

.224 Dia., 45 Gr. SMP

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

RANGE METERS MUZZLE 50 100 150 200 250

MAXIMUM POINT BLANK RANGE IS 195 METERS. SET ZERO AT 165 METERS.

VELOCITY FPS	3000	2690	2405	2137	1890	1666
ENERGY FT-LB	899	723	578	456	357	277
DROP INCHES	.00	-.62	-2.67	-6.53	-12.68	-21.74
BULLET PATH (50 M)	-.80	.00	-.64	-3.08	-7.81	-15.46
INCHES (100 M)	-.80	.32	.00	-2.12	-6.53	-13.86
(ZERO RANGE) (150 M)	-.80	1.03	1.42	.00	-3.70	-10.32
(200 M)	-.80	1.95	3.27	2.78	.00	-5.70
MPBR ZERO (165 M)	-.80	1.28	1.93	.77	-2.68	-9.04
WIND DRIFT (10 MPH)	.00	.54	2.27	5.38	10.12	16.77
INCHES (20 MPH)	.00	1.08	4.53	10.75	20.25	33.54

MAXIMUM POINT BLANK RANGE IS 190 METERS. SET ZERO AT 160 METERS.

VELOCITY FPS	2900	2599	2319	2056	1818	1601
ENERGY FT-LB	840	674	537	422	330	256
DROP INCHES	.00	-.66	-2.86	-7.01	-13.62	-23.39
BULLET PATH (50 M)	-.80	.00	-.74	-3.43	-8.58	-16.89
INCHES (100 M)	-.80	.37	.00	-2.31	-7.09	-15.03
(ZERO RANGE) (150 M)	-.80	1.14	1.54	.00	-4.01	-11.18
(200 M)	-.80	2.14	3.55	3.01	.00	-6.17
MPBR ZERO (160 M)	-.80	1.33	1.91	.55	-3.28	-10.26
WIND DRIFT (10 MPH)	.00	.56	2.37	5.63	10.61	17.58
INCHES (20 MPH)	.00	1.13	4.73	11.26	21.22	35.17

MAXIMUM POINT BLANK RANGE IS 185 METERS. SET ZERO AT 155 METERS.

VELOCITY FPS	2800	2507	2233	1977	1746	1536
ENERGY FT-LB	783	628	498	390	304	235
DROP INCHES	.00	-.71	-3.07	-7.53	-14.66	-25.22
BULLET PATH (50 M)	-.80	.00	-.86	-3.81	-9.43	-18.48
INCHES (100 M)	-.80	.43	.00	-2.52	-7.72	-16.33
(ZERO RANGE) (150 M)	-.80	1.27	1.68	.00	-4.35	-12.13
(200 M)	-.80	2.36	3.86	3.26	.00	-6.69
MPBR ZERO (155 M)	-.80	1.37	1.88	.29	-3.96	-11.64
WIND DRIFT (10 MPH)	.00	.59	2.48	5.91	11.14	18.46
INCHES (20 MPH)	.00	1.17	4.95	11.81	22.27	36.93

MAXIMUM POINT BLANK RANGE IS 180 METERS. SET ZERO AT 150 METERS.

VELOCITY FPS	2700	2413	2145	1897	1673	1471
ENERGY FT-LB	728	582	459	359	279	216
DROP INCHES	.00	-.76	-3.31	-8.14	-15.86	-27.31
BULLET PATH (50 M)	-.80	.00	-.99	-4.25	-10.41	-20.30
INCHES (100 M)	-.80	.50	.00	-2.76	-8.43	-17.82
(ZERO RANGE) (150 M)	-.80	1.42	1.84	.00	-4.74	-13.21
(200 M)	-.80	2.60	4.21	3.56	.00	-7.29
MPBR ZERO (150 M)	-.80	1.42	1.84	.00	-4.74	-13.21
WIND DRIFT (10 MPH)	.00	.62	2.61	6.23	11.75	19.46
INCHES (20 MPH)	.00	1.23	5.22	12.47	23.50	38.93

MAXIMUM POINT BLANK RANGE IS 170 METERS. SET ZERO AT 145 METERS.

