

This is a unique reloading/information manual. It contains all currently available data regarding loading information for this individual cartridge. This data is compiled from the leading U.S. Bullet and gunpowder manufacturers.

This manual is not intended to replace the many comprehensive, in-depth reloading manuals available from a host of publishers, but instead provide you with a quick and easy-to-use reference source which will enable you to compare loads, types of powders, bullets and shot charges for components you may have on hand.

Loadbooks USA, Inc., also offers the following cartridges in this series of unique One Book/One Caliber reloading manuals: .22 Hornet, .220 Swift, .222 Remington, .223 Remington, .22-250 Remington, .225 Winchester, .243 Winchester, .244/6mm Remington, 6.5x55 Swedish, .25-06 Remington, .250-3000 Savage, .270 Winchester, 7x57 Mauser, 7mm-08 Remington, .280 Remington, 7mm Remington Magnum, 7.62x39mm, 7.62x54mm Russian, .30-30 Winchester, .303 British, .308 Winchester, .30-06 Springfield, .300 Winchester Magnum, .300 Weatherby Magnum, .300 Savage, 30/40 Krag, .300 & .375 H & H Magnum, .338 Winchester Magnum, 8mm Mauser, .356 & .358 Winchester, .35 Whelen, .35 Remington & .350 Remington Magnum, .375 & .458 Winchester, .45-70 Government, .32 H&R Magnum, .380 ACP, 9mm Luger, .38 Super, .38 Special, .357 Magnum, 10mm/.41 Auto, .41 Magnum, .44 Magnum, .44 Special, .45 ACP, .45 Colt and The Weatherby Magnums covering 10 different Weatherby calibers.

There's also two shotshell books—one for the 12 Gauge and the other combines data for the 20/28 Gauge and .410 bore. Plus there's a large (319 page) reloading manual covering 30 calibers for the Thompson/Center Contender single-shot pistol and the Remington XP-100 pistol.

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Printed in the United States

## *One Book / One Caliber*

# *The Complete Reloading Manual for the 7.62 x 54 Russian*



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**Containing Unabridged Information  
from U.S. Bullet  
and Powder Makers**

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*Accurate \* Hornady  
Lyman \* Sierra*

**480 Proven & Tested Loads  
37 Various Bullet Designs  
15 Different Powders**

## RELOADING SAFETY RULES

Reloading is an enjoyable and rewarding hobby that is easily conducted with safety. But, like many other human endeavors, carelessness or negligence can make reloading hazardous.

The essence of reloading safety is proper handling and storage of primers and powder. By observing the following rules, the chance of hazardous occurrence becomes extremely remote.

Store powder and primers beyond the reach of children and away from heat and open flames. Do not smoke when reloading.

Keep no more powder than needed in an open container. Immediately return unused powder to its original factory container.

Don't use any powder unless its identity is positively known. Scrap all mixed powders and those of uncertain or unknown identity.

Do not store primers in bulk. To do so is to create a bomb! Bulk primers will mass detonate. Do not use primers when their identity is lost. Safely dispose of unknown types of primers.

*Courtesy of Speer Reloading Manual No. 11*

All loading data contained in this book is the result of testing by the various bullet and powder manufacturers. Under carefully controlled conditions and with the components and test equipment specified, this data proved safe in their tests. Since none of the companies, nor the publisher, listed herein has control over the components and equipment which may be used with this published information, no responsibility is implied or assumed for results obtained through its use.

*Courtesy of Hornady Manufacturing Company, Inc.*

Sierra Bullets cannot and does not accept any liability, either expressed or implied, for results of damage or injury arising from or alleged to have arisen from the use of the data in this manual.

*Courtesy of Sierra Bullets*

Follow loading recommendations exactly. Don't substitute components for those listed. Start loading with the minimum powder charges. Understand what you are doing and why it must be done in a specific way. Stay alert when reloading. Don't reload when distracted, disturbed or tired.

*Courtesy of Nosler Bullets, Inc.*

# The Complete Reloading Manual for the 7.62 x 54 Russian

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*The publisher is deeply indebted to the following companies for their permission to reprint their proprietary reloading information found in this manual.*

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**Accurate Arms Company, Inc.**

**Blount, Inc.**

**Hornady Manufacturing Company**

**Lyman Products Corporation**

**Sierra Bullets, L.P.**

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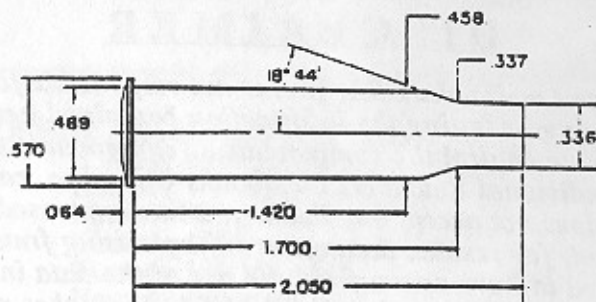
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## DISCLAIMER

## SHOOTER'S LOG

## 7.62 X 54 RUSSIAN - HORNADY BULLETS



### 7.62mm RUSSIAN

RIFLE: WESTINGHOUSE

BARREL: 31 1/2", 1 in 10" TWIST

CASE: NORMA

PRIMER: FEDERAL 210

BULLET DIAMETER: .308"

MAXIMUM C.O.L.: 3.105"

MAX. CASE LENGTH: 2.114"

CASE TRIM LENGTH: 2.104"

The 7.62 Russian (or 7.62x54R) is a rimmed, bottlenecked 30 caliber cartridge adopted as the service round of the Czar's Russian army in 1891, maintained as the standard service cartridge by both Czarist and Soviet armies through two world wars, and (with the Model 91 Mosin-Nagant rifles chambered for it) supplied in quantity to member nations of the Communist bloc. During World War I, Remington, Winchester, and New England Westinghouse all produced Mosin-Nagant Model 91's for the Russians. After the Soviet Revolution many of these U.S. manufactured weapons stayed in this country and were sold to the American shooting public. Other Nagant rifles entered the U.S. as captured war surplus following the Korean War. Finland also adopted this cartridge and produced Mosin-Nagant rifles, some of which have been imported into the U.S. Remington produced sporting ammunition for the 7.62 Russian until about 1950: Boxer primed cartridge brass and sporting loads today are available from Norma. Some Mosin-Nagants were improperly converted to fire the .30-06 cartridge. These conversions are extremely dangerous and should not be fired. The rifle is best left in its original caliber. As with all older military rifles, careful inspection by a knowledgeable gunsmith is highly recommended.

