

.312 Dia., 71 Gr. FMJ

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

RANGE YARDS	MUZZLE	10	20	30	40	50	75	100
MAXIMUM POINT BLANK RANGE IS 120 YARDS. SET ZERO AT 100 YARDS.								
VELOCITY FPS	1700	1643	1588	1535	1484	1435	1321	1222
ENERGY FT-LB	455	425	397	371	347	324	275	235
DROP INCHES	.00	-.06	-.25	-.57	-1.05	-1.68	-4.02	-7.61
BULLET PATH (10 YDS)	-.75	.00	.62	1.11	1.44	1.62	1.30	-.26
INCHES (20 YDS)	-.75	-.31	.00	.17	.20	.07	-1.03	-3.37
(ZERO RANGE) (30 YDS)	-.75	-.37	-.12	.00	-.03	-.22	-1.46	-3.95
(40 YDS)	-.75	-.36	-.10	.02	.00	-.18	-1.40	-3.87
MPBR ZERO (100 YDS)	-.75	.03	.67	1.18	1.55	1.75	1.50	.00
WIND DRIFT (10 MPH)	.00	.05	.21	.49	.88	1.39	3.21	5.84
INCHES (20 MPH)	.00	.11	.43	.98	1.76	2.78	6.43	11.69

MAXIMUM POINT BLANK RANGE IS 115 YARDS. SET ZERO AT 95 YARDS.								
VELOCITY FPS	1600	1546	1495	1445	1397	1352	1248	1161
ENERGY FT-LB	403	377	352	329	307	288	245	212
DROP INCHES	.00	-.07	-.28	-.65	-1.18	-1.90	-4.54	-8.58
BULLET PATH (10 YDS)	-.75	.00	.60	1.05	1.34	1.44	.84	-1.15
INCHES (20 YDS)	-.75	-.30	.00	.15	.13	-.07	-1.43	-4.18
(ZERO RANGE) (30 YDS)	-.75	-.35	-.10	.00	-.07	-.32	-1.79	-4.66
(40 YDS)	-.75	-.33	-.06	.05	.00	-.23	-1.66	-4.49
MPBR ZERO (95 YDS)	-.75	.07	.74	1.25	1.60	1.77	1.34	-.49
WIND DRIFT (10 MPH)	.00	.06	.23	.52	.94	1.48	3.39	6.12
INCHES (20 MPH)	.00	.11	.46	1.04	1.87	2.95	6.79	12.23

MAXIMUM POINT BLANK RANGE IS 110 YARDS. SET ZERO AT 90 YARDS.								
VELOCITY FPS	1500	1450	1402	1356	1313	1271	1180	1106
ENERGY FT-LB	354	331	309	290	271	255	219	193
DROP INCHES	.00	-.08	-.32	-.74	-1.35	-2.16	-5.15	-9.71
BULLET PATH (10 YDS)	-.75	.00	.58	.99	1.21	1.23	.30	-2.18
INCHES (20 YDS)	-.75	-.29	.00	.12	.04	-.23	-1.89	-5.10
(ZERO RANGE) (30 YDS)	-.75	-.33	-.08	.00	-.11	-.42	-2.18	-5.49
(40 YDS)	-.75	-.30	-.02	.08	.00	-.29	-1.97	-5.21
MPBR ZERO (90 YDS)	-.75	.11	.80	1.32	1.65	1.78	1.13	-1.08
WIND DRIFT (10 MPH)	.00	.06	.24	.55	.99	1.55	3.54	6.30
INCHES (20 MPH)	.00	.12	.49	1.10	1.98	3.11	7.07	12.59

MAXIMUM POINT BLANK RANGE IS 105 YARDS. SET ZERO AT 85 YARDS.								
VELOCITY FPS	1400	1354	1310	1269	1231	1195	1118	1057
ENERGY FT-LB	308	289	270	254	239	225	197	176
DROP INCHES	.00	-.09	-.37	-.85	-1.55	-2.47	-5.88	-11.02
BULLET PATH (10 YDS)	-.75	.00	.56	.92	1.06	.98	-.33	-3.38
INCHES (20 YDS)	-.75	-.28	.00	.08	-.06	-.43	-2.44	-6.18
(ZERO RANGE) (30 YDS)	-.75	-.31	-.05	.00	-.16	-.56	-2.63	-6.44
(40 YDS)	-.75	-.27	.03	.12	.00	-.35	-2.33	-6.03
MPBR ZERO (85 YDS)	-.75	.16	.87	1.39	1.69	1.76	.84	-1.81
WIND DRIFT (10 MPH)	.00	.06	.25	.58	1.03	1.61	3.60	6.32
INCHES (20 MPH)	.00	.13	.51	1.15	2.05	3.21	7.21	12.64

