

# .357 Dia., 170 Gr. FMJ

POINT BLANK RANGE COMPUTED FOR 2.0 INCHES ABOVE AND BELOW LINE OF SIGHT

RANGE YARDS	MUZZLE	25	50	75	100	125	150	250
MAXIMUM POINT BLANK RANGE IS 180 YARDS. SET ZERO AT 150 YARDS.								
VELOCITY FPS	2400	2280	2164	2051	1942	1836	1734	1376
ENERGY FT-LB	2173	1962	1767	1588	1423	1272	1135	715
DROP INCHES	.00	-.19	-.80	-1.87	-3.46	-5.63	-8.44	-27.84
BULLET PATH (25 YDS)	-.75	.00	.33	.20	-.45	-1.67	-3.54	-19.17
INCHES (50 YDS)	-.75	-.17	.00	-.30	-1.11	-2.50	-4.54	-20.84
(ZERO RANGE) (75 YDS)	-.75	-.07	.20	.00	-.71	-2.01	-3.94	-19.84
(100 YDS)	-.75	.11	.56	.54	.00	-1.11	-2.87	-18.06
MPBR ZERO (150 YDS)	-.75	.59	1.51	1.97	1.91	1.28	.00	-13.28
WIND DRIFT (10 MPH)	.00	.14	.58	1.35	2.46	3.95	5.85	18.09
INCHES (20 MPH)	.00	.28	1.17	2.70	4.92	7.90	11.70	36.18

MAXIMUM POINT BLANK RANGE IS 170 YARDS. SET ZERO AT 145 YARDS.								
VELOCITY FPS	2300	2183	2069	1959	1853	1751	1653	1313
ENERGY FT-LB	1996	1798	1616	1449	1296	1157	1031	651
DROP INCHES	.00	-.21	-.87	-2.04	-3.78	-6.15	-9.23	-30.53
BULLET PATH (25 YDS)	-.75	.00	.29	.08	-.70	-2.11	-4.23	-21.70
INCHES (50 YDS)	-.75	-.15	.00	-.36	-1.29	-2.84	-5.11	-23.17
(ZERO RANGE) (75 YDS)	-.75	-.03	.24	.00	-.81	-2.24	-4.39	-21.97
(100 YDS)	-.75	.17	.64	.60	.00	-1.24	-3.18	-19.95
MPBR ZERO (145 YDS)	-.75	.65	1.58	2.02	1.88	1.12	-.36	-15.24
WIND DRIFT (10 MPH)	.00	.15	.62	1.44	2.62	4.21	6.23	19.20
INCHES (20 MPH)	.00	.30	1.24	2.87	5.25	8.42	12.46	38.41

MAXIMUM POINT BLANK RANGE IS 160 YARDS. SET ZERO AT 135 YARDS.								
VELOCITY FPS	2200	2086	1975	1868	1766	1667	1573	1271
ENERGY FT-LB	1826	1642	1473	1318	1177	1049	934	609
DROP INCHES	.00	-.23	-.96	-2.24	-4.15	-6.75	-10.13	-33.59
BULLET PATH (25 YDS)	-.75	.00	.25	-.06	-.98	-2.61	-5.01	-24.56
INCHES (50 YDS)	-.75	-.13	.00	-.43	-1.48	-3.23	-5.77	-25.81
(ZERO RANGE) (75 YDS)	-.75	.02	.29	.00	-.91	-2.52	-4.90	-24.38
(100 YDS)	-.75	.25	.74	.68	.00	-1.38	-3.54	-22.10
MPBR ZERO (135 YDS)	-.75	.64	1.54	1.87	1.59	.61	-1.16	-18.13
WIND DRIFT (10 MPH)	.00	.16	.66	1.53	2.80	4.49	6.64	20.33
INCHES (20 MPH)	.00	.32	1.33	3.07	5.60	8.98	13.29	40.65