The 7.62mm Russian is a cartridge of more than historical interest. Soviet marksmen in international shooting competition have scored some remarkable successes with this cartridge, and big bore competitors from other nations have begun to take interest in the 7.62. For the target shooting fraternity we have therefore included loads for our 168 and 190 grain Boat Tail Hollow Point Match bullets.

## 7.62 X 54 RUSSIAN - HORNADY BULLETS

This cartridge should not be confused with the 7.62x39 cartridge developed for the SKS rifles and later used in AK-47 type rifles. This 7.62x39 is also sometimes referred to as 7.62 Russian.

### 110 GRAIN BULLETS:

|                    |       |
|--------------------|-------|
| SECTIONAL DENSITY: | .166  |
| DIAMETER:          | .308" |

#### #3010 SP

Ballistic Coefficient — .256

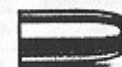
C.O.L. — 2.715"



#### #3015 RN

Ballistic Coefficient — .150

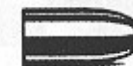
C.O.L. — 2.530"



#### #3017 FMJ

Ballistic Coefficient — .178

C.O.L. — 2.530"



| POWDER   | VELOCITY |          |          |          |          |
|----------|----------|----------|----------|----------|----------|
|          | 2600 fps | 2700 fps | 2800 fps | 2900 fps | 3000 fps |
| IMR 3031 |          | 42.0 gr. | 44.0 gr. | 46.0 gr. | 48.0 gr. |
| H4895    |          | 45.2 gr. | 47.3 gr. | 49.5 gr. | 51.7 gr. |
| H380     | 44.0 gr. | 46.2 gr. | 48.3 gr. | 50.4 gr. | 52.5 gr. |
| IMR 4320 |          | 46.4 gr. | 48.4 gr. | 50.5 gr. | 52.5 gr. |
| IMR 4064 |          | 47.0 gr. | 48.5 gr. | 50.0 gr. |          |
| WIN 760  | 52.0 gr. | 53.7 gr. | 55.3 gr. | 57.0 gr. |          |

Indicates maximum load - use with caution

## 7.62 X 54 RUSSIAN - HORNADY BULLETS

### 130 GRAIN BULLETS:

|                    |       |
|--------------------|-------|
| SECTIONAL DENSITY: | .196  |
| DIAMETER:          | .308" |

**#3020 SP**

Ballistic Coefficient — .295  
C.O.L. — 2.815"



| POWDER   | VELOCITY |          |          |          |          |
|----------|----------|----------|----------|----------|----------|
|          | 2600 fps | 2700 fps | 2800 fps | 2900 fps | 3000 fps |
| IMR 3031 | 41.0 gr. | 43.1 gr. | 45.2 gr. | 48.3 gr. | 49.4 gr. |
| H4895    | 45.0 gr. | 46.8 gr. | 48.5 gr. | 50.3 gr. |          |
| IMR 4064 | 45.4 gr. | 47.2 gr. | 48.7 gr. | 50.3 gr. |          |
| H380     | 45.3 gr. | 47.3 gr. | 49.2 gr. | 51.2 gr. |          |
| IMR 4320 | 45.0 gr. | 47.2 gr. | 49.3 gr. | 51.5 gr. | 53.7 gr. |
| WIN 760  | 52.5 gr. | 54.2 gr. | 56.0 gr. |          |          |

 Indicates maximum load • use with caution

## SHOOTER'S LOG

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the paper.

## 7.62 X 54 RUSSIAN - HORNADY BULLETS

### 150 GRAIN BULLETS:

SECTIONAL DENSITY: .226  
DIAMETER: .308"

**#3031 SP**

Ballistic Coefficient — .338  
C.O.L. — 2.825"



**#3033 BTSP**

Ballistic Coefficient — .349  
C.O.L. — 2.831"



**#3035 RN**

Ballistic Coefficient — .186  
C.O.L. — 2.595"



## #3037 FMJ-BT

**Ballistic Coefficient — .398**  
**C.O.L. — 2.853"**



| POWDER   | VELOCITY |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|
|          | 2400 fps | 2500 fps | 2600 fps | 2700 fps | 2800 fps | 2900 fps |
| IMR 3031 | 38.2 gr. | 40.3 gr. | 42.3 gr. | 44.4 gr. |          |          |
| H4895    | 41.3 gr. | 43.3 gr. | 45.2 gr. | 47.2 gr. | 49.2 gr. |          |
| IMR 4064 | 42.5 gr. | 44.1 gr. | 45.8 gr. | 47.4 gr. | 49.1 gr. |          |
| IMR 4320 | 42.7 gr. | 44.6 gr. | 46.5 gr. | 48.4 gr. | 50.2 gr. |          |
| H380     |          | 44.0 gr. | 46.3 gr. | 48.6 gr. | 51.9 gr. | 53.2 gr. |
| WIN 760  | 49.0 gr. | 50.7 gr. | 52.4 gr. | 54.1 gr. | 55.9 gr. |          |

 Indicates maximum load • use with caution

## SHOOTER'S LOG

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# 7.62 X 54 RUSSIAN - HORNADY BULLETS

## 165 GRAIN BULLETS:

SECTIONAL DENSITY:  
DIAMETER:

.248  
.308"

### #3040 SP

Ballistic Coefficient — .387  
C.O.L. — 2.810"



### #3045 BTSP

Ballistic Coefficient — .435  
C.O.L. — 2.810"



#### VELOCITY

| POWDER   | 2300 fps | 2400 fps | 2500 fps | 2600 fps | 2700 fps |
|----------|----------|----------|----------|----------|----------|
| IMR 3031 | 36.7 gr. | 38.9 gr. | 41.1 gr. | 43.3 gr. | 45.5 gr. |
| H4895    | 39.9 gr. | 42.0 gr. | 44.1 gr. | 46.2 gr. | 48.3 gr. |
| IMR 4064 | 41.6 gr. | 43.0 gr. | 44.4 gr. | 45.8 gr. | 47.2 gr. |
| IMR 4320 | 41.4 gr. | 43.3 gr. | 45.1 gr. | 47.0 gr. | 48.8 gr. |
| H380     | 41.5 gr. | 43.5 gr. | 45.6 gr. | 47.6 gr. | 49.6 gr. |
| WIN 760  | 47.2 gr. | 49.0 gr. | 50.7 gr. | 52.5 gr. | 54.2 gr. |

## 168 GRAIN BULLETS:

SECTIONAL DENSITY:  
DIAMETER:

.253  
.308"

### #3050 BTHP National Match

Ballistic Coefficient — .450  
C.O.L. — 2.975"



