



BULLET POWDER GR VEL CUP

223 REMINGTON

CASE: WINCHESTER

BBL: 15"

PR: WINCHESTER SR

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40 GR. NOS BT

COL: 2.280"

VARGET	28.0 C	3069	47,200 CUP
BL-C(2)	28.5	2910	45,400 CUP
H335	28.0	3231	44,600 CUP
H4895	27.5 C	3060	44,500 CUP
BENCHMARK	27.3	3174	51,000 CUP
H322	25.5	3087	48,000 CUP
H4198	22.5	3014	49,600 CUP

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50 GR. SPR SP

COL: 2.210"

VARGET	27.5 C	2959	44,800 CUP
BL-C(2)	28.0	2851	47,100 CUP
H335	26.0	2834	51,700 CUP
H4895	27.5 C	3024	51,300 CUP
BENCHMARK	26.5	2953	50,400 CUP
H322	24.0	2740	49,300 CUP
H4198	21.5	2824	45,900 CUP

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55 GR. SPR SP

COL: 2.200"

VARGET	27.5 C	2972	49,700 CUP
BL-C(2)	27.5	2816	48,500 CUP
H335	25.3	2799	49,300 CUP
H4895	26.0	2880	49,000 CUP
BENCHMARK	25.6	2840	50,000 CUP
H322	23.0	2638	48,900 CUP
H4198	21.0	2719	47,600 CUP

25 ACP

CASE: WINCHESTER

BBL: 2"

PR: FEDERAL 100M



50 GR. SIE FMJ

COL: 900"

UNIVERSAL 1.4 751 16,600 CUP

HP-38 1.5 788 17,900 CUP

TITEGROUP 1.3 752 17,200 CUP



7mm TCU

CASE: FEDERAL (REF)

BBL: 14"

PR: FEDERAL 205



120 GR. SPR SP

COL: 2.410"

BL-C(2) 28.0 2047

H335 27.0 2035

H4895 26.0 2020

H322 26.0 2117

H4198 23.0 2075

H4227 18.0 1914



139 GR. HDY SP

COL: 2.625"

BL-C(2) 27.0 1979

H335 26.0 1946

H4895 25.0 2001

H322 24.0 1938

H4198 21.0 1904

H4227 16.5 1635



7mm BR REMINGTON

CASE: REMINGTON

BBL: 14"

PR: WINCHESTER SR



120 GR. SIE SP

COL: 2.284"

BL-C(2) 32.0 2342

H335 31.0 2376

H4895 31.0 2363

H322 29.0 2323

H4198 24.5 2250



139 GR. HDY SP COL: 2.330"

BL-C(2) 30.5 2142

H335 29.0 2103

H4895 28.5 2115

H322 26.5 2092

H4198 23.0 1977



7mm-08 REMINGTON CASE: REMINGTON

BBL: 15" PR: REMINGTON 9 1/2



100 GR. BAR XFB COL: 2.650"

H380 49.0 2786 46,300 CUP

VARGET 45.7 2931 49,600 CUP

BL-C(2) 46.5 2873 50,000 CUP

H335 41.2 2752 49,700 CUP

H4895 45.0 2942 49,900 CUP

BENCHMARK 42.5 2827 49,600 CUP



139 GR. HDY SP COL: 2.800"

H4350 50.0 C 2581 47,500 CUP

H414 47.0 2451 44,100 CUP

H380 47.0 2528 46,800 CUP

VARGET 43.5 2612 50,000 CUP

BL-C(2) 44.7 2572 49,900 CUP

H335 40.0 2425 49,400 CUP

H4895 42.5 2575 50,200 CUP

BENCHMARK 40.5 2520 49,600 CUP



162 GR. HDY A-MAX COL: 2.875"

H4350 48.0 C 2472 49,800 CUP

H414 45.0 2388 44,500 CUP

H380 44.0 2369 45,800 CUP

VARGET	41.0	2468	49,800 CUP
H335	38.2	2338	50,100 CUP
H4895	39.5	2429	49,800 CUP
BENCHMARK	38.0	2394	49,200 CUP

30-30 WINCHESTER

CASE: WINCHESTER

BBL: 14"

PR: WINCHESTER LR



130 GR. SPR FP

COL: 2.540"

VARGET	36.0 C	2238	35,700 CUP
BL-C(2)	37.5	2101	32,800 CUP
H4895	35.0	2194	35,300 CUP
BENCHMARK	29.7	2020	37,100 CUP



150 GR. SIE FN

COL: 2.550"

VARGET	34.5	2119	36,200 CUP
BL-C(2)	37.0	2060	33,900 CUP
H4895	34.0	2116	36,700 CUP
BENCHMARK	29.0	1944	37,200 CUP

308 WINCHESTER

CASE: WINCHESTER

BBL: 15"

PR: FEDERAL 210M



130 GR. SPR HP

COL: 2.615"

VARGET	50.0 C	2847	50,400 CUP
BL-C(2)	51.5	2820	49,700 CUP
H335	46.0	2755	49,700 CUP
H4895	49.0 C	2831	50,100 CUP
BENCHMARK	46.0	2767	50,100 CUP
H322	43.0	2664	49,800 CUP
H4198	37.0	2590	49,700 CUP



150 GR. NOS BT

COL: 2.800"

VARGET	47.0 C	2675	50,300 CUP
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BL-C(2)	48.0	2614	50,000 CUP
H335	44.0	2541	51,200 CUP
H4895	45.5	2649	51,000 CUP
BENCHMARK	43.0	2596	49,000 CUP
H322	40.0	2471	50,500 CUP



168 GR. SIE HPBT **COL: 2.800"**

VARGET	46.0 C	2580	50,600 CUP
BL-C(2)	47.0	2531	50,200 CUP
H335	42.0	2406	49,300 CUP
H4895	43.5	2484	49,500 CUP
BENCHMARK	42.0	2463	49,300 CUP



32 ACP **CASE: WINCHESTER**

BBL: 4" **PR: FEDERAL 100**



71 GR. SIE FMJ **COL: .978"**

UNIVERSAL	2.4	881	14,900 CUP
HP-38	2.3	871	14,400 CUP
TITEGROUP	2.2	910	14,800 CUP
CLAYS	1.7	830	15,000 CUP



32 S&W LONG **CASE: REMINGTON**

BBL: 5.32" **PR: CCI 500**



85 GR. HDY JHP **COL: 1.160"**

UNIVERSAL	3.0	865	12,000 CUP
HP-38	2.7	810	11,500 CUP
TITEGROUP	2.4	819	11,300 CUP



90 GR. HDY LSWC **COL: 1.850"**

UNIVERSAL	2.7	844	10,200 CUP
HP-38	2.4	831	11,300 CUP
TITEGROUP	2.1	818	10,900 CUP

32 H&R MAGNUM

CASE: FEDERAL

BBL: 5"

PR: FEDERAL 100



85 GR. HDY HP

COL: 1.290"

H4227	9.5	1151	21,000 CUP
LIL'GUN	12.0	1263	16,800 CUP
HS-6	5.6	1146	20,200 CUP
UNIVERSAL	4.3	1123	19,000 CUP
HP-38	3.8	1003	20,700 CUP
TITEGROUP	3.7	1110	20,900 CUP



90 GR. SIE JHP

COL: 1.340"

