

## .277 Dia., 140 Gr. HPBT

POINT BLANK RANGE COMPUTED FOR 5.0 INCHES ABOVE AND BELOW LINE OF SIGHT

RANGE	YARDS	MUZZLE	50	100	200	300	400	500	600	1000
MAXIMUM POINT BLANK RANGE IS 380 YARDS. SET ZERO AT 320 YARDS.										
VELOCITY FPS		3300	3147	3000	2721	2463	2221	2004	1801	1198
ENERGY FT-LB		3384	3079	2799	2301	1886	1533	1248	1008	446
DROP INCHES		.00	-.40	-1.68	-7.24	-17.50	-33.50	-56.56	-88.30	-351.02
BULLET PATH	(100 YDS)	-1.50	-.31	.00	-2.37	-9.44	-22.26	-42.13	-70.69	-320.67
INCHES	(200 YDS)	-1.50	.28	1.18	.00	-5.89	-17.52	-36.21	-63.58	-308.82
(ZERO RANGE)	(300 YDS)	-1.50	1.26	3.15	3.93	.00	-9.67	-26.40	-51.81	-289.19
	(400 YDS)	-1.50	2.47	5.57	8.76	7.25	.00	-14.31	-37.30	-265.02
MPBR ZERO	(320 YDS)	-1.50	1.49	3.60	4.82	1.35	-7.87	-24.15	-49.11	-284.70
WIND DRIFT	(10 MPH)	.00	.19	.78	3.26	7.65	14.22	23.26	35.05	116.60
INCHES	(20 MPH)	.00	.38	1.56	6.52	15.31	28.45	46.52	70.10	233.20

MAXIMUM POINT BLANK RANGE IS 365 YARDS. SET ZERO AT 310 YARDS.										
VELOCITY FPS		3200	3051	2907	2635	2383	2148	1936	1738	1165
ENERGY FT-LB		3182	2893	2627	2158	1765	1434	1165	939	421
DROP INCHES		.00	-.43	-1.79	-7.71	-18.64	-35.71	-60.34	-94.26	-375.29
BULLET PATH	(100 YDS)	-1.50	-.28	.00	-2.62	-10.26	-24.04	-45.37	-76.01	-343.86
INCHES	(200 YDS)	-1.50	.37	1.31	.00	-6.33	-18.80	-38.82	-68.14	-330.75
(ZERO RANGE)	(300 YDS)	-1.50	1.43	3.42	4.22	.00	-10.36	-28.27	-55.48	-309.65
	(400 YDS)	-1.50	2.72	6.01	9.40	7.77	.00	-15.32	-39.94	-283.75
MPBR ZERO	(310 YDS)	-1.50	1.55	3.66	4.70	.71	-9.41	-27.08	-54.05	-307.27
WIND DRIFT	(10 MPH)	.00	.20	.81	3.39	7.96	14.81	24.20	36.49	120.90
INCHES	(20 MPH)	.00	.40	1.62	6.79	15.93	29.63	48.41	72.98	241.81

MAXIMUM POINT BLANK RANGE IS 360 YARDS. SET ZERO AT 305 YARDS.										
VELOCITY FPS		3100	2954	2814	2549	2302	2075	1868	1677	1134
ENERGY FT-LB		2986	2713	2461	2020	1647	1339	1085	874	399
DROP INCHES		.00	-.46	-1.91	-8.22	-19.90	-38.15	-64.50	100.84	-401.84
BULLET PATH	(100 YDS)	-1.50	-.25	.00	-2.90	-11.16	-26.01	-48.94	-81.87	-369.23
INCHES	(200 YDS)	-1.50	.47	1.45	.00	-6.81	-20.21	-41.69	-73.17	-354.73
(ZERO RANGE)	(300 YDS)	-1.50	1.61	3.72	4.54	.00	-11.12	-30.33	-59.54	-332.01
	(400 YDS)	-1.50	3.00	6.50	10.10	8.34	.00	-16.43	-42.86	-304.21
MPBR ZERO	(305 YDS)	-1.50	1.67	3.85	4.80	.38	-10.61	-29.70	-58.77	-330.74
WIND DRIFT	(10 MPH)	.00	.21	.85	3.53	8.30	15.44	25.22	38.03	125.33
INCHES	(20 MPH)	.00	.41	1.69	7.07	16.59	30.88	50.44	76.07	250.66