#### VELOCITY

| POWDER   | 2300 fps | 2400 fps | 2500 fps | 2600 fps | 2700 fps |
|----------|----------|----------|----------|----------|----------|
| IMR 3031 | 38.3 gr. | 40.5 gr. | 42.7 gr. | 44.9 gr. | 47.1 gr. |
| H4895    | 41.0 gr. | 43.3 gr. | 45.5 gr. | 47.8 gr. | 49.9 gr. |
| IMR 4064 | 41.4 gr. | 43.4 gr. | 45.5 gr. | 47.5 gr. | 49.5 gr. |
| IMR 4320 | 42.0 gr. | 43.8 gr. | 45.6 gr. | 47.5 gr. | 49.4 gr. |
| H380     | 41.6 gr. | 43.6 gr. | 45.7 gr. | 47.8 gr. | 49.8 gr. |
| WIN 760  | 47.7 gr. | 49.4 gr. | 51.1 gr. | 52.8 gr. | 54.5 gr. |

Indicates maximum load • use with caution

# 7.62 X 54 RUSSIAN - HORNADY BULLETS

## 180 GRAIN BULLETS:

SECTIONAL DENSITY:  
DIAMETER:

.271  
.308"

### #3070 SP

Ballistic Coefficient — .425  
C.O.L. — 3.010"



### #3072 BTSP

Ballistic Coefficient — .452  
C.O.L. — 3.010"



### #3075 RN

Ballistic Coefficient — .241  
C.O.L. — 2.975"



#### VELOCITY

| POWDER   | 2300 fps | 2400 fps | 2500 fps | 2600 fps | 2700 fps |
|----------|----------|----------|----------|----------|----------|
| IMR 3031 | 38.6 gr. | 40.7 gr. | 42.7 gr. | 44.8 gr. | 46.9 gr. |
| H4895    | 40.8 gr. | 42.8 gr. | 44.9 gr. | 47.0 gr. | 49.1 gr. |
| IMR 4064 | 41.5 gr. | 43.5 gr. | 45.4 gr. | 47.3 gr. | 49.2 gr. |
| IMR 4320 | 41.4 gr. | 43.6 gr. | 45.7 gr. | 47.8 gr. | 49.9 gr. |
| H380     | 42.0 gr. | 44.2 gr. | 46.3 gr. | 48.4 gr. | 50.5 gr. |
| IMR 4350 | 47.2 gr. | 49.3 gr. | 51.4 gr. | 53.5 gr. | 55.6 gr. |
| WIN 760  | 48.3 gr. | 50.1 gr. | 51.9 gr. | 53.7 gr. | 55.5 gr. |

Indicates maximum load • use with caution

## SHOOTER'S LOG

## 7.62 X 54 RUSSIAN - HORNADY BULLETS

### 190 GRAIN BULLETS:

SECTIONAL DENSITY: .286  
DIAMETER: .308"

**#3080 BTHP Match**  
Ballistic Coefficient — .530  
C.O.L. — 3.105"



**#3085 BTSP**  
Ballistic Coefficient — .491  
C.O.L. — 3.105"

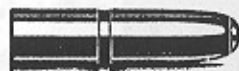


| POWDER   | VELOCITY |          |          |          |          |
|----------|----------|----------|----------|----------|----------|
|          | 2100 fps | 2200 fps | 2300 fps | 2400 fps | 2500 fps |
| IMR 3031 | 37.5 gr. | 39.4 gr. | 41.4 gr. | 43.9 gr. |          |
| IMR 4064 | 38.5 gr. | 40.5 gr. | 42.5 gr. | 45.0 gr. |          |
| H380     | 38.6 gr. | 40.8 gr. | 43.0 gr. | 45.2 gr. | 47.4 gr. |
| IMR 4320 | 39.2 gr. | 41.3 gr. | 43.5 gr. | 45.6 gr. | 47.7 gr. |
| WIN 760  | 44.7 gr. | 46.4 gr. | 48.1 gr. | 49.8 gr. | 51.5 gr. |
| IMR 4350 | 44.0 gr. | 46.4 gr. | 48.8 gr. | 51.2 gr. |          |

### 220 GRAIN BULLETS:

SECTIONAL DENSITY: .331  
DIAMETER: .308"

**#3090 RN**  
Ballistic Coefficient — .300  
C.O.L. — 3.055"



| POWDER   | VELOCITY |          |          |          |          |
|----------|----------|----------|----------|----------|----------|
|          | 2000 fps | 2100 fps | 2200 fps | 2300 fps | 2400 fps |
| H4895    | 37.7 gr. | 39.7 gr. | 41.7 gr. | 43.7 gr. |          |
| IMR 4064 | 37.9 gr. | 40.2 gr. | 42.5 gr. | 44.8 gr. |          |
| IMR 4320 | 38.6 gr. | 40.8 gr. | 43.0 gr. | 45.2 gr. |          |
| H380     |          | 41.7 gr. | 44.0 gr. | 46.3 gr. | 48.6 gr. |
| WIN 760  |          | 46.4 gr. | 48.2 gr. | 50.0 gr. | 51.9 gr. |

Indicates maximum load - use with caution

## 7.62 X 54 RUSSIAN - SIERRA BULLETS

### Test Specifications

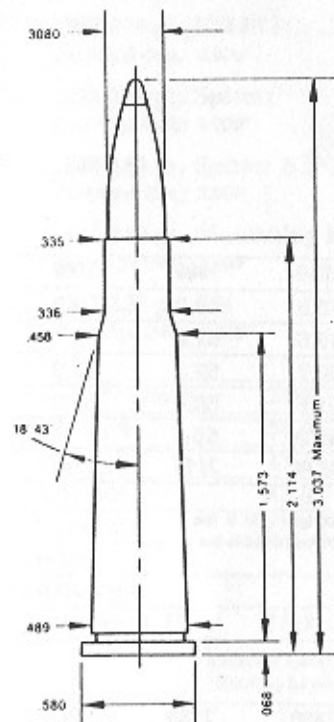
Firearm used: Westinghouse/Russian  
Bbl. Length / Twist: 24" / 1-10"

### Test Components

Cases: Norma  
Trim-to Length: 2.105"  
Primers: Remington 9½

### Sierra Bullets Used

.308 110 gr. RN  
.308 110 gr. FMJ  
.308 110 gr. HP  
.308 125 gr. Spitzer  
.308 150 gr. FMJBT  
.308 150 gr. Spitzer  
.308 150 gr. Spitzer BT  
.308 150 gr. Matchking HPBT  
.308 150 gr. RN  
.308 165 gr. Spitzer BT  
.308 165 gr. HPBT  
.308 168 gr. Matchking HPBT  
.308 180 gr. Spitzer  
.308 180 gr. Spitzer BT  
.308 180 gr. Matchking HPBT  
.308 180 gr. RN  
.308 200 gr. Spitzer BT  
.308 200 gr. Matchking HPBT  
.308 220 gr. Matchking HPBT  
.308 220 gr. RN



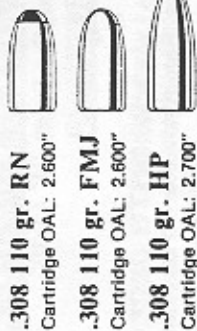
### Remarks:

The 7.62 x 54mm cartridge is well known to American shooters. The rifle was not only produced in this country, but came back as surplus and souvenirs after the Korean conflict.