MAXIMUM POINT BLANK RANGE IS 155 YARDS. SET ZERO AT 130 YARDS.								
VELOCITY FPS	2100	1989	1881	1778	1679	1584	1495	1235
ENERGY FT-LB	1664	1493	1336	1193	1064	947	843	576
DROP INCHES	.00	-.25	-1.05	-2.46	-4.56	-7.43	-11.17	-37.05
BULLET PATH (25 YDS)	-.75	.00	.20	-.21	-1.31	-3.18	-5.91	-27.79
INCHES (50 YDS)	-.75	-.10	.00	-.51	-1.71	-3.68	-6.52	-28.80
(ZERO RANGE) (75 YDS)	-.75	.07	.34	.00	-1.03	-2.83	-5.49	-27.09
(100 YDS)	-.75	.33	.86	.77	.00	-1.54	-3.95	-24.52
MPBR ZERO (130 YDS)	-.75	.70	1.61	1.90	1.50	.33	-1.70	-20.77
WIND DRIFT (10 MPH)	.00	.17	.71	1.64	2.99	4.80	7.09	21.32
INCHES (20 MPH)	.00	.35	1.42	3.28	5.98	9.60	14.18	42.63

MAXIMUM POINT BLANK RANGE IS 150 YARDS. SET ZERO AT 125 YARDS.								
VELOCITY FPS	2000	1892	1788	1689	1593	1503	1419	1201
ENERGY FT-LB	1509	1351	1207	1076	958	853	760	544
DROP INCHES	.00	-.28	-1.16	-2.72	-5.05	-8.23	-12.37	-40.93
BULLET PATH (25 YDS)	-.75	.00	.14	-.39	-1.69	-3.84	-6.96	-31.41
INCHES (50 YDS)	-.75	-.07	.00	-.61	-1.98	-4.20	-7.39	-32.13
(ZERO RANGE) (75 YDS)	-.75	.13	.40	.00	-1.17	-3.19	-6.17	-30.11
(100 YDS)	-.75	.42	.99	.87	.00	-1.73	-4.42	-27.19
MPBR ZERO (125 YDS)	-.75	.77	1.68	1.91	1.38	.00	-2.35	-23.73
WIND DRIFT (10 MPH)	.00	.19	.76	1.76	3.20	5.13	7.56	22.13
INCHES (20 MPH)	.00	.37	1.52	3.51	6.40	10.25	15.13	44.26

MAXIMUM POINT BLANK RANGE IS 145 YARDS. SET ZERO AT 120 YARDS.

VELOCITY FPS		1900	1795	1696	1600	1510	1425	1346	1168
ENERGY FT-LB		1362	1217	1085	966	860	766	684	515
DROP INCHES		.00	-.31	-1.29	-3.02	-5.61	-9.15	-13.76	-45.24
BULLET PATH	( 25 YDS)	-.75	.00	.08	-.60	-2.13	-4.61	-8.16	-35.42
INCHES	( 50 YDS)	-.75	-.04	.00	-.72	-2.28	-4.80	-8.39	-35.80
(ZERO RANGE)	( 75 YDS)	-.75	.20	.48	.00	-1.33	-3.61	-6.96	-33.41
	(100 YDS)	-.75	.53	1.14	.99	.00	-1.95	-4.97	-30.09
MPBR ZERO	(120 YDS)	-.75	.84	1.76	1.92	1.23	-.41	-3.12	-27.01
WIND DRIFT	(10 MPH)	.00	.20	.82	1.88	3.42	5.48	8.06	22.71
INCHES	(20 MPH)	.00	.40	1.63	3.76	6.85	10.95	16.12	45.42

RANGE YARDS	MUZZLE	25	50	75	100	125	150	250
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MAXIMUM POINT BLANK RANGE IS 135 YARDS. SET ZERO AT 115 YARDS.

VELOCITY FPS		1800	1699	1604	1513	1428	1349	1285	1138
ENERGY FT-LB		1222	1090	971	864	770	687	623	488
DROP INCHES		.00	-.34	-1.44	-3.37	-6.26	-10.22	-15.36	-49.97
BULLET PATH	( 25 YDS)	-.75	.00	.00	-.85	-2.64	-5.51	-9.56	-39.80
INCHES	( 50 YDS)	-.75	.00	.00	-.84	-2.64	-5.50	-9.56	-39.79
(ZERO RANGE)	( 75 YDS)	-.75	.28	.56	.00	-1.51	-4.09	-7.87	-36.98
	(100 YDS)	-.75	.66	1.32	1.14	.00	-2.20	-5.59	-33.19
MPBR ZERO	(115 YDS)	-.75	.92	1.84	1.91	1.03	-.91	-4.05	-30.61
WIND DRIFT	(10 MPH)	.00	.21	.87	2.01	3.66	5.83	8.55	22.98
INCHES	(20 MPH)	.00	.43	1.75	4.02	7.31	11.67	17.09	45.97

MAXIMUM POINT BLANK RANGE IS 130 YARDS. SET ZERO AT 110 YARDS.