H4227	10.0	1079	17,000 CUP
LIL'GUN	11.5	1227	18,000 CUP
HS-6	6.0	1140	20,200 CUP
UNIVERSAL	4.0	1072	20,000 CUP
HP-38	4.0	1033	20,300 CUP
TITEGROUP	3.6	1060	20,600 CUP

32-20 WINCHESTER

CASE: REMINGTON

BBL: 5.5"

PR: WINCHESTER SP



85 GR. HDY JHP

COL: 1.550"

LIL'GUN	8.0	1102	15,700 CUP
TITEGROUP	3.5	961	15,900 CUP



100 GR. REM JFP

COL: 1.580"

LIL'GUN	7.5	1018	15,700 CUP
TITEGROUP	3.5	908	16,000 CUP

380 AUTO

CASE: REMINGTON

BBL: 3.75"

PR: CCI 500



90 GR. HDY JHP **COL: .955"**

UNIVERSAL	3.6	955	15,700 CUP
HP-38	3.5	957	15,400 CUP
TITEGROUP	3.2	970	15,600 CUP



100 GR. HDY FMJ **COL: .980"**

UNIVERSAL	3.4	889	16,100 CUP
HP-38	3.1	843	15,400 CUP
TITEGROUP	3.0	912	14,700 CUP

9mm LUGER

CASE: STARLINE

BBL: 4"

PR: CCI 500

TWIST: 1:10"

TRIM: .750"



90 GR. SPR GDHP (Starting Loads) DIA. .355" COL: 1.010"

Longshot	6.0	1278	29,400 PSI
HS-6	7.9	1361	27,400 CUP
Universal	5.0	1170	25,700 CUP
HP-38	5.5	1312	25,400 CUP
Titegroup	4.7	1239	25,700 CUP

90 GR. SPR GDHP (Maximum Loads) DIA. .355" COL: 1.010"

Longshot	7.0	1378	32,300 PSI
HS-6	8.2	1413	30,900 CUP
Universal	5.5	1266	30,100 CUP
HP-38	5.8	1349	30,100 CUP
Titegroup	5.0	1305	30,000 CUP



95 GR. SIE FMJ (Starting Loads) DIA. .355" COL: 1.020"

Longshot	5.8	1192	25,800 PSI
HS-6	7.3	1232	26,500 CUP
Universal	4.6	1182	26,800 CUP
HP-38	4.8	1189	26,300 CUP
Titegroup	4.7	1241	28,500 CUP

95 GR. SIE FMJ (Maximum Loads) DIA. .355" COL: 1.020"

Longshot	6.8	1356	33,300 PSI
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HS-6	7.8	1339	31,300 CUP
Universal	5.2	1292	31,700 CUP
HP-38	5.3	1273	31,400 CUP
Titegroup	5.0	1298	32,000 CUP



100 GR. SPR FMJ (Starting Loads) DIA. .355" COL: 1.050"

Longshot	5.5	1158	26,500 CUP
HS-6	7.2	1270	23,900 CUP
Universal	4.8	1119	27,200 CUP
HP-38	5.1	1218	25,200 CUP
Titegroup	4.7	1234	28,300 CUP

100 GR. SPR FMJ (Maximum Loads) DIA. .355" COL: 1.050"

Longshot	6.5	1315	33,300 CUP
HS-6	7.5	1313	28,600 CUP
Universal	5.3	1212	31,500 CUP
HP-38	5.5	1282	28,400 CUP
Titegroup	5.0	1289	30,300 CUP



115 GR. LRN (Starting Loads) DIA. .356" COL: 1.100"

Longshot	5.0	1032	20,200 CUP
HS-6	6.4	1117	27,900 CUP
Universal	4.0	1034	24,400 CUP
HP-38	4.3	1079	28,400 CUP
Titegroup	3.9	1075	25,800 CUP
Clays	3.0	954	25,300 CUP

115 GR. LRN (Maximum Loads) DIA. .356" COL: 1.100"

Longshot	6.0	1166	27,300 CUP
HS-6	6.9	1170	32,200 CUP
Universal	4.5	1124	31,300 CUP
HP-38	4.8	1135	32,000 CUP
Titegroup	4.3	1151	30,500 CUP
Clays	3.4	1039	31,000 CUP



115 GR. SPR GDHP (Starting Loads) DIA. .355" COL: 1.105"

Longshot	5.0	1127	29,000 PSI
HS-6	6.7	1171	26,700 CUP

Universal	4.5	1029	27,400 CUP
HP-38	4.7	1075	25,300 CUP
Titegroup	4.5	1135	29,500 CUP
Clays	3.7	1066	30,900 CUP

115 GR. SPR GDHP (Maximum Loads) DIA. .355" COL: 1.105"

Longshot	6.0	1203	32,300 PSI
HS-6	7.0	1234	29,400 CUP
Universal	5.0	1149	31,200 CUP
HP-38	5.1	1167	28,100 CUP
Titegroup	4.8	1158	30,500 CUP
Clays	3.9	1095	32,600 CUP



125 GR. LCN (Starting Loads) DIA. .356" COL: 1.125"

Longshot	5.0	1052	24,700 CUP
HS-6	5.9	1023	24,400 CUP
Universal	3.8	993	24,400 CUP
HP-38	3.9	1009	25,700 CUP
Titegroup	3.6	1002	22,900 CUP
Clays	2.9	899	22,700 CUP

125 GR. LCN (Maximum Loads) DIA. .356" COL: 1.125"

Longshot	5.7	1115	28,300 CUP
HS-6	6.6	1124	30,700 CUP
Universal	4.3	1096	31,300 CUP
HP-38	4.4	1086	31,200 CUP
Titegroup	4.0	1096	30,400 CUP
Clays	3.3	993	30,900 CUP



125 GR. SIE FMJ (Starting Loads) DIA. .355" COL: 1.090"

Longshot	4.7	1022	28,100 PSI
HS-6	6.4	1131	25,600 CUP
Universal	4.3	1031	26,900 CUP
HP-38	4.4	1009	24,600 CUP
Titegroup	4.1	1069	27,300 CUP
Clays	3.5	1010	28,000 CUP

125 GR. SIE FMJ (Maximum Loads) DIA. .355" COL: 1.090"

Longshot	5.7	1162	33,400 PSI
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HS-6	6.8	1169	27,100 CUP
Universal	4.9	1118	30,600 CUP
HP-38	4.8	1088	28,800 CUP
Titegroup	4.4	1136	30,600 CUP
Clays	3.7	1056	32,500 CUP



130 GR. SIE FMJ (Starting Loads) DIA. .355" COL: 1.120"

Longshot	4.5	960	26,200 PSI
HS-6	6.3	981	23,200 CUP
Universal	4.2	974	27,200 CUP
HP-38	4.3	978	25,300 CUP
Titegroup	4.1	1070	30,100 CUP

130 GR. SIE FMJ (Maximum Loads) DIA. .355" COL: 1.120"

Longshot	5.5	1117	33,500 PSI
HS-6	6.6	1090	26,900 CUP
Universal	4.7	1058	30,400 CUP
HP-38	4.6	1050	28,300 CUP
Titegroup	4.4	1102	32,500 CUP



147 GR. HDY XTP (Starting Loads) DIA. .355" COL: 1.100"

Longshot	3.8	851	25,700 PSI
HS-6	4.3	773	20,200 CUP
Universal	3.0	803	24,100 CUP
Titegroup	3.2	855	22,500 CUP

