

# Triple Seven & Pyrodex Shotshell DATA

Any brand of shot shell may be used to create these loads. Simply put the correct charge of Pyrodex or Triple Seven (by volume) into the case and adjust the wad column height for a good crimp.

Powder charges are measured in an adjustable powder measure designed for black powder. **Do Not Use a Powder Measure designed for Smokeless Powders.**  
(READ WARNINGS SECTION.)

Generally, one .200 nitro wad over the powder and a 1/2" felt cushion wad will give a column height close to the correct length. The addition of .050 nitro wads to the column will allow for height adjustments for different hulls. A shot collar or shot cup may be used to contain the shot charge with no adjustment to powder charge.

**CAUTION:** Damascus barrels should be considered unsafe with **ANY POWDER!**  
(READ WARNINGS SECTION.)

## BREECH LOADING SHOTGUNS

Gauge	Shot Wt. Oz.	Wad Column	Set Your Measure at	VELOCITY	L.U.P.
10-3 1/2	2	Card + Filler	140 Pyrodex	1154	6900
10-2 7/8	1 5/8	Card + Filler	105 Pyrodex	1115	4900
	1 1/8	Card + Filler	100 Pyrodex	1043	5700
	1 1/8	WAA12R	70 Pyrodex	1100	6500
	1 1/8	WAA12R	70 Triple Seven	1187	7700
	1 1/4	Card + Filler	90 Pyrodex	1039	5800
12-2 3/4	1 1/2	Card + Filler	90 Pyrodex	1012	5900
	1	Card + Filler	90 Pyrodex	1128	5600
	1 1/8	Card + Filler	80 Pyrodex	1095	5800
16-2 3/4	1 1/4	Card + Filler	80 Pyrodex	1040	6000
	7/8	Card + Filler	80 Pyrodex	1134	5800
20-2 3/4	1	Card + Filler	70 Pyrodex	1090	5900
	1 1/8	Card + Filler	65 Pyrodex	1052	5900

**NOTE: Measure all powder charges by Volume, not weight**

## CAP AND BALL REVOLVERS

CALIBER	BALL DIAMETER	POWDER	Set Your Measure at	VELOCITY
31	.320 or 0 Buckshot	Pyrodex P	12 Gr.	580
	.375 or 0000 Buckshot	Pyrodex P	28 Gr.	935
36	.375 or 0000 Buckshot	Triple Seven	15 Gr.	662
	.375 or 0000 Buckshot	Triple Seven	20 Gr.	832
44	.451 or .454	Pyrodex P	37 Gr.	910
	.451 or .454	--- Pyrodex Pistol Pellet ---		800
	.451 or .454	Triple Seven	20 Gr.	536
	.451 or .454	Triple Seven	25 Gr.	763
45 Ruger	.457 Round ball	Pyrodex P	43 Gr.	986
	.457 Round ball	Triple Seven	30 Gr.	845
	.457 Round ball	Triple Seven	35 Gr.	987

**NOTE: Measure all powder charges by Volume, not weight**

# HODGDON® COWBOY ACTION DATA



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**Hodgdon Powder Company** made the decision to invest the time, money and manpower to develop data specifically for the Cowboy Action shooter. As we started shooting the Cowboy Action data, we found that there are a few problems associated with the performance levels required for this sport.

- 1) We are asking cartridge/powder combinations to do things which were never intended.
- 2) No single propellant works best for all cartridges.
- 3) Lean loads result from fast burning powders with lower loading densities. Better loading density is achieved with slower powders, but they are not as clean.

The results of my experimentation are presented in the data included in this brochure. There are a few things that I must share:

Velocities for all cartridges listed are limited by the SAAMI maximum allowable pressures. Minimum loads are established by pressure. Loads with very low pressure may fail to function properly in cold weather matches, resulting in a bullet becoming lodged in the bore. (Read warnings section.)

The average loss in velocity from the listed pressure barrel data when using a 4 5/8" barreled revolver is 175 fps. A 7 1/2" revolver will lose about 50 fps.

Carbines will generally develop velocities similar to those listed in the data. Some carbine/cartridge combinations will exceed the velocities listed.

Because of a wide variation in bullet diameter, chamber diameter, cylinder gap, case capacity and manufacturing variations in primers and powder, I suggest that you chronograph loads from your own firearms.

If you have any ideas or questions, feel free to contact our technical staff or me and we can discuss it. Every time I attend a shoot, I find new ideas. I am willing to share what I know and would be glad to learn what you know.