VELOCITY FPS		1700	1604	1513	1428	1349	1285	1244	1108
ENERGY FT-LB		1090	971	864	770	687	623	584	463
DROP INCHES		.00	-.38	-1.61	-3.79	-7.04	-11.47	-17.22	-55.14
BULLET PATH	( 25 YDS)	-.75	.00	-.09	-1.14	-3.25	-6.55	-11.16	-44.55
INCHES	( 50 YDS)	-.75	.05	.00	-1.00	-3.06	-6.32	-10.88	-44.08
(ZERO RANGE)	( 75 YDS)	-.75	.38	.67	.00	-1.73	-4.65	-8.88	-40.76
	(100 YDS)	-.75	.81	1.53	1.30	.00	-2.49	-6.29	-36.43
MPBR ZERO	(110 YDS)	-.75	1.00	1.92	1.87	.77	-1.53	-5.13	-34.51
WIND DRIFT	(10 MPH)	.00	.23	.94	2.15	3.89	6.17	8.85	22.87
INCHES	(20 MPH)	.00	.46	1.87	4.30	7.78	12.35	17.69	45.75

MAXIMUM POINT BLANK RANGE IS 120 YARDS. SET ZERO AT 100 YARDS.

VELOCITY FPS		1600	1509	1424	1345	1283	1242	1203	1080
ENERGY FT-LB		966	860	766	683	621	582	546	440
DROP INCHES		.00	-.43	-1.82	-4.29	-7.94	-12.92	-19.30	-60.73
BULLET PATH	( 25 YDS)	-.75	.00	-.21	-1.48	-3.96	-7.75	-12.95	-49.64
INCHES	( 50 YDS)	-.75	.10	.00	-1.17	-3.55	-7.23	-12.33	-48.61
(ZERO RANGE)	( 75 YDS)	-.75	.49	.78	.00	-1.98	-5.27	-9.98	-44.69
	(100 YDS)	-.75	.99	1.77	1.49	.00	-2.80	-7.01	-39.74
MPBR ZERO	(100 YDS)	-.75	.99	1.77	1.49	.00	-2.80	-7.01	-39.74
WIND DRIFT	(10 MPH)	.00	.24	1.00	2.28	4.10	6.31	8.85	22.28
INCHES	(20 MPH)	.00	.49	1.99	4.56	8.20	12.62	17.71	44.57

MAXIMUM POINT BLANK RANGE IS 115 YARDS. SET ZERO AT 95 YARDS.

VELOCITY FPS		1500	1415	1337	1278	1238	1200	1165	1054
ENERGY FT-LB		849	756	675	617	578	543	512	419
DROP INCHES		.00	-.50	-2.08	-4.87	-8.99	-14.53	-21.57	-66.65
BULLET PATH	( 25 YDS)	-.75	.00	-.33	-1.88	-4.75	-9.04	-14.84	-54.93
INCHES	( 50 YDS)	-.75	.17	.00	-1.38	-4.08	-8.21	-13.84	-53.26
(ZERO RANGE)	( 75 YDS)	-.75	.63	.92	.00	-2.24	-5.91	-11.08	-48.66
	(100 YDS)	-.75	1.19	2.04	1.68	.00	-3.10	-7.71	-43.05
MPBR ZERO	( 95 YDS)	-.75	1.07	1.81	1.33	-.47	-3.69	-8.42	-44.23
WIND DRIFT	(10 MPH)	.00	.26	1.05	2.38	4.07	6.10	8.46	21.04
INCHES	(20 MPH)	.00	.52	2.11	4.75	8.13	12.20	16.93	42.08

MAXIMUM POINT BLANK RANGE IS 110 YARDS. SET ZERO AT 90 YARDS.