MAXIMUM POINT BLANK RANGE IS 350 YARDS. SET ZERO AT 295 YARDS.										
VELOCITY FPS		3000	2858	2720	2463	2220	2003	1800	1618	1105
ENERGY FT-LB		2797	2538	2300	1885	1532	1247	1007	813	379
DROP INCHES		.00	-.49	-2.04	-8.79	-21.29	-40.85	-69.10	108.10	-431.02
BULLET PATH	(100 YDS)	-1.50	-.22	.00	-3.21	-12.16	-28.18	-52.89	-88.35	-397.09
INCHES	(200 YDS)	-1.50	.58	1.60	.00	-7.35	-21.76	-44.87	-78.73	-381.05
(ZERO RANGE)	(300 YDS)	-1.50	1.81	4.05	4.90	.00	-11.96	-32.62	-64.02	-356.55
	(400 YDS)	-1.50	3.30	7.04	10.88	8.97	.00	-17.66	-46.08	-326.64
MPBR ZERO	(295 YDS)	-1.50	1.74	3.92	4.63	-.41	-12.51	-33.29	-64.84	-357.91
WIND DRIFT	(10 MPH)	.00	.22	.88	3.68	8.66	16.11	26.31	39.68	129.90
INCHES	(20 MPH)	.00	.43	1.77	7.37	17.33	32.21	52.62	79.35	259.81

MAXIMUM POINT BLANK RANGE IS 335 YARDS. SET ZERO AT 285 YARDS.										
VELOCITY FPS		2900	2761	2628	2376	2142	1930	1733	1560	1078
ENERGY FT-LB		2613	2369	2146	1755	1426	1158	933	756	361
DROP INCHES		.00	-.52	-2.19	-9.42	-22.83	-43.83	-74.19	116.14	-462.92
BULLET PATH	(100 YDS)	-1.50	-.18	.00	-3.55	-13.26	-30.58	-57.25	-95.51	-427.54
INCHES	(200 YDS)	-1.50	.71	1.77	.00	-7.95	-23.49	-48.38	-84.88	-409.82
(ZERO RANGE)	(300 YDS)	-1.50	2.03	4.42	5.30	.00	-12.89	-35.14	-68.98	-383.33
	(400 YDS)	-1.50	3.64	7.64	11.74	9.67	.00	-19.03	-49.64	-351.10
MPBR ZERO	(285 YDS)	-1.50	1.81	3.99	4.43	-1.31	-14.63	-37.32	-71.59	-387.68
WIND DRIFT	(10 MPH)	.00	.23	.92	3.85	9.05	16.81	27.48	41.41	134.53
INCHES	(20 MPH)	.00	.45	1.85	7.69	18.11	33.63	54.95	82.82	269.05

MAXIMUM POINT BLANK RANGE IS 325 YARDS. SET ZERO AT 275 YARDS.										
VELOCITY FPS		2800	2665	2536	2289	2064	1858	1668	1503	1054
ENERGY FT-LB		2436	2207	1999	1629	1325	1073	864	702	345
DROP INCHES		.00	-.56	-2.35	-10.12	-24.53	-47.13	-79.82	125.03	-497.77

BULLET PATH	(100 YDS)	-1.50	-.14	.00	-3.92	-14.49	-33.23	-62.08	103.44	-460.79
INCHES	(200 YDS)	-1.50	.84	1.96	.00	-8.61	-25.40	-52.28	-91.68	-441.19
(ZERO RANGE)	(300 YDS)	-1.50	2.28	4.83	5.74	.00	-13.92	-37.94	-74.47	-412.50
	( 400 YDS)	-1.50	4.02	8.31	12.70	10.44	.00	-20.54	-53.59	-377.70
MPBR ZERO	(275 YDS)	-1.50	1.89	4.05	4.19	-2.33	-17.02	-41.82	-79.13	-420.27
WIND DRIFT	(10 MPH)	.00	.24	.96	4.02	9.46	17.56	28.72	43.23	139.13
INCHES	(20 MPH)	.00	.47	1.93	8.03	18.92	35.13	57.44	86.45	278.27

RANGE YARDS MUZZLE 50 100 200 300 400 500 600 1000

MAXIMUM POINT BLANK RANGE IS 320 YARDS. SET ZERO AT 270 YARDS.