*Mike Daly* BIRDSHOT SASS #3616

### WARNING

Pyrodex® is not intended and should not be used for any purpose other than as a propellant for blackpowder percussion and cartridge firearms, which have been found by a competent gunsmith to be in safe shootable condition.

The information presented in this brochure is based upon results obtained in our ballistics laboratory, and is offered as an aid to shooters to be employed at their own discretion and risk. Safe loading practices should be observed at all times. Since we have no control over the circumstances of loading, we assume no liability for the results obtained, and we guarantee only that our powder meets our exacting standards.

### HODGDON POWER BALLISTIC DATA

Ballistic data shown in this brochure has been developed in our laboratory under strictly controlled conditions. Ballistic data can vary considerably depending on many factors including components used, how such components are assembled, degree of fouling or leading of the barrel, the type of firearm used, and the loading techniques and safety precautions utilized by the individual. **NEVER MIX ANY TWO POWDERS REGARDLESS OF TYPE, BRAND OR SOURCE. NEVER substitute any smokeless powder for Pyrodex.**

## Pyrodex Pistol and Long Range Rifle Loads

All pistol loads shown were developed by filling the case to a point which allowed the powder to be compressed 1/16" to 1/8" when the bullet was seated. All rifle loads used a card wad of approximately .030" between the base of the bullet and the powder. The powder charges listed in the data are by volume, not weight. Use an adjustable powder measure designed for black powder to measure the proper charge.

The shooter may have to use a long drop tube to assist in filling the case. To reduce loads in straight sided cases simply insert card or polyethylene wads between the base of the bullet and the powder. DO NOT USE ANY OTHER FILLER. LOADS FOR THE 38-40 AND THE 44-40 SHOULD NOT BE REDUCED. NEVER ALLOW AN AIR SPACE BETWEEN THE BULLET AND THE POWDER.

PYRODEX PISTOL					
CARTRIDGE	GRADE OF PYRODEX (Set your powder measure at)	BULLET	VELOCITY	PRESSURE	
38-40 WCF	30 gr	P	180 gr RNFP	920 fps	8,200 CUP
	30 gr	RS	180 gr RNFP	903 fps	7,900 CUP
	30 gr	Select	180 gr RNFP	821 fps	8,400 CUP
44 Special	30 gr	P	200 gr RNFP	990 fps	12,100 CUP
	30 gr	RS	200 gr RNFP	962 fps	12,300 CUP
	30 gr	Select	200 gr RNFP	901 fps	10,000 CUP
	25 gr	P	240 gr SWC	891 fps	12,800 CUP
	25 gr	RS	240 gr SWC	831 fps	10,000 CUP
44 Magnum	25 gr	Select	240 gr SWC	816 fps	9,700 CUP
	32 gr	P	200 gr RNFP	1022 fps	11,800 CUP
	32 gr	RS	200 gr RNFP	957 fps	10,300 CUP
	32 gr	Select	200 gr RNFP	864 fps	6,900 CUP
	30 gr	P	240 gr SWC	1000 fps	10,900 CUP
44-40 WCF	30 gr	RS	240 gr SWC	908 fps	10,600 CUP
	30 gr	Select	240 gr SWC	809 fps	9,800 CUP
	35 gr	P	200 gr RNFP	802 fps	9,900 CUP
45 Long Colt	35 gr	RS	200 gr RNFP	800 fps	9,200 CUP
	35 gr	Select	200 gr RNFP	704 fps	8,900 CUP
	37 gr	P	250 gr RNFP	955 fps	13,500 CUP
45 Long Colt	37 gr	RS	250 gr RNFP	918 fps	11,900 CUP
	37 gr	Select	250 gr RNFP	848 fps	9,800 CUP

**NOTE: Measure all powder charges by Volume, not weight**

PYRODEX RIFLE					
CARTRIDGE	GRADE OF PYRODEX (Set your powder measure at)	BULLET	WAD	VELOCITY	
38-55	55 gr	RS / Select	250 gr	Card .030"	1320 fps
40/65 WIN	60 gr	RS / Select	400 gr	1/16" Polyethylene	1214 fps
40/70 SBN	60 gr	P	400 gr	Card .030"	1272 fps
	70 gr	RS / Select	400 gr	Card .030"	1292 fps
45/70	60 gr	RS / Select	420 gr	Ox-Yoke wad	1248 fps
	65 gr	RS / Select	465 gr	Card .030"	1355 fps
	65 gr	RS / Select	540 gr	1/16" Polyethylene	1107 fps
45/90	70 gr	RS / Select	508 gr	Card .030"	1207 fps
	85 gr	RS / Select	508 gr	Card .030"	1311 fps