VELOCITY FPS		1400	1323	1270	1230	1192	1158	1127	1029
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ENERGY FT-LB	739	660	609	571	536	506	479	399
DROP INCHES	.00	-.57	-2.38	-5.53	-10.12	-16.23	-23.97	-72.87
BULLET PATH (25 YDS)	-.75	.00	-.49	-2.32	-5.59	-10.38	-16.79	-60.41
INCHES (50 YDS)	-.75	.24	.00	-1.59	-4.61	-9.17	-15.34	-57.98
(ZERO RANGE) (75 YDS)	-.75	.77	1.06	.00	-2.50	-6.52	-12.16	-52.69
(100 YDS)	-.75	1.40	2.31	1.87	.00	-3.40	-8.42	-46.44
MPBR ZERO (90 YDS)	-.75	1.14	1.79	1.10	-1.03	-4.69	-9.96	-49.02
WIND DRIFT (10 MPH)	.00	.27	1.05	2.18	3.66	5.46	7.59	19.03
INCHES (20 MPH)	.00	.55	2.10	4.37	7.31	10.92	15.18	38.06

MAXIMUM POINT BLANK RANGE IS 110 YARDS. SET ZERO AT 90 YARDS.

VELOCITY FPS	1300	1257	1218	1181	1148	1117	1090	1004
ENERGY FT-LB	637	596	560	527	497	471	448	380
DROP INCHES	.00	-.65	-2.67	-6.16	-11.20	-17.89	-26.32	-79.10
BULLET PATH (25 YDS)	-.75	.00	-.63	-2.72	-6.36	-11.65	-18.68	-65.88
INCHES (50 YDS)	-.75	.31	.00	-1.78	-5.11	-10.09	-16.80	-62.74
(ZERO RANGE) (75 YDS)	-.75	.91	1.18	.00	-2.74	-7.12	-13.25	-56.82
(100 YDS)	-.75	1.59	2.55	2.05	.00	-3.70	-9.14	-49.97
MPBR ZERO (90 YDS)	-.75	1.31	1.99	1.21	-1.13	-5.11	-10.83	-52.79
WIND DRIFT (10 MPH)	.00	.17	.68	1.53	2.71	4.21	6.02	15.96
INCHES (20 MPH)	.00	.34	1.37	3.07	5.43	8.42	12.03	31.93

RANGE YARDS	MUZZLE	10	20	30	40	50	75	100
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MAXIMUM POINT BLANK RANGE IS 100 YARDS. SET ZERO AT 80 YARDS.

VELOCITY FPS	1200	1185	1171	1158	1145	1133	1104	1078
ENERGY FT-LB	543	530	518	506	495	484	460	438
DROP INCHES	.00	-.12	-.49	-1.10	-1.98	-3.13	-7.18	-13.01
BULLET PATH (20 YDS)	-.75	-.25	.00	.00	-.26	-.79	-3.30	-7.58
INCHES (30 YDS)	-.75	-.25	.00	.00	-.26	-.78	-3.29	-7.58
(ZERO RANGE) (40 YDS)	-.75	-.19	.13	.19	.00	-.46	-2.80	-6.93
(50 YDS)	-.75	-.09	.31	.47	.37	.00	-2.11	-6.01
MPBR ZERO (80 YDS)	-.75	.25	1.00	1.50	1.74	1.72	.46	-2.57
WIND DRIFT (10 MPH)	.00	.03	.11	.24	.42	.66	1.46	2.56
INCHES (20 MPH)	.00	.05	.21	.48	.84	1.31	2.92	5.12

MAXIMUM POINT BLANK RANGE IS 95 YARDS. SET ZERO AT 75 YARDS.

VELOCITY FPS	1100	1089	1079	1069	1060	1051	1030	1010
ENERGY FT-LB	456	447	439	431	424	417	400	385
DROP INCHES	.00	-.14	-.57	-1.31	-2.34	-3.69	-8.43	-15.22
BULLET PATH (20 YDS)	-.75	-.23	.00	-.07	-.44	-1.12	-4.21	-9.35
INCHES (30 YDS)	-.75	-.21	.05	.00	-.35	-1.01	-4.04	-9.12
(ZERO RANGE) (40 YDS)	-.75	-.12	.22	.26	.00	-.57	-3.38	-8.24
(50 YDS)	-.75	.00	.45	.61	.46	.00	-2.53	-7.10
MPBR ZERO (75 YDS)	-.75	.33	1.12	1.62	1.81	1.69	.00	-3.73
WIND DRIFT (10 MPH)	.00	.02	.09	.21	.36	.57	1.25	2.19
INCHES (20 MPH)	.00	.05	.19	.41	.73	1.13	2.50	4.38

MAXIMUM POINT BLANK RANGE IS 85 YARDS. SET ZERO AT 70 YARDS.

