

.224 Dia., 45 Gr. SPT

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 200 METERS. SET ZERO AT 170 METERS.

VELOCITY FPS	3000	2736	2488	2253	2030	1822
ENERGY FT-LB	899	748	618	507	412	331
DROP INCHES	.00	-.61	-2.61	-6.29	-12.02	-20.29
BULLET PATH (50 M)	-.80	.00	-.59	-2.87	-7.19	-14.05
INCHES (100 M)	-.80	.30	.00	-1.98	-6.01	-12.57
(ZERO RANGE) (150 M)	-.80	.96	1.32	.00	-3.37	-9.27
(200 M)	-.80	1.80	3.01	2.53	.00	-5.06
MPBR ZERO (170 M)	-.80	1.27	1.95	.95	-2.10	-7.69
WIND DRIFT (10 MPH)	.00	.45	1.89	4.46	8.34	13.72
INCHES (20 MPH)	.00	.91	3.79	8.93	16.67	27.44

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

VELOCITY FPS	2900	2642	2399	2168	1951	1744
ENERGY FT-LB	840	697	575	469	380	303
DROP INCHES	.00	-.65	-2.79	-6.75	-12.92	-21.83
BULLET PATH (50 M)	-.80	.00	-.69	-3.20	-7.91	-15.37
INCHES (100 M)	-.80	.35	.00	-2.16	-6.53	-13.64
(ZERO RANGE) (150 M)	-.80	1.07	1.44	.00	-3.65	-10.05
(200 M)	-.80	1.98	3.27	2.74	.00	-5.48
MPBR ZERO (165 M)	-.80	1.32	1.95	.77	-2.63	-8.77
WIND DRIFT (10 MPH)	.00	.47	1.99	4.69	8.77	14.45
INCHES (20 MPH)	.00	.95	3.97	9.37	17.53	28.90

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

VELOCITY FPS	2800	2548	2309	2084	1872	1665
ENERGY FT-LB	783	648	533	434	350	277
DROP INCHES	.00	-.70	-3.00	-7.26	-13.92	-23.55
BULLET PATH (50 M)	-.80	.00	-.80	-3.56	-8.72	-16.86
INCHES (100 M)	-.80	.40	.00	-2.36	-7.11	-14.85
(ZERO RANGE) (150 M)	-.80	1.19	1.57	.00	-3.97	-10.92
(200 M)	-.80	2.18	3.56	2.98	.00	-5.96
MPBR ZERO (160 M)	-.80	1.37	1.94	.55	-3.24	-10.00
WIND DRIFT (10 MPH)	.00	.50	2.09	4.94	9.24	15.27
INCHES (20 MPH)	.00	1.00	4.18	9.87	18.48	30.53

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

VELOCITY FPS	2700	2453	2220	1999	1792	1587
ENERGY FT-LB	728	601	492	399	321	251
DROP INCHES	.00	-.75	-3.24	-7.83	-15.04	-25.50
BULLET PATH (50 M)	-.80	.00	-.93	-3.98	-9.63	-18.54
INCHES (100 M)	-.80	.47	.00	-2.58	-7.77	-16.21
(ZERO RANGE) (150 M)	-.80	1.33	1.72	.00	-4.33	-11.91
(200 M)	-.80	2.41	3.88	3.25	.00	-6.50
MPBR ZERO (155 M)	-.80	1.42	1.92	.30	-3.93	-11.42
WIND DRIFT (10 MPH)	.00	.52	2.20	5.21	9.76	16.19
INCHES (20 MPH)	.00	1.05	4.40	10.42	19.53	32.38

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

VELOCITY FPS	2600	2358	2130	1915	1708	1511
ENERGY FT-LB	675	555	453	366	291	228
DROP INCHES	.00	-.81	-3.50	-8.48	-16.31	-27.71
BULLET PATH (50 M)	-.80	.00	-1.07	-4.44	-10.66	-20.45
INCHES (100 M)	-.80	.54	.00	-2.83	-8.51	-17.76
(ZERO RANGE) (150 M)	-.80	1.48	1.89	.00	-4.73	-13.04
(200 M)	-.80	2.66	4.25	3.55	.00	-7.13
MPBR ZERO (150 M)	-.80	1.48	1.89	.00	-4.73	-13.04
WIND DRIFT (10 MPH)	.00	.55	2.33	5.51	10.36	17.23
INCHES (20 MPH)	.00	1.11	4.66	11.03	20.71	34.46

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

VELOCITY FPS	2500	2264	2041	1831	1625	1437
ENERGY FT-LB	624	512	416	335	263	206
DROP INCHES	.00	-.88	-3.79	-9.21	-17.74	-30.22
BULLET PATH (50 M)	-.80	.00	-1.23	-4.97	-11.82	-22.62
INCHES (100 M)	-.80	.62	.00	-3.12	-9.35	-19.54
(ZERO RANGE) (150 M)	-.80	1.66	2.08	.00	-5.19	-14.34
(200 M)	-.80	2.96	4.68	3.90	.00	-7.85
MPBR ZERO (145 M)	-.80	1.54	1.85	-.35	-5.66	-14.92
WIND DRIFT (10 MPH)	.00	.59	2.47	5.85	11.03	18.38
INCHES (20 MPH)	.00	1.17	4.94	11.70	22.06	36.77

