

Reloading The .45 ACP (Automatic Colt Pistol)

Loads for .45 ACP:

New 2012 note on .45 ACP cases using small pistol primers vs. the large pistol primers. Not long ago shooters began to report brass that had a small pistol primer pocket instead of the traditional large, due to the use of a more “green” environment primer. More and more range ammo is being sold with the less air polluting primers fitting cases with small pockets. The DANGER here is mixing up a batch of used cases and trying to seat a large primer in a small pocket. Most likely if you use a fair amount of force on the press, it will explode as it is being crushed from not fitting in the small pocket. Loads are generally the same and no documentation has been presented saying anything but if changing from tested maximum loads with one type, back off a bit before using the opposite primer.

(Note: These are near MAXIMUM loads, you should use 10% less to start.)

(See note on Powders below or read all about various Powders.) (See note on NEW Nitro 100 powder at bottom of page)

Bullet sizes vary from .451” for jacketed to .452” for some lead in diameter. Due to different barrel lengths, type of bullet, seating depth, primer type and other factors, you may not get near the FPS charted. It is just a guide and the reason you should start under these charges and work up.

ACP is an acronym that stands for Automatic Cartridge (& Colt) Pistol. It was used by various John Browning cartridge designs primarily used in Colt and FN pistols.

(Note H110 & W296 are the same as of 2008 as is HP-38 & W231)

(IMR 4227 is same as H-4227 if made in Australia)

155 grain LSWC (Lead, Semi-Wad Cutter)

Nitro 100	use 5.9 to 6.5 grains	1,148 fps max.
Bullseye	6.9 gr.	1,175 FPS
Unique	7.4 gr.	1,180
Universal	6.5 gr.	1,015 start
Universal	7.0 gr.	1,135 max
Clays	4.9 gr.	1,040 start
Clays	5.2 gr.	1,082 max
HP38/W231	6.0 gr.	998
HP38/W231	6.7 gr.	1,112 max
No. 2	7.5 gr.	1,204
No. 5	10.0 gr.	1,189
HS-6	9.0 gr.	998 start
HS-6	10.0 gr.	1,126 max
540	8.5 gr.	940
Titegroup	5.7 gr.	1,039 start
Titegroup	6.2 gr.	1,132 max

180 grain LEAD FP

Nitro 100 use 5.3 to 5.9 grains max

Trail Boss	3.5 gr.	664 start
Trail Boss	5.0 gr.	852 max
HS-6	7.8 gr.	805 start
HS-6	9.0 gr.	961 max
Clays	3.8 gr.	783 start
Clays	4.5 gr.	910 max
Universal	5.3 gr.	755
Universal	6.4 gr.	1,019 max
Titegroup	4.2 gr.	771
Titegroup	5.2 gr.	946 max
231/HP-38	5.0 gr.	778
231/HP-38	6.0 gr.	950 max

185 grain Berry's Plated RNHB (Round Nose Hollow Base)

Bullseye	4.5 gr.	enough to function action (John Harris load)
Bullseye	4.8 gr.	Works well and accurate (John Harris load)
Bullseye	5.2 gr.	905 Hi=917, Lo=891, ES=26
ZIP	6.2 gr.	939 Hi=974, Lo=913, ES=61
Titegroup	5.4 gr.	860 Hi=888, Lo=845, ES=43
Competition – try 4.0 to 5.0 grains.		

185 grain Matt's Lead HP bullet

Titegroup	4.9 gr.	926 Hi=941, Lo=909, ES=32 (good)
Titegroup	5.2 gr.	942 Hi=960, Lo=921, ES=39 (also good load)

185 grain JHP or JSP (Jacketed Hollow or Soft Point)

Nitro 100 +P load, use 6.2 to 6.8 gr. HOT +P load 1,050 fps.