## Triple Seven Pistol and Long Range Rifle Loads

All loads with Triple Seven were developed by filling the case to a point that would allow the base of the bullet to come into contact with the powder charge. **WARNING: NO COMPRESSION SHOULD BE USED WITH Triple Seven.** High Pressure may result by compressing this powder. Damage to your firearm may occur with heavy compression that could cause injury to the shooter. A single card wad of approximately .030" may be used between the base of the bullet and the powder charge. No other wads or fillers should be used in Triple Seven loads. All powder charges are measured by VOLUME with an adjustable black powder measure, not weighed.

TRIPLE SEVEN PISTOL					
CARTRIDGE	TRIPLE SEVEN (Set your powder measure at)		BULLET	VELOCITY	PRESSURE
32-20 WIN	18 gr	FFg	90 gr RNFP	968 fps	11,000 CUP
	18 gr	FFg	115 gr LFP	864 fps	12,100 CUP
38 Long Colt	15 gr	FFg	125 gr LRN	808 fps	5,500 CUP
	12 gr	FFg	150 gr LRN	740 fps	6,000 CUP
38 Special	20 gr	FFg	125 gr RNFP	931 fps	8,800 CUP
	15 gr	FFg	158 gr RNFP	785 fps	7,600 CUP
357 Magnum	20 gr	FFg	135 gr LRN	948 fps	<12,000 CUP
	18 gr	FFg	158 gr LSWC	796 fps	<12,000 CUP
38-40	30 gr	FFg	180 gr RNFP	887 fps	7,700 CUP
	25 gr	FFg	160 gr LRNFP	957 fps	7,000 CUP
44 Special	25 gr	FFg	185 gr LRNFP	924 fps	8,100 CUP
	25 gr	FFg	200 gr LRNFP	905 fps	8,300 CUP
	20 gr	FFg	240 gr LRNFP	777 fps	7,800 CUP
44-40	30 gr	FFg	200 gr RNFP	830 fps	6,500 CUP
44 Magnum	30 gr	FFg	200 gr LSWC	984 fps	8,800 CUP
	25 gr	FFg	240 gr LSWC	868 fps	9,100 CUP
45 S&W	25 gr	FFg	200 gr LSWC	869 fps	6,600 CUP
	25 gr	FFg	230 gr LRN	800 fps	6,500 CUP
	25 gr	FFg	250 gr LRNFP	813 fps	7,500 CUP
45 Colt	35 gr	FFg	200 gr LSWC	959 fps	8,500 CUP
	30 gr	FFg	250 gr RNFP	838 fps	9,500 CUP

**NOTE: Measure all powder charges by Volume, not weight**

TRIPLE SEVEN RIFLE				
CARTRIDGE	TRIPLE SEVEN (Set your powder measure at)		BULLET	VELOCITY
25-35 WIN	35 gr	FFg	90 gr LFP W/GC	1718 fps
30-30 WIN	40 gr	FFg	160 gr LRN	1547 fps
38-55	35 gr	FFg	250 gr RNFP	1261 fps
40-65 Single Shot	50 gr	FFg	400 gr Lead	1152 fps
45-70	65 gr	FFg	300 gr LRNFP	1512 fps
	65 gr	FFg	350 gr LRNFP	1380 fps
	60 gr	FFg	485 gr LFP	1161 fps
	55 gr	FFg	500 gr #457125	1148 fps
45-120	90 gr	FFg	350 gr LRNFP +2 Wonder wads	1607 fps
	95 gr	FFg	405 gr RNFP	1511 fps
	95 gr	FFg	500 gr LFP	1375 fps
50-140	95 gr	FFg	425 gr LRNFP +3 - 1/4" Fiberwads	1452 fps
	85 gr	FFg	515 gr LRNFP +7 Wonder wads	1245 fps

### STORAGE OF HODGDON POWDERS

Do not store powder with other combustible materials. Always keep the container of Hodgdon powder tightly closed to prevent spillage or contamination of the powder. Keep all powders in their original containers with proper warning labels.

