200
9.9	26000	1178
9.7	25000	1156
9.5	24100	1134
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .501" psi	fps
STOP		
11.6	35000	1330
11.5	34500	1318
11.3	33500	1296
11.1	32600	1273
10.9	31600	1251
10.7	30700	1228
10.5	29700	1206
10.3	28800	1183
10.1	27800	1161
9.9	26900	1138
9.7	25900	1116
9.5	25000	1094
STOP		

start here

Alliant Power Pistol

Charge in grains	RGS™ .225" psi	fps
STOP		
8.4	35000	1366
8.2	33700	1333
8.0	32500	1300
7.8	31200	1268
7.6	30000	1235
7.4	28700	1202
7.2	27500	1170
7.0	26300	1137
6.8	25000	1104
6.6	23800	1072
6.4	22500	1039
6.2	21300	1006
6.0	20100	974
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .242" psi	fps
STOP		
16.9	35000	1588
16.8	34700	1581
16.6	34300	1568
16.4	33800	1555
16.2	33400	1541
16.0	32900	1528
15.8	32400	1515
15.6	32000	1502
15.4	31500	1489
15.2	31100	1476
15.0	30600	1462
14.8	30200	1449
14.6	29700	1436
14.4	29300	1423
14.2	28800	1410
14.0	28400	1397
STOP		

start here

Hodgdon HS-7

Charge in grains	RGS™ .450" psi	fps
STOP		
9.3	35000	1289
9.2	34200	1273
9.1	33500	1258
9.0	32800	1242
8.9	32100	1227
8.8	31400	1211
8.7	30700	1196
8.6	30000	1180
8.5	29300	1165
8.4	28600	1149
8.3	27900	1134
8.2	27200	1119
STOP		

start here

RGS™ See page 5.

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

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Hodgdon Lil' Gun

Charge in grains	RGS™ .276" psi	fps
STOP		
* 17.6	35000	1605
17.5	34700	1599
17.2	34100	1581
16.9	33500	1563
16.6	32900	1545
16.3	32300	1527
16.0	31700	1509
15.7	31100	1491
15.4	30500	1473
15.1	29800	1456
14.8	29200	1438
14.5	28600	1420
14.2	28000	1402
13.9	27400	1384
13.6	26800	1366
13.3	26200	1348
13.0	25600	1331
STOP		

start here

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .449" psi	fps
STOP		
6.1	35000	1194
6.0	33900	1177
5.9	32900	1161
5.8	31900	1145
5.7	30900	1128
5.6	29900	1112
5.5	28900	1096
5.4	27900	1080
STOP		

start here

IMR 4227

Charge in grains	RGS™ .328" psi	fps
STOP		
15.3	35000	1386
15.2	34800	1379
15.0	34400	1365
14.8	34100	1351
14.6	33700	1337
14.4	33400	1323
14.2	33100	1309
14.0	32700	1295
13.8	32400	1281
13.6	32000	1267
13.4	31700	1253
13.2	31300	1239
13.0	31000	1225
12.8	30600	1211
12.6	30300	1197
12.4	29900	1183
12.2	29600	1169
12.0	29300	1156
STOP		

start here

IMR 700X

Charge in grains	RGS™ .467" psi	fps
STOP		
5.8	35000	1164
5.7	34100	1144
5.6	33300	1125
5.5	32500	1106
5.4	31600	1087
5.3	30800	1068
5.2	30000	1049
5.1	29100	1030
5.0	28300	1011
4.9	27500	992
4.8	26600	972
4.7	25800	953
4.6	25000	934
4.5	24100	915
4.4	23300	896
4.3	22500	877
4.2	21600	858
4.1	20800	839
4.0	20000	820
STOP		

start here

Winchester 296

Charge in grains	RGS™ .276" psi	fps
STOP		
* 16.8	35000	1612
16.6	34700	1600
16.4	34500	1589
16.2	34300	1578
16.0	34000	1567
15.8	33800	1556
15.6	33600	1545
15.4	33300	1534
15.2	33100	1523
15.0	32900	1512
14.8	32600	1500
14.6	32400	1489
14.4	32200	1478
14.2	31900	1467
14.0	31700	1456
13.8	31500	1445
13.6	31200	1434
13.4	31000	1423
STOP		

start here

*Compressed load.

RGS™ See page 5.

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

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

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

Accurate Arms 9

RGS™ .294"

Charge in grains	psi	fps
STOP		
11.5	35000	1369
11.4	34400	1358
11.3	33900	1347
11.2	33400	1336
11.1	32900	1326
11.0	32400	1315
10.9	31900	1304
10.8	31300	1294
10.7	30800	1283
10.6	30300	1272
10.5	29800	1262
10.4	29300	1251
10.3	28800	1240
10.2	28300	1229
10.1	27700	1219
10.0	27200	1208
9.9	26700	1197
9.8	26200	1187
9.7	25700	1176
STOP		

start here

Alliant 2400

RGS™ .380"

Charge in grains	psi	fps
STOP		
11.5	35000	1349
11.4	34600	1339
11.3	34200	1330
11.2	33800	1321
11.1	33400	1312
11.0	33000	1302
10.9	32600	1293
10.8	32200	1284
10.7	31800	1275
10.6	31400	1265
10.5	31100	1256
10.4	30700	1247
10.3	30300	1238
10.2	29900	1228
10.1	29500	1219
10.0	29100	1210
9.9	28700	1201
9.8	28300	1191
9.7	27900	1182
STOP		

start here

Alliant Power Pistol

RGS™ .381"

Charge in grains	psi	fps
STOP		
8.1	35000	1365
8.0	34300	1349
7.8	33000	1317
7.6	31700	1286
7.4	30400	1255
7.2	29100	1223
7.0	27800	1192
6.8	26500	1160
6.6	25200	1129
6.4	23900	1097
6.2	22600	1066
6.0	21400	1035
STOP		

start here

Hodgdon 110

RGS™ .346"

Charge in grains	psi	fps
STOP		
16.7	35000	1616
16.6	34600	1607
16.4	34000	1591
16.2	33300	1574
16.0	32600	1558
15.8	32000	1542
15.6	31300	1525
15.4	30700	1509
15.2	30000	1492
15.0	29300	1476
14.8	28700	1459
14.6	28000	1443
14.4	27400	1426
14.2	26700	1410
14.0	26100	1394
STOP		

start here

Hodgdon HS-7

RGS™ .311"

Charge in grains	psi	fps
STOP		
9.0	35000	1288
8.9	34200	1273
8.8	33400	1258
8.7	32600	1243
8.6	31800	1228
8.5	31000	1213
8.4	30200	1198
8.3	29400	1183
8.2	28700	1168
STOP		

start here

RGS™ See page 5.

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357 Magnum

Winchester 158 gr SJHP

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 Lil' Gun

Charge in grains	RGS™ .294" psi	fps
STOP		
* 17.4	28600	1573
17.2	28300	1562
16.9	28000	1547
16.6	27700	1531
16.3	27400	1516
16.0	27100	1500
15.7	26800	1485
15.4	26500	1469
15.1	26100	1454
14.8	25800	1438
14.5	25500	1423
14.2	25200	1407
13.9	24900	1392
13.6	24600	1376
13.3	24300	1361
13.0	24000	1346
STOP		

start here

*Compressed load.

Hodgdon Titegroup

Charge in grains	RGS™ .328" psi	fps
STOP		
5.9	35000	1191
5.8	33900	1173
5.7	32800	1155
5.6	31700	1138
5.5	30600	1120
5.4	29600	1103
STOP		

start here

IMR 4227

Charge in grains	RGS™ .242" psi	fps
STOP		
15.0	35000	1372
14.8	34600	1358
14.6	34200	1345
14.4	33800	1332
14.2	33400	1319
14.0	33000	1306
13.8	32600	1293
13.6	32200	1280
13.4	31900	1266
13.2	31500	1253
13.0	31100	1240
12.8	30700	1227
12.6	30300	1214
12.4	29900	1201
12.2	29500	1188
12.0	29200	1175
STOP		

start here

IMR 700X

Charge in grains	RGS™ .605" psi	fps
STOP		
5.7	35000	1173
5.6	34100	1153
5.5	33300	1134
5.4	32500	1115
5.3	31600	1096
5.2	30800	1077
5.1	30000	1058
5.0	29100	1039
4.9	28300	1020
4.8	27500	1000
4.7	26700	981
4.6	25800	962
4.5	25000	943
4.4	24200	924
4.3	23300	905
4.2	22500	886
4.1	21700	867
4.0	20900	848
STOP		

start here

Winchester 296

Charge in grains	RGS™ .294" psi	fps
STOP		
16.6	35000	1636
16.4	34600	1621
16.2	34200	1607
16.0	33800	1593
15.8	33400	1579
15.6	33100	1565
15.4	32700	1551
15.2	32300	1537
15.0	31900	1523
14.8	31600	1509
14.6	31200	1495
14.4	30800	1481
14.2	30400	1467
14.0	30000	1453
13.8	29700	1439
13.6	29300	1425
13.4	28900	1411
13.2	28500	1397
13.0	28200	1383
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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

RGS™ .501"

Charge in grains	psi	fps
STOP		
11.1	35000	1419
11.0	34400	1408
10.9	33800	1398
10.8	33200	1388
10.7	32600	1377
10.6	32000	1367
10.5	31400	1357
10.4	30800	1346
10.3	30200	1336
10.2	29600	1326
10.1	29000	1315
10.0	28400	1305
9.9	27800	1295
9.8	27200	1284
9.7	26600	1274
9.6	26000	1264
9.5	25400	1254
STOP		

start here

Alliant Unique

RGS™ .536"

Charge in grains	psi	fps
STOP		
6.2	35000	1238
6.1	33900	1226
6.0	32900	1215
5.9	31800	1204
5.8	30800	1193
5.7	29700	1182
5.6	28700	1171
5.5	27700	1160
STOP		

start here

Hodgdon 4227

RGS™ .225"

Charge in grains	psi	fps
STOP		
* 15.3	35000	1447
15.2	34800	1441
15.0	34400	1430
14.8	34000	1418
14.6	33600	1407
14.4	33200	1396
14.2	32800	1384
14.0	32400	1373
13.8	32000	1362
13.6	31600	1350
13.4	31200	1339
13.2	30800	1328
13.0	30400	1317
STOP		

start here

*Compressed load.

Hodgdon HS-6

RGS™ .259"

Charge in grains	psi	fps
STOP		
8.1	35000	1364
8.0	34200	1349
7.8	32800	1321
7.6	31400	1292
7.4	29900	1264
7.2	28500	1235
7.0	27000	1206
6.8	25600	1178
6.6	24200	1149
6.4	22700	1121
6.2	21300	1092
6.0	19900	1064
STOP		

start here

IMR 4227

RGS™ .467"

Charge in grains	psi	fps
STOP		
* 15.0	35000	1449
14.9	34700	1443
14.7	34300	1431
14.5	33900	1419
14.3	33500	1407
14.1	33000	1395
13.9	32600	1383
13.7	32200	1371
13.5	31700	1359
13.3	31300	1347
13.1	30900	1335
12.9	30500	1323
12.7	30000	1311
12.5	29600	1299
12.3	29200	1287
12.1	28700	1275
11.9	28300	1263
11.7	27900	1251
STOP		

start here

*Compressed load.

RGS™ See page 5.