147 GR. HDY XTP (Maximum Loads) DIA. .355" COL: 1.100"

Longshot	4.7	1004	33,800 PSI
HS-6	5.0	885	27,900 CUP
Universal	3.3	869	31,000 CUP
Titegroup	3.6	929	27,500 CUP



C = Compressed Charge

38 SUPER AUTO

CASE: REMINGTON

BBL: 5"

PR: REMINGTON 1 1/2



115 GR. HDY XTP **COL: 1.245"**

HS-6	8.5	1314	31,500 CUP
UNIVERSAL	5.5	1225	32,300 CUP
HP-38	6.1	1261	32,700 CUP
TITEGROUP	5.3	1208	31,800 CUP



125 GR. SIE FMJ **COL: 1.275"**

HS-6	8.3	1271	32,100 CUP
UNIVERSAL	5.5	1179	32,300 CUP
HP-38	5.7	1159	31,200 CUP
TITEGROUP	5.0	1124	31,800 CUP



130 GR. SIE FMJ **COL: 1.275"**

HS-6	8.2	1231	32,500 CUP
UNIVERSAL	5.3	1124	32,200 CUP
HP-38	5.5	1134	31,200 CUP
TITEGROUP	4.9	1116	31,000 CUP



135 GR. NOS IPSC **COL: 1.265"**

LIL'GUN	12.8	1357	32,400 CUP
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38 SPECIAL

CASE: WINCHESTER

BBL: 7.7"

PR: WINCHESTER SP



125 GR. HDY XTP **COL: 1.455"**

HS-6	7.2	1048	16,600 CUP
UNIVERSAL	5.2	1019	17,000 CUP
HP-38	4.9	934	16,300 CUP
TITEGROUP	4.6	1010	15,600 CUP
CLAYS	3.9	937	16,100 CUP



140 GR. HDY XTP **COL: 1.455"**

HS-6	6.5	933	16,000 CUP
UNIVERSAL	4.8	939	15,400 CUP
HP-38	4.6	861	15,800 CUP

TITEGROUP 4.2 919 15,800 CUP

CLAYS 3.7 869 16,700 CUP



148 GR. HDY LHBWC COL: 1.160"

HS-6 5.2 943 14,300 CUP

HP-38 4.0 956 15,900 CUP

UNIVERSAL 3.8 940 15,600 CUP

TITEGROUP 3.3 908 11,800 CUP

CLAYS 2.5 836 13,200 CUP



158 GR. HDY XTP COL: 1.455"

H4227 10.0 864 15,500 CUP

HS-6 6.2 862 16,300 CUP

UNIVERSAL 4.4 778 16,200 CUP

HP-38 4.3 779 15,900 CUP

TITEGROUP 3.9 798 15,900 CUP

CLAYS 3.1 721 16,600 CUP



38 SPECIAL +P

CASE: WINCHESTER

BBL: 7.7"

PR: WINCHESTER SP

NOTE: Loads are for use in modern arms in good condition. These loads should not be used in small frame, or aluminum frame revolvers, nor are they intended for auto pistols.



125 GR. HDY XTP COL: 1.455"

HS-6 7.8 1138 19,500 CUP

UNIVERSAL 5.4 1072 18,900 CUP

HP-38 5.3 1018 19,800 CUP

TITEGROUP 5.0 1069 18,700 CUP



140 GR. HDY XTP COL: 1.455"

H4227 12.4 1121 19,400 CUP

HS-6 7.0 992 18,300 CUP

UNIVERSAL 5.1 1022 19,100 CUP

HP-38 4.9 892 18,600 CUP

TITEGROUP 4.6 984 19,300 CUP



158 GR. HDY XTP

COL: 1.455"

H4227	11.0	964	17,600 CUP
HS-6	6.6	926	18,700 CUP
UNIVERSAL	4.7	837	19,200 CUP
HP-38	4.6	807	18,100 CUP
TITEGROUP	4.3	905	19,300 CUP

357 SIG

CASE: FEDERAL

BBL: 4"

PR: WINCHESTER SP



124 GR. HDY XTP

COL: 1.135"

HS-6	9.0	1339	38,700 CUP
UNIVERSAL	5.8	1235	38,500 CUP



147 GR. HDY XTP

COL: 1.140"

HS-6	7.6	1173	36,600 CUP
UNIVERSAL	4.9	1062	36,300 CUP

357 MAGNUM

CASE: WINCHESTER

BBL: 10"

PR: WINCHESTER SPM



125 GR. HDY XTP

COL: 1.590"

H4227	20.0	1839	42,000 CUP
H110	22.0	1966	41,400 CUP
HS-6	10.9	1629	42,100 CUP
UNIVERSAL	7.6	1453	39,600 CUP
HP-38	8.5	1514	42,700 CUP
TITEGROUP	7.5	1497	41,200 CUP



146 GR. SPR JHP

COL: 1.535"

H4227	16.0	1566	42,700 CUP
H110	17.2	1691	42,600 CUP

HS-6	9.5	1461	41,800 CUP
UNIVERSAL	6.5	1261	39,900 CUP
HP-38	7.1	1330	42,200 CUP
TITEGROUP	6.6	1317	42,900 CUP



158 GR. HDY XTP **COL: 1.580"**

H4227	16.0	1520	42,600 CUP
H110	16.7	1591	40,700 CUP
LIL'GUN	18.0	1577	25,800 CUP
HS-6	9.5	1375	41,900 CUP
UNIVERSAL	6.3	1133	39,300 CUP
HP-38	6.9	1220	40,000 CUP
TITEGROUP	6.1	1229	41,900 CUP



180 GR. NOS PART **COL: 1.575"**

H4227	13.7	1308	40,900 CUP
H110	13.5	1396	39,100 CUP
LIL'GUN	15.0	1422	34,500 CUP
TITEGROUP	5.5	1020	40,300 CUP



357 REMINGTON MAXIMUM **CASE: REMINGTON**

BBL: 10" **PR: REMINGTON 7 1/2**



160 GR. HDY JTC SIL **COL: 1.890"**

H4227	22.5	1814
H110	24.0	1886



180 GR. SPR TMJ SIL **COL: 1.990"**

H4227	20.0	1645
H110	21.0	1694



35 REMINGTON **CASE: REMINGTON**

BBL: 14" **PR: REMINGTON 9 1/2**



180 GR. SPR FN **COL: 2.470"**

VARGET	40.5	1998	32,500 CUP
BL-C(2)	43.0	1954	32,300 CUP
H335	37.5	1921	33,600 CUP
H4895	39.0	2031	33,100 CUP
BENCHMARK	35.5	1932	32,300 CUP
H322	35.0	1915	33,100 CUP
H4198	32.0	1977	33,000 CUP



200 GR. HDY RN **COL: 2.510"**

VARGET	39.5	1797	33,300 CUP
BL-C(2)	41.5	1689	31,700 CUP
H335	37.0	1720	33,200 CUP
H4895	38.5	1772	32,300 CUP
BENCHMARK	35.5	1766	32,600 CUP
H322	33.8	1670	33,100 CUP
H4198	30.5	1680	31,700 CUP