Powders should not be exposed to open flame, sparks, heat, impact, friction or allowed to become contaminated with oil, grease, dirt, sand or any other foreign materials, or left open or exposed to humid conditions. Moisture will ruin Pyrodex. **Keep lid on the can when not being used.** Powders should not be stored in glass containers. Stocks should be rotated. (Use oldest first.)

### USING HODGDON POWDERS

- Know and use safe operating methods when handling and loading powder.
  - Do not increase loads past the recommendations found in this brochure.
  - When using Pyrodex seat projectile against powder charge as air space between powder charge and projectile may create a hazardous situation.
  - Very low pressure loads may leave a bullet or wad lodged in the barrel creating a danger when the next round is fired.
  - Do not use a powder measure designed for smokeless powder when loading Pyrodex. Ignition of Pyrodex is possible in these measures.
  - Filler material other than card wads should not be used with Pyrodex. No filler materials are required for smokeless loads. Improper fillers may alter the burning characteristics of powders.
- CAUTION: NEVER smoke or use any source of accidental ignition while loading, shooting or handling Pyrodex.**
- Clean up any spilled powder - **do not use a vacuum cleaner.**
  - If you are not willing to accept the responsibilities involved in the safe handling and use of Hodgdon powders, return the

powder to the place of purchase for a full refund of the purchase price. If you have any questions about the safe use of our products, contact Hodgdon Powder Company.

**Handle powder with care and keep powder out of reach of children and people who are not aware of the hazards involved! Do not take powder internally. Failure to use powder in accordance with our instructions and data may result in severe personal injury or death to user and/or bystander. Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead and other substances known to cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all times. Wash hands thoroughly after exposure.**

### DISCLAIMER

Hodgdon specifically disclaims any warranties with respect to any and all products sold or distributed by it, the safety or suitability thereof, or the results obtained, whether express or implied, including without limitation, any implied warranty or merchantability or fitness for a particular purpose and/or any other warranty. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries (including death), losses, or damages, to persons or property (including consequential damages), arising from the use of any product or data, whether or not occasioned by seller's negligence or based on strict product liability or principles of indemnity or contribution. Hodgdon neither assumes nor authorizes any person to assume for it any liability in connection with the use of any product or data.

**The individual assumes the risk of safe loading practices. Failure to do so or violation of any of the above warnings could result in severe personal injury (including death) to the user and/or bystanders or gun damage.**

## Smokeless Pistol and Carbine - Maximum Loads

BULLET	POWDER	GRAINS (Maximum)	VELOCITY	PRESSURE
<b>25 - 20 Winchester</b>				
71 gr Lead RNFP	H4227	7.0 gr	1346 fps	18,200 CUP
	HS-7	5.8 gr	1465 fps	22,800 CUP
	HS-6	5.3 gr	1428 fps	21,900 CUP
85 gr Lead RNFP	H4227	7.0 gr	1317 fps	20,500 CUP
	HS-7	5.8 gr	1407 fps	26,200 CUP
	HS-6	5.3 gr	1391 fps	25,300 CUP