Bullseye	5.3 gr.	914 FPS
Unique	7.0 gr.	928
Unique	6.0 gr.	765 (actual in Colt45 ACP for mild load)
Unique	7.2 gr.	988 MAX
Universal	6.0 gr.	908 start
Universal	6.4 gr.	977 max
Clays	4.5 gr.	855 start
Clays	4.9 gr.	981 max
Titegroup	5.0 gr.	892 start
Titegroup	5.5 gr.	956 max
PowerPistol	9.1 gr.	997 near max
HP38/W231	5.0 gr.	762 start

HP38/W231	5.9 gr.	906 max
HS-6	8.6 gr.	917
No. 2	7.5 gr.	1,077
No. 5	10.2 gr.	1,102
540	10.0 gr.	1,015
WST	5.6 gr.	935
WAP	8.9 gr.	1,045

200 grain LSWC or LRN (Lead, SWC or Round Nose)

Nitro 100	use 5.0 to 5.5 grains	max
Bullseye	4.2 gr.	790 FPS
Bullseye	4.8 gr.	815
Unique	5.1 gr.	814
Unique	5.6 gr.	904
Unique	5.7 gr.	842 (different gun)
Unique	6.0 gr.	867 Max
Universal	5.4 gr.	804
Universal	6.2 gr.	955 (MAX)
Titegroup	4.9 gr.	874
Titegroup	5.4 gr.	957 (MAX HOT)
Clays	4.3 gr.	888
HP38/W231	4.4 gr.	771 start
HP38/W231	5.6 gr.	914 max
231	5.5 gr.	910
231	6.0 gr.	942 max (old book load)
ZIP	5.8 gr.	971 max
HS-6	8.4 gr.	907
No. 2	5.8 gr.	939
No. 5	8.7 gr.	1,025
540	8.3 gr.	925
WST	5.1 gr.	910
WAP	7.6 gr.	970
Trail Boss	3.5 gr.	652
Trail Boss	4.5 gr.	783 RNFP lead, Hi=820, Lo=758, ES=62 Works Action-Mild
Trail Boss	5.5 gr.	816 max

200 grain FMJ full jacketed RN Hornady

Nitro 100	use 5.4 to 6.0 grains	max *(old powder loads)
Nitro 100+P	use 5.9 to 6.2 grains +P	max *(old powder loads)
Titegroup	4.7 gr.	812 start
Titegroup	5.4 gr.	944 max

No. 2	6.1 gr.	921	near max
HP-38/W231	5.2 gr.	794	start
HP-38/W231	5.9 gr.	906	max
HS-6	8.2 gr.	868	start
HS-6	9.0 gr.	948	max
Universal	5.8 gr.	889	start
Universal	6.2 gr.	949	max
ZIP	6.4 gr.	955	
Unique	5.6 gr.	692	mild target load
Unique	7.0 gr.	882	and 929 in different guns
Unique	7.2 gr.	MAX	894 and 945 in different guns

205 grain Matt's Lead HP bullet

Titegroup 5.4 gr. 920 Hi=962, Lo=905, ES=57 (Good)
ZIP 6.2 gr. 986 Hi=1006, Lo=965, ES=41

225 grain Speer JHP (Jacketed Hollow Point)

Bullseye 4.8 gr. 884 FPS
Unique 6.0 gr. 898
Universal 6.2 gr. 820
HP38 5.3 gr. 832
HS-6 8.2 gr. 825
No. 2 5.6 gr. —
No. 5 8.5 gr. —
231 5.2 gr. 824
WAP 7.9 gr. 895
ZIP 5.8 gr. 812

230 grain LSWC or LRN (Semi-Wad Cutter or Round Nose) (these loads work for the RN Plated bullet,too-don't use max)

Bullseye 4.0 gr. 810 FPS (target accuracy load)
Bullseye 4.8 gr. 884 hot load/Maximum.
Nitro 100 use 4.8 to 5.3 grains max (use 10% less if NEW formulation)
Clays 3.5 gr. 716 start
Clays 4.0 gr. 793 MAX with LRN
ZIP 5.2 gr. 828
ZIP 5.5 gr. 873
ZIP 5.8 gr. 915 max
Unique 5.5 gr. 795 (I got 738 fps in my gun)
Unique 5.5 gr. 913 (in Marlin auto carbine)
Unique 6.0 gr. 840* (I got 777 fps in my gun)