As originally loaded with a 150 gr. Spitzer bullet, the Russian compares to the .30-'06, but it does not perform as well when heavier bullets are chosen. The Sierra .308" diameter bullets are suitable for reloading although the bore of the 7.62 measures .310" in diameter.

The Mosin-Nagant Model 91 was the military rifle chambered for the 7.62. It was produced by New England Westinghouse Company, Remington and Winchester during WWI. Remington loaded commercial ammunition for hunting until 1950.

## 7.62 X 54 RUSSIAN - SIERRA BULLETS



**.308 110 gr. RN**  
Cartridge OAL: 2.600"

**.308 110 gr. FMJ**  
Cartridge OAL: 2.600"

**.308 110 gr. HP**  
Cartridge OAL: 2.700"

| Powder/Velocity-- | 2700 | 2800 | 2900 | 3000 | 3100 |
|-------------------|------|------|------|------|------|
| IMR-3031          |      | 45.0 | 46.5 | 48.0 | 49.5 |
| IMR-4895          | 46.7 | 48.2 | 49.6 | 51.0 |      |
| IMR-4064          |      | 49.1 | 50.7 | 52.3 | 53.9 |
| IMR-4320          |      | 49.7 | 51.5 | 53.2 | 54.9 |
| H380              | 52.4 | 54.3 | 56.2 | 58.1 |      |
| Energy/ft. lbs.   | 1780 | 1915 | 2054 | 2198 | 2347 |

Accuracy Load: IMR-4064 / 52.3 grs.; 3000 fps / 2198 ft. lbs.  
Hunting Load: IMR-4064 / 52.3 grs.; 3000 fps / 2198 ft. lbs.



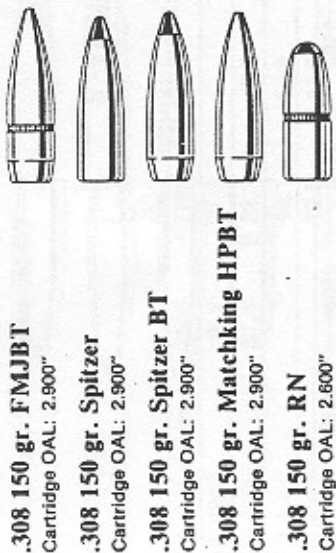
**.308 125 gr. Spitzer**  
Cartridge OAL: 2.800"

| Powder/Velocity-- | 2600 | 2700 | 2800 | 2900 | 3000 |
|-------------------|------|------|------|------|------|
| IMR-3031          | 42.3 | 43.9 | 45.5 | 47.1 |      |
| IMR-4895          | 45.6 | 47.2 | 48.7 |      |      |
| IMR-4064          | 46.4 | 47.9 | 49.4 | 50.9 |      |
| IMR-4320          |      | 48.9 | 50.5 | 52.1 | 53.7 |
| H380              |      | 50.5 | 53.7 | 56.8 |      |
| Energy/ft. lbs.   | 1876 | 2023 | 2176 | 2334 | 2498 |

Accuracy Load: IMR-4320 / 52.1 grs.; 2900 fps / 2334 ft. lbs.  
Hunting Load: IMR-4320 / 52.1 grs.; 2900 fps / 2334 ft. lbs.

HIGHEST LOAD SHOWN IS THE MAXIMUM LOAD  
**USE WITH EXTREME CAUTION**  
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

## 7.62 X 54 RUSSIAN - SIERRA BULLETS



**.308 150 gr. FMJBT**  
Cartridge OAL: 2.900"

**.308 150 gr. Spitzer**  
Cartridge OAL: 2.900"

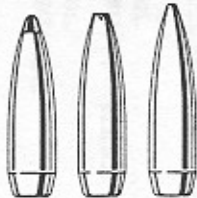
**.308 150 gr. Spitzer BT**  
Cartridge OAL: 2.900"

**.308 150 gr. Matchking HPBT**  
Cartridge OAL: 2.900"

**.308 150 gr. RN**  
Cartridge OAL: 2.800"

| Powder/Velocity-- | 2400 | 2500 | 2600 | 2700 | 2800 |
|-------------------|------|------|------|------|------|
| IMR-3031          | 38.9 | 40.7 | 42.6 | 44.4 |      |
| IMR-4895          | 41.8 | 43.6 | 45.3 | 47.0 |      |
| IMR-4064          | 43.6 | 45.0 | 46.4 | 47.8 | 49.1 |
| IMR-4320          |      | 45.7 | 47.3 | 48.8 | 50.3 |
| H380              |      |      | 49.9 | 52.9 | 55.7 |
| IMR-4350          |      | 51.5 | 53.3 | 55.1 |      |
| Energy/ft. lbs.   | 1918 | 2081 | 2251 | 2428 | 2610 |

Accuracy Load: IMR-4320 / 48.8 grs.; 2700 fps / 2428 ft. lbs.  
Hunting Load: H380 / 55.7 grs.; 2800 fps / 2610 ft. lbs.



**.308 165 gr. Spitzer**  
Cartridge OAL: 2.975"

**.308 165 gr. HPBT**  
Cartridge OAL: 2.975"

**.308 168 gr. Matchking HPBT**  
Cartridge OAL: 2.975"

| Powder/Velocity-- | 2300 | 2400 | 2500 | 2600 | 2700 |
|-------------------|------|------|------|------|------|
| IMR-3031          | 38.5 | 40.3 | 42.0 | 43.7 |      |
| IMR-4895          | 40.7 | 42.5 | 44.3 | 46.0 |      |
| IMR-4064          | 42.3 | 43.7 | 45.2 | 46.6 | 48.1 |
| IMR-4320          |      | 44.5 | 46.1 | 47.7 | 49.2 |
| H380              |      |      | 48.2 | 51.3 | 54.4 |
| IMR-4350          |      | 49.3 | 51.4 | 53.4 |      |
| Energy/ft. lbs.   | 1938 | 2110 | 2289 | 2476 | 2670 |

Accuracy Load: IMR-4320 / 47.7 grs.; 2600 fps / 2476 ft. lbs.  
Hunting Load: IMR-4320 / 49.2 grs.; 2700 fps / 2670 ft. lbs.