VELOCITY FPS	2600	2320	2057	1818	1601	1408
ENERGY FT-LB	675	537	422	330	256	198
DROP INCHES	.00	-.82	-3.58	-8.81	-17.20	-29.65
BULLET PATH (50 M)	-.80	.00	-1.14	-4.74	-11.51	-22.34
INCHES (100 M)	-.80	.57	.00	-3.04	-9.23	-19.49
(ZERO RANGE) (150 M)	-.80	1.58	2.02	.00	-5.18	-14.44
(200 M)	-.80	2.88	4.61	3.89	.00	-7.96
MPBR ZERO (145 M)	-.80	1.47	1.79	-.34	-5.64	-15.01
WIND DRIFT (10 MPH)	.00	.65	2.76	6.59	12.41	20.54
INCHES (20 MPH)	.00	1.30	5.52	13.18	24.82	41.08

MAXIMUM POINT BLANK RANGE IS 165 METERS. SET ZERO AT 140 METERS.

VELOCITY FPS	2500	2226	1970	1740	1531	1348
ENERGY FT-LB	624	495	388	302	234	181
DROP INCHES	.00	-.89	-3.89	-9.57	-18.70	-32.30
BULLET PATH (50 M)	-.80	.00	-1.31	-5.30	-12.74	-24.64
INCHES (100 M)	-.80	.65	.00	-3.34	-10.13	-21.38
(ZERO RANGE) (150 M)	-.80	1.77	2.23	.00	-5.68	-15.81
(200 M)	-.80	3.19	5.06	4.26	.00	-8.72
MPBR ZERO (140 M)	-.80	1.52	1.73	-.74	-6.67	-17.05
WIND DRIFT (10 MPH)	.00	.69	2.93	6.97	13.12	21.69
INCHES (20 MPH)	.00	1.38	5.86	13.95	26.25	43.38

RANGE METERS	MUZZLE	50	100	150	200	250
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MAXIMUM POINT BLANK RANGE IS 160 METERS. SET ZERO AT 135 METERS.

VELOCITY FPS	2400	2132	1886	1662	1462	1290
ENERGY FT-LB	575	454	355	276	213	166
DROP INCHES	.00	-.97	-4.23	-10.43	-20.41	-35.27
BULLET PATH (50 M)	-.80	.00	-1.50	-5.93	-14.14	-27.23
INCHES (100 M)	-.80	.75	.00	-3.68	-11.15	-23.49
(ZERO RANGE) (150 M)	-.80	1.98	2.46	.00	-6.23	-17.36
(200 M)	-.80	3.53	5.57	4.68	.00	-9.56
MPBR ZERO (135 M)	-.80	1.57	1.65	-1.21	-7.85	-19.37
WIND DRIFT (10 MPH)	.00	.73	3.11	7.39	13.89	22.90
INCHES (20 MPH)	.00	1.47	6.22	14.77	27.77	45.80

MAXIMUM POINT BLANK RANGE IS 155 METERS. SET ZERO AT 130 METERS.

VELOCITY FPS	2300	2038	1801	1586	1395	1235
ENERGY FT-LB	528	415	324	251	194	152
DROP INCHES	.00	-1.06	-4.62	-11.40	-22.34	-38.63
BULLET PATH (50 M)	-.80	.00	-1.71	-6.64	-15.72	-30.16
INCHES (100 M)	-.80	.86	.00	-4.07	-12.30	-25.88
(ZERO RANGE) (150 M)	-.80	2.21	2.71	.00	-6.87	-19.09
(200 M)	-.80	3.93	6.15	5.15	.00	-10.51
MPBR ZERO (130 M)	-.80	1.63	1.54	-1.76	-9.22	-22.03
WIND DRIFT (10 MPH)	.00	.78	3.30	7.83	14.70	24.16
INCHES (20 MPH)	.00	1.56	6.59	15.66	29.39	48.33

MAXIMUM POINT BLANK RANGE IS 150 METERS. SET ZERO AT 125 METERS.