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

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

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

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

IMR 700X

Charge in grains	RGS™ .311" psi	fps
STOP		
5.6	35000	1252
5.5	34000	1236
5.4	33100	1221
5.3	32100	1206
5.2	31200	1191
5.1	30300	1176
5.0	29300	1161
4.9	28400	1146
4.8	27500	1131
4.7	26500	1116
4.6	25600	1101
start here 4.5	24700	1086
STOP		

IMR SR7625

Charge in grains	RGS™ .311" psi	fps
STOP		
6.0	35000	1220
5.9	34000	1204
5.8	33100	1188
5.7	32200	1172
5.6	31300	1156
5.5	30400	1141
5.4	29500	1125
5.3	28600	1109
5.2	27700	1093
5.1	26800	1078
5.0	25900	1062
4.9	25000	1046
4.8	24100	1030
4.7	23200	1014
4.6	22300	999
4.5	21400	983
start here 4.4	20500	967
4.3	19600	951
4.2	18700	936
STOP		

Winchester 231

Charge in grains	RGS™ .381" psi	fps
STOP		
5.9	35000	1230
5.8	34000	1214
5.7	33000	1199
5.6	32000	1183
5.5	31000	1168
5.4	30000	1153
5.3	29000	1137
5.2	28000	1122
5.1	27000	1107
5.0	26000	1091
4.9	25000	1076
4.8	24000	1061
4.7	23000	1045
4.6	22000	1030
start here 4.5	21100	1015
STOP		

RGS™See page 5.

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

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

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

Accurate Arms 9

RGS™ .432"

Charge in grains	psi	fps
STOP		
11.2	35000	1425
11.1	34400	1414
11.0	33800	1404
10.9	33300	1394
10.8	32700	1384
10.7	32200	1374
10.6	31600	1364
10.5	31100	1354
10.4	30500	1344
10.3	30000	1333
10.2	29400	1323
10.1	28900	1313
10.0	28300	1303
9.9	27800	1293
9.8	27200	1283
9.7	26700	1273
9.6	26100	1263
9.5	25600	1253
STOP		

start here

Alliant Unique

RGS™ .363"

Charge in grains	psi	fps
STOP		
6.1	35000	1240
6.0	33900	1225
5.9	32900	1210
5.8	31900	1196
5.7	30800	1181
5.6	29800	1166
5.5	28800	1152
STOP		

start here

Hodgdon 4227

RGS™ .363"

Charge in grains	psi	fps
STOP		
* 15.3	35000	1458
15.2	34700	1451
15.0	34100	1437
14.8	33600	1423
14.6	33000	1409
14.4	32400	1395
14.2	31900	1381
14.0	31300	1368
13.8	30800	1354
13.6	30200	1340
13.4	29700	1326
13.2	29100	1312
13.0	28600	1299
STOP		

start here

*Compressed load.

Hodgdon HS-6

RGS™ .571"

Charge in grains	psi	fps
STOP		
8.2	35000	1375
8.0	33600	1347
7.8	32200	1319
7.6	30900	1291
7.4	29500	1264
7.2	28200	1236
7.0	26800	1208
6.8	25500	1180
6.6	24100	1153
6.4	22800	1125
6.2	21400	1097
6.0	20100	1070
STOP		

start here

IMR 4227

RGS™ .329"

Charge in grains	psi	fps
STOP		
15.0	35000	1448
14.9	34800	1441
14.7	34500	1429
14.5	34200	1417
14.3	33900	1404
14.1	33600	1392
13.9	33300	1380
13.7	33100	1367
13.5	32800	1355
13.3	32500	1343
13.1	32200	1330
12.9	31900	1318
12.7	31600	1306
12.5	31300	1293
12.3	31000	1281
12.1	30700	1269
11.9	30400	1256
11.7	30100	1244
11.5	29900	1232
STOP		

start here

RGS™ See page 5.

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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.

IMR 700X

Charge in grains	RGS™ .674" psi	fps
STOP		
5.5	35000	1240
5.4	34000	1225
5.3	33000	1210
5.2	32000	1195
5.1	31000	1180
5.0	30000	1165
4.9	29000	1150
4.8	28000	1135
4.7	27000	1120
4.6	26000	1105
4.5	25000	1090
STOP		

start here

IMR SR7625

Charge in grains	RGS™ .260" psi	fps
STOP		
6.0	35000	1224
5.9	34000	1207
5.8	33100	1191
5.7	32200	1174
5.6	31200	1158
5.5	30300	1141
5.4	29400	1125
5.3	28400	1108
5.2	27500	1092
5.1	26600	1075
5.0	25600	1059
4.9	24700	1042
4.8	23800	1026
4.7	22800	1009
4.6	21900	993
4.5	21000	976
4.4	20000	960
4.3	19100	943
4.2	18200	927
STOP		

start here

Winchester 231

Charge in grains	RGS™ .259" psi	fps
STOP		
5.9	35000	1230
5.8	34000	1215
5.7	33100	1200
5.6	32200	1185
5.5	31300	1170
5.4	30400	1155
5.3	29500	1140
5.2	28600	1125
5.1	27700	1110
5.0	26800	1095
4.9	25900	1080
4.8	25000	1065
4.7	24100	1050
4.6	23200	1035
4.5	22300	1021
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.

RGS™See page 5.

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

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

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

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

Accurate Arms 9

RGS™ .605"

Charge in grains	psi	fps
STOP		
11.0	35000	1409
10.9	34400	1398
10.8	33800	1388
10.7	33300	1377
10.6	32700	1367
10.5	32200	1357
10.4	31600	1346
10.3	31100	1336
10.2	30500	1325
10.1	30000	1315
10.0	29400	1305
9.9	28900	1294
9.8	28300	1284
9.7	27800	1273
9.6	27200	1263
9.5	26700	1253
STOP		

start here

Alliant Unique

RGS™ .847"

Charge in grains	psi	fps
STOP		
6.2	35000	1235
6.1	34000	1222
6.0	33000	1209
5.9	32000	1197
5.8	31100	1184
5.7	30100	1172
5.6	29100	1159
5.5	28200	1147
STOP		

start here

Hodgdon 4227

RGS™ 1.228"

Charge in grains	psi	fps
STOP		
* 15.3	35000	1453
15.2	34800	1446
15.0	34400	1434
14.8	34000	1421
14.6	33600	1409
14.4	33200	1397
14.2	32800	1384
14.0	32400	1372
13.8	32000	1359
13.6	31600	1347
13.4	31200	1334
13.2	30800	1322
13.0	30500	1310
STOP		

start here

*Compressed load.

Hodgdon HS-6

RGS™ .640"

Charge in grains	psi	fps
STOP		
8.0	35000	1358
7.9	34200	1343
7.8	33400	1329
7.7	32700	1314
7.6	31900	1300
7.5	31200	1285
7.4	30400	1271
7.3	29700	1256
7.2	28900	1242
7.1	28200	1227
7.0	27400	1213
6.9	26600	1199
6.8	25900	1184
6.7	25100	1170
6.6	24400	1155
6.5	23600	1141
6.4	22900	1126
6.3	22100	1112
6.2	21400	1097
STOP		

start here

IMR 4227

RGS™ .986"

Charge in grains	psi	fps
STOP		
* 15.0	35000	1440
14.9	34800	1433
14.7	34400	1420
14.5	34100	1407
14.3	33800	1394
14.1	33400	1381
13.9	33100	1368
13.7	32700	1356
13.5	32400	1343
13.3	32000	1330
13.1	31700	1317
12.9	31400	1304
12.7	31000	1291
12.5	30700	1278
12.3	30300	1265
12.1	30000	1252
11.9	29600	1239
11.7	29300	1226
STOP		

start here

*Compressed load.

RGS™ See page 5.

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

IMR 700X

Charge in grains	RGS™ .865" psi	fps
STOP		
5.6	35000	1209
5.5	33900	1196
5.4	32800	1183
5.3	31800	1170
5.2	30700	1157
5.1	29700	1144
5.0	28600	1131
4.9	27600	1118
4.8	26500	1105
4.7	25500	1092
4.6	24400	1079
4.5	23400	1067
STOP		

start here

IMR SR7625

Charge in grains	RGS™ .657" psi	fps
STOP		
5.9	35000	1208
5.8	34000	1193
5.7	33100	1178
5.6	32200	1163
5.5	31300	1148
5.4	30300	1133
5.3	29400	1118
5.2	28500	1103
5.1	27600	1088
5.0	26600	1073
4.9	25700	1058
4.8	24800	1043
4.7	23900	1028
4.6	22900	1013
4.5	22000	998
4.4	21100	983
4.3	20200	968
4.2	19300	954
STOP		

start here

Winchester 231

Charge in grains	RGS™ 1.202" psi	fps
STOP		
5.7	35000	1191
5.6	33900	1176
5.5	32800	1162
5.4	31800	1148
5.3	30700	1133
5.2	29600	1119
5.1	28600	1105
5.0	27500	1090
4.9	26400	1076
4.8	25400	1062
4.7	24300	1047
4.6	23200	1033
4.5	22200	1019
STOP		

start here

RGS™See page 5.

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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 9

RGS™ .536"

Charge in grains	psi	fps
STOP		
11.0	35000	1411
10.9	34300	1399
10.8	33600	1388
10.7	33000	1377
10.6	32300	1366
10.5	31700	1355
10.4	31000	1344
10.3	30400	1333
10.2	29700	1322
10.1	29100	1311
10.0	28400	1300
9.9	27800	1289
9.8	27100	1278
9.7	26500	1267
9.6	25800	1256
9.5	25200	1245
STOP		

start here

Alliant Unique

RGS™ .847"

Charge in grains	psi	fps
STOP		
6.1	35000	1209
6.0	33800	1196
5.9	32600	1183
5.8	31400	1170
5.7	30200	1157
5.6	29000	1144
5.5	27800	1132
STOP		

start here

Hodgdon 4227

RGS™ 1.055"

Charge in grains	psi	fps
STOP		
* 15.3	35000	1445
15.2	34700	1438
15.0	34100	1425
14.8	33600	1413
14.6	33100	1400
14.4	32500	1387
14.2	32000	1375
14.0	31400	1362
13.8	30900	1349
13.6	30400	1337
13.4	29800	1324
13.2	29300	1311
13.0	28800	1299
STOP		

start here

*Compressed load.

Hodgdon HS-6

RGS™ .968"

Charge in grains	psi	fps
STOP		
8.0	35000	1349
7.9	34200	1334
7.8	33500	1320
7.7	32700	1306
7.6	32000	1292
7.5	31300	1278
7.4	30500	1264
7.3	29800	1250
7.2	29100	1236
7.1	28300	1222
7.0	27600	1208
6.9	26900	1193
6.8	26100	1179
6.7	25400	1165
6.6	24700	1151
6.5	23900	1137
6.4	23200	1123
6.3	22500	1109
6.2	21700	1095
STOP		

start here

IMR 4227

RGS™ .968"

Charge in grains	psi	fps
STOP		
* 14.9	35000	1427
14.7	34600	1414
14.5	34300	1402
14.3	34000	1390
14.1	33600	1377
13.9	33300	1365
13.7	33000	1353
13.5	32600	1340
13.3	32300	1328
13.1	32000	1316
12.9	31700	1304
12.7	31300	1291
12.5	31000	1279
12.3	30700	1267
12.1	30300	1254
11.9	30000	1242
11.7	29700	1230
11.5	29400	1218
STOP		

start here

*Compressed load.

RGS™See page 5.

