

## .4515 Dia., 185 Gr. FPJ Match

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 125 METERS. SET ZERO AT 105 METERS.

VELOCITY FPS	2000	1642	1344	1139	1025	946
ENERGY FT-LB	1110	748	501	360	291	248
DROP INCHES	.00	-1.48	-6.86	-18.03	-37.18	-66.19
BULLET PATH (50 M)	-.80	.00	-3.10	-12.00	-28.88	-55.61
INCHES (100 M)	-.80	1.55	.00	-7.35	-22.67	-47.85
(ZERO RANGE) (150 M)	-.80	4.00	4.90	.00	-12.87	-35.60
(200 M)	-.80	7.22	11.33	9.65	.00	-19.52
MPBR ZERO (105 M)	-.80	1.76	.42	-6.72	-21.83	-46.81
WIND DRIFT (10 MPH)	.00	1.50	6.54	15.63	28.00	42.92
INCHES (20 MPH)	.00	3.01	13.08	31.25	56.00	85.84

MAXIMUM POINT BLANK RANGE IS 125 METERS. SET ZERO AT 105 METERS.

VELOCITY FPS	1950	1599	1310	1121	1013	938
ENERGY FT-LB	1055	710	476	348	284	244
DROP INCHES	.00	-1.55	-7.23	-18.99	-38.98	-69.08
BULLET PATH (50 M)	-.80	.00	-3.32	-12.72	-30.36	-58.11
INCHES (100 M)	-.80	1.66	.00	-7.74	-23.73	-49.81
(ZERO RANGE) (150 M)	-.80	4.24	5.16	.00	-13.40	-36.90
(200 M)	-.80	7.59	11.86	10.05	.00	-20.15
MPBR ZERO (105 M)	-.80	1.88	.44	-7.08	-22.85	-48.71
WIND DRIFT (10 MPH)	.00	1.55	6.74	15.96	28.34	43.19
INCHES (20 MPH)	.00	3.11	13.49	31.93	56.67	86.39

MAXIMUM POINT BLANK RANGE IS 120 METERS. SET ZERO AT 100 METERS.

VELOCITY FPS	1900	1556	1277	1103	1001	929
ENERGY FT-LB	1001	672	452	337	278	239
DROP INCHES	.00	-1.64	-7.63	-20.00	-40.87	-72.08
BULLET PATH (50 M)	-.80	.00	-3.55	-13.48	-31.91	-60.68
INCHES (100 M)	-.80	1.77	.00	-8.16	-24.82	-51.81
(ZERO RANGE) (150 M)	-.80	4.49	5.44	.00	-13.94	-38.22
(200 M)	-.80	7.98	12.41	10.46	.00	-20.79
MPBR ZERO (100 M)	-.80	1.77	.00	-8.16	-24.82	-51.81
WIND DRIFT (10 MPH)	.00	1.61	6.95	16.27	28.61	43.39
INCHES (20 MPH)	.00	3.22	13.90	32.53	57.23	86.77

MAXIMUM POINT BLANK RANGE IS 120 METERS. SET ZERO AT 100 METERS.

VELOCITY FPS	1850	1514	1245	1086	990	920
ENERGY FT-LB	949	636	430	327	272	235
DROP INCHES	.00	-1.73	-8.05	-21.07	-42.85	-75.19
BULLET PATH (50 M)	-.80	.00	-3.79	-14.27	-33.52	-63.33
INCHES (100 M)	-.80	1.90	.00	-8.58	-25.94	-53.85
(ZERO RANGE) (150 M)	-.80	4.76	5.72	.00	-14.49	-39.55
(200 M)	-.80	8.38	12.97	10.87	.00	-21.43
MPBR ZERO (100 M)	-.80	1.90	.00	-8.58	-25.94	-53.85
WIND DRIFT (10 MPH)	.00	1.66	7.15	16.53	28.83	43.49
INCHES (20 MPH)	.00	3.33	14.30	33.07	57.65	86.99

MAXIMUM POINT BLANK RANGE IS 115 METERS. SET ZERO AT 95 METERS.