HIGHEST LOAD SHOWN IS THE MAXIMUM LOAD - **USE WITH EXTREME CAUTION**  
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

## 7.62 X 54 RUSSIAN - SIERRA BULLETS

**.308 180 gr. Spitzer**  
Cartridge OAL: 3.000"



**.308 180 gr. Spitzer BT**  
Cartridge OAL: 3.000"



**.308 180 gr. Matchking HPBT**  
Cartridge OAL: 3.000"



**.308 180 gr. RN**  
Cartridge OAL: 2.800"



| Powder/Velocity--      | 2300        | 2400        | 2500        | 2600        | 2700        |
|------------------------|-------------|-------------|-------------|-------------|-------------|
| IMR-3031               | 39.7        | 41.3        | 42.9        |             |             |
| IMR-4895               | 41.4        | 43.3        | 45.1        |             |             |
| IMR-4064               | 42.4        | 44.0        | 45.6        | 47.1        |             |
| IMR-4320               | 44.9        | 46.5        | 48.1        | 49.6        |             |
| H380                   | 46.4        | 49.8        | 53.2        |             |             |
| IMR-4350               | 49.3        | 51.5        | 53.6        |             |             |
| IMR-4831               | 50.0        | 52.2        |             |             |             |
| H4831                  | 52.8        | 55.2        |             |             |             |
| <b>Energy/ft. lbs.</b> | <b>2114</b> | <b>2302</b> | <b>2498</b> | <b>2701</b> | <b>2913</b> |

Accuracy Load: IMR-4320 / 48.1 grs.; 2800 fps / 2701 ft. lbs.  
Hunting Load: IMR-4320 / 48.1 grs.; 2600 fps / 2701 ft. lbs.

**.308 200 gr. Spitzer BT**  
Cartridge OAL: 3.037"



**.308 200 gr. Matchking HPBT**  
Cartridge OAL: 3.037"



| Powder/Velocity--      | 2100        | 2200        | 2300        | 2400        | 2500        |
|------------------------|-------------|-------------|-------------|-------------|-------------|
| IMR-3031               | 36.6        | 38.3        | 40.0        |             |             |
| IMR-4895               | 38.3        | 40.1        | 41.9        |             |             |
| IMR-4064               | 41.2        | 42.9        | 44.5        | 46.1        |             |
| IMR-4320               | 41.0        | 43.0        | 45.0        | 46.9        |             |
| H380                   | 44.4        | 47.2        | 50.0        |             |             |
| IMR-4350               | 46.1        | 48.3        | 50.4        | 52.6        |             |
| IMR-4831               | 48.4        | 50.7        | 52.9        |             |             |
| H4831                  | 49.7        | 51.9        | 54.0        | 56.1        |             |
| <b>Energy/ft. lbs.</b> | <b>1958</b> | <b>2149</b> | <b>2349</b> | <b>2558</b> | <b>2775</b> |

Accuracy Load: IMR-4350 / 50.4 grs.; 2400 fps / 2558 ft. lbs.  
Hunting Load: IMR-4350 / 52.8 grs.; 2500 fps / 2775 ft. lbs.

**HIGHEST LOAD SHOWN IS THE MAXIMUM LOAD - USE WITH EXTREME CAUTION**  
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

## 7.62 X 54 RUSSIAN - SIERRA BULLETS

**.308 220 gr. Matchking HPBT**  
Cartridge OAL: 3.037"



**.308 220 gr. RN**  
Cartridge OAL: 2.800"



| Powder/Velocity--      | 2000        | 2100        | 2200        | 2300        | 2400        |
|------------------------|-------------|-------------|-------------|-------------|-------------|
| IMR-3031               | 35.7        | 37.5        |             |             |             |
| IMR-4895               | 37.8        | 39.3        | 40.7        |             |             |
| IMR-4064               |             | 40.1        | 42.0        | 43.8        |             |
| IMR-4320               |             | 40.5        | 42.3        | 44.1        | 45.9        |
| H380                   |             | 44.2        | 46.1        | 48.0        | 49.9        |
| IMR-4350               |             | 45.1        | 47.3        | 49.5        |             |
| IMR-4831               |             | 47.4        | 49.7        | 52.0        |             |
| H4831                  |             | 50.9        | 52.9        | 54.8        |             |
| <b>Energy/ft. lbs.</b> | <b>1953</b> | <b>2154</b> | <b>2364</b> | <b>2584</b> | <b>2813</b> |

Accuracy Load: H380 / 48.0 grs.; 2300 fps / 2584 ft. lbs.  
Hunting Load: H380 / 48.0 grs.; 2300 fps / 2584 ft. lbs.

**HIGHEST LOAD SHOWN IS THE MAXIMUM LOAD**  
**USE WITH EXTREME CAUTION**

LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

**Reloading Data Introduction:**

The data listed in this section have been tested by our technicians and found to be safe when loaded with our test components and fired (under our laboratory controlled conditions) in our testing equipment. Since Lyman Products Corporation has no control over the manufacture of the various components listed, the actual loading, choice or condition of the firearms and components used, no responsibility for use of this data is implied or assumed.

**Components:**

The reader should bear in mind that the components listed are not of Lyman manufacture. Therefore, it is impossible that production changes affecting ballistic performance can occur at any time without our knowledge. If there is ever a question as to the correctness of the component specified, write to its manufacturer.

**Starting Load:**

It is essential that the reader begin with the suggested weight of powder listed in this bracket and work up slowly (following load development precautions) to his best performing load. The novice should use only the "starting load" for a period of time until he builds confidence and experience. Never decrease this charge as an increase in pressure could be encountered.

**Maximum Load:**

All loads which are listed as maximum were tested and classified as maximum by our technicians in accordance with our laboratory standards. Under no circumstances should these loads be exceeded, nor should they be quickly accepted by the reader as a safe working maximum for his particular rifle or pistol.

Many reloaders misinterpret the meaning of the "maximum load." They wrongly assume that if a high pressure load proved safe in a test laboratory then it is equally safe under any and all conditions. This is not true. The reader must start with the "starting load" and work up his load carefully. Working with his particular firearm and component combination, he may encounter signs of excess pressure before he reaches the maximum charge listed.