9 X 18mm MAKAROV **CASE: WINCHESTER**

BBL: 4" **PR: WINCHESTER SP**



90 GR. SPR FP **COL: .970"**

UNIVERSAL	3.9	1022	23,000 PSI
HP-38	4.0	1031	24,000 PSI
TITEGROUP	3.7	1053	22,900 PSI



95 GR. HDY XTP **COL: .965"**

UNIVERSAL	4.0	1030	23,800 PSI
HP-38	3.8	990	24,000 PSI
TITEGROUP	3.6	1022	22,500 PSI



100 GR. SIE JFP **COL: .970"**

UNIVERSAL	4.0	996	23,600 PSI
HP-38	3.8	969	23,500 PSI
TITEGROUP	3.7	1011	23,500 PSI



375 JDJ **CASE: REMINGTON (REF)**

BBL: 14" **PR: FEDERAL 210M**



200 GR. SIE FP **COL: 2.750"**

H4895 52.0 2147

H322 50.0 2077



300 GR. HDY RN **COL: 2.970"**

H4895 46.0 1951

H322 42.0 1773



38-40 WINCHESTER **CASE: WINCHESTER**

BBL: 5.5" **PR: WINCHESTER LP**



180 GR. CAST LRNFP **COL: 1.600"**

UNIVERSAL 7.5 955 11,900 PSI

HP-38 6.8 934 13,500 PSI

TITEGROUP 6.4 990 13,300 PSI

CLAYS 5.5 889 13,500 PSI



40 S&W

CASE: HORNADY

BBL: 4"

PR: WINCHESTER SP

WARNING: This data is intended for use in firearms with barrels which fully support the cartridge in the chamber. Use of this data in firearms which do not fully support the cartridge may result in bulged cases, ruptured cases, case head separation, or other condition which may result in damage to the firearm and/or result in injury or death of the shooter and/or bystanders.



135 GR. NOS JHP

COL: 1.125"

HS-6 10.2 1321 33,600 PSI

UNIVERSAL 7.5 1324 32,500 PSI

HP-38 7.0 1244 33,100 PSI

TITEGROUP 6.4 1251 33,200 PSI

CLAYS 4.5 1071 32,900 PSI



180 GR. HDY XTP

COL: 1.125"

HS-6	6.9	976	32,500 PSI
UNIVERSAL	5.8	1046	33,400 PSI
HP-38	5.0	947	32,900 PSI
TITEGROUP	4.7	978	33,300 PSI
CLAYS	3.5	847	34,300 PSI



200 GR. HDY XTP

COL: 1.125"

HS-6	6.3	900	32,800 PSI
UNIVERSAL	4.7	903	33,600 PSI
HP-38	4.7	857	33,400 PSI
TITEGROUP	3.8	822	31,700 PSI



10mm AUTO

CASE: WINCHESTER

BBL: 5"

PR: WINCHESTER LP



180 GR. SIE JHC

COL: 1.260"

Longshot	9.5	1287	34,600 PSI
HS-6	9.4	1127	35,800 PSI
UNIVERSAL	6.4	1122	32,200 PSI
HP-38	5.8	1061	34,900 PSI
TITEGROUP	6.0	1141	34,300 PSI



200 GR. HDY FMJ

COL: 1.260"

Longshot	8.2	1172	35,000 PSI
HS-6	8.6	1089	35,900 PSI
UNIVERSAL	5.9	1015	36,900 PSI
HP-38	5.6	1011	35,700 PSI
TITEGROUP	5.3	1024	36,100 PSI



41 REMINGTON MAGNUM

CASE: REMINGTON

BBL: 10.125"

PR: WINCHESTER LP



170 GR. SIE JHC

COL: 1.575"

H4227	24.9	1745	35,600 CUP
H110	26.5	1887	37,400 CUP
HS-6	13.7	1597	37,200 CUP
UNIVERSAL	10.3	1488	38,700 CUP
HP-38	9.8	1440	38,300 CUP
TITEGROUP	9.2	1470	37,700 CUP



220 GR. SPR JSP

COL: 1.580"

H4227	20.0	1433	37,500 CUP
H110	20.0	1563	31,200 CUP
LIL'GUN	20.5	1626	29,900 CUP
HS-6	11.3	1271	36,700 CUP
UNIVERSAL	8.5	1178	38,600 CUP
HP-38	8.0	1125	36,700 CUP
TITEGROUP	7.3	1127	33,700 CUP

COWBOY ACTION

READ THE **WARNINGS** BEFORE USING THE DATA BELOW!

Smokeless Pistol and Carbine Data

44 Russian

STARTING LOADS					MAXIMUM LOADS		
BULLET	POWDER	GRS.	VEL. fps	C.U.P.	GRS.	VEL. fps	C.U.P.
160-165 GR. LEAD RNFP	HP-38	4.5 gr.	878	8,300	5.2 gr.	1,002	10,400
	Titegroup	4.0 gr.	884	6,100	5.3 gr.	1,076	12,000
	Clays	3.0 gr.	776	7,300	4.0 gr.	977	11,100
200 GR. LEAD RNFP	Universal	4.8 gr.	816	8,100	5.7 gr.	970	11,500
	HP-38	4.2 gr.	763	7,300	5.0 gr.	900	11,300
	Titegroup	4.0 gr.	832	7,900	4.8 gr.	963	11,400
	Clays	3.2 gr.	747	8,000	3.7 gr.	837	11,100
240 GR. LEAD RNFP	Universal	3.8 gr.	679	6,400	4.6 gr.	841	11,000
	HP-38	4.0 gr.	753	8,900	4.8 gr.	842	11,000
	Titegroup	3.5 gr.	732	7,300	4.2 gr.	837	11,500
	Clays	3.0 gr.	711	9,400	3.5 gr.	769	10,700

NEVER EXCEED MAXIMUM LOADS

COWBOY ACTION

READ THE **WARNINGS** BEFORE USING THE DATA BELOW!

Smokeless Pistol and Carbine Data

44 Colt

STARTING LOADS					MAXIMUM LOADS		
BULLET	POWDER	GRS.	VEL. fps	C.U.P.	GRS.	VEL. fps	C.U.P.
165 GR. LEAD RNFP	HP-38	4.5 gr.	826	6,100	5.5 gr.	983	9,300
	Titegroup	4.0 gr.	864	6,300	5.0 gr.	1,020	9,300
	Clays	3.0 gr.	705	6,600	4.2 gr.	944	9,000
185 GR. LEAD RNFP	HP-38	4.5 gr.	807	6,600	5.3 gr.	928	9,400
	Titegroup	3.8 gr.	806	6,200	4.8 gr.	950	9,500
	Clays	3.0 gr.	692	5,800	4.2 gr.	893	9,600
200 GR. LEAD RNFP	Universal	4.8 gr.	762	6,100	5.7 gr.	927	9,900
	HP-38	4.5 gr.	799	7,000	5.3 gr.	881	9,400
	Titegroup	4.0 gr.	787	6,300	4.8 gr.	912	10,000
	Clays	3.2 gr.	710	6,100	3.9 gr.	831	10,000
240 GR. LEAD RNFP	Universal	4.5 gr.	769	6,400	5.2 gr.	870	10,400
	HP-38	4.2 gr.	733	7,200	4.9 gr.	827	9,900
	Titegroup	3.5 gr.	717	6,300	4.3 gr.	826	10,000
	Clays	4.0 gr.	706	6,800	4.7 gr.	818	9,500

