

Exhibit

Waterblasting – 2016

Handgun Ballistics:

 gunnersden.com/index.htm.handgun-ballistics.html

The below handgun cartridge ballistics table will give true caliber and diameter of handgun cartridge bullet, .17", .22", .25", .30", .31", .35", .37", .40", .41", .43", .45", .47", .50", bullet weight measured in grains, velocity measured in feet per second, energy measured in foot pounds which also is a good indicator of handgun stopping power and bullet trajectory measured in inches for the more popular and new introduced handgun cartridges, **(factory ammunition)**. This table gives a good reliable comparison of handgun cartridge ballistics.

Handgun Cartridge	Bullet Weight Grains	Muzzle Velocity Fps.	50 Yards Velocity Fps.	100 Yards Velocity Fps.	Muzzle Energy Ft. lbs.	50 Yards Energy Ft. lbs.	100 Yards Energy Ft. lbs.	Handgun Zero 25 Yards	Bullet Drop 50 Yards	Bullet Drop 75 Yards	Bullet Drop 100 Yards
<u>.17" Caliber Handgun Cartridges, Bullet Diameter .172":</u>											
17 Hornady Magnum Rimfire	17	2,040	1,751	1,495	157	116	84	0	+ 0.2"	- 0.3"	- 1.7"
17 Hornady Magnum Rimfire	20	1,830	1,567	1,342	149	109	80	0	0	- 0.8"	- 2.7"
<u>.22" Caliber Handgun Cartridges, Bullet Diameter .222" - .224":</u>											
22 Short	29	1,010	923	857	66	55	47	0	- 1.5"	- 5.7"	- 12.5"
22 Long Rifle	37	1,085	991	923	97	81	70	0	- 1.2"	- 4.7"	- 10.6"
22 Long Rifle	40	1,060	979	918	100	85	75	0	- 1.3"	- 4.9"	- 10.9"
22 Winchester Magnum Rimfire	34	1,690	1,382	1,152	216	144	100	0	- 0.1"	- 1.4"	- 4.1"
22 Winchester Magnum Rimfire	40	1,480	1,236	1,071	195	136	102	0	- 0.4"	- 2.2"	- 5.7"
<u>.25" Caliber Handgun Cartridges, Bullet Diameter .251":</u>											
25 Automatic	35	900	813	742	63	51	43	0	- 2.1"	- 7.1"	- 15.1"
<u>.30" Caliber Handgun Cartridges, Bullet Diameter .308":</u>											
30 Luger	93	1200	1097	1021	297	248	215	0	- 0.9"	- 3.5"	- 8.2"
7.62x25 Tokarev	85	1645	1464	1307	511	405	322	0	- 0.1"	- 1.2"	- 3.5"
30 Carbine	110	1790	1595	1421	783	622	493	0	0	- 0.8"	- 2.6"
<u>.31" Caliber Handgun Cartridges, Bullet Diameter .312":</u>											

32 Smith&Wesson	85	680	656	633	87	81	76	0	- 4.1"	- 13.2"	- 27.6"
32 Short Colt	80	745	718	693	99	92	85	0	- 3.3"	- 10.7"	- 22.6"
32 S&W Long	98	705	680	657	108	101	94	0	- 3.7"	- 12.2"	- 25.5"
32 Automatic	60	1000	906	834	133	112	96	0	- 1.6"	- 5.5"	- 12.1"
32 H&R	90	750	723	698	112	104	97	0	- 3.2"	- 10.6"	- 22.3"
32-20 Winchester	115	800	770	742	163	151	141	0	- 2.7"	- 9.1"	- 19.3"
32 H&R Magnum	85	1120	1038	977	237	204	180	0	- 1.1"	- 4.2"	- 9.4"
32 H&R Magnum	95	1020	963	916	219	196	177	0	- 1.4"	- 5.2"	- 11.4"
327 Federal Magnum	85	1400	1252	1136	370	296	243	0	- 0.5"	- 2.3"	- 5.7"
<u>.35" Caliber Handgun Cartridges, Bullet Diameter .355" - .358" / 9.0mm:</u>											
380 Automatic	90	1000	913	846	200	167	143	0	- 1.6"	- 5.5"	- 12.1"
38 Long Colt	158	650	627	606	148	138	129	0	- 4.5"	- 14.6"	- 30.4"
9MM Luger	115	1155	1047	971	341	280	241	0	- 1.0"	- 4.0"	- 9.0"
9MM Luger	124	1110	1030	971	339	292	259	0	- 1.2"	- 4.4"	- 9.8"
9MM Luger	147	975	935	899	310	285	264	0	- 1.7"	- 5.9"	- 12.7"
38 Special	110	1010	940	883	249	216	191	0	- 1.5"	- 5.4"	- 11.8"
38 Special	125	900	856	817	225	203	185	0	- 2.0"	- 7.0"	- 14.9"
38 Special	158	800	765	735	199	183	168	0	- 2.7"	- 9.1"	- 19.3"
38 Super Automatic + P	125	1240	1126	1043	427	352	302	0	- 0.8"	- 3.3"	- 7.5"
38 Super Automatic + P	130	1215	1108	1030	426	354	306	0	- 0.8"	- 3.4"	- 8.0"
357 Magnum	125	1500	1301	1153	624	470	298	0	- 0.3"	- 1.8"	- 4.7"
357 Magnum	140	1350	1208	1100	566	454	376	0	- 0.5"	- 2.6"	- 6.2"
357 Magnum	158	1250	1150	1073	548	464	404	0	- 0.8"	- 3.2"	- 7.5"