The technician classifies a load as maximum after carefully considering many aspects of its ballistic performance. The maximum average pressure of the load is not the only criteria. Often a load having an acceptable maximum average pressure will be rejected (or reduced) due to its erratic performance. Accuracy must also be considered, particularly when dealing with cast lead alloy bullets. In all instances, the maximum listing represents what our technicians consider to be the maximum working combination for the bullet, powder and caliber listed. These loads do not exceed SAAMI standards.

**Accuracy Loads:**

When a load is noted as such in the data tables proper, it means that the given combination of components produced the most uniform internal ballistics of any load tested utilizing that particular bullet design.

Unless noted in "Comments," the accuracy load was not fired at targets. The load, however, does have a high potential—assuming all external factors are optimum—for producing outstanding accuracy since uniform internal ballistics are critical to accuracy on target. You cannot have one without the other.

**Test Parameters:**

Velocities shown were taken at fifteen feet and not corrected to the muzzle.

Each test string began with a clean dry barrel and consisted of ten shots. Loads exhibiting erratic internal ballistics were not pursued.

We had no problem with leading in any of our testing.

**Bullets:**

Bullet numbers are listed in the introductory specifications for each cartridge and in the headline above the appropriate data block—along with an illustration of that particular bullet.

Please note these bullets are artists' rendering. Comparing your bullet against the drawing could reveal minor differences. Furthermore, minor changes are sometimes made to bullets. These drawings, which appear throughout the data sections, are for general reference only and are not intended to be a precise representation.

Bullet alloy is noted as is the exact weight of each tested bullet.

Not all cast bullets within a given caliber are intended to perform equally. We have used them in the most appropriate chamberings.

**Powders:**

We have limited our testing to those powders which are manufactured in the United States and which are readily available to the consumer. The following brands are listed: Dupont (now IMR), Winchester, Hercules, Alcan, Hodgdon and Gearhart-Owen.

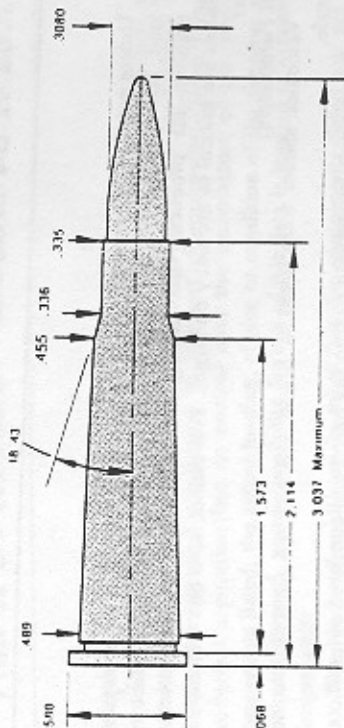
**Compressed Loads:**

All compressed loads are indicated with a +. Depending upon the volume of the specific cartridge case used by the reader, he may, or may not, have difficulty starting bullets in such loads. If the bullet will not start, reduce the load sufficiently so that 1/10" of space remains in the case neck. Start the bullet into the case and use whatever additional pressure is required to fully seat the bullet. Failure to comply could result in a bulged case.

**Filler Wads:**

Dacron filler wads in the form of 1/4-inch thick batting were used in conjunction with cast bullet loads, where indicated. This material can be purchased in most yard-goods stores. It should be cut into squares, which seal the case.

When developing a load, if a wad is desired, it should be used from the beginning as the charge weight is increased. It should never be added as an afterthought, once a maximum load has been established, since its presence could result in a pressure increase of 2,000 CUP or more.



### COMMENTS:

This is a large rimmed cartridge that should not be confused with the smaller and far more popular rimless 7.62 x 39 Russian. Bore and groove diameters of examined rifles have varied widely — from 0.308" to 0.312". For barrels with groove diameters no larger than 0.310" we suggest the use of 0.308" diameter bullets. Due to limitations of chamber size, larger diameter bullets are not suggested even though groove diameters are larger than 0.310 inch.

IMR 4350 was the best propellant in our tests with jacketed bullets. However, because of the groove diameter of the test rifle being 0.002" larger than the bullets used, accuracy was fair, at best.

### TEST COMPONENTS:

Cases ..... Norma  
Trim-to Length ..... 2.105"  
Primers ..... Remington 9 1/2  
Primer Size ..... Large Rifle  
Lyman Shell Holder ..... No. 17  
Jacketed Bullets Used ..... Remington Pld. SP, 110 gr.  
..... Hornady Spire Pt., 130 gr.  
..... Remington Pld. SPCL, 150 gr.  
..... Remington Pld. SPCL, 180 gr.  
..... Speer RN, 200 gr.  
..... Remington SPCL, 220 gr.  
Cast Bullets Used ..... (Sized to .310" dia.)  
\*Gas Check Bullets ..... \*#311466, 151 gr.  
..... \*#311291, 169 gr.

### TEST SPECIFICATIONS:

(Velocity Only)  
Firearm Used ..... Westinghouse/Russian  
Barrel Length ..... 24"  
Twist ..... 1-10"  
Groove Dia. .... .310"



| Powder   | Sugg. Starting Grains | Velocity<br>fps | Pressure<br>C.U.P. | Max. Load<br>Grains | Velocity<br>fps | Pressure<br>C.U.P. |
|----------|-----------------------|-----------------|--------------------|---------------------|-----------------|--------------------|
| IMR-3031 | 45.0                  | 2801            | —                  | 50.0                | 3134            | —                  |
| IMR-4895 | 47.0                  | 2724            | —                  | 52.0                | 3067            | —                  |
| IMR-4064 | 49.0                  | 2793            | —                  | 54.0+               | 3105            | —                  |
| IMR-4320 | 50.0                  | 2816            | —                  | 55.0                | 3105            | —                  |
| IMR-4350 | 50.0                  | 2352            | —                  | 56.0+               | 2710            | —                  |
| H-4831   | 51.0                  | 2105            | —                  | 57.0+               | 2444            | —                  |



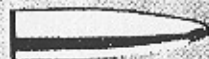
| Powder   | Sugg. Starting Grains | Velocity<br>fps | Pressure<br>C.U.P. | Max. Load<br>Grains | Velocity<br>fps | Pressure<br>C.U.P. |
|----------|-----------------------|-----------------|--------------------|---------------------|-----------------|--------------------|
| IMR-3031 | 43.0                  | 2638            | —                  | 48.0                | 2949            | —                  |
| IMR-4895 | 45.0                  | 2557            | —                  | 50.0                | 2881            | —                  |
| IMR-4064 | 47.0                  | 2631            | —                  | 52.0+               | 2967            | —                  |
| IMR-4320 | 49.0                  | 2702            | —                  | 54.0                | 3012            | —                  |
| IMR-4350 | 50.0                  | 2398            | —                  | 55.0+               | 2652            | —                  |
| H-4831   | 51.0                  | 2096            | —                  | 57.0+               | 2427            | —                  |

MAXIMUM LOADS SHOULD ALWAYS BE USED WITH

**EXTREME CAUTION**

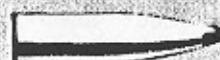
+ Designates a compressed powder charge.