VELOCITY FPS		2700	2570	2444	2202	1987	1785	1605	1446	1031
ENERGY FT-LB		2265	2053	1856	1508	1227	991	801	650	330
DROP INCHES		.00	-.60	-2.53	-10.89	-26.42	-50.79	-86.08	134.90	-535.90
BULLET PATH	(100 YDS)	-1.50	-.09	.00	-4.34	-15.85	-36.19	-67.45	112.25	-497.15
INCHES	(200 YDS)	-1.50	.99	2.17	.00	-9.34	-27.51	-56.61	-99.24	-475.46
(ZERO RANGE)	(300 YDS)	-1.50	2.55	5.28	6.23	.00	-15.06	-41.04	-80.56	-444.33
	( 400 YDS)	-1.50	4.43	9.05	13.76	11.29	.00	-22.22	-57.97	-406.68
MPBR ZERO	(270 YDS)	-1.50	2.05	4.28	4.22	-3.01	-19.08	-46.07	-86.59	-454.37
WIND DRIFT	(10 MPH)	.00	.24	1.00	4.20	9.88	18.36	30.02	45.13	143.71
INCHES	(20 MPH)	.00	.49	2.00	8.40	19.76	36.71	60.04	90.26	287.42

MAXIMUM POINT BLANK RANGE IS 310 YARDS. SET ZERO AT 260 YARDS.

VELOCITY FPS		2600	2473	2349	2118	1908	1712	1542	1390	1009
ENERGY FT-LB		2101	1901	1716	1394	1131	911	739	601	316
DROP INCHES		.00	-.65	-2.73	-11.77	-28.58	-54.97	-93.22	146.15	-578.50
BULLET PATH	(100 YDS)	-1.50	-.04	.00	-4.82	-17.40	-39.56	-73.59	122.29	-537.73
INCHES	(200 YDS)	-1.50	1.16	2.41	.00	-10.18	-29.93	-61.55	107.84	-513.65
(ZERO RANGE)	(300 YDS)	-1.50	2.86	5.80	6.78	.00	-16.36	-44.59	-87.49	-479.74
	( 400 YDS)	-1.50	4.91	9.89	14.96	12.27	.00	-24.14	-62.95	-438.83
MPBR ZERO	(260 YDS)	-1.50	2.14	4.36	3.90	-4.33	-22.13	-51.81	-96.15	-494.16
WIND DRIFT	(10 MPH)	.00	.26	1.05	4.43	10.39	19.30	31.50	47.27	148.43
INCHES	(20 MPH)	.00	.51	2.11	8.86	20.78	38.59	62.99	94.53	296.86

MAXIMUM POINT BLANK RANGE IS 295 YARDS. SET ZERO AT 250 YARDS.

VELOCITY FPS		2500	2375	2255	2034	1829	1643	1480	1336	989
ENERGY FT-LB		1942	1754	1580	1286	1040	839	681	554	304
DROP INCHES		.00	-.71	-2.95	-12.76	-30.99	-59.64	101.19	158.66	-624.90
BULLET PATH	(100 YDS)	-1.50	.02	.00	-5.35	-19.13	-43.32	-80.42	133.44	-581.87
INCHES	(200 YDS)	-1.50	1.36	2.67	.00	-11.10	-32.62	-67.05	117.39	-555.12
(ZERO RANGE)	(300 YDS)	-1.50	3.21	6.38	7.40	.00	-17.82	-48.54	-95.19	-518.11
	( 400 YDS)	-1.50	5.44	10.83	16.31	13.37	.00	-26.27	-68.46	-473.56
MPBR ZERO	(250 YDS)	-1.50	2.23	4.43	3.51	-5.84	-25.61	-58.28	106.87	-537.58
WIND DRIFT	(10 MPH)	.00	.27	1.12	4.66	10.92	20.28	33.03	49.48	152.95
INCHES	(20 MPH)	.00	.55	2.24	9.33	21.83	40.56	66.05	98.95	305.90

MAXIMUM POINT BLANK RANGE IS 285 YARDS. SET ZERO AT 240 YARDS.