MAXIMUM POINT BLANK RANGE IS 100 YARDS. SET ZERO AT 80 YARDS.								
VELOCITY FPS	1300	1259	1221	1186	1154	1125	1063	1013
ENERGY FT-LB	266	250	235	222	210	199	178	161
DROP INCHES	.00	-.10	-.43	-.98	-1.78	-2.85	-6.73	-12.54
BULLET PATH (10 YDS)	-.75	.00	.53	.83	.88	.67	-1.08	-4.75
INCHES (20 YDS)	-.75	-.27	.00	.03	-.18	-.66	-3.07	-7.41
(ZERO RANGE) (30 YDS)	-.75	-.28	-.02	.00	-.22	-.71	-3.15	-7.51
(40 YDS)	-.75	-.22	.09	.17	.00	-.43	-2.73	-6.95
MPBR ZERO (80 YDS)	-.75	.21	.94	1.45	1.71	1.71	.47	-2.68
WIND DRIFT (10 MPH)	.00	.06	.26	.58	1.03	1.60	3.53	6.10
INCHES (20 MPH)	.00	.13	.52	1.17	2.06	3.21	7.06	12.21

MAXIMUM POINT BLANK RANGE IS 95 YARDS. SET ZERO AT 80 YARDS.

VELOCITY FPS		1200	1166	1136	1108	1083	1060	1011	970
ENERGY FT-LB		226	214	203	193	184	177	161	148
DROP INCHES		.00	-.12	-.50	-1.14	-2.07	-3.30	-7.74	-14.30
BULLET PATH	(10 YDS)	-.75	.00	.49	.72	.66	.31	-1.95	-6.33
INCHES	(20 YDS)	-.75	-.25	.00	-.02	-.33	-.93	-3.80	-8.80
(ZERO RANGE)	(30 YDS)	-.75	-.24	.01	.00	-.30	-.89	-3.75	-8.73
	(40 YDS)	-.75	-.17	.16	.22	.00	-.52	-3.19	-7.99
MPBR ZERO	(80 YDS)	-.75	.33	1.16	1.71	1.99	1.97	.53	-3.02
WIND DRIFT	(10 MPH)	.00	.06	.25	.56	.98	1.50	3.26	5.59
INCHES	(20 MPH)	.00	.13	.50	1.11	1.95	3.00	6.52	11.18

RANGE YARDS	MUZZLE	10	20	30	40	50	75	100
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MAXIMUM POINT BLANK RANGE IS 90 YARDS. SET ZERO AT 75 YARDS.

VELOCITY FPS		1100	1075	1053	1033	1014	997	958	924
ENERGY FT-LB		190	182	174	168	162	156	144	134
DROP INCHES		.00	-.14	-.59	-1.35	-2.43	-3.85	-8.95	-16.41
BULLET PATH	(10 YDS)	-.75	.00	.45	.59	.40	-.13	-2.99	-8.22
INCHES	(20 YDS)	-.75	-.22	.00	-.09	-.50	-1.25	-4.68	-10.47
(ZERO RANGE)	(30 YDS)	-.75	-.20	.06	.00	-.38	-1.11	-4.46	-10.18
	(40 YDS)	-.75	-.10	.25	.29	.00	-.63	-3.74	-9.22
MPBR ZERO	(75 YDS)	-.75	.40	1.25	1.78	2.00	1.87	.00	-4.23
WIND DRIFT	(10 MPH)	.00	.05	.22	.48	.83	1.28	2.80	4.83
INCHES	(20 MPH)	.00	.11	.43	.95	1.67	2.57	5.59	9.66

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

VELOCITY FPS		1000	983	967	953	939	926	895	865
ENERGY FT-LB		157	152	147	143	139	135	126	118
DROP INCHES		.00	-.17	-.71	-1.61	-2.89	-4.57	-10.55	-19.24
BULLET PATH	(10 YDS)	-.75	.00	.39	.41	.05	-.70	-4.38	-10.76
INCHES	(20 YDS)	-.75	-.20	.00	-.18	-.73	-1.68	-5.84	-12.72
(ZERO RANGE)	(30 YDS)	-.75	-.14	.12	.00	-.50	-1.39	-5.40	-12.13
	(40 YDS)	-.75	-.01	.37	.37	.00	-.77	-4.47	-10.89
MPBR ZERO	(70 YDS)	-.75	.49	1.37	1.88	2.01	1.75	-.70	-5.86
WIND DRIFT	(10 MPH)	.00	.04	.18	.39	.69	1.07	2.37	4.17
INCHES	(20 MPH)	.00	.09	.35	.79	1.39	2.15	4.74	8.34

MAXIMUM POINT BLANK RANGE IS 75 YARDS. SET ZERO AT 60 YARDS.