## 7.62 X 54 RUSSIAN - LYMAN BULLETS



150 gr. Jacketed Pld. SP

| Powder   | Sugg. Starting Grains | Velocity fps | Pressure C.U.P. | Max. Load Grains | Velocity fps | Pressure C.U.P. |
|----------|-----------------------|--------------|-----------------|------------------|--------------|-----------------|
| IMR-3031 | 41.0                  | 2518         | —               | 46.0             | 2785         | —               |
| IMR-4895 | 43.0                  | 2469         | —               | 48.0             | 2762         | —               |
| IMR-4064 | 44.0                  | 2427         | —               | 49.0             | 2793         | —               |
| IMR-4320 | 46.0                  | 2518         | —               | 51.0             | 2849         | —               |
| IMR-4350 | 50.0                  | 2439         | —               | 55.0+            | 2695         | —               |
| H-4831   | 51.0                  | 2155         | —               | 57.0+            | 2457         | —               |



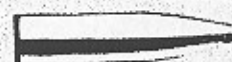
180 gr. Jacketed Pld. SP

| Powder   | Sugg. Starting Grains | Velocity fps | Pressure C.U.P. | Max. Load Grains | Velocity fps | Pressure C.U.P. |
|----------|-----------------------|--------------|-----------------|------------------|--------------|-----------------|
| IMR-3031 | 39.0                  | 2257         | —               | 43.0             | 2506         | —               |
| IMR-4895 | 41.0                  | 2277         | —               | 45.0             | 2493         | —               |
| IMR-4064 | 43.0                  | 2341         | —               | 48.0             | 2659         | —               |
| IMR-4320 | 45.0                  | 2409         | —               | 50.0             | 2724         | —               |
| IMR-4350 | 50.0                  | 2433         | —               | 55.0+            | 2666         | —               |
| H-4831   | 51.0                  | 2227         | —               | 57.0+            | 2475         | —               |

MAXIMUM LOADS SHOULD ALWAYS BE USED WITH  
**EXTREME CAUTION**

+ Designates a compressed powder charge.

## 7.62 X 54 RUSSIAN - LYMAN BULLETS



220 gr. Jacketed SP

| Powder   | Sugg. Starting Grains | Velocity fps | Pressure C.U.P. | Max. Load Grains | Velocity fps | Pressure C.U.P. |
|----------|-----------------------|--------------|-----------------|------------------|--------------|-----------------|
| IMR-3031 | 35.0                  | 1960         | —               | 39.0             | 2188         | —               |
| IMR-4895 | 37.0                  | 1949         | —               | 41.0             | 2217         | —               |
| IMR-4064 | 40.0                  | 2096         | —               | 44.0             | 2309         | —               |
| IMR-4320 | 41.0                  | 2127         | —               | 46.0             | 2403         | —               |
| IMR-4350 | 46.0                  | 2141         | —               | 51.0+            | 2369         | —               |
| H-4831   | 50.0                  | 2053         | —               | 55.0+            | 2309         | —               |



#311291  
169 gr. (#2 Alloy)

| Powder | Sugg. Starting Grains | Velocity fps | Pressure C.U.P. | Max. Load Grains | Velocity fps | Pressure C.U.P. |
|--------|-----------------------|--------------|-----------------|------------------|--------------|-----------------|
| Unique | 11.0                  | 1461         | —               | 14.0             | 1680         | —               |
| 2400   | 22.0                  | 1865         | —               | 24.0             | 1941         | —               |

MAXIMUM LOADS SHOULD ALWAYS BE USED WITH  
**EXTREME CAUTION**

+ Designates a compressed powder charge.

## Introduction

There has been a re-evaluation of the criteria for selecting data for inclusion. This means there will be some disagreement with previous data. The data in this guide takes precedence over all prior publications. *Previous editions of this loading guide should be discarded.*

For instance, we left out load combinations that were 'position sensitive'. This is what occurs when the load density is low. Velocity with the powder at the bullet is different from the velocity with the powder at the primer. More of these were noted with the ball propellants than with the extruded propellants.

In light of the growth of IPSC shooting, 38 Super Auto loads that make the 'major' classification (bullet weight x velocity = 175,000) are identified. While we have tested many combinations of components in 9mm Luger to attempt to meet 'major' requirements, we have not been able to find a load that makes the power floor for 'major' without exceeding SAAMI pressure recommendations. And while we were able to find loads for 38 Super Auto, they were not with lighter bullets. Turn to the data section for specific details.

In the charge tables, the 'STAHT' charge listed for each load is our suggested beginning point with the components listed. There is the possibility that changing the named components could cause the maximum charge to be excessive, thus a reduction of the charge would be necessary. Some batches of military brass may require reducing the maximum charge by 8-12% to keep chamber pressure in line.

**If you find signs of excessive pressure while using loads in this loading guide, STOP TESTING and verify all data and loading procedures. If they seem to be in order, check with our lab facility before proceeding.**

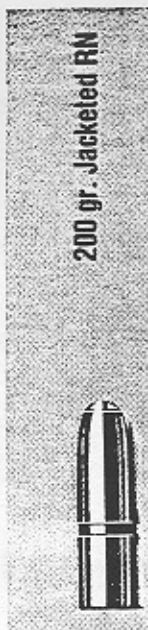
Charge weights were obtained using industry standard pressure barrels. When time permitted, off-the-shelf weapons were used to obtain velocity figures. The guns used are noted.

In reloading, the prime concern should always be SAFETY. Always wear eye protection when reloading, even when working with the 'non-volatile' components. Always keep the reloading area clean. Never have more than one propellant within easy reach at any given time. Avoid having similar looking bullets of different weights on the bench at the same time. Read the safety notes before loading.

We have not found magnum primers to offer any particular advantage with our handgun powders. But, there are some rifle cartridges where they were used.