VELOCITY FPS		2400	2278	2162	1950	1751	1575	1420	1284	969
ENERGY FT-LB		1790	1613	1454	1182	953	771	626	512	292
DROP INCHES		.00	-.77	-3.21	-13.86	-33.68	-64.86	110.09	172.61	-675.38
BULLET PATH	(100 YDS)	-1.50	.09	.00	-5.94	-21.06	-47.53	-88.05	145.85	-629.79
INCHES	(200 YDS)	-1.50	1.57	2.97	.00	-12.14	-35.64	-73.19	128.02	-600.07
(ZERO RANGE)	(300 YDS)	-1.50	3.60	7.02	8.09	.00	-19.45	-52.95	103.74	-559.60
	( 400 YDS)	-1.50	6.03	11.88	17.82	14.59	.00	-28.64	-74.56	-510.96
MPBR ZERO	(240 YDS)	-1.50	2.33	4.49	3.04	-7.59	-29.57	-65.59	118.91	-584.88
WIND DRIFT	(10 MPH)	.00	.29	1.18	4.89	11.47	21.28	34.60	51.74	157.18
INCHES	(20 MPH)	.00	.58	2.37	9.79	22.94	42.56	69.20	103.47	314.35

MAXIMUM POINT BLANK RANGE IS 275 YARDS. SET ZERO AT 230 YARDS.

VELOCITY FPS		2300	2182	2074	1866	1675	1509	1361	1234	951
ENERGY FT-LB		1644	1480	1337	1083	872	708	576	474	281
DROP INCHES		.00	-.84	-3.50	-15.10	-36.71	-70.71	120.04	188.15	-730.12
BULLET PATH	(100 YDS)	-1.50	.16	.00	-6.61	-23.22	-52.23	-96.56	159.67	-681.66
INCHES	(200 YDS)	-1.50	1.81	3.30	.00	-13.31	-39.02	-80.04	139.86	-648.63
(ZERO RANGE)	(300 YDS)	-1.50	4.03	7.74	8.87	.00	-21.27	-57.86	113.23	-604.26
	( 400 YDS)	-1.50	6.69	13.06	19.51	15.95	.00	-31.27	-81.33	-551.08
MPBR ZERO	(230 YDS)	-1.50	2.43	4.54	2.47	-9.60	-34.08	-73.86	132.44	-636.27
WIND DRIFT	(10 MPH)	.00	.31	1.24	5.12	12.03	22.29	36.19	54.00	161.00
INCHES	(20 MPH)	.00	.61	2.47	10.23	24.07	44.58	72.37	108.00	322.00

MAXIMUM POINT BLANK RANGE IS 265 YARDS. SET ZERO AT 220 YARDS.

VELOCITY FPS		2200	2090	1985	1783	1603	1445	1305	1188	933
ENERGY FT-LB		1504	1358	1224	988	799	649	529	439	271
DROP INCHES		.00	-.91	-3.81	-16.48	-40.10	-77.27	131.15	205.46	-789.29
BULLET PATH	(100 YDS)	-1.50	.24	.00	-7.35	-25.66	-57.52	106.08	175.09	-737.66
INCHES	(200 YDS)	-1.50	2.08	3.68	.00	-14.63	-42.82	-87.71	153.03	-700.91
(ZERO RANGE)	(300 YDS)	-1.50	4.52	8.55	9.75	.00	-23.31	-63.32	123.77	-652.14
	( 400 YDS)	-1.50	7.43	14.38	21.41	17.48	.00	-34.19	-88.81	-593.86
MPBR ZERO	(220 YDS)	-1.50	2.53	4.57	1.79	-11.94	-39.23	-83.22	147.65	-691.94
WIND DRIFT	(10 MPH)	.00	.31	1.27	5.33	12.58	23.29	37.76	56.21	164.29
INCHES	(20 MPH)	.00	.62	2.53	10.66	25.17	46.57	75.52	112.41	328.58