VELOCITY FPS	1800	1472	1214	1070	979	912
ENERGY FT-LB	899	601	409	318	266	231
DROP INCHES	.00	-1.83	-8.52	-22.20	-44.91	-78.43
BULLET PATH (50 M)	-.80	.00	-4.05	-15.11	-35.19	-66.07
INCHES (100 M)	-.80	2.03	.00	-9.02	-27.08	-55.94
(ZERO RANGE) (150 M)	-.80	5.04	6.02	.00	-15.05	-40.90
(200 M)	-.80	8.80	13.54	11.29	.00	-22.09
MPBR ZERO (95 M)	-.80	1.77	-.51	-9.78	-28.09	-57.20
WIND DRIFT (10 MPH)	.00	1.72	7.35	16.76	28.97	43.51
INCHES (20 MPH)	.00	3.44	14.70	33.51	57.94	87.02

MAXIMUM POINT BLANK RANGE IS 115 METERS. SET ZERO AT 95 METERS.							
VELOCITY FPS		1750	1430	1187	1055	969	904
ENERGY FT-LB		849	568	391	309	260	226
DROP INCHES		.00	-1.94	-9.01	-23.39	-47.07	-81.78
BULLET PATH	( 50 M )	-80	.00	-4.33	-15.98	-36.91	-68.89
INCHES	(100 M )	-80	2.17	.00	-9.47	-28.24	-58.05
(ZERO RANGE)	(150 M )	-80	5.33	6.32	.00	-15.61	-42.26
	(200 M )	-80	9.23	14.12	11.71	.00	-22.75
MPBR ZERO	( 95 M )	-80	1.90	-.54	-10.28	-29.32	-59.39
WIND DRIFT	(10 MPH)	.00	1.78	7.54	16.93	29.04	43.43
INCHES	(20 MPH)	.00	3.55	15.08	33.86	58.08	86.85

RANGE METERS		MUZZLE	50	100	150	200	250
MAXIMUM POINT BLANK RANGE IS 110 METERS. SET ZERO AT 90 METERS.							
VELOCITY FPS		1700	1389	1164	1041	958	895
ENERGY FT-LB		802	536	376	300	255	222
DROP INCHES		.00	-2.06	-9.55	-24.65	-49.32	-85.26
BULLET PATH	( 50 M )	-80	.00	-4.63	-16.88	-38.69	-71.78
INCHES	(100 M )	-80	2.32	.00	-9.93	-29.43	-60.20
(ZERO RANGE)	(150 M )	-80	5.63	6.62	.00	-16.18	-43.64
	(200 M )	-80	9.67	14.71	12.14	.00	-23.41
MPBR ZERO	( 90 M )	-80	1.76	-1.12	-11.61	-31.66	-62.99
WIND DRIFT	(10 MPH)	.00	1.83	7.70	17.04	29.01	43.22
INCHES	(20 MPH)	.00	3.67	15.41	34.08	58.03	86.45

MAXIMUM POINT BLANK RANGE IS 110 METERS. SET ZERO AT 90 METERS.							
VELOCITY FPS		1650	1349	1142	1027	948	887
ENERGY FT-LB		755	505	362	292	249	218
DROP INCHES		.00	-2.18	-10.12	-25.98	-51.67	-88.88
BULLET PATH	( 50 M )	-80	.00	-4.95	-17.83	-40.53	-74.76
INCHES	(100 M )	-80	2.47	.00	-10.40	-30.63	-62.38
(ZERO RANGE)	(150 M )	-80	5.94	6.93	.00	-16.76	-45.05
	(200 M )	-80	10.13	15.32	12.57	.00	-24.09
MPBR ZERO	( 90 M )	-80	1.88	-1.18	-12.17	-32.99	-65.34
WIND DRIFT	(10 MPH)	.00	1.89	7.83	17.08	28.89	42.90
INCHES	(20 MPH)	.00	3.78	15.66	34.17	57.79	85.81

MAXIMUM POINT BLANK RANGE IS 110 METERS. SET ZERO AT 90 METERS.							
VELOCITY FPS		1600	1310	1121	1013	938	879
ENERGY FT-LB		710	476	348	284	244	214
DROP INCHES		.00	-2.32	-10.73	-27.37	-54.11	-92.63
BULLET PATH	( 50 M )	-80	.00	-5.28	-18.80	-42.41	-77.81
INCHES	(100 M )	-80	2.64	.00	-10.88	-31.85	-64.60
(ZERO RANGE)	(150 M )	-80	6.27	7.25	.00	-17.35	-46.47
	(200 M )	-80	10.60	15.92	13.01	.00	-24.79
MPBR ZERO	( 90 M )	-80	2.02	-1.25	-12.75	-34.35	-67.72
WIND DRIFT	(10 MPH)	.00	1.94	7.92	17.05	28.66	42.44
INCHES	(20 MPH)	.00	3.89	15.84	34.10	57.33	84.89