NEVER EXCEED MAXIMUM LOADS

44 S&W SPECIAL

CASE: STARLINE

BBL: 8"

PR: WINCHESTER LP

* * * * *

185 GR. CAST LRNFP**COL: 1.400"**

UNIVERSAL	6.4	1031	13,900 CUP
HP-38	5.6	953	12,500 CUP
TITEGROUP	5.5	1025	11,600 CUP
CLAYS	4.2	930	13,200 CUP

* * * * *

240 GR. CAST LSWC**COL: 1.450"**

H4227	13.2	947	12,600 CUP
HS-6	8.0	917	13,000 CUP
UNIVERSAL	5.6	873	13,300 CUP
HP-38	5.2	858	13,200 CUP
TITEGROUP	4.8	862	13,100 CUP
CLAYS	4.0	771	13,500 CUP

**44-40 WINCHESTER**

CASE: WINCHESTER

BBL: 6"

PR: WINCHESTER LP

* * * * *

200 GR. CAST LRNFP**COL: 1.600"**

UNIVERSAL	7.3	777	11,100 PSI
HP-38	6.5	820	12,400 PSI
TITEGROUP	6.2	901	12,900 PSI
CLAYS	5.0	765	11,700 PSI

**44 REMINGTON MAGNUM**

CASE: WINCHESTER

BBL: 8.275"

PR: REMINGTON 2 1/2

* * * * *

200 GR. NOS JHP**COL: 1.600"**

H4227	27.0	1686	37,800 CUP
H110	28.5	1806	37,800 CUP
LIL'GUN	29.5	1794	36,200 CUP
Longshot	14.3	1534	34,600 CUP

HS-6	16.7	1569	37,700 CUP
UNIVERSAL	11.1	1398	38,300 CUP
HP-38	11.9	1444	37,400 CUP
TITEGROUP	10.8	1433	38,400 CUP

.....

240 GR. NOS JHP **COL: 1.600"**

H4227	24.0	1458	36,100 CUP
H110	24.0	1522	36,200 CUP
LIL'GUN	24.5	1582	38,100 CUP
Longshot	12.1	1331	34,500 CUP
HS-7	16.5	1394	38,200 CUP
HS-6	15.1	1417	38,200 CUP
UNIVERSAL	10.2	1246	38,200 CUP
HP-38	11.0	1272	37,800 CUP
TITEGROUP	10.0	1292	37,700 CUP

.....

300 GR. HDY XTP **COL: 1.600"**

H4227	20.0	1312	38,600 CUP
H110	19.0	1325	38,800 CUP
LIL'GUN	17.7	1280	37,600 CUP
Longshot	9.5	1071	34,700 CUP
HS-7	14.0	1214	37,300 CUP
HS-6	13.0	1214	37,900 CUP
UNIVERSAL	9.6	1113	38,200 CUP
HP-38	10.0	1149	38,100 CUP
TITEGROUP	9.6	1186	38,400 CUP

.....

325 GR. LBT WLN GC **COL: 1.730"**

H4227	21.0C	1278	34,200 CUP
H110	22.0	1368	38,100 CUP
LIL'GUN	20.0	1360	38,600 CUP
Longshot	11.8	1195	38,700 CUP
HS-6	14.0	1218	38,000 CUP
UNIVERSAL	10.0	1090	38,000 CUP
HP-38	10.3	1125	38,700 CUP
TITEGROUP	9.2	1091	38,300 CUP

.....

330 GR. LFN GC DCG

COL: 1.730"

H4227	20.7C	1302	38,200 CUP
H110	20.8	1350	38,800 CUP
LIL'GUN	19.0	1332	38,000 CUP
Longshot	11.3	1158	38,700 CUP
HS-6	13.6	1202	39,000 CUP
UNIVERSAL	9.5	1058	37,000 CUP
HP-38	9.7	1081	38,700 CUP
TITEGROUP	8.5	1035	38,000 CUP

.....

355 GR. WLN GC DCG

COL: 1.710"

H4227	19.0	1223	37,800 CUP
H110	18.8	1245	38,000 CUP
LIL'GUN	17.5	1247	37,900 CUP
Longshot	10.5	1096	37,800 CUP
HS-6	12.0	1091	37,400 CUP
UNIVERSAL	8.8	991	37,300 CUP
HP-38	8.8	1001	37,700 CUP
TITEGROUP	8.2	994	37,600 CUP

44 AUTO MAG CASE: FEDERAL (REF)

BBL: 6"

PR: CCI 350

.....

200 GR. HDY XTP

COL: 1.610"

H4227	26.0	1427
H110	25.0	1485
HS-7	17.0	1302

.....

240 GR. NOS HP

COL: 1.600"

H4227	21.0	1183
H110	21.0	1241

45 GLOCK AUTO

CASE: SPEER

BBL: 5"

PR: WINCHESTER SP

TWIST: 1:16"

TRIM: .750"

.....

155 GR. LSWC CAST (Starting Loads) DIA. .452 COL: 1.110"

Titegroup	4.7	1014	17,500 PSI
Clays	3.9	974	18,000 PSI

155 GR. LSWC CAST (Maximum Loads) DIA. .452 COL: 1.110"

Titegroup	5.3	1152	21,300 PSI
Clays	4.4	1047	22,300 PSI

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185 GR. HDY XTP (Starting Loads) DIA. .451 COL: 1.060"

Longshot	6.5	923	16,400 PSI
HS-6	8.0	890	17,700 PSI
Universal	5.5	864	17,700 PSI
HP-38	4.8	841	18,200 PSI
Titegroup	4.3	875	18,200 PSI
Clays	3.7	816	18,800 PSI

185 GR. HDY XTP (Maximum Loads) DIA. .451 COL: 1.060"

Longshot	7.5	1075	22,500 PSI
HS-6	9.0	1017	22,500 PSI
Universal	6.3	1027	22,300 PSI
HP-38	5.5	951	21,500 PSI
Titegroup	4.9	974	21,300 PSI
Clays	4.1	881	21,400 PSI

.....

200 GR. SPR GDHP (Starting Loads) DIA. .451 COL: 1.080"

Longshot	6.0	892	19,100 PSI
HS-6	7.0	795	17,100 PSI
Universal	5.2	838	18,500 PSI
HP-38	4.5	796	18,400 PSI
Titegroup	4.1	829	18,300 PSI
Clays	3.3	718	17,300 PSI

200 GR. SPR GDHP (Maximum Loads) DIA. .451 COL: 1.080"

Longshot	6.8	1000	22,300 PSI
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HS-6	8.0	921	21,200 PSI
Universal	5.7	924	20,900 PSI
HP-38	4.9	860	20,700 PSI
Titegroup	4.6	908	21,700 PSI
Clays	3.7	796	20,400 PSI

.....

C = Compressed Charge

45 ACP

CASE: WINCHESTER

BBL: 5"

PR: FEDERAL 150

.....

185 GR. HDY JSWC

COL: 1.195"

Longshot	8.2	1044	17,000 CUP
HS-6	9.5	996	16,800 CUP
UNIVERSAL	7.2	993	17,000 CUP
HP-38	5.9	906	15,800 CUP
TITEGROUP	5.5	956	17,000 CUP
CLAYS	4.9	981	17,400 CUP

.....