VELOCITY FPS		900	887	875	864	852	842	816	791
ENERGY FT-LB		127	124	120	117	114	111	105	98
DROP INCHES		.00	-.21	-.86	-1.96	-3.53	-5.57	-12.86	-23.39
BULLET PATH	(10 YDS)	-.75	.00	.31	.17	-.44	-1.53	-6.41	-14.55
INCHES	(20 YDS)	-.75	-.15	.00	-.30	-1.06	-2.30	-7.57	-16.09
(ZERO RANGE)	(30 YDS)	-.75	-.06	.20	.00	-.66	-1.80	-6.83	-15.10
	(40 YDS)	-.75	.11	.53	.50	.00	-.97	-5.58	-13.44
MPBR ZERO	(60 YDS)	-.75	.52	1.34	1.72	1.63	1.06	-2.53	-9.37
WIND DRIFT	(10 MPH)	.00	.04	.16	.37	.65	1.01	2.27	4.02
INCHES	(20 MPH)	.00	.08	.33	.73	1.30	2.03	4.54	8.05

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

VELOCITY FPS		800	790	781	771	762	754	732	712
ENERGY FT-LB		100	98	96	93	91	89	84	79
DROP INCHES		.00	-.25	-1.06	-2.44	-4.41	-6.96	-16.06	-29.20
BULLET PATH	(10 YDS)	-.75	.00	.19	-.18	-1.14	-2.69	-9.28	-19.90
INCHES	(20 YDS)	-.75	-.10	.00	-.47	-1.53	-3.18	-10.01	-20.88
(ZERO RANGE)	(30 YDS)	-.75	.06	.31	.00	-.90	-2.39	-8.83	-19.30
	(40 YDS)	-.75	.28	.76	.67	.00	-1.27	-7.14	-17.06
MPBR ZERO	(55 YDS)	-.75	.67	1.54	1.84	1.55	.67	-4.24	-13.18
WIND DRIFT	(10 MPH)	.00	.04	.16	.36	.64	1.00	2.26	4.03
INCHES	(20 MPH)	.00	.08	.32	.72	1.28	2.00	4.52	8.07

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

VELOCITY FPS		700	692	684	676	669	661	643	626
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ENERGY FT-LB		77	75	73	72	70	69	65	61
DROP INCHES		.00	-.33	-1.39	-3.18	-5.74	-9.07	-20.89	-37.96
BULLET PATH	(10 YDS)	-.75	.00	.03	-.69	-2.16	-4.41	-13.54	-27.90
INCHES	(20 YDS)	-.75	-.01	.00	-.73	-2.21	-4.48	-13.63	-28.03
(ZERO RANGE)	(30 YDS)	-.75	.23	.49	.00	-1.24	-3.26	-11.81	-25.60
	(40 YDS)	-.75	.54	1.11	.93	.00	-1.71	-9.48	-22.49
MPBR ZERO	(50 YDS)	-.75	.88	1.79	1.96	1.37	.00	-6.92	-19.08
WIND DRIFT	(10 MPH)	.00	.04	.17	.39	.69	1.08	2.44	4.38
INCHES	(20 MPH)	.00	.09	.34	.77	1.37	2.15	4.88	8.75

MAXIMUM POINT BLANK RANGE IS 50 YARDS. SET ZERO AT 40 YARDS.

VELOCITY FPS		600	593	586	580	573	567	551	536
ENERGY FT-LB		56	55	54	53	51	50	48	45
DROP INCHES		.00	-.45	-1.89	-4.33	-7.81	-12.34	-28.43	-51.65
BULLET PATH	(10 YDS)	-.75	.00	-.24	-1.48	-3.76	-7.09	-20.18	-40.40
INCHES	(20 YDS)	-.75	.12	.00	-1.13	-3.28	-6.50	-19.30	-39.22
(ZERO RANGE)	(30 YDS)	-.75	.49	.75	.00	-1.78	-4.62	-16.48	-35.47
	(40 YDS)	-.75	.94	1.64	1.34	.00	-2.39	-13.14	-31.01
MPBR ZERO	(40 YDS)	-.75	.94	1.64	1.34	.00	-2.39	-13.14	-31.01
WIND DRIFT	(10 MPH)	.00	.05	.20	.45	.80	1.25	2.84	5.09
INCHES	(20 MPH)	.00	.10	.39	.89	1.59	2.49	5.67	10.19