

# .224 Dia., 60 Gr. HP

POINT BLANK RANGE COMPUTED FOR 2.5 INCHES ABOVE AND BELOW LINE OF SIGHT

RANGE	YARDS	MUZZLE	50	100	150	200	250	300	400	500
MAXIMUM POINT BLANK RANGE IS 305 YARDS. SET ZERO AT 260 YARDS.										
VELOCITY FPS		3600	3377	3166	2965	2773	2585	2404	2064	1760
ENERGY FT-LB		1726	1519	1335	1171	1024	890	770	567	413
DROP INCHES		.00	-.35	-1.45	-3.43	-6.39	-10.48	-15.88	-31.42	-55.19
BULLET PATH	(100 YDS)	-1.50	-.37	.00	-.50	-1.98	-4.60	-8.52	-21.11	-41.93
INCHES	(150 YDS)	-1.50	-.20	.33	.00	-1.32	-3.77	-7.52	-19.79	-40.27
(ZERO RANGE)	(200 YDS)	-1.50	.13	.99	.99	.00	-2.12	-5.54	-17.15	-36.97
	(250 YDS)	-1.50	.55	1.84	2.26	1.70	.00	-3.00	-13.75	-32.72
MPBR ZERO	(260 YDS)	-1.50	.65	2.03	2.55	2.07	.47	-2.43	-13.00	-31.78
WIND DRIFT	(10 MPH)	.00	.24	.98	2.26	4.13	6.66	9.91	18.95	31.99
INCHES	(20 MPH)	.00	.48	1.96	4.52	8.26	13.31	19.83	37.89	63.97

MAXIMUM POINT BLANK RANGE IS 295 YARDS. SET ZERO AT 255 YARDS.										
VELOCITY FPS		3500	3282	3076	2879	2689	2504	2326	1993	1698
ENERGY FT-LB		1631	1435	1260	1104	963	835	721	529	384
DROP INCHES		.00	-.37	-1.54	-3.63	-6.77	-11.11	-16.84	-33.38	-58.73
BULLET PATH	(100 YDS)	-1.50	-.35	.00	-.57	-2.19	-5.02	-9.23	-22.73	-45.05
INCHES	(150 YDS)	-1.50	-.16	.38	.00	-1.43	-4.06	-8.08	-21.21	-43.14
(ZERO RANGE)	(200 YDS)	-1.50	.20	1.10	1.07	.00	-2.28	-5.94	-18.35	-39.56
	(250 YDS)	-1.50	.66	2.01	2.44	1.82	.00	-3.21	-14.71	-35.01
MPBR ZERO	(255 YDS)	-1.50	.71	2.11	2.59	2.02	.25	-2.91	-14.31	-34.51
WIND DRIFT	(10 MPH)	.00	.25	1.01	2.34	4.28	6.91	10.31	19.74	33.36
INCHES	(20 MPH)	.00	.49	2.02	4.68	8.56	13.82	20.61	39.48	66.72

MAXIMUM POINT BLANK RANGE IS 285 YARDS. SET ZERO AT 245 YARDS.										
VELOCITY FPS		3400	3187	2986	2793	2604	2422	2248	1923	1636
ENERGY FT-LB		1539	1353	1187	1039	903	781	673	493	356
DROP INCHES		.00	-.39	-1.63	-3.85	-7.18	-11.79	-17.89	-35.53	-62.65
BULLET PATH	(100 YDS)	-1.50	-.32	.00	-.65	-2.42	-5.47	-10.00	-24.52	-48.50
INCHES	(150 YDS)	-1.50	-.10	.44	.00	-1.55	-4.38	-8.70	-22.78	-46.32
(ZERO RANGE)	(200 YDS)	-1.50	.28	1.21	1.16	.00	-2.45	-6.37	-19.67	-42.45
	(250 YDS)	-1.50	.77	2.19	2.63	1.96	.00	-3.44	-15.76	-37.56
MPBR ZERO	(245 YDS)	-1.50	.72	2.08	2.47	1.74	-.26	-3.75	-16.18	-38.08
WIND DRIFT	(10 MPH)	.00	.25	1.05	2.42	4.45	7.19	10.74	20.61	34.86
INCHES	(20 MPH)	.00	.51	2.09	4.85	8.90	14.39	21.48	41.22	69.71