200 GR. SPR JHP

COL: 1.155"

Longshot	7.8	1013	16,900 CUP
HS-6	9.0	948	16,400 CUP
UNIVERSAL	6.7	930	17,200 CUP
HP-38	5.9	906	16,700 CUP
TITEGROUP	5.2	884	16,900 CUP
CLAYS	4.3	785	17,700 CUP

.....

230 GR. HDY FMJ FP

COL: 1.200"

Longshot	6.8	908	17,200 CUP
HS-6	8.2	825	15,400 CUP
UNIVERSAL	5.6	844	16,800 CUP
HP-38	5.3	832	16,800 CUP
TITEGROUP	4.8	818	16,700 CUP
CLAYS	4.0	732	17,000 CUP

45 COLT

CASE: WINCHESTER

BBL: 7.25"

PR: WINCHESTER LP



200 GR. CAST LRNFP COL: 1.600"

UNIVERSAL	8.8	1067	13,600 CUP
HP-38	8.0	1002	13,800 CUP
TITEGROUP	7.7	1050	12,700 CUP
CLAYS	5.9	931	13,100 CUP



260 GR. SPR GDHP COL: 1.595"

HS-6	10.7	865	14,000 CUP
UNIVERSAL	8.0	813	14,000 CUP
HP-38	7.1	787	14,000 CUP
TITEGROUP	6.3	797	12,500 CUP



300 GR. SIE JFP COL: 1.670"

HS-6	10.0	730	13,700 CUP
UNIVERSAL	7.3	700	13,700 CUP
TITEGROUP	5.8	682	12,900 CUP



45 COLT (Ruger, Freedom Arms & T/C Only)

CASE: WINCHESTER

BBL: 7.25"

PR: WINCHESTER LP

TWIST: 1:16"

TRIM: 1.280"



240 GR. SIE JHC(Starting Loads) DIA. .452 COL: 1.600"

LIL'GUN	27.0	1431	23,800 CUP
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240 GR. SIE JHC(Maximum Loads) DIA. .452 COL: 1.600"

LIL'GUN	27.8	1489	29,200 CUP
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250 GR. HDY XTP(Starting Loads) DIA. .452 COL: 1.600"

LIL'GUN	23.5	1331	25,800 CUP
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250 GR. HDY XTP(Maximum Loads) DIA. .452 COL: 1.600"

LIL'GUN	25.5	1410	29,800 CUP
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260 GR. NOS PART(Starting Loads) DIA. .451 COL: 1.650"

LIL'GUN	19.0	1196	24,500 CUP
260 GR. NOS PART(Maximum Loads)	DIA. .451		COL: 1.650"
LIL'GUN	21.0	1312	30,000 CUP
* * * * *			
300 GR. SPR JFP(Starting Loads)	DIA. .451		COL: 1.650"
LIL'GUN	18.0	1140	24,500 CUP
300 GR. SPR JFP(Maximum Loads)	DIA. .451		COL: 1.650"
LIL'GUN	20.2	1203	29,800 CUP
* * * * *			
325 GR. LFN PB (Starting Loads)	DIA. .452		COL: 1.680"
H4227	20.0	1053	22,300 CUP
H110	21.0	1109	18,100 CUP
LIL'GUN	17.0	1061	20,700 CUP
325 GR. LFN PB (Maximum Loads)	DIA. .452		COL: 1.680"
H4227	23.0	1189	28,000 CUP
H110	24.0	1266	27,400 CUP
LIL'GUN	20.5	1235	29,700 CUP
* * * * *			
335 GR. WLN GC (Starting Loads)	DIA. .452		COL: 1.680"
H4227	20.0	1011	21,100 CUP
H110	20.5	1109	19,200 CUP
LIL'GUN	17.0	1052	20,100 CUP
335 GR. WLN GC(Maximum Loads)	DIA. .452		COL: 1.680"
H4227	22.5C	1155	28,300 CUP
H110	23.5	1240	28,000 CUP
LIL'GUN	20.0	1206	29,600 CUP
* * * * *			
360 GR. WLN GC (Starting Loads)	DIA. .452		COL: 1.680"
H4227	19.5	1004	21,100 CUP
H110	18.0	1012	20,200 CUP
LIL'GUN	15.5	984	22,400 CUP
360 GR. WLN GC (Maximum Loads)	DIA. .452		COL: 1.680"
H4227	22.0C	1167	29,800 CUP
H110	21.0	1151	28,300 CUP
LIL'GUN	18.0	1131	29,700 CUP
* * * * *			

45 WINCHESTER MAGNUM

CASE: WINCHESTER

BBL: 5"

PR: CCI 350



230 GR. HDY FMJ FP

COL: 1.555"

H4227	25.0	1259	29,400 CUP
H110	28.0	1410	29,000 CUP
HS-6	17.0	1296	36,600 CUP
HP-38	10.8	1191	37,100 CUP



250 GR. NOS JHP

COL: 1.500"

H4227	24.0	1239	37,100 CUP
H110	26.0	1380	37,400 CUP
HS-6	15.4	1220	37,700 CUP
HP-38	9.8	1100	38,400 CUP

454 CASULL

CASE: FREEDOM ARMS

BBL: 9.375"

PR: WINCHESTER SR



260 GR. FA JFP

COL: 1.765"

H4227	33.0 C	1762	42,100 CUP
H110	36.0	1954	51,600 CUP
LIL'GUN	35.5	1895	37,900 CUP



260 GR. SPR JHP

COL: 1.675"

HS-6	16.8	1420	36,400 CUP
UNIVERSAL	11.5	1245	34,900 CUP
TITEGROUP	11.0	1270	35,900 CUP



300 GR. FA JFP

COL: 1.775"

H4227	31.0 C	1702	52,400 CUP
H110	30.0	1716	53,700 CUP
LIL'GUN	31.0	1746	45,900 CUP

460 ROWLAND

CASE: STARLINE

BBL: 5"

PR: WINCHESTER LP

TWIST: 1:16"

TRIM:



185 GR. HDY JSWC(Starting Loads) DIA. .451 COL: 1.240"

LONGSHOT 12.0 1413 34,700 CUP

185 GR. HDY JSWC(Maximum Loads) DIA. .451 COL: 1.240"

LONGSHOT 13.5 1503 38,800 CUP



200 GR. SPR JHP(Starting Loads) DIA. .451 COL: 1.225"

LONGSHOT 12.0 1372 34,300 CUP

200 GR. SPR JHP(Maximum Loads) DIA. .451 COL: 1.225"

LONGSHOT 13.8 1456 39,400 CUP



230 GR. HDY XTP(Starting Loads) DIA. .451 COL: 1.270"

LONGSHOT 10.0 1207 32,200 CUP

230 GR. HDY XTP(Maximum Loads) DIA. .451 COL: 1.270"

LONGSHOT 12.0 1336 39,200 CUP

460 S & W MAGNUM

CASE: STARLINE

BBL: 10.743"

PR: WINCHESTER LRM

TWIST: 1:20"

TRIM: 1.790"