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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IMR 700X

Charge in grains	RGS™ .743" psi	fps
STOP		
5.6	35000	1199
5.5	34000	1186
5.4	33000	1173
5.3	32100	1160
5.2	31100	1148
5.1	30100	1135
5.0	29200	1122
4.9	28200	1109
4.8	27200	1097
4.7	26300	1084
4.6	25300	1071
4.5	24400	1059
STOP		

start here

IMR SR7625

Charge in grains	RGS™ .519" psi	fps
STOP		
5.9	35000	1208
5.8	33900	1191
5.7	32900	1175
5.6	31900	1159
5.5	30900	1143
5.4	29900	1127
5.3	28900	1111
5.2	27900	1095
5.1	26900	1079
5.0	25900	1062
4.9	24900	1046
4.8	23900	1030
4.7	22900	1014
4.6	21900	998
4.5	20900	982
4.4	19900	966
4.3	18900	950
4.2	17900	934
STOP		

start here

Winchester 231

Charge in grains	RGS™ .916" psi	fps
STOP		
5.7	35000	1185
5.6	33900	1170
5.5	32800	1155
5.4	31700	1141
5.3	30600	1126
5.2	29500	1112
5.1	28400	1097
5.0	27300	1082
4.9	26200	1068
4.8	25100	1053
4.7	24000	1039
4.6	22900	1024
4.5	21800	1010
STOP		

start here

RGS™ See page 5.

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

Accurate Arms 9

Charge in grains	RGS™ .484" psi	fps
STOP		
10.5	35000	1376
10.4	34200	1363
10.3	33500	1351
10.2	32800	1339
10.1	32100	1327
10.0	31400	1315
9.9	30700	1302
9.8	30000	1290
9.7	29300	1278
9.6	28600	1266
9.5	27900	1254
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .783" psi	fps
STOP		
5.8	35000	1197
5.7	33200	1185
5.6	31500	1173
5.5	29800	1162
STOP		

start here

Hodgdon 4227

Charge in grains	RGS™ .606" psi	fps
STOP		
* 15.1	35000	1444
15.0	34700	1436
14.8	34100	1422
14.6	33500	1407
14.4	33000	1392
14.2	32400	1378
14.0	31800	1363
13.8	31200	1348
13.6	30700	1334
13.4	30100	1319
13.2	29500	1304
13.0	29000	1290
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains	RGS™ .882" psi	fps
STOP		
7.7	35000	1331
7.6	34200	1317
7.5	33500	1303
7.4	32700	1289
7.3	32000	1275
7.2	31300	1261
7.1	30500	1247
7.0	29800	1233
6.9	29100	1219
6.8	28300	1206
6.7	27600	1192
6.6	26900	1178
6.5	26100	1164
6.4	25400	1150
6.3	24700	1136
6.2	23900	1122
6.1	23200	1108
6.0	22500	1095
STOP		

start here

IMR 4227

Charge in grains	RGS™ .553" psi	fps
STOP		
* 14.3	35000	1403
14.1	34500	1388
13.9	34100	1374
13.7	33700	1360
13.5	33300	1346
13.3	32800	1332
13.1	32400	1318
12.9	32000	1304
12.7	31600	1290
12.5	31200	1276
12.3	30700	1262
12.1	30300	1248
11.9	29900	1234
11.7	29500	1220
11.5	29100	1206
STOP		

start here

*Compressed load.

RGS™ See page 5.

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

IMR 700X

Charge in grains	RGS™ .778" psi	fps
STOP		
5.3	35000	1181
5.2	33900	1166
5.1	32800	1152
5.0	31700	1137
4.9	30700	1123
4.8	29600	1108
4.7	28500	1094
4.6	27400	1079
4.5	26400	1065
STOP		

start here

IMR SR7625

Charge in grains	RGS™ .277" psi	fps
STOP		
5.8	35000	1205
5.7	34000	1189
5.6	33100	1174
5.5	32200	1159
5.4	31300	1144
5.3	30400	1129
5.2	29400	1114
5.1	28500	1099
5.0	27600	1084
4.9	26700	1068
4.8	25800	1053
4.7	24800	1038
4.6	23900	1023
4.5	23000	1008
4.4	22100	993
4.3	21200	978
4.2	20300	963
STOP		

start here

Winchester 231

Charge in grains	RGS™ .536" psi	fps
STOP		
5.5	35000	1182
5.4	33800	1164
5.3	32600	1147
5.2	31400	1129
5.1	30200	1112
5.0	29100	1094
4.9	27900	1077
4.8	26700	1059
4.7	25500	1042
4.6	24300	1024
4.5	23200	1007
STOP		

start here

RGS™ See page 5.

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

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

Accurate Arms 9

Charge in grains	RGS™ .398" psi	fps
STOP		
11.5	35000	1444
11.4	34400	1433
11.3	33900	1423
11.2	33400	1413
11.1	32900	1403
11.0	32400	1393
10.9	31900	1383
10.8	31300	1373
10.7	30800	1363
10.6	30300	1353
10.5	29800	1343
10.4	29300	1333
10.3	28800	1323
10.2	28300	1313
10.1	27700	1303
10.0	27200	1293
9.9	26700	1283
9.8	26200	1273
9.7	25700	1263
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .719" psi	fps
STOP		
6.3	35000	1257
6.2	34100	1245
6.1	33300	1233
6.0	32500	1221
5.9	31700	1210
5.8	30800	1198
5.7	30000	1186
5.6	29200	1174
5.5	28400	1163
STOP		

start here

Hodgdon 4227

Charge in grains	RGS™ .761" psi	fps
STOP		
* 15.5	30800	1443
15.4	30600	1436
15.2	30300	1422
15.0	30000	1409
14.8	29700	1396
14.6	29500	1382
14.4	29200	1369
14.2	28900	1356
14.0	28600	1342
13.8	28300	1329
13.6	28000	1316
13.4	27700	1302
13.2	27400	1289
13.0	27200	1276
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains	RGS™ .674" psi	fps
STOP		
8.4	35000	1389
8.2	33700	1362
8.0	32400	1336
7.8	31100	1309
7.6	29800	1283
7.4	28500	1256
7.2	27300	1230
7.0	26000	1204
6.8	24700	1177
6.6	23400	1151
6.4	22100	1124
6.2	20800	1098
6.0	19600	1072
STOP		

start here

IMR 4227

Charge in grains	RGS™ .625" psi	fps
STOP		
* 15.3	35000	1432
15.1	34600	1420
14.9	34300	1409
14.7	33900	1398
14.5	33600	1387
14.3	33200	1375
14.1	32900	1364
13.9	32600	1353
13.7	32200	1342
13.5	31900	1331
13.3	31500	1319
13.1	31200	1308
12.9	30800	1297
12.7	30500	1286
12.5	30200	1275
12.3	29800	1263
12.1	29500	1252
11.9	29100	1241
STOP		

start here

*Compressed load.

RGS™ See page 5.

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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 700X

Charge in grains	RGS™ .778" psi	fps
STOP		
5.8	35000	1261
5.7	34200	1247
5.6	33400	1234
5.5	32600	1221
5.4	31800	1207
5.3	31000	1194
5.2	30200	1181
5.1	29500	1167
5.0	28700	1154
4.9	27900	1141
4.8	27100	1127
4.7	26300	1114
4.6	25500	1101
4.5	24800	1088
STOP		

start here

IMR SR7625

Charge in grains	RGS™ .398" psi	fps
STOP		
6.2	35000	1238
6.1	34100	1222
6.0	33200	1207
5.9	32300	1191
5.8	31400	1176
5.7	30500	1161
5.6	29600	1145
5.5	28700	1130
5.4	27800	1115
5.3	26900	1099
5.2	26100	1084
5.1	25200	1069
5.0	24300	1053
4.9	23400	1038
4.8	22500	1023
4.7	21600	1007
4.6	20700	992
4.5	19800	977
4.4	18900	961
STOP		

start here

Winchester 231

Charge in grains	RGS™ .346" psi	fps
STOP		
6.0	35000	1234
5.9	34000	1219
5.8	33000	1204
5.7	32100	1189
5.6	31100	1175
5.5	30200	1160
5.4	29200	1145
5.3	28300	1130
5.2	27300	1116
5.1	26400	1101
5.0	25400	1086
4.9	24500	1071
4.8	23500	1057
4.7	22600	1042
4.6	21600	1027
4.5	20700	1013
STOP		

start here

RGS™ See page 5.

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

Accurate Arms 9

Charge in grains	RGS™ .813" psi	fps
STOP		
11.5	35000	1437
11.4	34400	1427
11.3	33900	1417
11.2	33400	1407
11.1	32900	1397
11.0	32400	1387
10.9	31900	1377
10.8	31400	1368
10.7	30900	1358
10.6	30400	1348
10.5	29900	1338
10.4	29400	1328
10.3	28900	1318
10.2	28400	1308
10.1	27900	1299
10.0	27400	1289
9.9	26900	1279
9.8	26400	1269
9.7	25900	1259
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .965" psi	fps
STOP		
6.2	35000	1238
6.1	33800	1224
6.0	32600	1211
5.9	31400	1198
5.8	30300	1184
5.7	29100	1171
5.6	27900	1158
5.5	26800	1145
STOP		

start here

Hodgdon 4227

Charge in grains	RGS™ .778" psi	fps
STOP		
* 15.4	31100	1440
15.2	30900	1427
15.0	30700	1415
14.8	30500	1402
14.6	30300	1390
14.4	30100	1377
14.2	30000	1365
14.0	29800	1352
13.8	29600	1340
13.6	29400	1327
13.4	29200	1315
13.2	29000	1302
13.0	28900	1290
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains	RGS™ .623" psi	fps
STOP		
8.2	35000	1367
8.0	33600	1339
7.8	32200	1312
7.6	30800	1284
7.4	29500	1257
7.2	28100	1229
7.0	26700	1202
6.8	25300	1174
6.6	24000	1147
6.4	22600	1119
6.2	21200	1092
6.0	19900	1065
STOP		

start here

IMR 4227

Charge in grains	RGS™ .605" psi	fps
STOP		
* 15.6	35000	1455
15.4	34500	1441
15.1	33900	1421
14.8	33300	1402
14.5	32700	1382
14.2	32100	1362
13.9	31500	1342
13.6	30900	1322
13.3	30200	1302
13.0	29600	1283
12.7	29000	1263
12.4	28400	1243
12.1	27800	1223
11.8	27200	1203
11.5	26600	1184
STOP		

start here

*Compressed load.

RGS™See page 5.

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IMR 700X

Charge in grains	RGS™ .744" psi	fps
STOP		
5.7	35000	1243
5.6	34100	1230
5.5	33200	1217
5.4	32400	1205
5.3	31500	1192
5.2	30700	1179
5.1	29800	1167
5.0	28900	1154
4.9	28100	1141
4.8	27200	1129
4.7 start here	26400	1116
4.6	25500	1103
4.5	24700	1091
STOP		

IMR SR7625

Charge in grains	RGS™ .432" psi	fps
STOP		
6.1	35000	1227
6.0	34000	1211
5.9	33100	1195
5.8	32200	1179
5.7	31200	1163
5.6	30300	1148
5.5	29400	1132
5.4	28400	1116
5.3	27500	1100
5.2	26600	1084
5.1	25600	1069
5.0	24700	1053
4.9	23800	1037
4.8	22800	1021
4.7	21900	1005
4.6	21000	990
4.5 start here	20000	974
4.4	19100	958
4.3	18200	942
STOP		

Winchester 231

Charge in grains	RGS™ 1.024" psi	fps
STOP		
6.0	35000	1234
5.9	34100	1219
5.8	33200	1205
5.7	32300	1191
5.6	31400	1177
5.5	30500	1163
5.4	29600	1148
5.3	28700	1134
5.2	27800	1120
5.1	26900	1106
5.0	26000	1092
4.9	25100	1077
4.8	24200	1063
4.7	23300	1049
4.6 start here	22400	1035
4.5	21500	1021
STOP		

RGS™ See page 5.