**Smokeless Pistol and Carbine - Maximum Loads**

BULLET	POWDER	GRAINS (Maximum)	VELOCITY	PRESSURE
<b>32 H &amp; R Magnum</b>				
90 gr Lead RNFP	HS-6	5.0 gr	963 fps	14,800 CUP
	Universal	3.2 gr	908 fps	11,500 CUP
	HP38	3.2 gr	919 fps	12,500 CUP
	TiteGroup	2.8 gr	911 fps	13,300 CUP
<b>32 - 20 Winchester (Colt Pistol)</b>				
90 gr Lead RNFP	HP38	3.5 gr	969 fps	16,000 CUP
	TiteGroup	3.4 gr	1012 fps	15,800 CUP
115 gr Lead RNFP	Universal	3.2 gr	869 fps	16,000 CUP
	HP38	3.5 gr	915 fps	15,600 CUP
	TiteGroup	3.0 gr	857 fps	15,300 CUP
<b>32 - 20 Winchester (Ruger Pistol &amp; Rifle Data Only)</b>				
90 gr Lead RNFP	HP38	4.5 gr	1177 fps	22,800 CUP
115 gr Lead RNFP	Universal	4.0 gr	1037 fps	22,600 CUP
	HP38	4.3 gr	1045 fps	22,600 CUP
<b>38 Long Colt</b>				
125 gr Lead RN	Universal	3.7 gr	772 fps	
	HP38	3.2 gr	766 fps	
	TiteGroup	2.7 gr	752 fps	
	Clays	2.5 gr	765 fps	
150 gr Lead RN	Universal	3.5 gr	769 fps	
	HP38	3.3 gr	777 fps	
	TiteGroup	2.8 gr	755 fps	
	Clays	2.6 gr	744 fps	
<b>38 Special</b>				
125 gr Lead RNFP	Universal	4.7 gr	1036 fps	16,800 CUP
	HP38	4.8 gr	1071 fps	16,900 CUP
	TiteGroup	3.8 gr	985 fps	12,000 CUP
	Clays	3.5 gr	978 fps	16,900 CUP
135 gr Lead RNFP	Universal	4.6 gr	1025 fps	16,900 CUP
	HP38	4.7 gr	1024 fps	17,000 CUP
	TiteGroup	3.6 gr	927 fps	12,900 CUP
	Clays	3.3 gr	910 fps	16,200 CUP
158 gr Lead SWC	Universal	4.5 gr	974 fps	16,700 CUP
	International	3.5 gr	903 fps	16,100 CUP
	HP38	3.7 gr	834 fps	14,600 CUP
	TiteGroup	3.8 gr	920 fps	15,400 CUP
	Clays	3.1 gr	871 fps	15,100 CUP
<b>357 Magnum</b>				
125 gr Lead RNFP	Universal	6.8 gr	1401 fps	34,200 CUP
	HP38	5.5 gr	1185 fps	18,800 CUP
	TiteGroup	5.4 gr	1274 fps	22,800 CUP
	Clays	5.3 gr	1260 fps	33,000 CUP
135 gr Lead RNFP	Universal	6.5 gr	1314 fps	27,800 CUP

**Long Range Rifle - Maximum Loads**

BULLET	POWDER	GRAINS (Maximum)	VELOCITY	PRESSURE
<b>45-120 Sharps (Continued)</b>				
500 gr Lyman #457125 (Cont.)	H322	52.0 gr	1695 fps	28,300 CUP
	H4198	46.5 gr	1650 fps	28,300 CUP
<b>50-140 Sharps</b>				
425 gr Lyman #515141	H4831	125.0 gr	2209 fps	26,300 CUP
	H4350	114.0 gr	2242 fps	26,700 CUP
	Varget	102.5 gr	2294 fps	28,100 CUP
515 gr Lyman #515142	H4831	118.0 gr	2085 fps	27,500 CUP
	H4350	108.0 gr	2091 fps	27,200 CUP
	Varget	95.0 gr	2088 fps	27,900 CUP

\*H-110 and H-4227 load should not be reduced more than 3% due to inconsistency at velocity at the lower pressure

**Pocket Pistol - Maximum Loads**

BULLET	POWDER	GRAINS (Maximum)	VELOCITY	PRESSURE
<b>32 S &amp; W</b>				
85 gr Cast	HP38	1.4 gr	680 fps	
<b>32 S &amp; W Long</b>				
90 gr Cast	HP38	1.9 gr	700 fps	
<b>38 S &amp; W</b>				
145 gr Cast	HP38	2.5 gr	630 fps	
<b>38 Short Colt</b>				
90 gr AA 206 LRN	Universal	3.4 gr	775 fps	
	HP38	2.8 gr	749 fps	
	TiteGroup	2.7 gr	791 fps	
	Clays	2.1 gr	778 fps	
135 gr AA 202 LFP	Universal	2.8 gr	771 fps	
	HP38	2.8 gr	777 fps	
	TiteGroup	2.7 gr	760 fps	
	Clays	2.1 gr	731 fps	

**Pyrodex Pellets in Metallic Cartridges**

CARTRIDGE	BULLET	PELLETS USED	VELOCITY	PRESSURE
44 REM MAG	240 SWC	1-Pyrodex Pistol	1053 fps	17,100 CUP
44 / 40 WCF	200 RNFP	1-Pyrodex Pistol	943 fps	12,700 CUP
45 Colt	230 RNFP	1-Pyrodex Pistol	870 fps	9,600 CUP
	250 RNFP	1-Pyrodex Pistol	818 fps	10,000 CUP
45-70 Gov.	405 RNFP	1 - 50/50	1015 fps	14,200 CUP
	405 RNFP	2 - 50/30	1270 fps	27,200 CUP
	405 RNFP	2-Pyrodex Pistol	1231 fps	21,900 CUP

Contact Hodgdon Powder Co. for a copy of our Basic Smokeless Reloader Manual or Basic Muzzleloading information.