200 GR. BAR XPB (Starting Loads) DIA. .451 COL: 2.320"

H4227 41.0 2077 35,200 PSI

H110 45.0 2237 38,500 PSI

Longshot 20.0 1752 30,300 PSI

200 GR. BAR XPB (Maximum Loads) DIA. .451 COL: 2.320"

H4227 45.5C 2238 42,200 PSI

H110 46.5 2315 42,900 PSI

Longshot 27.0 2161 56,500 PSI



225 GR. BAR X (Starting Loads) DIA. .451 COL: 2.110"

H4227 37.0 2007 42,100 PSI

H110 39.0 2045 39,400 PSI

LIL'GUN	46.5	2118	45,900 PSI
.....			
300 GR. HDY XTP MAG (Starting Loads)	DIA. .452		COL: 2.160"
H4227	36.0	1852	49,000 PSI
H110	38.0	1825	43,200 PSI
LIL'GUN	40.0	1970	46,300 PSI
300 GR. HDY XTP MAG (Maximum Loads)	DIA. .452		COL: 2.160"
H4227	40.0C	1988	57,000 PSI
H110	42.5	2034	56,100 PSI
LIL'GUN	44.0	2067	53,600 PSI
.....			
325 GR. CPB LFN PB (Starting Loads)	DIA. .452		COL: 2.200"
H4227	34.0	1790	51,100 PSI
H110	38.0	1810	45,300 PSI
LIL'GUN	39.0	1843	43,700 PSI
Titegroup	15.0	1353	48,200 PSI
325 GR. CPB LFN PB (Maximum Loads)	DIA. .452		COL: 2.200"
H4227	38.0	1897	56,400 PSI
H110	42.0	1953	54,900 PSI
LIL'GUN	42.0	1925	46,400 PSI
Titegroup	17.6	1470	55,100 PSI
.....			
325 GR. SFT HP (Starting Loads)	DIA. .451		COL: 2.175"
H4198	37.0	1556	36,200 PSI
H4227	33.0	1716	46,700 PSI
H110	35.0	1749	46,300 PSI
LIL'GUN	36.0	1769	44,500 PSI
325 GR. SFT HP (Maximum Loads)	DIA. .451		COL: 2.175"
H4198	41.0C	1695	42,500 PSI
H4227	37.0	1859	57,300 PSI
H110	39.0	1907	56,800 PSI
LIL'GUN	41.0	1955	55,600 PSI
.....			
335 GR. CPB WLN GC (Starting Loads)	DIA. .452		COL: 2.180"
H4227	33.0	1719	50,000 PSI
H110	38.0	1790	46,100 PSI

LIL'GUN	39.0	1834	45,000 PSI
Titegroup	15.0	1333	46,800 PSI
335 GR. CPB WLN GC (Maximum Loads)	DIA. .452		COL: 2.180"
H4227	37.5	1849	55,700 PSI
H110	41.0	1917	55,800 PSI
LIL'GUN	41.5	1919	49,300 PSI
Titegroup	17.5	1446	55,800 PSI

.....

360 GR. CPB WLN GC (Starting Loads)	DIA. .452		COL: 2.190"
H4198	37.0	1531	38,200 PSI
H4227	31.0	1632	49,500 PSI
H110	35.0	1713	47,600 PSI
LIL'GUN	36.0	1752	45,100 PSI
Titegroup	13.0	1208	40,300 PSI

360 GR. CPB WLN GC (Maximum Loads)	DIA. .452		COL: 2.190"
H4198	40.0C	1644	43,200 PSI
H4227	35.5	1776	56,500 PSI
H110	38.0	1836	56,900 PSI
LIL'GUN	40.0	1882	52,600 PSI
Titegroup	15.6	1340	55,700 PSI

.....

395 GR. CPB WLN GC (Starting Loads)	DIA. .452		COL: 2.185"
H4198	35.0	1484	40,000 PSI
H4227	28.0	1516	48,700 PSI
H110	30.0	1553	45,300 PSI
LIL'GUN	33.0	1665	47,200 PSI
Titegroup	12.0	1138	41,000 PSI

395 GR. CPB WLN GC (Maximum Loads)	DIA. .452		COL: 2.185"
H4198	38.0C	1596	46,600 PSI
H4227	32.0	1647	56,600 PSI
H110	34.0	1693	55,700 PSI
LIL'GUN	36.8	1796	56,400 PSI
Titegroup	14.6	1255	55,200 PSI

.....

C = Compressed Charge



475 LINEBAUGH

CASE: STARLINE

BBL: 8"

PR: WINCHESTER LP



385 GR. CAST LRNFP

COL: 1.810"

H4227	28.0	1456	51,100 PSI
H110	30.0	1566	55,000 PSI
LIL'GUN	29.0	1523	47,900 PSI
TITEGROUP	11.0	1130	51,700 PSI



480 RUGER

CASE: HORNADY

BBL: 7 1/2"

PR: WINCHESTER LP

TWIST: 1:18"

TRIM: 1.275"



325 GR. HDY XTP(Starting Loads)

DIA. .475

COL: 1.620"

H4227	24.0	1295	32,600 PSI
H110	25.0	1416	37,300 PSI
LIL'GUN	22.5	1416	39,300 PSI
LONGSHOT	13.0	1217	38,800 PSI
TITEGROUP	9.0	1016	34,900 PSI



325 GR. HDY XTP (Maximum Loads)

DIA. .475

COL: 1.620"

H4227	27.2	1477	45,600 PSI
H110	27.0	1518	44,900 PSI
LIL'GUN	25.1	1525	45,200 PSI
LONGSHOT	14.5	1330	47,000 PSI
TITEGROUP	10.7	1158	46,200 PSI



370 GR. CPB LFP(Starting Loads)

DIA. .475

COL: 1.640"

H4227	22.5	1248	32,800 PSI
H110	24.0	1348	33,400 PSI
LIL'GUN	22.0	1354	34,300 PSI
LONGSHOT	12.0	1162	36,300 PSI

TITEGROUP	9.0	1047	36,300 PSI

370 GR. CPB LFP(Maximum Loads)	DIA. .475	COL: 1.640"	
H4227	26.0C	1427	45,900 PSI
H110	26.0	1454	41,500 PSI
LIL'GUN	26.0	1539	46,800 PSI
LONGSHOT	13.8	1272	45,800 PSI
TITEGROUP	10.3	1137	45,800 PSI

400 GR. HDY XTP(Starting Loads)	DIA. .475	COL: 1.620"	
H4227	18.0	1026	31,600 PSI
H110	18.0	1115	34,400 PSI
LIL'GUN	15.0	1067	34,200 PSI
LONGSHOT	9.5	965	37,900 PSI
TITEGROUP	7.0	816	35,000 PSI

400 GR. HDY XTP(Maximum Loads)	DIA. .475	COL: 1.620"	
H4227	21.0	1211	46,100 PSI
H110	20.5	1258	46,600 PSI
LIL'GUN	18.0	1229	45,600 PSI
LONGSHOT	11.0	1082	46,900 PSI
TITEGROUP	8.5	959	46,800 PSI

405 GR. CPB (w/GCK)(Starting Loads)	DIA. .475	COL: 1.620"	
H4227	19.0	1112	33,200 PSI
H110	20.0	1213	35,500 PSI
LIL'GUN	19.0	1219	34,400 PSI
LONGSHOT	10.0	1023	33,400 PSI
TITEGROUP	7.5	927	36,100 PSI