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

Accurate Arms 9

Charge in grains	RGS™ .484" psi	fps
STOP		
11.5	35000	1437
11.4	34400	1427
11.3	33900	1417
11.2	33400	1407
11.1	32900	1397
11.0	32400	1387
10.9	31900	1377
10.8	31400	1367
10.7	30900	1357
10.6	30400	1347
10.5	29900	1337
10.4	29400	1327
10.3	28900	1317
10.2	28400	1307
10.1	27900	1297
10.0	27400	1287
9.9	26900	1277
9.8	26400	1267
9.7	25900	1257
STOP		

start here

Alliant Unique

Charge in grains	RGS™ .968" psi	fps
STOP		
6.1	35000	1236
6.0	33700	1220
5.9	32400	1205
5.8	31100	1189
5.7	29800	1174
5.6	28500	1158
5.5	27300	1143
STOP		

start here

Hodgdon 4227

Charge in grains	RGS™ .847" psi	fps
STOP		
* 15.4	30900	1433
15.2	30600	1420
15.0	30400	1408
14.8	30200	1396
14.6	30000	1384
14.4	29800	1372
14.2	29600	1360
14.0	29400	1347
13.8	29200	1335
13.6	29000	1323
13.4	28800	1311
13.2	28600	1299
13.0	28400	1287
STOP		

start here

*Compressed load.

Hodgdon HS-6

Charge in grains	RGS™ .323" psi	fps
STOP		
8.1	35000	1361
8.0	34200	1346
7.8	32800	1318
7.6	31300	1289
7.4	29800	1260
7.2	28400	1232
7.0	26900	1203
6.8	25400	1174
6.6	24000	1146
6.4	22500	1117
6.2	21000	1088
6.0	19600	1060
STOP		

start here

IMR 4227

Charge in grains	RGS™ .553" psi	fps
STOP		
* 15.5	35000	1436
15.3	34500	1424
15.1	34100	1412
14.9	33700	1400
14.7	33300	1388
14.5	32900	1376
14.3	32500	1364
14.1	32000	1352
13.9	31600	1340
13.7	31200	1328
13.5	30800	1316
13.3	30400	1304
13.1	30000	1292
12.9	29600	1280
12.7	29100	1268
12.5	28700	1256
12.3	28300	1244
12.1	27900	1232
STOP		

start here

*Compressed load.

RGS™See page 5.

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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IMR 700X

Charge in grains	RGS™ 1.025" psi	fps
STOP		
5.6	35000	1224
5.5	33900	1210
5.4	32900	1197
5.3	31800	1184
5.2	30800	1171
5.1	29800	1158
5.0	28700	1145
4.9	27700	1132
4.8	26700	1119
4.7	25600	1106
4.6	24600	1093
4.5	23600	1080
STOP		

start here

IMR SR7625

Charge in grains	RGS™ .346" psi	fps
STOP		
6.0	35000	1221
5.9	34000	1204
5.8	33000	1188
5.7	32100	1172
5.6	31100	1156
5.5	30100	1139
5.4	29200	1123
5.3	28200	1107
5.2	27300	1091
5.1	26300	1075
5.0	25300	1058
4.9	24400	1042
4.8	23400	1026
4.7	22500	1010
4.6	21500	993
4.5	20500	977
4.4	19600	961
4.3	18600	945
4.2	17700	929
STOP		

start here

Winchester 231

Charge in grains	RGS™ .554" psi	fps
STOP		
6.0	35000	1239
5.9	34000	1223
5.8	33100	1208
5.7	32100	1193
5.6	31200	1178
5.5	30200	1163
5.4	29300	1147
5.3	28300	1132
5.2	27400	1117
5.1	26400	1102
5.0	25500	1087
4.9	24500	1071
4.8	23600	1056
4.7	22600	1041
4.6	21700	1026
4.5	20800	1011
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.

RGS™ See page 5.

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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Cowboy Action shooting has breathed new life into many old designs. Bill Ruger brought out the single action Black Hawk in 1953 (upper right) with modern sights and coil springs. In 1986 Ruger introduced the Bisley (upper left), incorporating many of the features of the Colt Bisley Target model, including the target grip and adjustable sights. Capitalizing on the old west practice of one cartridge for both the rifle and handgun, lever action rifles in 357 Magnum remain popular. The Rossi Lever action, introduced in 1978, is a common choice.

357Magnum
.357" Diameter
160 grain
Sectional
Density .179

	Hornady CL/SIL	Speer SWC/SP
Ballistic Coefficient	.181	N/A
Ctg. Over All Length	1.575"	1.590"

Reducing Cartridge Over All Length increases pressure greatly.

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 psi

Hornady 160 gr CL/SIL

357 Magnum

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

RGS™ .276"

Charge in grains	psi	fps
STOP		
11.2	35000	1301
11.1	34400	1288
11.0	33900	1276
10.9	33400	1263
10.8	32900	1251
10.7	32400	1239
10.6	31800	1226
10.5	31300	1214
10.4	30800	1202
10.3	30300	1189
10.2	29800	1177
10.1	29300	1165
10.0	28700	1152
9.9	28200	1140
9.8	27700	1128
9.7	27200	1115
9.6	26700	1103
9.5	26200	1091
STOP		

start here

Hodgdon 110

RGS™ .260"

Charge in grains	psi	fps
STOP		
17.1	35000	1581
16.9	34600	1567
16.6	34200	1546
16.3	33700	1525
16.0	33300	1504
15.7	32800	1483
15.4	32300	1462
15.1	31900	1441
14.8	31400	1420
14.5	31000	1399
14.2	30500	1378
13.9	30000	1357
13.6	29600	1336
13.3	29100	1315
13.0	28700	1294
STOP		

start here

Hodgdon Lil' Gun

RGS™ .415"

Charge in grains	psi	fps
STOP		
* 17.0	28800	1498
16.8	28500	1487
16.6	28300	1477
16.4	28100	1467
16.2	27900	1457
16.0	27700	1447
15.8	27500	1437
15.6	27300	1427
15.4	27100	1416
15.2	26900	1406
15.0	26700	1396
14.8	26500	1386
14.6	26300	1376
14.4	26100	1366
14.2	25900	1356
14.0	25700	1346
STOP		

start here

*Compressed load.

IMR 4227

RGS™ .173"

Charge in grains	psi	fps
STOP		
* 14.7	35000	1319
14.5	34500	1305
14.3	34000	1291
14.1	33600	1277
13.9	33100	1264
13.7	32700	1250
13.5	32200	1236
13.3	31800	1222
13.1	31300	1209
12.9	30900	1195
12.7	30400	1181
12.5	30000	1168
STOP		

start here

*Compressed load.

Winchester 296

RGS™ .277"

Charge in grains	psi	fps
STOP		
16.5	35000	1585
16.4	34700	1577
16.2	34200	1561
16.0	33700	1545
15.8	33200	1529
15.6	32700	1514
15.4	32200	1498
15.2	31700	1482
15.0	31200	1466
14.8	30700	1451
14.6	30200	1435
14.4	29700	1419
14.2	29200	1403
14.0	28800	1388
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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

RGS™ .242"

Charge in grains	psi	fps
STOP		
10.9	35000	1336
10.8	34400	1324
10.7	33900	1313
10.6	33400	1302
10.5	32900	1291
10.4	32300	1279
10.3	31800	1268
10.2	31300	1257
10.1	30800	1246
10.0	30300	1235
9.9	29700	1223
9.8	29200	1212
9.7	28700	1201
9.6	28200	1190
9.5	27700	1179
STOP		

start here

Hodgdon 110

RGS™ .381"

Charge in grains	psi	fps
STOP		
16.7	35000	1633
16.6	34700	1624
16.4	34300	1608
16.2	33800	1592
16.0	33300	1576
15.8	32900	1559
15.6	32400	1543
15.4	31900	1527
15.2	31500	1510
15.0	31000	1494
14.8	30500	1478
14.6	30100	1462
14.4	29600	1445
14.2	29100	1429
14.0	28700	1413
13.8	28200	1397
13.6	27700	1380
13.4	27300	1364
13.2	26800	1348
STOP		

start here

Hodgdon Lil' Gun

RGS™ .398"

Charge in grains	psi	fps
STOP		
* 17.0	31300	1580
16.8	30800	1564
16.6	30300	1549
16.4	29900	1534
16.2	29400	1518
16.0	29000	1503
15.8	28500	1488
15.6	28000	1473
15.4	27600	1457
15.2	27100	1442
15.0	26700	1427
14.8	26200	1412
14.6	25700	1396
14.4	25300	1381
14.2	24800	1366
14.0	24400	1351
STOP		

start here

*Compressed load.

IMR 4227

RGS™ .311"

Charge in grains	psi	fps
STOP		
* 14.7	35000	1372
14.5	34400	1354
14.3	33900	1337
14.1	33300	1320
13.9	32800	1303
13.7	32200	1286
13.5	31700	1268
13.3	31100	1251
13.1	30600	1234
12.9	30000	1217
12.7	29500	1200
12.5	29000	1183
STOP		

start here

*Compressed load.

Winchester 296

RGS™ .363"

Charge in grains	psi	fps
STOP		
16.1	35000	1623
16.0	34600	1614
15.8	34000	1597
15.6	33400	1580
15.4	32800	1563
15.2	32200	1546
15.0	31600	1529
14.8	31000	1512
14.6	30400	1495
14.4	29800	1478
14.2	29200	1461
14.0	28600	1444
STOP		

start here

RGS™ See page 5.

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Smith and Wesson's Model 686 is very popular in IPSC and other handgun competitions. Above left is an example of a stock model with a speed loader. At left is a 686 customized for IPSC and PPC matches with a weight system on it to reduce the recoil. Above is a competition 686 for use in Bianchi style matches. The dot sight, barrel weight, and wings allow it to be used faster and more accurately. The L frame 686 was designed to withstand full-power loads better than the K frame and to correct some reliability problems found in the K frame.

357Magnum
.357" Diameter
170 grain
Sectional
Density .191

	Sierra FMJ	Sierra JHC
Ballistic Coefficient	.285	.190
Ctg. Over All Length	1.580"	1.570"

Reducing Cartridge Over All Length increases pressure greatly.

BULLET		PAGE
Sierra FMJ	Jacketed	150
Sierra JHC	Jacketed	151

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 psi

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

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

Alliant 2400

RGS™ .675"

Charge in grains	psi	fps
STOP		
10.2	35000	1226
10.1	34300	1213
10.0	33700	1200
9.9	33100	1188
9.8	32500	1175
9.7	31900	1163
9.6	31300	1150
9.5	30600	1137
9.4	30000	1125
9.3	29400	1112
9.2	28800	1100
9.1	28200	1087
9.0	27600	1075
STOP		

start here

Hodgdon 110

RGS™ .346"

Charge in grains	psi	fps
STOP		
15.1	35000	1482
15.0	34600	1473
14.8	33900	1455
14.6	33300	1437
14.4	32600	1420
14.2	31900	1402
14.0	31200	1384
13.8	30600	1366
13.6	29900	1349
13.4	29200	1331
13.2	28500	1313
13.0	27900	1296
STOP		

start here

Hodgdon Lil' Gun

RGS™ .242"

Charge in grains	psi	fps
STOP		
* 15.7	35000	1543
15.6	34600	1533
15.5	34200	1524
15.4	33900	1515
15.3	33500	1506
15.2	33100	1497
15.1	32800	1488
15.0	32400	1479
14.9	32000	1470
14.8	31700	1460
14.7	31300	1451
14.6	30900	1442
14.5	30600	1433
14.4	30200	1424
14.3	29800	1415
14.2	29500	1406
14.1	29100	1397
14.0	28800	1388
STOP		

start here

*Compressed load.