**Long Range Rifle - Maximum Loads**

BULLET	POWDER	GRAINS (Maximum)	VELOCITY	PRESSURE
<b>25-35 Winchester</b>				
90 gr LFP W/GC	Titegroup	7.0 gr	1513 fps	28,900 CUP
<b>30-30 Winchester</b>				
160 gr Cast	H4895	21.0 gr	1562 fps	23,100 CUP
	H4198	17.0 gr	1616 fps	20,600 CUP
<b>32-40 Winchester</b>				
196 gr Cast	H110	12.0 gr	1376 fps	19,200 CUP
	H4227	13.0 gr	1267 fps	18,000 CUP
<b>38-55 Winchester</b>				
250 gr Cast	H4895	26.0 gr	1600 fps	26,500 CUP
	H4198	21.0 gr	1608 fps	23,700 CUP
<b>40-65 Winchester (Single Shot)</b>				
400 gr Buffalo Arms Lead RNFP	Varget	38.0 gr	1558 fps	24,800 CUP
	H4895	36.0 gr	1554 fps	24,200 CUP
	Benchmark	32.5 gr	1491 fps	25,000 CUP
	H322	33.0 gr	1520 fps	23,900 CUP
	H4198	31.0 gr	1572 fps	24,700 CUP
	H4227	23.0 gr	1410 fps	24,900 CUP
<b>45-70 Government</b>				
300 gr Cast	Varget	55.0 gr	1880 fps	20,600 CUP
	H4895	51.0 gr	1703 fps	15,500 CUP
	H4198	35.5 gr	1641 fps	16,100 CUP
385 gr Cast	Varget	52.5 gr	1805 fps	21,800 CUP
	H4895	42.0 gr	1526 fps	23,100 CUP
	H4198	32.0 gr	1483 fps	14,700 CUP
405 gr Cast	Varget	50.0 gr	1718 fps	20,900 CUP
	H4895	48.0 gr	1645 fps	18,900 CUP
	H4198	31.0 gr	1459 fps	17,100 CUP
485 gr Cast	H4895	39.0 gr	1403 fps	22,700 CUP
	H4198	32.0 gr	1434 fps	20,400 CUP
<b>45-120 Sharps</b>				
350 gr Lyman #457122	H4895	64.0 gr	2031 fps	26,900 CUP
	Benchmark	57.0 gr	1922 fps	26,800 CUP
	H322	53.0 gr	1874 fps	27,700 CUP
	H4198	49.0 gr	1903 fps	27,500 CUP
405 gr Lyman #457193	Varget	63.0 gr	1858 fps	28,200 CUP
	H4895	64.0 gr	2012 fps	28,300 CUP
	Benchmark	58.0 gr	1917 fps	27,200 CUP
	H322	52.5 gr	1793 fps	27,900 CUP
500 gr Lyman #457125	H4198	48.0 gr	1818 fps	27,200 CUP
	Varget	61.0 gr	1737 fps	27,900 CUP
	H4895	60.0 gr	1809 fps	28,500 CUP
	Benchmark	54.5 gr	1747 fps	28,200 CUP

\*H-110 and H-4227 load should not be reduced more than 3% due to inconsistency at velocity at the lower pressure