RANGE METERS	MUZZLE	50	100	150	200	250
--------------	--------	----	-----	-----	-----	-----

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

VELOCITY FPS	2400	2169	1952	1744	1544	1366
ENERGY FT-LB	575	470	380	304	238	186
DROP INCHES	.00	-.96	-4.13	-10.03	-19.37	-33.10
BULLET PATH (50 M)	-.80	.00	-1.42	-5.57	-13.15	-25.12
INCHES (100 M)	-.80	.71	.00	-3.44	-10.32	-21.58
(ZERO RANGE) (150 M)	-.80	1.86	2.30	.00	-5.73	-15.84
(200 M)	-.80	3.29	5.16	4.30	.00	-8.68
MPBR ZERO (140 M)	-.80	1.60	1.79	-.76	-6.74	-17.10
WIND DRIFT (10 MPH)	.00	.62	2.62	6.23	11.79	19.65
INCHES (20 MPH)	.00	1.25	5.25	12.45	23.59	39.31

MAXIMUM POINT BLANK RANGE IS 160 METERS. SET ZERO AT 135 METERS.

VELOCITY FPS	2300	2075	1863	1656	1465	1299
ENERGY FT-LB	528	430	346	274	214	168
DROP INCHES	.00	-1.04	-4.51	-10.98	-21.25	-36.40
BULLET PATH (50 M)	-.80	.00	-1.62	-6.25	-14.68	-27.98
INCHES (100 M)	-.80	.81	.00	-3.82	-11.44	-23.93
(ZERO RANGE) (150 M)	-.80	2.08	2.55	.00	-6.35	-17.57
(200 M)	-.80	3.67	5.72	4.76	.00	-9.63
MPBR ZERO (135 M)	-.80	1.67	1.71	-1.25	-8.01	-19.65
WIND DRIFT (10 MPH)	.00	.66	2.79	6.66	12.65	21.05
INCHES (20 MPH)	.00	1.33	5.59	13.32	25.31	42.10

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

VELOCITY FPS	2200	1980	1773	1569	1389	1236
ENERGY FT-LB	483	391	314	246	192	152
DROP INCHES	.00	-1.14	-4.94	-12.06	-23.43	-40.19
BULLET PATH (50 M)	-.80	.00	-1.86	-7.04	-16.46	-31.29
INCHES (100 M)	-.80	.93	.00	-4.25	-12.75	-26.64
(ZERO RANGE) (150 M)	-.80	2.35	2.84	.00	-7.07	-19.55
(200 M)	-.80	4.12	6.37	5.31	.00	-10.71
MPBR ZERO (125 M)	-.80	1.59	1.33	-2.26	-10.09	-23.32
WIND DRIFT (10 MPH)	.00	.71	2.98	7.17	13.61	22.55
INCHES (20 MPH)	.00	1.42	5.97	14.34	27.22	45.09

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

VELOCITY FPS	2100	1886	1679	1485	1316	1179
ENERGY FT-LB	440	355	281	220	173	139
DROP INCHES	.00	-1.25	-5.44	-13.33	-25.95	-44.58
BULLET PATH (50 M)	-.80	.00	-2.13	-7.96	-18.53	-35.10
INCHES (100 M)	-.80	1.07	.00	-4.77	-14.27	-29.78
(ZERO RANGE) (150 M)	-.80	2.65	3.18	.00	-7.91	-21.83
(200 M)	-.80	4.63	7.13	5.93	.00	-11.94
MPBR ZERO (120 M)	-.80	1.65	1.18	-3.00	-11.92	-26.84
WIND DRIFT (10 MPH)	.00	.76	3.21	7.75	14.67	24.13
INCHES (20 MPH)	.00	1.51	6.42	15.50	29.33	48.25

MAXIMUM POINT BLANK RANGE IS 140 METERS. SET ZERO AT 115 METERS.

VELOCITY FPS	2000	1792	1587	1404	1249	1128
--------------	------	------	------	------	------	------

ENERGY FT-LB		399	321	251	197	155	127
DROP INCHES		.00	-1.39	-6.03	-14.81	-28.89	-49.64
BULLET PATH	(50 M)	-80	.00	-2.46	-9.06	-20.95	-39.51
INCHES	(100 M)	-80	1.23	.00	-5.37	-16.04	-33.38
(ZERO RANGE)	(150 M)	-80	3.02	3.58	.00	-8.87	-24.42
	(200 M)	-80	5.24	8.02	6.66	.00	-13.33
MPBR ZERO	(115 M)	-80	1.72	.98	-3.90	-14.08	-30.92
WIND DRIFT	(10 MPH)	.00	.81	3.50	8.41	15.81	25.75
INCHES	(20 MPH)	.00	1.62	6.99	16.83	31.62	51.49

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

VELOCITY FPS		1900	1692	1497	1326	1187	1083
ENERGY FT-LB		360	286	223	175	140	117
DROP INCHES		.00	-1.54	-6.72	-16.56	-32.33	-55.47
BULLET PATH	(50 M)	-80	.00	-2.84	-10.35	-23.78	-44.57
INCHES	(100 M)	-80	1.42	.00	-6.08	-18.09	-37.46
(ZERO RANGE)	(150 M)	-80	3.45	4.06	.00	-9.98	-27.32
	(200 M)	-80	5.94	9.04	7.48	.00	-14.85
MPBR ZERO	(110 M)	-80	1.79	.73	-4.98	-16.62	-35.63
WIND DRIFT	(10 MPH)	.00	.89	3.84	9.15	17.00	27.32
INCHES	(20 MPH)	.00	1.78	7.68	18.30	34.00	54.64