MAXIMUM POINT BLANK RANGE IS 280 YARDS. SET ZERO AT 240 YARDS.										
VELOCITY FPS		3300	3092	2895	2704	2518	2340	2169	1853	1574
ENERGY FT-LB		1450	1274	1116	974	845	729	627	457	330
DROP INCHES		.00	-.41	-1.73	-4.09	-7.63	-12.55	-19.06	-37.92	-66.99
BULLET PATH	(100 YDS)	-1.50	-.30	.00	-.74	-2.67	-5.97	-10.86	-26.50	-52.33
INCHES	(150 YDS)	-1.50	-.05	.49	.00	-1.68	-4.74	-9.38	-24.52	-49.86
(ZERO RANGE)	(200 YDS)	-1.50	.37	1.34	1.26	.00	-2.63	-6.86	-21.15	-45.65
	(250 YDS)	-1.50	.90	2.39	2.84	2.11	.00	-3.69	-16.94	-40.38
MPBR ZERO	(240 YDS)	-1.50	.79	2.16	2.51	1.66	-.56	-4.37	-17.84	-41.51
WIND DRIFT	(10 MPH)	.00	.26	1.09	2.52	4.64	7.51	11.22	21.57	36.49
INCHES	(20 MPH)	.00	.53	2.17	5.04	9.27	15.02	22.44	43.13	72.98

MAXIMUM POINT BLANK RANGE IS 275 YARDS. SET ZERO AT 235 YARDS.										
VELOCITY FPS		3200	2997	2804	2614	2433	2258	2091	1784	1513
ENERGY FT-LB		1364	1196	1047	910	788	679	582	423	305
DROP INCHES		.00	-.44	-1.84	-4.35	-8.14	-13.39	-20.35	-40.57	-71.81
BULLET PATH	(100 YDS)	-1.50	-.27	.00	-.84	-2.95	-6.53	-11.82	-28.70	-56.60
INCHES	(150 YDS)	-1.50	.01	.56	.00	-1.83	-5.13	-10.14	-26.46	-53.80
(ZERO RANGE)	(200 YDS)	-1.50	.47	1.48	1.37	.00	-2.84	-7.39	-22.80	-49.22
	(250 YDS)	-1.50	1.04	2.61	3.08	2.27	.00	-3.98	-18.25	-43.53
MPBR ZERO	(235 YDS)	-1.50	.86	2.25	2.54	1.55	-.90	-5.07	-19.70	-45.34
WIND DRIFT	(10 MPH)	.00	.27	1.13	2.63	4.85	7.86	11.76	22.61	38.27
INCHES	(20 MPH)	.00	.55	2.26	5.26	9.69	15.72	23.51	45.22	76.54

MAXIMUM POINT BLANK RANGE IS 265 YARDS. SET ZERO AT 225 YARDS.

VELOCITY FPS		3100	2902	2710	2525	2346	2175	2012	1714	1453
ENERGY FT-LB		1280	1121	978	849	733	630	539	391	281
DROP INCHES		.00	-.47	-1.96	-4.65	-8.69	-14.32	-21.78	-43.52	-77.19
BULLET PATH	(100 YDS)	-1.50	-.23	.00	-.95	-3.26	-7.16	-12.89	-31.16	-61.36
INCHES	(150 YDS)	-1.50	.08	.63	.00	-2.00	-5.57	-10.99	-28.63	-58.20
(ZERO RANGE)	(200 YDS)	-1.50	.58	1.63	1.50	.00	-3.08	-7.99	-24.63	-53.21
	(250 YDS)	-1.50	1.20	2.86	3.34	2.46	.00	-4.30	-19.71	-47.05
MPBR ZERO	(225 YDS)	-1.50	.88	2.22	2.38	1.18	-1.60	-6.22	-22.28	-50.26
WIND DRIFT	(10 MPH)	.00	.29	1.18	2.75	5.08	8.25	12.35	23.76	40.20
INCHES	(20 MPH)	.00	.57	2.36	5.51	10.17	16.50	24.70	47.52	80.41

RANGE	YARDS	MUZZLE	50	100	150	200	250	300	400	500
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MAXIMUM POINT BLANK RANGE IS 260 YARDS. SET ZERO AT 220 YARDS.