Unique	6.0 gr.	924* (in Marlin auto carbine)
Universal	4.5 gr.	703 start
Universal	4.8 gr.	782
Universal	5.4 gr.	857 max
Red Dot	4.0 gr.	808
Red Dot	4.4 gr.	807 max
Green Dot	4.3 gr.	810
Blue Dot	10.0 gr.	855
Titegroup	4.0 gr.	751 start
Titegroup	4.3 gr.	788
Titegroup	4.8 gr.	855 (MAX)
No. 2	5.6 gr.	870
No. 5	8.5 gr.	968
540	7.6 gr.	860
Trail Boss	3.5 gr.	658 start
Trail Boss	4.4 gr.	748 (using Carolina Cast bullet)
Trail Boss	4.5 gr.	778 Hi=803, Lo=756, ES=47 RNFP bullet
Trail Boss	4.6 gr.	756 max (Hi=769, Lo=741, ES=28) Carolina Cast RN
WST	4.5 gr.	805
HS-6	8.0 gr.	858 MAX
WAP	7.3 gr.	915
HP-38/W231	4.3 gr.	699 start
HP-38	5.1 gr.	785 (Near Max)
HP-38/W231	5.3 gr.	834 Maximum
231	5.1 gr.	850 (I got 734 in my S&W)
True Blue	6.7 gr.	820
True Blue	7.4 gr.	913 max
Silhouette	7.0 gr.	882 max
Competition	3.6 gr.	725
Competition	4.0 gr.	805 max

* Alliant shows this a Maximum load

230 grain FMJ or JHP (Jacketed Hollow Point)

Nitro 100	use 5.0 to 5.6 grains max	
Bullseye	4.8 gr.	884 FPS
Clays	3.7 gr.	670 start
Clays	4.0 gr.	732 MAX
Competition	3.8 gr.	694
Competition	4.2 gr.	771 max
HS-6	8.0 gr.	790 start
HS-6	8.2 gr.	825 max

Silhouette	7.3 gr.	868
Silhouette	8.1 gr.	964 max
Tightgroup	4.4 gr.	744
Tightgroup	4.8 gr.	815 max
Unique	5.3 gr.	880
Unique	5.8 gr.	901 max
Universal	5.1 gr.	716 start
Universal	5.6 gr.	844 max in Hodgdon manual
HP38/W231	4.2 gr.	751 start
HP38/W231	5.3 gr.	832 max
HS6	8.0 gr.	815
HS6	8.2 gr.	825 max
PowerPistol	6.8 gr.	815
No. 2	6.1 gr.	874 max
No. 5	8.7 gr.	927 max
231	5.1 gr.	785
540	7.6 gr.	800
WST	4.9 gr.	800
WAP	7.4 gr.	885
True Blue	6.8 gr.	802
True Blue	7.1 gr.	804
True Blue	7.6 gr.	889 max
CCI commercial comparison		875 Hi=881, Lo=868, ES=13 (excellent load)
Blazer Brass 230 FMJ		812 Hi=888, Lo=735, ES=152

260 grain FMJ or JHP Revolver Loads

Bullseye	4.5 gr.	725 FPS
Unique	5.4 gr.	760
HP38	5.1 gr.	800
HS6	8.0 gr.	849
No. 2	5.5 gr.	785
No. 5	7.7 gr.	845
231	5.0 gr.	788

*If you have an older can of Scot Nitro 100 or Accurate Nitro 100, please note, it is NOT the same as the new formulation at Western Powders. I have been told as of 2011 that the NEW and current N-100 is faster burning in pistol calibers than the old. Use 10% UNDER any values you see here for older N-100. The older was slower burning in pistol calibers.

Discussion: The small case and short powder burning time of the .45 ACP requires a faster burning powder, like Bullseye or Unique. Trail Boss is new for the .45 ACP, but it shoots very well with a lead bullet (you can use jacketed also) and is quite mild but works the slide well in loads I have tested so far. The almost standard bullet is the 230 grain round nose (lead, jacketed or plated), since it feeds so well in autos. More shooters are using the 200 grain SWC as of 2011 than in the past. You need the driving

bands to hold the bullet tightly with just the taper crimp on the .45 ACP. Be careful with the lightweight bullets. If they get driven into the case with recoil or feeding, you are in for a lot of trouble and possibly an explosion.