IMR 4227

RGS™ .277"

Charge in grains	psi	fps
STOP		
* 13.5	35000	1236
13.4	34700	1228
13.2	34200	1212
13.0	33800	1196
12.8	33300	1180
12.6	32800	1164
12.4	32300	1148
12.2	31800	1132
12.0	31400	1116
11.8	30900	1100
11.6	30400	1084
11.4	29900	1068
11.2	29400	1052
11.0	29000	1036
STOP		

start here

*Compressed load.

Winchester 296

RGS™ .138"

Charge in grains	psi	fps
STOP		
14.9	35000	1504
14.8	34700	1496
14.7	34500	1488
14.6	34200	1480
14.5	34000	1472
14.4	33700	1464
14.3	33500	1456
14.2	33200	1448
14.1	33000	1440
14.0	32700	1432
13.9	32500	1425
13.8	32200	1417
13.7	32000	1409
13.6	31700	1401
13.5	31500	1393
13.4	31200	1385
13.3	31000	1377
13.2	30700	1369
13.1	30500	1361
STOP		

start here

RGS™See page 5.

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

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

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

Alliant 2400

RGS™ .294"

Charge in grains	psi	fps
STOP		
10.2	35000	1239
10.1	34400	1228
10.0	33900	1218
9.9	33300	1208
9.8	32800	1198
9.7	32200	1188
9.6	31700	1178
9.5	31200	1168
9.4	30600	1158
9.3	30100	1148
9.2	29500	1138
9.1	29000	1128
9.0	28500	1118
STOP		

start here

Hodgdon 110

RGS™ .255"

Charge in grains	psi	fps
STOP		
15.1	35000	1486
15.0	34600	1477
14.8	33900	1460
14.6	33200	1442
14.4	32500	1425
14.2	31800	1408
14.0	31100	1391
13.8	30400	1373
13.6	29700	1356
13.4	29000	1339
13.2	28300	1322
13.0	27600	1305
STOP		

start here

Hodgdon Lil' Gun

RGS™ .588"

Charge in grains	psi	fps
STOP		
* 15.5	35000	1538
15.4	34500	1528
15.3	34100	1519
15.2	33700	1509
15.1	33200	1500
15.0	32800	1490
14.9	32400	1481
14.8	31900	1471
14.7	31500	1462
14.6	31100	1452
14.5	30600	1443
14.4	30200	1433
14.3	29800	1424
14.2	29300	1414
14.1	28900	1405
14.0	28500	1396
STOP		

start here

*Compressed load.

IMR 4227

RGS™ .329"

Charge in grains	psi	fps
STOP		
* 13.5	35000	1246
13.4	34800	1239
13.2	34400	1225
13.0	34000	1211
12.8	33700	1197
12.6	33300	1184
12.4	32900	1170
12.2	32600	1156
12.0	32200	1142
11.8	31800	1129
11.6	31500	1115
11.4	31100	1101
11.2	30700	1087
11.0	30400	1074
STOP		

start here

*Compressed load.

Winchester 296

RGS™ .207"

Charge in grains	psi	fps
STOP		
14.9	35000	1504
14.8	34700	1496
14.7	34500	1489
14.6	34300	1482
14.5	34100	1475
14.4	33900	1467
14.3	33700	1460
14.2	33500	1453
14.1	33300	1446
14.0	33100	1439
13.9	32800	1431
13.8	32600	1424
13.7	32400	1417
13.6	32200	1410
13.5	32000	1403
13.4	31800	1395
13.3	31600	1388
13.2	31400	1381
13.1	31200	1374
STOP		

start here

RGS™See page 5.

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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Introduced in 1954 as the "Lawman's Dream", at the urging of Bill Jordan, the Smith and Wesson Model 19, above, was the first medium sized 'K' frame Smith and Wesson chambered for the 357 Magnum. Available in 2 1/2", 4", or 6" barrel lengths the Model 19 came with a nickel or blued finish. The Model 66 was the stainless steel version.

Ruger's compact five shot SP101 quickly earned the nickname 'pocket rocket'. The recoil and the brilliant muzzle flash are as impressive as the ballistics in this compact firearm.

357Magnum

.357" Diameter
180 grain
Sectional
Density .202

	Hornady CL/SIL	Hornady HP/XTP	Nosler PAR/HG	Nosler SIL	Remington JHP	Sierra FPJ	Speer TMJ
Ballistic Coefficient	.232	N/A	N/A	.210	N/A	N/A	.230
Ctg. Over All Length	1.590"	1.570"	1.555"	1.575"	1.590"	1.590"	1.590"

Reducing Cartridge Over All Length increases pressure greatly.

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 psi

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

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

Accurate Arms 7

RGS™ .536"

Charge in grains	psi	fps
STOP		
9.1	35000	1172
9.0	34300	1156
8.9	33700	1141
8.8	33100	1125
8.7	32400	1110
8.6	31800	1095
8.5	31200	1079
8.4	30600	1064
8.3	29900	1049
8.2	29300	1033
8.1	28700	1018
8.0	28100	1003
STOP		

start here

Accurate Arms 9

RGS™ .605"

Charge in grains	psi	fps
STOP		
10.1	35000	1123
10.0	34300	1108
9.9	33700	1093
9.8	33100	1078
9.7	32500	1064
9.6	31900	1049
9.5	31300	1034
9.4	30700	1019
9.3	30100	1005
9.2	29500	990
9.1	28900	975
9.0	28300	960
8.9	27700	946
8.8	27100	931
8.7	26500	916
8.6	25900	901
8.5	25300	887
STOP		

start here

Alliant 2400

RGS™ 1.072"

Charge in grains	psi	fps
STOP		
10.3	35000	1169
10.2	34500	1155
10.0	33500	1129
9.8	32500	1103
9.6	31500	1077
9.4	30500	1050
9.2	29500	1024
9.0	28500	998
8.8	27500	972
8.6	26500	945
8.4	25500	919
8.2	24500	893
8.0	23600	867
STOP		

start here

Alliant Blue Dot

RGS™ .260"

Charge in grains	psi	fps
STOP		
7.7	35000	1111
7.6	34200	1093
7.5	33500	1075
7.4	32700	1057
7.3	32000	1039
7.2	31200	1021
7.1	30500	1003
7.0	29800	985
6.9	29000	967
6.8	28300	949
6.7	27500	931
6.6	26800	913
6.5	26100	895
STOP		

start here

Hodgdon 110

RGS™ .415"

Charge in grains	psi	fps
STOP		
14.8	35000	1425
14.6	34600	1409
14.4	34300	1393
14.2	34000	1378
14.0	33600	1362
13.8	33300	1346
13.6	33000	1331
13.4	32700	1315
13.2	32300	1299
13.0	32000	1284
12.8	31700	1268
12.6	31300	1252
12.4	31000	1237
12.2	30700	1221
12.0	30400	1206
STOP		

start here

RGS™ See page 5.

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

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

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WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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 4227

Charge in grains	RGS™ .952" psi	fps
STOP		
* 13.4	35000	1208
13.2	34300	1188
13.0	33700	1168
12.8	33100	1149
12.6	32500	1129
12.4	31900	1110
12.2	31300	1090
12.0	30700	1070
11.8	30100	1051
11.6	29500	1031
11.4	28900	1012
11.2	28300	992
11.0	27700	973
STOP		

start here

*Compressed load.

Hodgdon Lil' Gun

Charge in grains	RGS™ .623" psi	fps
STOP		
* 14.9	35000	1415
14.7	34500	1403
14.5	34100	1391
14.3	33600	1379
14.1	33200	1367
13.9	32700	1356
13.7	32300	1344
13.5	31900	1332
13.3	31400	1320
13.1	31000	1309
12.9	30500	1297
12.7	30100	1285
12.5	29700	1273
12.3	29200	1262
12.1	28800	1250
11.9	28300	1238
11.7	27900	1226
11.5	27500	1215
STOP		

start here

*Compressed load.

IMR 4227

Charge in grains	RGS™ .865" psi	fps
STOP		
12.7	35000	1137
12.6	34700	1127
12.4	34200	1107
12.2	33700	1088
12.0	33200	1068
11.8	32700	1049
11.6	32100	1029
11.4	31600	1010
11.2	31100	990
11.0	30600	971
10.8	30100	951
10.6	29600	932
10.4	29100	912
10.2	28600	893
10.0	28100	874
STOP		

start here

VihtaVuori N110

Charge in grains	RGS™ .242" psi	fps
STOP		
11.4	35000	1268
11.2	34000	1241
11.0	33000	1215
10.8	32000	1189
10.6	31000	1162
10.4	30000	1136
10.2	29000	1110
10.0	28000	1083
9.8	27000	1057
9.6	26000	1031
9.4	25000	1004
9.2	24000	978
9.0	23100	952
STOP		

start here

Winchester 296

Charge in grains	RGS™ .346" psi	fps
STOP		
14.3	35000	1420
14.2	34700	1410
14.1	34500	1401
14.0	34300	1392
13.9	34000	1382
13.8	33800	1373
13.7	33600	1364
13.6	33300	1355
13.5	33100	1345
13.4	32900	1336
13.3	32600	1327
13.2	32400	1317
13.1	32200	1308
13.0	31900	1299
12.9	31700	1290
12.8	31500	1280
12.7	31200	1271
12.6	31000	1262
12.5	30800	1253
STOP		

start here

RGS™ See page 5.

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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 7

RGS™ .761"

Charge in grains	psi	fps
STOP		
9.2	35000	1202
9.1	34300	1188
9.0	33600	1174
8.9	33000	1160
8.8	32300	1146
8.7	31600	1132
8.6	31000	1118
8.5	30300	1104
8.4	29600	1090
8.3	29000	1076
8.2	28300	1062
8.1	27600	1048
8.0	27000	1034
STOP		

start here

Accurate Arms 9

RGS™ .519"

Charge in grains	psi	fps
STOP		
10.2	35000	1119
10.1	34300	1108
10.0	33700	1098
9.9	33100	1088
9.8	32500	1078
9.7	31900	1068
9.6	31300	1058
9.5	30700	1048
9.4	30100	1038
9.3	29500	1028
9.2	28900	1018
9.1	28300	1008
9.0	27700	998
8.9	27100	988
8.8	26500	978
8.7	25900	968
8.6	25300	958
8.5	24700	948
STOP		

start here

Alliant 2400

RGS™ 1.055"

Charge in grains	psi	fps
STOP		
10.3	35000	1169
10.2	34400	1156
10.0	33400	1131
9.8	32300	1106
9.6	31300	1081
9.4	30300	1056
9.2	29200	1031
9.0	28200	1006
8.8	27100	981
8.6	26100	956
8.4	25000	931
8.2	24000	906
8.0	23000	881
STOP		

start here

Alliant Blue Dot

RGS™ .173"

Charge in grains	psi	fps
STOP		
7.6	35000	1102
7.5	34100	1079
7.4	33200	1056
7.3	32300	1033
7.2	31400	1010
7.1	30500	987
7.0	29600	964
6.9	28700	941
6.8	27800	918
6.7	26900	895
6.6	26000	872
6.5	25200	850
STOP		

start here

Hodgdon 110

RGS™ .398"

Charge in grains	psi	fps
STOP		
* 14.5	35000	1401
14.4	34700	1392
14.2	34200	1376
14.0	33700	1360
13.8	33200	1343
13.6	32700	1327
13.4	32200	1311
13.2	31700	1294
13.0	31200	1278
12.8	30700	1262
12.6	30200	1245
12.4	29700	1229
12.2	29200	1213
12.0	28800	1197
STOP		

start here

*Compressed load.