MAXIMUM POINT BLANK RANGE IS 105 METERS. SET ZERO AT 85 METERS.							
VELOCITY FPS		1550	1272	1100	1000	928	870
ENERGY FT-LB		666	449	336	277	239	210
DROP INCHES		.00	-2.48	-11.38	-28.84	-56.66	-96.51
BULLET PATH	( 50 M )	-80	.00	-5.63	-19.81	-44.35	-80.93
INCHES	(100 M )	-80	2.82	.00	-11.36	-33.09	-66.86
(ZERO RANGE)	(150 M )	-80	6.60	7.57	.00	-17.94	-47.92
	(200 M )	-80	11.09	16.54	13.46	.00	-25.49
MPBR ZERO	( 85 M )	-80	1.84	-1.94	-14.28	-36.98	-71.72
WIND DRIFT	(10 MPH)	.00	1.99	7.96	16.93	28.32	41.84
INCHES	(20 MPH)	.00	3.99	15.91	33.86	56.63	83.67

MAXIMUM POINT BLANK RANGE IS 100 METERS. SET ZERO AT 85 METERS.							
VELOCITY FPS		1500	1234	1081	986	918	862

ENERGY FT-LB	624	423	324	270	233	206
DROP INCHES	.00	-2.64	-12.08	-30.37	-59.30	-100.54
BULLET PATH (50 M)	-80	.00	-5.99	-20.84	-46.33	-84.13
INCHES (100 M)	-80	3.00	.00	-11.85	-34.35	-69.15
(ZERO RANGE) (150 M)	-80	6.95	7.90	.00	-18.55	-49.40
(200 M)	-80	11.58	17.17	13.91	.00	-26.22
MPBR ZERO (85 M)	-80	1.97	-2.05	-14.93	-38.45	-74.28
WIND DRIFT (10 MPH)	.00	2.04	7.94	16.71	27.83	41.07
INCHES (20 MPH)	.00	4.08	15.87	33.41	55.67	82.13

MAXIMUM POINT BLANK RANGE IS 100 METERS. SET ZERO AT 80 METERS.

VELOCITY FPS	1450	1198	1062	974	907	853
ENERGY FT-LB	583	398	313	263	228	202
DROP INCHES	.00	-2.82	-12.81	-31.97	-62.05	-104.72
BULLET PATH (50 M)	-80	.00	-6.36	-21.90	-48.36	-87.41
INCHES (100 M)	-80	3.18	.00	-12.35	-35.63	-71.50
(ZERO RANGE) (150 M)	-80	7.30	8.24	.00	-19.16	-50.91
(200 M)	-80	12.09	17.82	14.37	.00	-26.96
MPBR ZERO (80 M)	-80	1.76	-2.83	-16.61	-41.30	-78.59
WIND DRIFT (10 MPH)	.00	2.07	7.84	16.38	27.21	40.11
INCHES (20 MPH)	.00	4.15	15.69	32.75	54.41	80.23

RANGE METERS MUZZLE 50 100 150 200 250

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

VELOCITY FPS	1400	1170	1044	961	897	845
ENERGY FT-LB	543	380	302	256	223	198
DROP INCHES	.00	-3.02	-13.58	-33.64	-64.91	-109.06
BULLET PATH (50 M)	-80	.00	-6.74	-22.97	-50.43	-90.76
INCHES (100 M)	-80	3.37	.00	-12.87	-36.95	-73.91
(ZERO RANGE) (150 M)	-80	7.66	8.58	.00	-19.79	-52.47
(200 M)	-80	12.61	18.47	14.85	.00	-27.72
MPBR ZERO (80 M)	-80	1.88	-2.98	-17.34	-42.91	-81.36
WIND DRIFT (10 MPH)	.00	2.08	7.67	15.92	26.42	38.96
INCHES (20 MPH)	.00	4.17	15.35	31.84	52.83	77.93

MAXIMUM POINT BLANK RANGE IS 90 METERS. SET ZERO AT 75 METERS.

VELOCITY FPS	1350	1142	1027	948	887	836
ENERGY FT-LB	505	362	292	249	218	194
DROP INCHES	.00	-3.23	-14.39	-35.37	-67.87	-113.56
BULLET PATH (50 M)	-80	.00	-7.12	-24.07	-52.54	-94.20
INCHES (100 M)	-80	3.56	.00	-13.39	-38.30	-76.39
(ZERO RANGE) (150 M)	-80	8.02	8.93	.00	-20.45	-54.07
(200 M)	-80	13.14	19.15	15.33	.00	-28.52
MPBR ZERO (75 M)	-80	1.63	-3.86	-19.18	-46.02	-86.04
WIND DRIFT (10 MPH)	.00	2.05	7.41	15.33	25.45	37.60
INCHES (20 MPH)	.00	4.10	14.82	30.66	50.89	75.19

MAXIMUM POINT BLANK RANGE IS 90 METERS. SET ZERO AT 75 METERS.