405 GR. CPB (w/GCK)(Maximum Loads)	DIA. .475	COL: 1.620"	
H4227	21.7	1255	45,500 PSI
H110	22.3	1328	45,200 PSI
LIL'GUN	21.0	1337	43,900 PSI
LONGSHOT	11.8	1140	46,100 PSI
TITEGROUP	8.8	1019	46,500 PSI

50 ACTION EXPRESS **CASE: SPEER**

BBL: 6" **PR: CCI 350**



325 GR. SPR AE UCHP **COL: 1.575"**

H4227 30.8 1294

H110 32.5 1431

500 LINEBAUGH **CASE: STARLINE**

BBL: 8" **PR: CCI 350**



400 GR. CAST LRNFP **COL: 1.760"**

H4227 33.0 1358 32,400 PSI

H110 37.0 1553 42,200 PSI

LIL'GUN 37.5 1608 43,900 PSI

500 S & W MAGNUM

CASE: STARLINE

BBL: 10"

PR: WINCHESTER LR

TWIST: 1:18"

TRIM: 1.615"



275 GR. BAR XPB (Starting Loads) DIA. .500 COL: 2.085"

H4227 40.0 1891 41,000 PSI

H110 42.0 1965 43,900 PSI

LIL'GUN 40.5 1977 41,100 PSI

Longshot 20.0 1594 35,000 PSI

Titegroup 11.0 1170 22,800 PSI

275 GR. BAR XPB (Maximum Loads) DIA. .500 COL: 2.085"

H4227 44.0 2047 48,400 PSI

H110 45.0 2082 49,300 PSI

LIL'GUN 44.0 2137 50,800 PSI

Longshot 24.5 1824 48,900 PSI

Titegroup 20.0 1707 50,300 PSI



325 GR. BAR XPB (Starting Loads) DIA. .500 COL: 2.290"

H4227 40.0 1788 40,700 PSI

H110	42.0	1813	40,000 PSI
LIL'GUN	40.0	1862	43,700 PSI
Longshot	22.5	1599	43,300 PSI
Titegroup	12.0	1144	25,600 PSI

325 GR. BAR XPB (Maximum Loads) DIA. .500 COL: 2.290"

H4227	43.0	1920	49,200 PSI
H110	45.3	1951	48,900 PSI
LIL'GUN	44.5	2002	49,100 PSI
Longshot	24.5	1684	49,500 PSI
Titegroup	20.0	1575	50,700 PSI



350 GR. HDY XTP (Starting Loads) DIA. .500 COL: 1.985"

H4227	38.0	1675	41,400 PSI
H110	39.0	1712	41,500 PSI
LIL'GUN	35.0	1697	41,500 PSI
Longshot	21.0	1482	41,400 PSI
Titegroup	11.0	1032	23,100 PSI

350 GR. HDY XTP (Maximum Loads) DIA. .500 COL: 1.985"

H4227	42.5	1863	49,900 PSI
H110	43.0	1877	50,600 PSI
LIL'GUN	42.0	1912	48,100 PSI
Longshot	23.0	1602	50,000 PSI
Titegroup	18.5	1461	50,000 PSI



370 GR. CPB LGC (Starting Loads) DIA. .500 COL: 2.020"

H4227	40.0	1688	38,700 PSI
H110	44.5	1801	42,800 PSI
LIL'GUN	41.0	1831	44,900 PSI
Longshot	21.5	1476	42,000 PSI
Titegroup	16.0	1326	40,600 PSI
Trail Boss	8.0	746	13,500 PSI

370 GR. CPB LGC (Maximum Loads) DIA. .500 COL: 2.020"

H4227	42.0	1784	48,900 PSI
H110	47.0	1909	49,900 PSI
LIL'GUN	44.5	1949	50,400 PSI
Longshot	23.3	1576	50,000 PSI

Titegroup	18.5	1431	49,600 PSI
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Trail Boss	12.0	926	19,000 PSI
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375 GR. BAR XPB (Starting Loads)	DIA. .500	COL: 2.290"
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H4227	33.0	1550	38,000 PSI
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LIL'GUN	31.0	1605	39,700 PSI
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Longshot	18.0	1347	38,300 PSI
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Titegroup	14.0	1213	37,000 PSI
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375 GR. BAR XPB (Maximum Loads)	DIA. .500	COL: 2.290"
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H4227	36.8	1717	50,500 PSI
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LIL'GUN	34.0	1738	49,900 PSI
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Longshot	21.0	1487	49,600 PSI
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Titegroup	17.0	1375	50,500 PSI
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385 GR. REM HP (Starting Loads)	DIA. .500	COL: 2.150"
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H4227	37.0	1644	41,900 PSI
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H110	39.0	1648	38,700 PSI
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Lil'Gun	38.0	1727	42,700 PSI
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Longshot	20.0	1398	39,900 PSI
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Titegroup	15.5	1250	38,300 PSI
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385 GR. REM HP (Maximum Loads)	DIA. .500	COL: 2.150"
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H4227	41.0	1788	51,800 PSI
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H110	42.5	1794	47,300 PSI
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Lil'Gun	41.0	1852	51,100 PSI
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Longshot	23.0	1523	49,300 PSI
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Titegroup	18.5	1396	49,500 PSI
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400 GR. SIE JSP (Starting Loads)	DIA. .500	COL: 2.050"
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H4227	36.5	1585	42,000 PSI
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H110	34.0	1514	38,000 PSI
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LIL'GUN	31.0	1520	38,500 PSI
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Longshot	18.0	1274	36,500 PSI
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Titegroup	15.0	1208	39,700 PSI
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400 GR. SIE JSP (Maximum Loads)	DIA. .500	COL: 2.050"
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H4227	39.5	1698	49,100 PSI
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H110	40.0	1721	49,700 PSI
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LIL'GUN	37.0	1725	49,300 PSI
Longshot	22.0	1458	49,000 PSI
Titegroup	17.5	1335	49,900 PSI



440 GR. CPB LGC (Starting Loads) DIA. .500 COL: 2.025"

H4227	34.0	1496	41,900 PSI
H110	34.0	1509	40,700 PSI
LIL'GUN	30.0	1483	40,200 PSI
Longshot	18.5	1300	41,900 PSI
Titegroup	14.5	1191	42,700 PSI
Trail Boss	7.0	643	14,600 PSI

440 GR. CPB LGC (Maximum Loads) DIA. .500 COL: 2.025"

H4227	37.0	1609	49,400 PSI
H110	38.0	1654	49,900 PSI
LIL'GUN	35.0	1653	50,500 PSI
Longshot	20.7	1393	50,500 PSI
Titegroup	16.5	1278	50,600 PSI
Trail Boss	10.0	799	21,200 PSI



500 GR. HDY SP (Starting Loads) DIA. .500 COL: 2.065"

H4227	30.0	1360	42,300 PSI
H110	31.0	1400	34,400 PSI
LIL'GUN	27.0	1356	41,700 PSI
Longshot	16.0	1115	39,200 PSI
Titegroup	13.0	1020	40,200 PSI

500 GR. HDY SP (Maximum Loads) DIA. .500 COL: 2.065"

H4227	32.2	1436	49,300 PSI
H110	33.0	1482	51,900 PSI
LIL'GUN	30.0	1463	50,100 PSI
Longshot	18.5	1222	50,400 PSI
Titegroup	15.0	1111	50,000 PSI



C = Compressed Charge