**Smokeless Pistol and Carbine - Maximum Loads**

BULLET	POWDER	GRAINS (Maximum)	VELOCITY	PRESSURE
<b>357 Magnum (Continued)</b>				
135 gr Lead RNFP (continued)	HP38	5.3 gr	1027 fps	19,400 CUP
	TiteGroup	5.2 gr	1186 fps	24,500 CUP
	Clays	5.1 gr	1207 fps	30,200 CUP
158 gr Lead SWC	Universal	6.2 gr	1247 fps	33,400 CUP
	HP38	5.0 gr	1109 fps	23,900 CUP
	TiteGroup	5.0 gr	1108 fps	24,900 CUP
	Clays	4.6 gr	1079 fps	33,600 CUP
<b>38 - 40 WCF (in PSI)</b>				
180 gr Lead RNFP	Universal	7.5 gr	955 fps	11,900 PSI
	HP38	6.8 gr	934 fps	13,500 PSI
	TiteGroup	6.4 gr	990 fps	13,300 PSI
	Clays	5.5 gr	889 fps	13,500 PSI
<b>44 - 40 WCF (in PSI)</b>				
200 gr Lead RNFP	Universal	7.3 gr	777 fps	11,100 PSI
	HP38	6.5 gr	820 fps	12,400 PSI
	TiteGroup	6.2 gr	901 fps	12,900 PSI
	Clays	5.0 gr	765 fps	11,700 PSI
<b>44 Russian</b>				
160 - 165 gr Lead RNFP	HP38	5.2 gr	1002 fps	10,400 CUP
	TiteGroup	5.3 gr	1076 fps	12,000 CUP
	Clays	4.0 gr	977 fps	11,100 CUP
200 gr Lead RNFP	Universal	5.7 gr	970 fps	11,500 CUP
	HP38	5.0 gr	900 fps	11,300 CUP
	TiteGroup	4.8 gr	963 fps	11,400 CUP
	Clays	3.7 gr	837 fps	11,100 CUP
240 gr Lead RNFP	Universal	4.6 gr	841 fps	11,000 CUP
	HP38	4.8 gr	842 fps	11,000 CUP
	TiteGroup	4.2 gr	837 fps	11,500 CUP
	Clays	3.5 gr	769 fps	10,700 CUP
<b>44 Colt</b>				
165 gr Lead RNFP	HP38	5.5 gr	983	9,300 CUP
	TiteGroup	5.0 gr	1020	9,300 CUP
	Clays	4.2 gr	944	9,000 CUP
185 gr Lead RNFP	HP38	5.3 gr	928	9,400 CUP
	TiteGroup	4.8 gr	950	9,500 CUP
	Clays	4.2 gr	893	9,600 CUP
200 gr Lead RNFP	Universal	5.7 gr	927	9,900 CUP
	HP38	5.3 gr	881	9,400 CUP
	TiteGroup	4.8 gr	912	10,000 CUP
	Clays	3.9 gr	831	10,000 CUP
240 gr Lead RNFP	Universal	5.2 gr	870	10,400 CUP
	HP38	4.9 gr	827	9,900 CUP
	TiteGroup	4.3 gr	826	10,000 CUP
	Clays	4.7 gr	818	9,500 CUP

<b>Smokeless Pistol and Carbine - Maximum Loads</b>					
BULLET	POWDER	GRAINS (Maximum)	VELOCITY	PRESSURE	
<b>44 Special</b>					
160-165 gr Lead RNFP	Universal	6.3 gr	1042 fps	10,900 CUP	
	HP38	6.0 gr	1040 fps	12,000 CUP	
	TiteGroup	5.8 gr	1035 fps	13,400 CUP	
	Clays	4.6 gr	1009 fps	13,400 CUP	
185 gr Lead RNFP	Universal	6.4 gr	1031 fps	13,900 CUP	
	HP38	5.6 gr	953 fps	12,500 CUP	
	TiteGroup	5.5 gr	1025 fps	11,600 CUP	
	Clays	4.2 gr	930 fps	13,200 CUP	
200 gr Lead RNFP	Universal	6.5 gr	960 fps	12,900 CUP	
	International	5.2 gr	919 fps	13,500 CUP	
	HP38	5.6 gr	918 fps	12,500 CUP	
	TiteGroup	5.4 gr	973 fps	13,100 CUP	
240 gr Lead SWC	Clays	4.5 gr	891 fps	14,000 CUP	
	Universal	5.6 gr	873 fps	13,300 CUP	
	International	4.7 gr	825 fps	13,000 CUP	
	HP38	5.2 gr	858 fps	13,200 CUP	
240 gr Lead SWC	TiteGroup	4.8 gr	862 fps	13,100 CUP	
	Clays	4.0 gr	771 fps	13,500 CUP	
	<b>44 Magnum</b>				
	160-165 gr Lead RNFP	Universal	7.2 gr	1059 fps	11,500 CUP
HP38		7.0 gr	1088 fps	13,900 CUP	
TiteGroup		6.5 gr	1083 fps	16,400 CUP	
Clays		5.5 gr	1064 fps	15,500 CUP	
185 gr Lead RNFP	Universal	7.4 gr	1070 fps	12,600 CUP	
	HP38	7.2 gr	1058 fps	14,700 CUP	
	TiteGroup	6.6 gr	1082 fps	16,500 CUP	
	Clays	6.0 gr	1043 fps	18,400 CUP	
200 gr Lead RNFP	Universal	7.8 gr	1045 fps	15,400 CUP	
	International	6.8 gr	1044 fps	18,300 CUP	
	HP38	7.4 gr	1039 fps	16,700 CUP	
	TiteGroup	6.6 gr	1061 fps	17,300 CUP	
240 gr Lead SWC	Clays	6.4 gr	1028 fps	20,200 CUP	
	Universal	7.6 gr	1009 fps	19,900 CUP	
	International	6.5 gr	970 fps	21,700 CUP	
	HP38	7.2 gr	961 fps	18,400 CUP	
240 gr Lead SWC	TiteGroup	6.2 gr	970 fps	18,400 CUP	
	Clays	6.2 gr	940 fps	21,800 CUP	
	<b>45 S &amp; W (Schofield)</b>				
	200 gr Lead RNFP	Universal	7.0 gr	938 fps	13,100 CUP
HP38		6.2 gr	877 fps	13,000 CUP	
TiteGroup		6.0 gr	925 fps	12,100 CUP	
Clays		5.0 gr	845 fps	13,100 CUP	