VELOCITY FPS	1300	1115	1009	935	876	827
ENERGY FT-LB	468	345	282	242	213	189
DROP INCHES	.00	-3.46	-15.24	-37.18	-70.97	-118.27
BULLET PATH (50 M)	-80	.00	-7.52	-25.20	-54.74	-97.78
INCHES (100 M)	-80	3.76	.00	-13.93	-39.70	-78.98
(ZERO RANGE) (150 M)	-80	8.40	9.28	.00	-21.13	-55.77
(200 M)	-80	13.68	19.85	15.85	.00	-29.35
MPBR ZERO (75 M)	-80	1.73	-4.05	-20.01	-47.81	-89.12
WIND DRIFT (10 MPH)	.00	1.96	7.04	14.59	24.29	36.01
INCHES (20 MPH)	.00	3.93	14.09	29.18	48.58	72.01

MAXIMUM POINT BLANK RANGE IS 90 METERS. SET ZERO AT 75 METERS.

VELOCITY FPS	1250	1089	992	922	865	817
ENERGY FT-LB	433	329	273	235	208	185
DROP INCHES	.00	-3.69	-16.12	-39.07	-74.21	-123.21
BULLET PATH (50 M)	-80	.00	-7.93	-26.38	-57.03	-101.54

INCHES	(100 M)	-80	3.96	.00	-14.49	-41.18	-81.72
(ZERO RANGE)	(150 M)	-80	8.79	9.66	.00	-21.86	-57.57
	(200 M)	-80	14.26	20.59	16.39	.00	-30.25
MPBR ZERO	(75 M)	-80	1.84	-4.25	-20.87	-49.69	-92.35
WIND DRIFT	(10 MPH)	.00	1.82	6.57	13.69	22.94	34.18
INCHES	(20 MPH)	.00	3.64	13.13	27.39	45.87	68.36

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

VELOCITY FPS		1200	1063	974	908	854	807
ENERGY FT-LB		399	313	263	228	202	180
DROP INCHES		.00	-3.93	-17.03	-41.04	-77.62	-128.44
BULLET PATH	(50 M)	-80	.00	-8.36	-27.63	-59.48	-105.57
INCHES	(100 M)	-80	4.18	.00	-15.09	-42.76	-84.67
(ZERO RANGE)	(150 M)	-80	9.21	10.06	.00	-22.64	-59.51
	(200 M)	-80	14.87	21.38	16.98	.00	-31.22
MPBR ZERO	(70 M)	-80	1.53	-5.30	-23.04	-53.36	-97.92
WIND DRIFT	(10 MPH)	.00	1.60	5.97	12.63	21.38	32.11
INCHES	(20 MPH)	.00	3.20	11.93	25.26	42.75	64.22

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

VELOCITY FPS		1150	1031	951	890	838	793
ENERGY FT-LB		367	295	251	219	195	174
DROP INCHES		.00	-4.25	-18.23	-43.65	-82.17	-135.45
BULLET PATH	(50 M)	-80	.00	-8.94	-29.31	-62.78	-111.02
INCHES	(100 M)	-80	4.47	.00	-15.91	-44.91	-88.68
(ZERO RANGE)	(150 M)	-80	9.77	10.60	.00	-23.70	-62.17
	(200 M)	-80	15.70	22.46	17.78	.00	-32.54
MPBR ZERO	(70 M)	-80	1.65	-5.64	-24.37	-56.19	-102.78
WIND DRIFT	(10 MPH)	.00	1.50	5.58	11.87	20.20	30.51
INCHES	(20 MPH)	.00	2.99	11.16	23.74	40.41	61.02

RANGE METERS MUZZLE 50 100 150 200 250

MAXIMUM POINT BLANK RANGE IS 80 METERS. SET ZERO AT 65 METERS.