VELOCITY FPS		3000	2806	2617	2435	2260	2093	1934	1645	1395
ENERGY FT-LB		1198	1049	912	789	680	583	498	360	259
DROP INCHES		.00	-.50	-2.10	-4.97	-9.31	-15.35	-23.38	-46.81	-83.20
BULLET PATH	(100 YDS)	-1.50	-.20	.00	-1.07	-3.61	-7.85	-14.08	-33.91	-66.70
INCHES	(150 YDS)	-1.50	.16	.71	.00	-2.18	-6.06	-11.93	-31.05	-63.12
(ZERO RANGE)	(200 YDS)	-1.50	.70	1.81	1.64	.00	-3.34	-8.66	-26.69	-57.67
	(250 YDS)	-1.50	1.37	3.14	3.64	2.67	.00	-4.66	-21.35	-50.99
MPBR ZERO	(220 YDS)	-1.50	.96	2.31	2.40	1.01	-2.07	-7.14	-24.66	-55.13
WIND DRIFT	(10 MPH)	.00	.30	1.24	2.90	5.35	8.69	13.01	25.02	42.30
INCHES	(20 MPH)	.00	.60	2.48	5.79	10.70	17.37	26.02	50.04	84.61

MAXIMUM POINT BLANK RANGE IS 245 YARDS. SET ZERO AT 210 YARDS.

VELOCITY FPS		2900	2708	2523	2344	2173	2010	1857	1577	1339
ENERGY FT-LB		1120	977	848	732	629	538	459	331	238
DROP INCHES		.00	-.53	-2.25	-5.34	-10.00	-16.51	-25.17	-50.50	-89.92
BULLET PATH	(100 YDS)	-1.50	-.16	.00	-1.21	-4.00	-8.63	-15.41	-36.99	-72.66
INCHES	(150 YDS)	-1.50	.25	.81	.00	-2.39	-6.62	-13.00	-33.77	-68.63
(ZERO RANGE)	(200 YDS)	-1.50	.84	2.00	1.79	.00	-3.63	-9.42	-28.99	-62.66
	(250 YDS)	-1.50	1.57	3.45	3.97	2.91	.00	-5.06	-23.18	-55.40
MPBR ZERO	(210 YDS)	-1.50	.98	2.27	2.20	.54	-2.95	-8.60	-27.91	-61.31
WIND DRIFT	(10 MPH)	.00	.31	1.31	3.06	5.65	9.17	13.74	26.39	44.57
INCHES	(20 MPH)	.00	.63	2.62	6.12	11.30	18.35	27.47	52.79	89.14

MAXIMUM POINT BLANK RANGE IS 240 YARDS. SET ZERO AT 205 YARDS.

VELOCITY FPS		2800	2610	2428	2254	2087	1929	1780	1510	1285
ENERGY FT-LB		1044	907	785	677	580	495	422	304	220
DROP INCHES		.00	-.57	-2.42	-5.75	-10.78	-17.81	-27.18	-54.64	-97.47
BULLET PATH	(100 YDS)	-1.50	-.11	.00	-1.36	-4.44	-9.51	-16.92	-40.45	-79.36
INCHES	(150 YDS)	-1.50	.34	.91	.00	-2.62	-7.24	-14.19	-36.82	-74.82
(ZERO RANGE)	(200 YDS)	-1.50	1.00	2.22	1.96	.00	-3.96	-10.26	-31.58	-68.27
	(250 YDS)	-1.50	1.79	3.80	4.34	3.17	.00	-5.51	-25.24	-60.34
MPBR ZERO	(205 YDS)	-1.50	1.07	2.37	2.19	.29	-3.59	-9.82	-30.99	-67.53
WIND DRIFT	(10 MPH)	.00	.34	1.39	3.25	5.99	9.72	14.54	27.90	47.01
INCHES	(20 MPH)	.00	.67	2.78	6.49	11.97	19.44	29.07	55.80	94.02

MAXIMUM POINT BLANK RANGE IS 235 YARDS. SET ZERO AT 200 YARDS.