RGS™See page 5.

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

Hodgdon 4227

Charge in grains	RGS™ .934" psi	fps
STOP		
* 13.4	35000	1208
13.2	34300	1188
13.0	33700	1168
12.8	33100	1148
12.6	32400	1128
12.4	31800	1108
12.2	31200	1088
12.0	30500	1068
11.8	29900	1048
11.6	29300	1028
11.4	28600	1008
start here 11.2	28000	988
11.0	27400	968
STOP		

*Compressed load.

Hodgdon Lil' Gun

Charge in grains	RGS™ .328" psi	fps
STOP		
14.5	35000	1420
14.3	34400	1405
14.1	33900	1390
13.9	33400	1376
13.7	32900	1361
13.5	32400	1347
13.3	31900	1332
13.1	31400	1318
12.9	30900	1303
12.7	30400	1289
12.5	29900	1274
12.3	29400	1260
12.1	28900	1245
start here 11.9	28400	1231
11.7	27900	1216
11.5	27400	1202
STOP		

IMR 4227

Charge in grains	RGS™ .190" psi	fps
STOP		
12.6	35000	1145
12.4	34500	1125
12.2	34000	1105
12.0	33500	1085
11.8	33000	1065
11.6	32600	1046
11.4	32100	1026
11.2	31600	1006
11.0	31100	986
10.8	30700	967
10.6	30200	947
10.4	29700	927
start here 10.2	29200	907
10.0	28800	888
STOP		

VihtaVuori N110

Charge in grains	RGS™ .207" psi	fps
STOP		
11.5	35000	1293
11.4	34400	1278
11.2	33400	1250
11.0	32400	1222
10.8	31400	1193
10.6	30400	1165
10.4	29400	1137
10.2	28300	1108
10.0	27300	1080
9.8	26300	1052
9.6	25300	1023
9.4	24300	995
start here 9.2	23300	967
9.0	22300	939
STOP		

Winchester 296

Charge in grains	RGS™ .208" psi	fps
STOP		
13.8	35000	1387
13.7	34700	1378
13.6	34500	1369
13.5	34200	1360
13.4	34000	1351
13.3	33700	1342
13.2	33500	1333
13.1	33200	1324
13.0	33000	1315
12.9	32700	1306
12.8	32500	1297
12.7	32200	1288
12.6	32000	1279
start here 12.5	31800	1271
STOP		

RGS™ See page 5.

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

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

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

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

Accurate Arms 7

RGS™ .173"

Charge in grains	psi	fps
STOP		
8.4	35000	1102
8.3	33900	1083
8.2	32900	1064
8.1	31900	1045
8.0	30900	1027
STOP		

start here

Accurate Arms 9

RGS™ .553"

Charge in grains	psi	fps
STOP		
9.5	35000	1076
9.4	34200	1059
9.3	33500	1042
9.2	32800	1025
9.1	32000	1009
9.0	31300	992
8.9	30600	975
8.8	29800	959
8.7	29100	942
8.6	28400	925
8.5	27700	909
STOP		

start here

Alliant 2400

RGS™ .346"

Charge in grains	psi	fps
STOP		
9.3	35000	1062
9.2	34400	1045
9.1	33900	1029
9.0	33300	1013
8.9	32800	996
8.8	32200	980
8.7	31700	964
8.6	31100	947
8.5	30600	931
8.4	30000	915
8.3	29500	898
8.2	28900	882
8.1	28400	866
8.0	27900	850
STOP		

start here

Alliant Blue Dot

RGS™ .294"

Charge in grains	psi	fps
STOP		
6.8	35000	955
6.7	33900	928
6.6	32800	901
6.5	31700	874
6.4	30600	848
6.3	29500	821
6.2	28400	794
6.1	27300	767
6.0	26200	741
STOP		

start here

Hodgdon 110

RGS™ .346"

Charge in grains	psi	fps
STOP		
13.2	35000	1315
13.1	34400	1303
13.0	33800	1292
12.9	33200	1281
12.8	32700	1270
12.7	32100	1259
12.6	31500	1248
12.5	30900	1236
12.4	30400	1225
12.3	29800	1214
12.2	29200	1203
12.1	28600	1192
12.0	28100	1181
STOP		

start here

RGS™ See page 5.

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

Hodgdon 4227

Charge in grains	RGS™ .242 psi	fps
STOP		
* 11.9	35000	1076
11.8	34300	1061
11.7	33600	1046
11.6	32900	1031
11.5	32200	1016
11.4	31500	1001
11.3	30800	986
11.2	30100	971
start here 11.1	29400	956
11.0	28800	941
STOP		

*Compressed load.

Hodgdon Lil' Gun

Charge in grains	RGS™ .640" psi	fps
STOP		
12.0	35000	1270
11.9	34600	1261
11.8	34300	1253
11.7	33900	1245
11.6	33600	1237
11.5	33300	1229
11.4	32900	1220
11.3	32600	1212
11.2	32200	1204
11.1	31900	1196
11.0	31600	1188
10.9	31200	1179
10.8	30900	1171
10.7	30500	1163
10.6	30200	1155
10.5	29900	1147
10.4	29500	1138
start here 10.3	29200	1130
10.2	28800	1122
STOP		

IMR 4227

Charge in grains	RGS™ .432" psi	fps
STOP		
11.1	35000	974
11.0	34600	960
10.8	33900	932
10.6	33300	904
10.4	32600	876
10.2	31900	848
10.0	31200	820
9.8	30600	792
9.6	29900	764
9.4	29200	736
start here 9.2	28500	708
9.0	27900	680
STOP		

VihtaVuori N110

Charge in grains	RGS™ .260" psi	fps
STOP		
10.4	35000	1177
10.3	34400	1159
10.2	33800	1141
10.1	33200	1123
10.0	32700	1105
9.9	32100	1088
9.8	31500	1070
9.7	31000	1052
9.6	30400	1034
9.5	29800	1016
9.4	29300	999
9.3	28700	981
9.2	28100	963
9.1	27600	945
9.0	27000	927
8.9	26400	910
8.8	25900	892
start here 8.7	25300	874
8.6	24700	856
STOP		

RGS™See page 5.

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

Accurate Arms 7

Charge in grains	RGS™ .553" psi	fps
STOP		
9.2	35000	1209
9.1	34300	1195
9.0	33700	1181
8.9	33100	1167
8.8	32400	1153
8.7	31800	1139
8.6	31200	1125
8.5	30500	1111
8.4	29900	1097
8.3	29300	1083
8.2	28600	1069
8.1	28000	1055
8.0	27400	1042
STOP		

start here

Accurate Arms 9

Charge in grains	RGS™ .104" psi	fps
STOP		
10.2	35000	1165
10.1	34300	1152
10.0	33700	1139
9.9	33100	1126
9.8	32500	1113
9.7	31900	1100
9.6	31300	1087
9.5	30700	1074
9.4	30100	1061
9.3	29500	1048
9.2	28900	1035
9.1	28300	1022
9.0	27700	1009
8.9	27100	996
8.8	26500	983
8.7	25900	970
8.6	25300	957
8.5	24700	944
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .173" psi	fps
STOP		
9.8	35000	1148
9.7	34400	1133
9.6	33800	1118
9.5	33200	1104
9.4	32600	1089
9.3	32000	1075
9.2	31500	1060
9.1	30900	1046
9.0	30300	1031
8.9	29700	1017
8.8	29100	1002
8.7	28500	987
8.6	28000	973
8.5	27400	958
8.4	26800	944
8.3	26200	929
8.2	25600	915
8.1	25000	900
8.0	24500	886
STOP		

start here

Alliant Blue Dot

Charge in grains	RGS™ .294" psi	fps
STOP		
7.5	35000	1095
7.4	34000	1074
7.3	33100	1054
7.2	32200	1033
7.1	31300	1013
7.0	30400	992
6.9	29500	972
6.8	28600	951
6.7	27700	931
6.6	26800	910
6.5	25900	890
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .298" psi	fps
STOP		
* 13.7	35000	1358
13.6	34700	1348
13.5	34400	1339
13.4	34100	1330
13.3	33800	1321
13.2	33500	1312
13.1	33300	1303
13.0	33000	1294
12.9	32700	1285
12.8	32400	1275
12.7	32100	1266
12.6	31800	1257
12.5	31600	1248
12.4	31300	1239
12.3	31000	1230
12.2	30700	1221
12.1	30400	1212
12.0	30200	1203
STOP		

start here

*Compressed load.

RGS™ See page 5.

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Hodgdon 4227

Charge in grains	RGS™ .242" psi	fps
STOP		
* 12.6	35000	1189
12.5	34500	1175
12.4	34100	1162
12.3	33700	1149
12.2	33300	1136
12.1	32900	1123
12.0	32500	1110
11.9	32100	1097
11.8	31700	1084
11.7	31200	1070
11.6	30800	1057
11.5	30400	1044
11.4	30000	1031
11.3	29600	1018
start here 11.2	29200	1005
11.1	28800	992
11.0	28400	979
STOP		

*Compressed load.

Hodgdon Lil' Gun

Charge in grains	RGS™ .484" psi	fps
STOP		
12.5	35000	1315
12.4	34500	1308
12.3	34100	1302
12.2	33600	1296
12.1	33200	1290
12.0	32700	1284
11.9	32300	1277
11.8	31800	1271
start here 11.7	31400	1265
11.6	30900	1259
11.5	30500	1253
STOP		

IMR 4227

Charge in grains	RGS™ .240" psi	fps
STOP		
12.0	35000	1130
11.9	34700	1118
11.8	34500	1106
11.7	34200	1094
11.6	34000	1082
11.5	33700	1071
11.4	33500	1059
11.3	33200	1047
11.2	33000	1035
11.1	32700	1023
11.0	32500	1012
10.9	32200	1000
10.8	32000	988
10.7	31700	976
10.6	31500	964
10.5	31200	953
start here 10.4	31000	941
10.3	30700	929
10.2	30500	917
STOP		

VihtaVuori N110

Charge in grains	RGS™ .245" psi	fps
STOP		
11.1	35000	1268
11.0	34400	1253
10.8	33400	1225
10.6	32300	1197
10.4	31200	1169
10.2	30200	1141
10.0	29100	1112
9.8	28000	1084
9.6	27000	1056
9.4	25900	1028
start here 9.2	24800	1000
9.0	23800	972
STOP		

RGS™ See page 5.