However, the SWC has a round enough nose that it feeds well in most autos and makes a cleaner target cut-out. If you were to be hunting or for protection, you might consider the Jacketed Hollow Point bullet shown in the loaded round. Whether you use the lead or full metal jacketed bullet is up to you, but the lead is, of course, much cheaper if you shoot very much. Because of lead fumes in the air, you should consider using a jacketed or copper plated bullet indoors unless well ventilated.



Bullseye, Unique and 2400 are products of Alliant (formerly Hercules) Powders.

Clays, Universal, HP38, HS6 and H4895 are products of Hodgdon Powders.

IMR 3031 and IMR 4895 are products of IMR (formerly DuPont) Powder Company.

No. 2, No. 5, #2230, and #2460 are products of Accurate Arms Company

WMR, WSF, WSL, 760, 748, 231 and 540 are products of Winchester, Components Div.

References: Accurate Arms Co. 1996 Reloading booklet – – Alliant Powder Co. Reloaders' Guide (1995) – – Hodgdon's Basic Reloaders Manual (1996) – – Speer Reloading Manual, #12 – – Winchester Reloading Components Manual, 14th edition – – Lyman Piston & Revolver Reloading Handbook, 2nd edition. – – VihtaVuori Oy Company, reloading booklet (1995) – – Numerous magazine articles on reloading special calibers and personal loads where noted.



45 Automatic

.451"	45 GDHP	45 TMJ® FN
Weight (grains)	185	185
Ballistic Coefficient	0.109	0.094
Sectional Density	0.130	0.130
COAL Tested	1.200"	1.200"
Speer Part No.	4470	4476

Propellant	Case	Primer	START CHARGE		MAXIMUM CHARGE	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Alliant BE-86	Federal	Federal 150	6.9	944	8.9	1172
Accurate No. 5	Federal	Federal 150	9.5	1053	10.6	1169
Alliant Power Pistol	Federal	Federal 150	8.2	1016	9.5	1162
Hodgdon CFE Pistol	Federal	Federal 150	7.1	925	9.0	1157
Accurate No. 7	Federal	Federal 150	10.8	1022	12.0	1154
Alliant Unique	Federal	Federal 150	7.3	1058	8.2	1151
Winchester AutoComp	Federal	Federal 150	6.9	912	8.9	1145
Hodgdon H. Universal	Federal	Federal 150	6.9	998	7.7	1125
IMR SR 7625	Federal	Federal 150	7.0	979	7.8	1094
Hodgdon HS-6	Federal	Federal 150	8.9	966	9.9	1080
Hodgdon Hi-Skor 700-X	Federal	Federal 150	5.8	993	6.5	1079
Winchester WSF	Federal	Federal 150	6.9	951	7.7	1071
Winchester 231	Federal	Federal 150	6.6	995	7.4	1069
Alliant Sport Pistol	Federal	Federal 150	5.5	884	6.9	1069
Accurate No. 2	Federal	Federal 150	6.0	974	6.7	1043
Vihtavuori 3N37	Federal	Federal 150	8.1	913	9.0	1043
Alliant Bullseye	Federal	Federal 150	5.7	957	6.4	1039
Alliant American Select	Federal	Federal 150	5.5	902	6.2	984

WARNING: Improper handloading practices can result in serious personal injury and/or property damage. Refer to the current SPEER® Reloading Manual for handloading instructions. Be thoroughly familiar with those instructions before using these loads. As Vista Outdoor Operations LLC has no control over individual handloading practices or the condition of firearms in which the resulting ammo may be used, we disclaim all liability for any damages that may result from the use of this information.

Maximum loads should be used with CAUTION • C = Compressed Load



45 Automatic

.451"	45
Weight (grains)	TMJ® Match
Ballistic Coefficient	SWC
Sectional Density	185
COAL Tested	0.090
Speer Part No.	0.130
	1.275"
	4473

NOTE: These loads are not necessarily at maximum pressure. They are held to velocities popular for target shooting.