VELOCITY FPS	1000	992	986	979	972	966	951	936
ENERGY FT-LB	377	372	366	361	357	352	341	331
DROP INCHES	.00	-.17	-.69	-1.57	-2.81	-4.42	-10.07	-18.11
BULLET PATH (20 YDS)	-.75	-.20	.00	-.16	-.68	-1.57	-5.42	-11.66
INCHES (30 YDS)	-.75	-.15	.11	.00	-.47	-1.30	-5.03	-11.14
(ZERO RANGE) (40 YDS)	-.75	-.03	.34	.35	.00	-.72	-4.15	-9.97
(50 YDS)	-.75	.11	.63	.78	.57	.00	-3.07	-8.53
MPBR ZERO (70 YDS)	-.75	.44	1.27	1.75	1.87	1.62	-.64	-5.29
WIND DRIFT (10 MPH)	.00	.02	.08	.17	.30	.46	1.03	1.82
INCHES (20 MPH)	.00	.04	.15	.34	.60	.93	2.07	3.64

MAXIMUM POINT BLANK RANGE IS 80 YARDS. SET ZERO AT 65 YARDS.

VELOCITY FPS	900	893	887	881	875	869	855	841
ENERGY FT-LB	305	301	297	293	289	285	276	267
DROP INCHES	.00	-.20	-.84	-1.92	-3.44	-5.42	-12.39	-22.32
BULLET PATH (20 YDS)	-.75	-.16	.00	-.28	-1.01	-2.20	-7.18	-15.13

INCHES	( 30 YDS)	-.75	-.06	.19	.00	-.64	-1.73	-6.47	-14.18
(ZERO RANGE)	( 40 YDS)	-.75	.10	.51	.48	.00	-.93	-5.28	-12.59
	( 50 YDS)	-.75	.28	.88	1.04	.74	.00	-3.88	-10.73
MPBR ZERO	( 65 YDS)	-.75	.59	1.49	1.95	1.96	1.52	-1.60	-7.69
WIND DRIFT	(10 MPH)	.00	.02	.08	.19	.33	.52	1.16	2.05
INCHES	(20 MPH)	.00	.04	.17	.37	.66	1.03	2.31	4.10

MAXIMUM POINT BLANK RANGE IS 70 YARDS. SET ZERO AT 55 YARDS.

VELOCITY FPS		800	795	790	785	780	776	764	753
ENERGY FT-LB		241	238	235	232	230	227	220	214
DROP INCHES		.00	-.24	-1.03	-2.37	-4.28	-6.75	-15.48	-27.91
BULLET PATH	( 20 YDS)	-.75	-.10	.00	-.45	-1.47	-3.06	-9.55	-19.76
INCHES	( 30 YDS)	-.75	.05	.30	.00	-.86	-2.30	-8.42	-18.25
(ZERO RANGE)	( 40 YDS)	-.75	.27	.73	.65	.00	-1.22	-6.80	-16.09
	( 50 YDS)	-.75	.51	1.22	1.38	.97	.00	-4.97	-13.65
MPBR ZERO	( 55 YDS)	-.75	.64	1.48	1.76	1.49	.64	-4.01	-12.38
WIND DRIFT	(10 MPH)	.00	.02	.08	.18	.32	.50	1.14	2.02
INCHES	(20 MPH)	.00	.04	.16	.36	.64	1.01	2.27	4.04

MAXIMUM POINT BLANK RANGE IS 60 YARDS. SET ZERO AT 50 YARDS.

VELOCITY FPS		700	696	692	688	684	680	671	661
ENERGY FT-LB		184	182	180	178	176	174	169	165
DROP INCHES		.00	-.31	-1.34	-3.09	-5.58	-8.81	-20.17	-36.36
BULLET PATH	( 20 YDS)	-.75	-.02	.00	-.71	-2.15	-4.33	-13.09	-26.67
INCHES	( 30 YDS)	-.75	.22	.47	.00	-1.21	-3.15	-11.32	-24.31
(ZERO RANGE)	( 40 YDS)	-.75	.52	1.07	.90	.00	-1.65	-9.06	-21.29
	( 50 YDS)	-.75	.85	1.73	1.89	1.32	.00	-6.59	-18.00
MPBR ZERO	( 50 YDS)	-.75	.85	1.73	1.89	1.32	.00	-6.59	-18.00
WIND DRIFT	(10 MPH)	.00	.02	.09	.19	.34	.54	1.22	2.17
INCHES	(20 MPH)	.00	.04	.17	.39	.69	1.08	2.43	4.34