VELOCITY FPS	2200	1947	1718	1511	1331	1185
ENERGY FT-LB	483	378	295	228	177	140
DROP INCHES	.00	-1.16	-5.06	-12.51	-24.53	-42.43
BULLET PATH (50 M)	-.80	.00	-1.95	-7.44	-17.51	-33.45
INCHES (100 M)	-.80	.98	.00	-4.51	-13.60	-28.57
(ZERO RANGE) (150 M)	-.80	2.48	3.01	.00	-7.58	-21.05
(200 M)	-.80	4.38	6.80	5.69	.00	-11.57
MPBR ZERO (125 M)	-.80	1.68	1.41	-2.41	-10.79	-25.05
WIND DRIFT (10 MPH)	.00	.83	3.50	8.30	15.54	25.44
INCHES (20 MPH)	.00	1.66	6.99	16.59	31.09	50.89

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

VELOCITY FPS	2100	1856	1636	1438	1271	1139
ENERGY FT-LB	440	344	267	206	161	129
DROP INCHES	.00	-1.27	-5.57	-13.77	-27.02	-46.71
BULLET PATH (50 M)	-.80	.00	-2.23	-8.36	-19.54	-37.16
INCHES (100 M)	-.80	1.11	.00	-5.02	-15.08	-31.59
(ZERO RANGE) (150 M)	-.80	2.79	3.35	.00	-8.39	-23.22
(200 M)	-.80	4.88	7.54	6.29	.00	-12.74
MPBR ZERO (120 M)	-.80	1.73	1.23	-3.17	-12.61	-28.50
WIND DRIFT (10 MPH)	.00	.88	3.70	8.78	16.41	26.71
INCHES (20 MPH)	.00	1.76	7.40	17.57	32.83	53.42

MAXIMUM POINT BLANK RANGE IS 135 METERS. SET ZERO AT 115 METERS.

VELOCITY FPS	2000	1767	1555	1368	1214	1098
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ENERGY FT-LB		399	311	241	187	147	120
DROP INCHES		.00	-1.40	-6.14	-15.21	-29.85	-51.54
BULLET PATH	(50 M)	-80	.00	-2.54	-9.41	-21.85	-41.34
INCHES	(100 M)	-80	1.27	.00	-5.59	-16.76	-34.97
(ZERO RANGE)	(150 M)	-80	3.14	3.73	.00	-9.30	-25.65
	(200 M)	-80	5.46	8.38	6.97	.00	-14.03
MPBR ZERO	(115 M)	-80	1.78	1.02	-4.07	-14.72	-32.43
WIND DRIFT	(10 MPH)	.00	.92	3.91	9.29	17.28	27.91
INCHES	(20 MPH)	.00	1.85	7.83	18.57	34.57	55.82

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

VELOCITY FPS		1900	1675	1473	1299	1160	1061
ENERGY FT-LB		360	280	216	168	134	112
DROP INCHES		.00	-1.55	-6.83	-16.92	-33.18	-57.14
BULLET PATH	(50 M)	-80	.00	-2.92	-10.66	-24.56	-46.17
INCHES	(100 M)	-80	1.46	.00	-6.27	-18.72	-38.87
(ZERO RANGE)	(150 M)	-80	3.55	4.18	.00	-10.35	-28.41
	(200 M)	-80	6.14	9.36	7.76	.00	-15.47
MPBR ZERO	(110 M)	-80	1.84	.76	-5.14	-17.21	-36.98
WIND DRIFT	(10 MPH)	.00	.99	4.18	9.88	18.24	29.12
INCHES	(20 MPH)	.00	1.98	8.37	19.76	36.48	58.25