Propellant	Case	Primer	START CHARGE		MAXIMUM CHARGE	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Accurate No. 5	Speer	CCI 300	7.2	764	8.0	859
Alliant Red Dot	Speer	CCI 300	4.5	767	4.9	829
Alliant Unique	Speer	CCI 300	5.0	652	5.8	829
Alliant Bullseye	Speer	CCI 300	4.5	727	4.9	790
Hodgdon Hi-Skor 700-X	Speer	CCI 300	4.3	701	4.7	788
IMR PB	Speer	CCI 300	5.0	719	5.5	770
Hodgdon HP-38	Speer	CCI 300	4.9	668	5.4	759
Winchester 231	Speer	CCI 300	5.0	669	5.5	752
IMR SR 7625	Speer	CCI 300	5.1	615	5.6	717

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45 Automatic

.452"	45
Weight (grains)	LSWC
Ballistic Coefficient	200
Sectional Density	0.078
COAL Tested	0.140
Speer Part No.	1.190"
	4678

NOTE: These loads are not necessarily at maximum pressure. They are held to velocities popular for target shooting.

Propellant	Case	Primer	START CHARGE		MAXIMUM CHARGE	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Alliant Red Dot	Speer	CCI 300	4.1	749	4.5	831
Alliant Herco	Speer	CCI 300	5.5	750	6.0	826
IMR SR 7625	Speer	CCI 300	4.7	726	5.2	811
Alliant Bullseye	Speer	CCI 300	4.2	744	4.6	807
Hodgdon H. Universal	Speer	CCI 300	4.9	710	5.4	804
Winchester 231	Speer	CCI 300	4.6	739	5.0	803
IMR SR 4756	Speer	CCI 300	5.3	728	5.8	800
Alliant Unique	Speer	CCI 300	4.9	716	5.4	790
Hodgdon Hi-Skor 700-X	Speer	CCI 300	3.8	715	4.2	790

* Data was shot in a 4.4" barrel.

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45 Automatic

.451"	45 TMJ® Match SWC	45 GDHP
Weight (grains)	200	200
Ballistic Coefficient	0.128	0.138
Sectional Density	0.140	0.140
COAL Tested	1.275"	1.200"
Speer Part No.	4475	4478

Propellant	Case	Primer	START CHARGE		MAXIMUM CHARGE	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Alliant BE-86	Federal	Federal 150	6.0	825	8.1	1083
Winchester AutoComp	Federal	Federal 150	6.2	834	8.1	1076
Hodgdon CFE Pistol	Federal	Federal 150	6.1	824	8.1	1067
Alliant Unique	Federal	Federal 150	6.5	927	7.3	1057
Hodgdon HS-6	Federal	Federal 150	8.5	944	9.5	1054
Alliant Blue Dot	Federal	Federal 150	9.4	917	10.5	1048
Accurate No. 7	Federal	Federal 150	9.9	912	11.0	1037
Alliant Power Pistol	Federal	Federal 150	7.0	874	8.3	1026
Hodgdon H. Universal	Federal	Federal 150	6.3	905	7.0	1018
Accurate No. 5	Federal	Federal 150	8.1	916	9.0	1013
Winchester WSF	Federal	Federal 150	6.4	894	7.2	1004
Alliant Sport Pistol	Federal	Federal 150	4.8	779	6.3	993
Alliant Bullseye	Federal	Federal 150	5.2	864	5.8	957
Vihtavuori N340	Federal	Federal 150	6.3	814	7.0	947
Vihtavuori 3N37	Federal	Federal 150	7.3	794	8.2	942
Winchester 231	Federal	Federal 150	5.6	826	6.3	931

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45 Automatic

.452"	45
Weight (grains)	LRN
Ballistic Coefficient	230
Sectional Density	0.160
COAL Tested	0.161
Speer Part No.	1.240"
	4691

Propellant	Case	Primer	START CHARGE		MAXIMUM CHARGE	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Hodgdon CFE Pistol	Federal	Federal 150	5.6	809	7.2	989
Winchester AutoComp	Federal	Federal 150	5.6	795	7.3	988
Alliant BE 86	Federal	Federal 150	5.8	850	7.2	986
Alliant Herco	Federal	Federal 150	5.9	884	6.4	931
Alliant Sport Pistol	Federal	Federal 150	4.4	777	5.6	919
Alliant Green Dot	Federal	Federal 150	4.8	847	5.3	908
Alliant Red Dot	Federal	Federal 150	4.7	856	5.1	899
Alliant Unique	Federal	Federal 150	5.3	837	5.8	895
Hodgdon Hi-Skor 700-X	Federal	Federal 150	4.3	839	4.7	890
Hodgdon H. Universal	Federal	Federal 150	5.2	818	5.5	867
Winchester 231	Federal	Federal 150	5.1	794	5.6	853
IMR SR 4756	Federal	Federal 150	6.0	739	6.5	816