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Accurate Arms 7

RGS™ .225"

Charge in grains	psi	fps
STOP		
9.5	35000	1259
9.4	34300	1245
9.3	33700	1232
9.2	33100	1219
9.1	32500	1206
9.0	31900	1193
8.9	31200	1180
8.8	30600	1167
8.7	30000	1154
8.6	29400	1141
8.5	28800	1128
8.4	28100	1115
8.3	27500	1102
8.2	26900	1089
8.1	26300	1076
8.0	25700	1063
STOP		

start here

Accurate Arms 9

RGS™ .726"

Charge in grains	psi	fps
STOP		
10.5	35000	1215
10.4	34400	1203
10.3	33900	1192
10.2	33300	1180
10.1	32800	1169
10.0	32200	1158
9.9	31700	1146
9.8	31100	1135
9.7	30600	1123
9.6	30000	1112
9.5	29500	1101
9.4	28900	1089
9.3	28400	1078
9.2	27800	1066
9.1	27300	1055
9.0	26700	1044
8.9	26200	1032
8.8	25600	1021
8.7	25100	1009
STOP		

start here

Alliant 2400

RGS™ .507"

Charge in grains	psi	fps
STOP		
10.4	35000	1216
10.2	33800	1192
10.0	32700	1169
9.8	31600	1146
9.6	30500	1123
9.4	29400	1099
9.2	28300	1076
9.0	27200	1053
8.8	26100	1030
8.6	25000	1006
8.4	23900	983
8.2	22800	960
8.0	21700	937
STOP		

start here

Alliant Blue Dot

RGS™ .346"

Charge in grains	psi	fps
STOP		
7.7	35000	1168
7.6	34100	1148
7.5	33200	1129
7.4	32300	1109
7.3	31400	1090
7.2	30500	1070
7.1	29600	1051
7.0	28700	1032
6.9	27800	1012
6.8	26900	993
6.7	26000	973
6.6	25100	954
6.5	24200	935
STOP		

start here

Hodgdon 110

RGS™ .449"

Charge in grains	psi	fps
STOP		
15.1	35000	1476
15.0	34700	1467
14.8	34100	1450
14.6	33500	1433
14.4	33000	1416
14.2	32400	1399
14.0	31900	1382
13.8	31300	1365
13.6	30700	1348
13.4	30200	1331
13.2	29600	1314
13.0	29100	1297
12.8	28500	1280
12.6	27900	1263
12.4	27400	1246
12.2	26800	1229
12.0	26300	1212
STOP		

start here

RGS™See page 5.

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Hodgdon 4227

Charge in grains	RGS™ .190" psi	fps
STOP		
* 14.0	35000	1276
13.8	34400	1259
13.6	33900	1242
13.4	33400	1226
13.2	32900	1209
13.0	32400	1192
12.8	31900	1176
12.6	31400	1159
12.4	30900	1142
12.2	30400	1126
12.0	29900	1109
11.8	29400	1092
11.6	28900	1076
11.4	28400	1059
11.2	27900	1042
11.0	27400	1026
STOP		

start here

*Compressed load.

Hodgdon Lil' Gun

Charge in grains	RGS™ .692" psi	fps
STOP		
* 15.0	30500	1432
14.9	30300	1425
14.7	30000	1412
14.5	29700	1399
14.3	29400	1386
14.1	29100	1373
13.9	28800	1360
13.7	28500	1347
13.5	28200	1334
13.3	27900	1321
13.1	27600	1308
12.9	27300	1295
12.7	27000	1282
12.5	26700	1269
12.3	26400	1256
12.1	26100	1243
11.9	25800	1230
11.7	25500	1217
STOP		

start here

*Compressed load.

IMR 4227

Charge in grains	RGS™ .501" psi	fps
STOP		
13.3	35000	1229
13.2	34700	1220
13.0	34300	1203
12.8	33900	1186
12.6	33400	1169
12.4	33000	1152
12.2	32600	1135
12.0	32100	1118
11.8	31700	1101
11.6	31200	1084
11.4	30800	1067
11.2	30400	1050
11.0	29900	1033
10.8	29500	1016
10.6	29100	999
10.4	28600	982
10.2	28200	965
10.0	27800	949
STOP		

start here

VihtaVuori N110

Charge in grains	RGS™ .311" psi	fps
STOP		
12.1	35000	1352
12.0	34500	1340
11.8	33700	1316
11.6	32900	1293
11.4	32000	1270
11.2	31200	1246
11.0	30300	1223
10.8	29500	1200
10.6	28700	1176
10.4	27800	1153
10.2	27000	1130
10.0	26100	1106
9.8	25300	1083
9.6	24500	1060
9.4	23600	1036
9.2	22800	1013
9.0	22000	990
STOP		

start here

Winchester 296

Charge in grains	RGS™ .260" psi	fps
STOP		
14.4	35000	1447
14.3	34600	1438
14.2	34200	1429
14.1	33800	1420
14.0	33500	1411
13.9	33100	1403
13.8	32700	1394
13.7	32300	1385
13.6	32000	1376
13.5	31600	1367
13.4	31200	1359
13.3	30800	1350
13.2	30500	1341
13.1	30100	1332
13.0	29700	1323
12.9	29300	1315
12.8	29000	1306
12.7	28600	1297
12.6	28200	1288
STOP		

start here

RGS™See page 5.

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Accurate Arms 7

Charge in grains	RGS™ .726" psi	fps
STOP		
9.4	35000	1202
9.3	34400	1188
9.2	33800	1175
9.1	33200	1161
9.0	32700	1148
8.9	32100	1134
8.8	31500	1121
8.7	31000	1107
8.6	30400	1094
8.5	29800	1080
8.4	29200	1067
8.3	28700	1053
start here 8.2	28100	1040
8.1	27500	1026
8.0	27000	1013
STOP		

Accurate Arms 9

Charge in grains	RGS™ .709" psi	fps
STOP		
10.4	35000	1180
10.3	34400	1164
10.2	33800	1149
10.1	33200	1134
10.0	32600	1118
9.9	32000	1103
9.8	31400	1088
9.7	30800	1072
9.6	30200	1057
9.5	29600	1042
9.4	29100	1026
9.3	28500	1011
9.2	27900	996
9.1	27300	980
9.0	26700	965
8.9	26100	950
start here 8.8	25500	934
8.7	24900	919
8.6	24300	904
STOP		

Alliant 2400

Charge in grains	RGS™ .086" psi	fps
STOP		
10.2	35000	1154
10.0	33900	1123
9.8	32800	1092
9.6	31700	1062
9.4	30600	1031
9.2	29500	1000
9.0	28500	970
8.8	27400	939
8.6	26300	908
8.4	25200	878
start here 8.2	24100	847
8.0	23100	817
STOP		

Alliant Blue Dot

Charge in grains	RGS™ .449" psi	fps
STOP		
7.5	35000	1055
7.4	34100	1035
7.3	33300	1015
7.2	32500	996
7.1	31700	976
7.0	30900	957
6.9	30100	937
6.8	29300	917
start here 6.7	28500	898
6.6	27700	878
6.5	26900	859
STOP		

Hodgdon 110

Charge in grains	RGS™ .397" psi	fps
STOP		
14.6	35000	1410
14.4	34600	1393
14.2	34200	1376
14.0	33800	1360
13.8	33400	1343
13.6	33000	1327
13.4	32600	1310
13.2	32200	1294
13.0	31800	1277
12.8	31400	1261
12.6	31000	1244
start here 12.4	30600	1228
12.2	30200	1211
12.0	29800	1195
STOP		

RGS™ See page 5.

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Hodgdon 4227

RGS™ 1.107"

Charge in grains	psi	fps
STOP		
* 13.4	35000	1211
13.2	34400	1192
13.0	33900	1173
12.8	33300	1154
12.6	32800	1135
12.4	32200	1116
12.2	31700	1097
12.0	31200	1078
11.8	30600	1059
11.6	30100	1040
11.4	29500	1021
start here 11.2	29000	1002
11.0	28500	983
STOP		

*Compressed load.

Hodgdon Lil' Gun

RGS™ .657"

Charge in grains	psi	fps
STOP		
* 14.8	35000	1435
14.7	34700	1428
14.5	34200	1414
14.3	33800	1400
14.1	33300	1386
13.9	32800	1372
13.7	32400	1358
13.5	31900	1344
13.3	31400	1330
13.1	30900	1317
12.9	30500	1303
12.7	30000	1289
12.5	29500	1275
12.3	29000	1261
12.1	28600	1247
start here 11.9	28100	1233
11.7	27600	1219
11.5	27200	1206
STOP		

*Compressed load.

IMR 4227

RGS™ .103"

Charge in grains	psi	fps
STOP		
12.7	35000	1169
12.6	34700	1158
12.4	34200	1138
12.2	33700	1117
12.0	33300	1096
11.8	32800	1076
11.6	32300	1055
11.4	31800	1035
11.2	31300	1014
11.0	30900	993
10.8	30400	973
10.6	29900	952
start here 10.4	29400	932
10.2	28900	911
10.0	28500	891
STOP		

VihtaVuori N110

RGS™ .260"

Charge in grains	psi	fps
STOP		
11.7	35000	1291
11.6	34600	1278
11.4	33800	1252
11.2	33000	1226
11.0	32200	1200
10.8	31400	1175
10.6	30600	1149
10.4	29800	1123
10.2	29000	1097
10.0	28200	1071
9.8	27400	1046
9.6	26600	1020
start here 9.4	25800	994
9.2	25000	968
9.0	24200	943
STOP		

Winchester 296

RGS™ .190"

Charge in grains	psi	fps
STOP		
14.0	35000	1397
13.9	34700	1387
13.8	34400	1378
13.7	34100	1368
13.6	33800	1359
13.5	33500	1350
13.4	33200	1340
13.3	32900	1331
13.2	32700	1321
13.1	32400	1312
13.0	32100	1303
12.9	31800	1293
12.8	31500	1284
start here 12.7	31200	1274
12.6	30900	1265
12.5	30700	1256
STOP		

RGS™ See page 5.

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Accurate Arms 7

Charge in grains	RGS™ .279" psi	fps
STOP		
8.6	35000	1110
8.5	33900	1091
8.4	32900	1073
8.3	31900	1055
8.2	30800	1036
8.1	29800	1018
8.0	28800	1000
STOP		

start here

Accurate Arms 9

Charge in grains	RGS™ .363" psi	fps
STOP		
10.1	35000	1121
10.0	34400	1107
9.9	33800	1094
9.8	33300	1080
9.7	32700	1067
9.6	32100	1054
9.5	31600	1040
9.4	31000	1027
9.3	30500	1014
9.2	29900	1000
9.1	29300	987
9.0	28800	973
8.9	28200	960
8.8	27600	947
8.7	27100	933
8.6	26500	920
8.5	26000	907
STOP		

start here

Alliant 2400

Charge in grains	RGS™ .173" psi	fps
STOP		
9.8	35000	1064
9.7	34400	1048
9.6	33900	1032
9.5	33300	1017
9.4	32800	1001
9.3	32200	985
9.2	31700	970
9.1	31100	954
9.0	30600	939
8.9	30000	923
8.8	29500	907
8.7	28900	892
8.6	28400	876
8.5	27800	861
8.4	27300	845
8.3	26700	829
8.2	26200	814
8.1	25600	798
8.0	25100	783
STOP		

start here

Alliant Blue Dot

Charge in grains	RGS™ .346" psi	fps
STOP		
7.2	35000	971
7.1	33800	946
7.0	32600	921
6.9	31500	896
6.8	30300	872
6.7	29200	847
6.6	28000	822
6.5	26900	798
STOP		

start here

Hodgdon 110

Charge in grains	RGS™ .398" psi	fps
STOP		
* 14.1	35000	1314
14.0	34700	1306
13.8	34300	1290
13.6	33900	1274
13.4	33500	1258
13.2	33100	1242
13.0	32600	1226
12.8	32200	1210
12.6	31800	1194
12.4	31400	1178
12.2	31000	1162
12.0	30600	1147
STOP		

start here

*Compressed load.