\*H-110 and H-4227 load should not be reduced more than 3% due to inconsistency at velocity at the lower pressure

<b>Smokeless Pistol and Carbine - Maximum Loads</b>				
BULLET	POWDER	GRAINS (Maximum)	VELOCITY	PRESSURE
<b>45 S &amp; W (Schofield) (Continued)</b>				
225-230 gr Lead RNFP	Universal	6.0 gr	816 fps	11,400 CUP
	HP38	5.7 gr	816 fps	12,700 CUP
	TiteGroup	5.8 gr	866 fps	12,300 CUP
250 gr Lead RNFP	Clays	4.7 gr	783 fps	13,600 CUP
	Universal	6.3 gr	830 fps	13,800 CUP
	HP38	5.2 gr	741 fps	12,100 CUP
250 gr Lead RNFP	TiteGroup	5.3 gr	811 fps	11,600 CUP
	Clays	4.2 gr	710 fps	12,500 CUP
	<b>45 Long Colt</b>			
160-165 gr Lead RNFP	Universal	9.5 gr	1197 fps	12,900 CUP
	HP38	9.0 gr	1177 fps	13,800 CUP
	TiteGroup	7.0 gr	1051 fps	9,100 CUP
180 gr Lead RNFP	Clays	6.4 gr	1083 fps	13,500 CUP
	Universal	9.2 gr	1161 fps	13,900 CUP
	HP38	8.2 gr	1087 fps	13,900 CUP
200 gr Lead RNFP	TiteGroup	6.9 gr	1020 fps	10,900 CUP
	Clays	6.0 gr	1016 fps	13,800 CUP
	200 gr Lead RNFP	Universal	8.8 gr	1067 fps
HP38		8.0 gr	1002 fps	13,800 CUP
TiteGroup		7.7 gr	1050 fps	12,700 CUP
215 gr Lead RNFP	Clays	5.9 gr	931 fps	13,100 CUP
	Universal	8.6 gr	1001 fps	13,800 CUP
	HP38	7.8 gr	965 fps	13,500 CUP
225-230 gr Lead RNFP	TiteGroup	7.2 gr	983 fps	12,100 CUP
	Clays	5.7 gr	889 fps	13,400 CUP
	250 gr Lead RNFP	Universal	8.1 gr	975 fps
HP38		7.3 gr	941 fps	13,700 CUP
TiteGroup		6.5 gr	934 fps	13,000 CUP
250 gr Lead RNFP	Clays	5.4 gr	865 fps	13,900 CUP
	HS-6	10.5 gr	946 fps	13,300 CUP
	Universal	7.8 gr	941 fps	13,000 CUP
250 gr Lead RNFP	International	6.0 gr	866 fps	13,400 CUP
	HP38	7.1 gr	916 fps	13,900 CUP
	TiteGroup	6.2 gr	881 fps	13,000 CUP
250 gr Lead RNFP	Clays	5.1 gr	817 fps	13,400 CUP

**Long Range Rifle**

The loads listed below are representative of common calibers used. As there are so many cartridges which could be used, only a few are shown. DO NOT USE ANY FILLER MATERIAL WITH THESE LOADS, as fillers can alter pressure & velocities decidedly. Velocities are limited to approximately 1600 fps due to excessive leading at higher velocities. If you want to use any other cartridge, consult the 26th edition of Hodgdon's Powder Manual or contact us for advice .

**Use flat point bullets in tubular magazines.**

\*H-110 and H-4227 loads should not be reduced more than 3% due to inconsistency of velocity at the lower pressure.