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45 Automatic

.451"	45 GDHP SB	45 GDHP
Weight (grains)	230	230
Ballistic Coefficient	0.148	0.143
Sectional Density	0.162	0.162
COAL Tested	1.200"	1.200"
Speer Part No.	4482	4483

Propellant	Case	Primer	START CHARGE		MAXIMUM CHARGE	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Alliant Blue Dot	Federal	Federal 150	8.1	822	9.0	957
Accurate No. 7	Federal	Federal 150	8.6	842	9.6	955
Hodgdon HS-6	Federal	Federal 150	7.2	816	8.0	945
Alliant Power Pistol	Federal	Federal 150	6.3	800	7.4	943
Hodgdon CFE Pistol	Federal	Federal 150	6.0	820	6.9	940
Vihtavuori N350	Federal	Federal 150	6.3	821	7.1	939
Winchester AutoComp	Federal	Federal 150	6.0	828	6.8	930
Alliant BE-86	Federal	Federal 150	5.6	787	6.7	923
Hodgdon H. Universal	Federal	Federal 150	5.4	823	6.0	917
Alliant Unique	Federal	Federal 150	5.4	835	6.0	912
Accurate No. 5	Federal	Federal 150	7.0	811	7.8	906
IMR SR 7625	Federal	Federal 150	5.4	810	6.0	888
Vihtavuori N340	Federal	Federal 150	5.4	754	6.1	870
Hodgdon Hi-Skor 700-X	Federal	Federal 150	4.5	786	5.0	860
Winchester 231	Federal	Federal 150	5.0	774	5.6	859
Alliant Sport Pistol	Federal	Federal 150	4.6	769	5.2	852
Alliant Bullseye	Federal	Federal 150	4.5	763	5.0	846

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45 Automatic

.451"	45
Weight (grains)	230
Ballistic Coefficient	0.153
Sectional Density	0.162
COAL Tested	1.260"
Speer Part No.	4480

45
TMJ® RN

SAFETY NOTICE: Do not use these loads with the 230-grain Gold Dot HP (#4483). Gold Dot loads are in the next data block.

Propellant	Case	Primer	START CHARGE		MAXIMUM CHARGE	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Alliant Power Pistol	Federal	Federal 150	7.0	882	8.1	1001
Alliant BE-86	Federal	Federal 150	5.9	810	7.5	988
Winchester AutoComp	Federal	Federal 150	6.0	785	7.6	978
Hodgdon CFE Pistol	Federal	Federal 150	6.0	793	7.5	973
Hodgdon HS-6	Federal	Federal 150	7.8	873	8.5	947
Alliant Unique	Federal	Federal 150	5.5	806	6.5	920
Alliant Bullseye	Federal	Federal 150	5.2	849	5.7	914
Hodgdon H. Universal	Federal	Federal 150	5.5	806	6.3	910
Winchester 231	Federal	Federal 150	5.6	833	6.2	903
Alliant Sport Pistol	Federal	Federal 150	4.8	761	5.8	895
Alliant Red Dot	Federal	Federal 150	4.8	827	5.3	892
Hodgdon Hi-Skor 700-X	Federal	Federal 150	4.6	815	5.1	880
Vihtavuori N340	Federal	Federal 150	5.5	750	6.3	876

WARNING: Improper handloading practices can result in serious personal injury and/or property damage. Refer to the current SPEER® Reloading Manual for handloading instructions. Be thoroughly familiar with those instructions before using these loads. As Vista Outdoor Operations LLC has no control over individual handloading practices or the condition of firearms in which the resulting ammo may be used, we disclaim all liability for any damages that may result from the use of this information.

Maximum loads should be used with CAUTION • C = Compressed Load