RGS™See page 5.

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Hodgdon 4227

RGS™ .778"

Charge in grains	psi	fps
STOP		
* 13.0	35000	1146
12.9	34700	1135
12.8	34400	1125
12.7	34100	1114
12.6	33900	1104
12.5	33600	1093
12.4	33300	1083
12.3	33000	1072
12.2	32800	1062
12.1	32500	1051
12.0	32200	1041
11.9	31900	1031
11.8	31700	1020
11.7	31400	1010
11.6	31100	999
11.5	30800	989
start here 11.4	30600	978
11.3	30300	968
STOP		

*Compressed load.

Hodgdon Lil' Gun

RGS™ .536"

Charge in grains	psi	fps
STOP		
* 13.8	28900	1276
13.7	28800	1269
13.5	28700	1257
13.3	28700	1245
13.1	28600	1233
12.9	28500	1220
12.7	28400	1208
12.5	28300	1196
12.3	28300	1184
12.1	28200	1171
start here 11.9	28100	1159
11.7	28000	1147
11.5	28000	1135
STOP		

*Compressed load.

IMR 4227

RGS™ .294"

Charge in grains	psi	fps
STOP		
12.1	35000	1095
12.0	34700	1081
11.8	34200	1053
11.6	33800	1025
11.4	33300	997
11.2	32800	969
11.0	32300	941
10.8	31900	913
10.6	31400	885
start here 10.4	30900	857
10.2	30400	829
10.0	30000	802
STOP		

VihtaVuori N110

RGS™ .588"

Charge in grains	psi	fps
STOP		
11.4	35000	1234
11.2	34100	1208
11.0	33200	1182
10.8	32400	1156
10.6	31500	1130
10.4	30700	1104
10.2	29800	1078
10.0	28900	1052
9.8	28100	1026
9.6	27200	1000
start here 9.4	26400	974
9.2	25500	948
9.0	24700	923
STOP		

Winchester 296

RGS™ .450"

Charge in grains	psi	fps
STOP		
13.2	35000	1302
13.1	34600	1295
13.0	34200	1288
12.9	33800	1281
12.8	33400	1274
12.7	33000	1267
12.6	32600	1260
start here 12.5	32300	1253
STOP		

RGS™ See page 5.

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357Magnum
.357" Diameter
200 grain
Sectional
Density .224

	Speer TMJ/SIL
Ballistic Coefficient	.236
Ctg. Over All Length	1.690"

Reducing Cartridge Over All Length increases pressure greatly.

BULLET	PAGE
Speer TMJ/SIL ..... Plated	169

See page 12 for bullet terminology information.

Gun	Universal Receiver	**Case**	Winchester
Barrel	H-S Precision	**Max Case Length**	1.290"
Length	10.0" with 1:18.75" twist	**Trim to Length**	1.270"
Primer	Winchester SPM	**Max OAL**	1.590"

Maximum Average Pressure (MAP) 35,000 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	RGS™ .328" psi	fps
STOP		
9.6	35000	1023
9.5	34300	1006
9.4	33600	990
9.3	33000	974
9.2	32300	957
9.1	31600	941
start here 9.0	31000	925
STOP		

Alliant 2400

Charge in grains	RGS™ .415" psi	fps
STOP		
9.1	35000	964
9.0	34100	942
8.9	33300	920
8.8	32400	899
8.7	31600	877
8.6	30700	855
start here 8.5	29900	834
STOP		

Hodgdon 110

Charge in grains	RGS™ 1.072" psi	fps
STOP		
12.5	35000	1189
12.4	34800	1180
12.2	34400	1162
12.0	34000	1144
11.8	33600	1126
11.6	33200	1109
11.4	32800	1091
11.2	32400	1073
11.0	32000	1055
10.8	31600	1038
10.6	31200	1020
10.4	30800	1002
10.2	30400	984
start here 10.0	30000	967
STOP		

Hodgdon Lil' Gun

Charge in grains	RGS™ .675" psi	fps
STOP		
* 12.7	35000	1227
12.6	34700	1218
12.4	34200	1201
12.2	33700	1184
12.0	33200	1167
11.8	32700	1151
11.6	32200	1134
11.4	31800	1117
11.2	31300	1100
11.0	30800	1083
10.8	30300	1066
10.6	29800	1049
10.4	29300	1033
10.2	28800	1016
10.0	28300	999
9.8	27800	982
9.6	27300	965
start here 9.4	26800	948
STOP		

IMR 4227

Charge in grains	RGS™ .259" psi	fps
STOP		
11.2	35000	955
11.0	34100	922
10.8	33200	890
10.6	32400	857
10.4	31500	825
10.2	30700	792
10.0	29800	760
9.8	29000	727
9.6	28100	695
9.4	27300	662
start here 9.2	26400	630
9.0	25600	598
STOP		

RGS™ See page 5.

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

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

WARNING: The data contained in this manual was created under strictly controlled conditions in the laboratories of Battenfeld Technologies, Inc. (See the section entitled "About this Manual" for additional important information regarding the controlled laboratory conditions.) Exactly follow the specifications and procedures in the LoadMAPs™. Exactly follow the precise combinations listed in this manual. The maximum load must never be exceeded. Obey the stop bars.

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

WARNING: Always begin in the 'start here' area of the green zone and work your loads up 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.

Favorite Loads

Bullet			Propellant	
Weight	Brand	Style	Weight	Brand
147	Hornady	HP/XTP	XXX	A5
Primer	Case	Overall Length	Lot number	Temperature
SP Win		1.169		

Range: 20 | Best Group: 1.2 | Average Group: 2.0 | Velocity (fps): XXXX

Gun: Springfield 1911 A1

Notes: This bullet shoots best with a. . .

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

Range: | 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:

SAMPLE

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

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

Favorite Loads

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

Best Group: 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.

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:

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:

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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.

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(continued from back cover)

ly available in seven different front and rear sight combinations, with barrels between 3-1/2" and 8-3/4" long. These guns were built on S&W's massive N-frame. The following year, Colt chambered their New Service and Shooting Master revolvers in .357.

Smith & Wesson was almost hamstrung out of the gate on the .357-they had to halt production on the gun during World War II in order to devote their full attention to the war effort. They resumed production on the .357 Magnum in 1948.

The .357 Magnum found immediate acceptance as a police round, in large part because of its ability to stop criminals in their tracks and penetrate automobiles. Because the first guns chambered in .357 Magnum were fairly expensive, widespread popularity would not come until the 1950s, when Bill Jordan approached Smith & Wesson with the idea of downsizing them. The collaboration between Jordan and S&W resulted in the Model 19, built on S&W's K-frame and sporting a 2-1/2", 4", or 6" barrel. The Model 19 was introduced in 1956. Over time, .357 Magnum handguns have become lighter, more compact, and less expensive with the introduction of new materials and designs. There are now even .357 Magnum revolvers, like the S&W 640, that are concealed carry guns. Its popularity has also grown with the introduction of new, recoil-absorbing grips and ported barrels, since one of the early complaints about the round was the ferocity of its recoil. This seems funny today, given the recoil of the .357's younger cousins: the .41 and .44 Magnums.

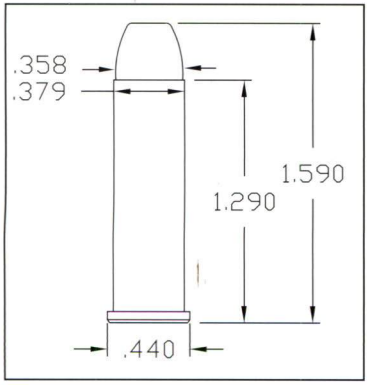
The standard factory load for the .357 Magnum was a 158 grain lead bullet, which was pushed at 1510 fps from an 8-3/4" barrel. Winchester loaded it first, but other manufacturers soon followed. One of the early complaints about this round was that it had a habit of "leading up" barrels-a problem that was occasionally (and unsatisfactorily) addressed by reducing the round's muzzle velocity, with a corresponding reduction of power. Another solution was to chamber .38 Special rounds in .357 Magnum handguns, a solution that had the advantage of greatly reducing recoil, but which defeated the purpose of having a "magnum" round in the first place. This particular practice was common in law enforcement-many agencies would issue .38 Special rounds at the target range and .357 Magnum rounds in the field. The 158 grain lead bullet nevertheless remained the signature round for .357 until the 1960s, when jacketed soft point rounds for the .357 Magnum finally began to appear. With the introduction of smaller guns, the variety of rounds available for the .357 has expanded.

The popularity of the .357 Magnum has declined somewhat from its peak. It has been superceded as the most powerful handgun round by the .44 Magnum and others. Many law enforcement agencies have abandoned the .357 Magnum in favor of high capacity autoloaders. But the .357's inherent versatility should ensure its popularity for years to come.

.357 Magnum

The .357 Magnum is one of the most balanced cartridges available for shooters who desire comfort and accuracy in addition to the stopping power of a magnum round. It has been widely used by police and it is capable of taking most kinds of game. With the Brady Bill's ban on magazines with a capacity higher than ten rounds, the .357 Magnum revolver is currently enjoying something of a renaissance.

The .357 Magnum round traces its lineage through its close relative, the .38 Special, back to the .38 Long Colt. Colt introduced the .38 Long Colt in 1875 in conjunction with their New Line, New Police, and New House Revolvers. The US military adopted the round in 1882. The military used this round primarily for Army and Navy model revolvers with swing-out cylinders after 1887. The .38 Long Colt was in service until 1911. The .38 Long Colt was never a very effective combat round. It saw action in the Spanish American War and in the Philippine Insurrection, where it became clear that the round was under-powered for combat use. The military ultimately replaced it with the Model 1911 in .45 ACP. The .38 Long Colt was destined for a long slide into obsolescence.



SAAMI Maximum Dimensions
Actual size

The introduction of the .38 Smith & Wesson Special (commonly called the .38 Special, for short) in 1902 addressed many of the flaws found in the .38 Long Colt. Intended to replace the .38 Long Colt, the .38 Special was not picked up by the military, but its accuracy and versatility made it a favorite of law enforcement, particularly in Colt's Police Positive (introduced in 1903) and Official Police (introduced in 1927) revolvers. A comfortable round to shoot, the .38 Special can be mastered by most shooters.

By the early 1930's, shooters like Elmer Keith and Philip B. Sharpe began to experiment with higher-pressure loads for the .38 Special in Smith & Wesson's triple lock revolvers. Their aim was to develop a hunting round. They ran the working pressures of the round up to 35,000 psi and above, much higher than the 20,000 psi common to the round. These loads were simply too much for the police-issue revolvers chambered in .38 Special. Major D. B. Wesson stepped up to the plate with a new gun built on Smith & Wesson's S-frame. The case was then lengthened by 1/10th of an inch to prevent it from being chambered in guns that aren't built to withstand it (This was not entirely successful: many older .38 Long Colt revolvers will chamber the .357 Magnum). The first production model chambered in .357 (the "magnum" would be added later) was presented to FBI director J. Edgar Hoover on April 8, 1935. The Smith & Wesson .357 Magnum was initial-

(continued on page 179)

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