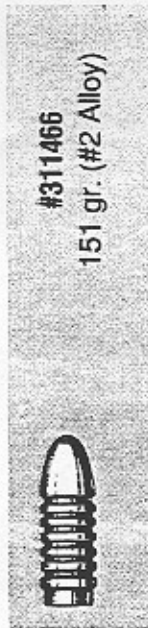
Handgun loads using the slower powders (No. 7, No. 9, and 1680) require heavy crimp and high bullet pull to insure consistency - particularly with cast bullet loads or in extremely cold weather. Be sure your dies are capable of this, otherwise the consistency of the load will be affected.

In the text, bullet weights for cast bullets - identified by (L) are actual weights, not the nominal weights.



200 gr. Jacketed RN

| Powder   | Sugg. Starting Grains | Velocity<br>fps | Pressure<br>C.U.P. | Max.           |                                 |
|----------|-----------------------|-----------------|--------------------|----------------|---------------------------------|
|          |                       |                 |                    | Load<br>Grains | Velocity Pressure<br>fps C.U.P. |
| IMR-3031 | 37.0                  | 2123            | —                  | 41.0           | 2358 —                          |
| IMR-4895 | 39.0                  | 2136            | —                  | 43.0           | 2358 —                          |
| IMR-4064 | 41.0                  | 2188            | —                  | 46.0           | 2493 —                          |
| IMR-4320 | 43.0                  | 2298            | —                  | 48.0           | 2557 —                          |
| IMR-4350 | 48.0                  | 2288            | —                  | 53.0+          | 2518 —                          |
| H-4831   | 50.0                  | 2114            | —                  | 56.0+          | 2392 —                          |



#311466

151 gr. (#2 Alloy)

| Powder | Sugg. Starting Grains | Velocity<br>fps | Pressure<br>C.U.P. | Max.           |                                 |
|--------|-----------------------|-----------------|--------------------|----------------|---------------------------------|
|        |                       |                 |                    | Load<br>Grains | Velocity Pressure<br>fps C.U.P. |
| Unique | 12.0                  | 1592            | —                  | 15.0           | 1827 —                          |
| 2400   | 23.5                  | 1980            | —                  | 27.0           | 2197 —                          |

MAXIMUM LOADS SHOULD ALWAYS BE USED WITH

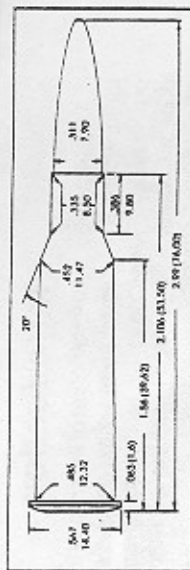
### EXTREME CAUTION

+ Designates a compressed powder charge.

## 7.62 X 54 RUSSIAN - ACCURATE POWDERS

This cartridge was developed for the Czar's troops in 1891. Its 150-grain spitzer bullet was adopted in 1909.

Prior to and during WWI, the rifles were manufactured by New England Westinghouse Co. Large numbers of these rifles loaded a 150 grain bronze



England Westinghouse Co., Remington and Winchester. When the Czar lost the revolution, large numbers of these rifles were declared surplus and were sold to U.S. citizens. Remington loaded a 150 grain bronze point hunting round for a time.

Bore dimensions vary in these rifles from .308" up to .311". Our pressure barrel has a .311" groove diameter. If your barrel is smaller than .310, .308 diameter bullets are probably a better choice.

This is a relatively low pressure cartridge. Norma factory ammo averaged 45,200 PSI. Our data does not exceed that pressure.

## 7.62x54R RUSSIAN

| Gun    | Barrel Length | DOUGLAS | Max Length |
|--------|---------------|---------|------------|
| Primer | 24"           | CCI 250 | 2,090"     |
| Case   |               | Normal  | 2,990"     |

| Bullet        | START LOADS<br>Powder | Grains | Vol. | MAXIMUM LOADS<br>Powder | Grain | Vol. | P.S.I. | Cartridge<br>Length | Comment    |
|---------------|-----------------------|--------|------|-------------------------|-------|------|--------|---------------------|------------|
| 180 (L) RINGC | 4350                  | 45.0   | 2146 | 4350                    | 50.0  | 2439 | 40,400 | 2.830"              | LY311467   |
|               | 3100                  | 47.7   | 2062 | 3100                    | 53.0  | 2343 | 37,100 |                     | Compressed |
|               | 8700                  | 49.5   | 1601 | 8700                    | 55.0  | 1819 | 26,100 |                     | Compressed |
| S&W 150 SP    | 4350                  | 48.6   | 2352 | 4350                    | 54.0  | 2673 | 44,100 | 2.850"              | Compressed |
|               | 3100                  | 49.5   | 2169 | 3100                    | 55.0  | 2465 | 36,000 |                     | Compressed |
|               | 8700                  | 52.2   | 1670 | 8700                    | 56.0  | 1998 | 24,700 |                     | Compressed |
| S&W 180 SP    | 4350                  | 45.9   | 2197 | 4350                    | 51.0  | 2497 | 43,000 | 2.900"              | Compressed |
|               | 3100                  | 48.5   | 2182 | 3100                    | 55.0  | 2457 | 42,800 |                     | Compressed |
|               | 8700                  | 51.3   | 1596 | 8700                    | 57.0  | 1814 | 25,300 |                     | Compressed |

## SHOOTER'S LOG

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# NOTICE

*The information presented is based upon results obtained in our ballistics laboratory. Safe loading practices should be observed at all times. Since JMR Powder Company has no control over the circumstances of loading, we assume no liability for the results obtained, and we guarantee only that our powder meets our manufacturing standards.*

## == WARNING ==

*The Scot Powder Company makes no warranties or guarantees with respect to the safety or suitability of these products or the reloading information contained on these pages, either express or implied. Buyer and user assume any and all risk, responsibility and liability for any and all injury (including death), loss or damage arising from usage!*

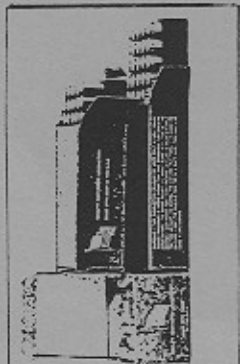
**= CAUTION =**

All Accurate Arms Company, Inc. listed loads are for professional use and are not intended as instructional material or text for the novice. Examine each fired case as you work up a load. Do not load to maximum charge levels without knowing the design limits of the firearm. Do not exceed maximum charges listed. Double check each step. Guard against errors in powder charge and bullet weight. Slight variations in components can create dangerous pressure levels.

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