VELOCITY FPS		2700	2514	2336	2166	2002	1850	1706	1447	1235
ENERGY FT-LB		971	842	727	625	534	456	387	278	203
DROP INCHES		.00	-.62	-2.61	-6.19	-11.63	-19.24	-29.39	-59.19	-105.72
BULLET PATH	(100 YDS)	-1.50	-.06	.00	-1.53	-4.92	-10.47	-18.56	-44.25	-86.67
INCHES	(150 YDS)	-1.50	.45	1.02	.00	-2.87	-7.92	-15.50	-40.17	-81.57
(ZERO RANGE)	(200 YDS)	-1.50	1.17	2.46	2.16	.00	-4.32	-11.19	-34.42	-74.39
	(250 YDS)	-1.50	2.03	4.19	4.75	3.46	.00	-6.00	-27.50	-65.74
MPBR ZERO	(200 YDS)	-1.50	1.17	2.46	2.16	.00	-4.32	-11.19	-34.42	-74.39
WIND DRIFT	(10 MPH)	.00	.35	1.47	3.42	6.32	10.26	15.34	29.42	49.45
INCHES	(20 MPH)	.00	.71	2.93	6.85	12.64	20.51	30.67	58.84	98.90

MAXIMUM POINT BLANK RANGE IS 225 YARDS. SET ZERO AT 190 YARDS.

VELOCITY FPS		2600	2418	2244	2077	1920	1772	1633	1385	1189
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ENERGY FT-LB		900	779	671	575	491	418	355	255	188
DROP INCHES		.00	-.67	-2.82	-6.70	-12.59	-20.84	-31.87	-64.29	-114.96
BULLET PATH	(100 YDS)	-1.50	-.01	.00	-1.72	-5.45	-11.55	-20.41	-48.52	-94.87
INCHES	(150 YDS)	-1.50	.57	1.15	.00	-3.16	-8.68	-16.97	-43.94	-89.14
(ZERO RANGE)	(200 YDS)	-1.50	1.36	2.73	2.37	.00	-4.73	-12.23	-37.61	-81.24
	(250 YDS)	-1.50	2.30	4.62	5.21	3.78	.00	-6.55	-30.05	-71.78
MPBR ZERO	(190 YDS)	-1.50	1.19	2.38	1.86	-.69	-5.59	-13.26	-38.98	-82.95
WIND DRIFT	(10 MPH)	.00	.37	1.55	3.62	6.69	10.84	16.21	31.06	52.01
INCHES	(20 MPH)	.00	.75	3.10	7.24	13.37	21.69	32.42	62.11	104.03

MAXIMUM POINT BLANK RANGE IS 220 YARDS. SET ZERO AT 185 YARDS.

VELOCITY FPS		2500	2322	2152	1989	1838	1695	1560	1325	1146
ENERGY FT-LB		832	718	617	527	450	382	324	234	175
DROP INCHES		.00	-.72	-3.05	-7.26	-13.67	-22.65	-34.66	-70.05	-125.32
BULLET PATH	(100 YDS)	-1.50	.06	.00	-1.93	-6.06	-12.77	-22.50	-53.33	-104.05
INCHES	(150 YDS)	-1.50	.70	1.29	.00	-3.49	-9.54	-18.63	-48.18	-97.60
(ZERO RANGE)	(200 YDS)	-1.50	1.57	3.03	2.61	.00	-5.19	-13.40	-41.21	-88.89
	(250 YDS)	-1.50	2.61	5.11	5.73	4.15	.00	-7.18	-32.91	-78.51
MPBR ZERO	(185 YDS)	-1.50	1.29	2.47	1.77	-1.12	-6.59	-15.08	-43.45	-91.69
WIND DRIFT	(10 MPH)	.00	.40	1.64	3.84	7.08	11.48	17.15	32.80	54.66
INCHES	(20 MPH)	.00	.79	3.29	7.68	14.17	22.96	34.31	65.60	109.32