VELOCITY FPS		1100	999	927	870	821	777
ENERGY FT-LB		335	277	238	210	187	167
DROP INCHES		.00	-4.59	-19.56	-46.58	-87.31	-143.41
BULLET PATH	(50 M)	-80	.00	-9.58	-31.21	-66.54	-117.25
INCHES	(100 M)	-80	4.79	.00	-16.84	-47.39	-93.31
(ZERO RANGE)	(150 M)	-80	10.40	11.23	.00	-24.93	-65.24
	(200 M)	-80	16.64	23.69	18.70	.00	-34.07
MPBR ZERO	(65 M)	-80	1.31	-6.95	-27.27	-61.29	-110.69
WIND DRIFT	(10 MPH)	.00	1.37	5.15	11.07	18.98	28.88
INCHES	(20 MPH)	.00	2.74	10.30	22.13	37.97	57.76

MAXIMUM POINT BLANK RANGE IS 80 METERS. SET ZERO AT 65 METERS.

VELOCITY FPS		1050	964	900	847	801	759
ENERGY FT-LB		305	258	225	199	178	160
DROP INCHES		.00	-4.99	-21.11	-50.02	-93.39	-152.88
BULLET PATH	(50 M)	-80	.00	-10.33	-33.45	-71.02	-124.72
INCHES	(100 M)	-80	5.16	.00	-17.95	-50.36	-98.90
(ZERO RANGE)	(150 M)	-80	11.15	11.97	.00	-26.43	-68.98
	(200 M)	-80	17.76	25.18	19.82	.00	-35.95
MPBR ZERO	(65 M)	-80	1.43	-7.47	-29.17	-65.31	-117.59
WIND DRIFT	(10 MPH)	.00	1.25	4.75	10.32	17.87	27.40
INCHES	(20 MPH)	.00	2.49	9.50	20.64	35.74	54.80

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

VELOCITY FPS		1000	928	870	821	778	738
ENERGY FT-LB		277	239	210	187	168	151
DROP INCHES		.00	-5.45	-22.94	-54.13	100.67	-164.36
BULLET PATH	(50 M)	-80	.00	-11.24	-36.17	-76.46	-133.89
INCHES	(100 M)	-80	5.62	.00	-19.32	-53.99	-105.80
(ZERO RANGE)	(150 M)	-80	12.06	12.88	.00	-28.24	-73.61
	(200 M)	-80	19.12	27.00	21.18	.00	-38.31

MPBR ZERO	( 60 M )	-80	1.03	-9.19	-33.09	-72.36	-128.77
WIND DRIFT	(10 MPH)	.00	1.14	4.42	9.70	16.95	26.20
INCHES	(20 MPH)	.00	2.28	8.83	19.39	33.90	52.39

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

VELOCITY FPS		950	888	837	792	751	713
ENERGY FT-LB		250	219	194	174	156	141
DROP INCHES		.00	-5.99	-25.12	-59.05	109.50	-178.36
BULLET PATH	( 50 M )	-80	.00	-12.34	-39.49	-83.15	-145.23
INCHES	(100 M )	-80	6.17	.00	-20.98	-58.46	-114.37
(ZERO RANGE)	(150 M )	-80	13.16	13.98	.00	-30.50	-79.41
	(200 M )	-80	20.79	29.23	22.87	.00	-41.29
MPBR ZERO	( 60 M )	-80	1.14	-10.07	-36.08	-78.60	-139.54
WIND DRIFT	(10 MPH)	.00	1.06	4.16	9.23	16.29	25.37
INCHES	(20 MPH)	.00	2.12	8.32	18.46	32.58	50.73

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

VELOCITY FPS		900	847	800	759	720	685
ENERGY FT-LB		224	199	177	159	144	130
DROP INCHES		.00	-6.63	-27.74	-64.99	120.28	-195.58
BULLET PATH	( 50 M )	-80	.00	-13.68	-43.50	-91.35	-159.22
INCHES	(100 M )	-80	6.84	.00	-22.98	-64.00	-125.03
(ZERO RANGE)	(150 M )	-80	14.50	15.32	.00	-33.35	-86.73
	(200 M )	-80	22.84	32.00	25.02	.00	-45.03
MPBR ZERO	( 55 M )	-80	.63	-12.42	-41.62	-88.85	-156.09
WIND DRIFT	(10 MPH)	.00	1.01	4.00	8.97	15.95	24.99
INCHES	(20 MPH)	.00	2.02	8.00	17.93	31.89	49.99

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

VELOCITY FPS		850	803	761	722	686	653
ENERGY FT-LB		200	179	160	144	130	118
DROP INCHES		.00	-7.41	-30.86	-72.23	133.49	-216.79
BULLET PATH	( 50 M )	-80	.00	-15.24	-48.40	101.46	-176.55
INCHES	(100 M )	-80	7.62	.00	-25.54	-70.97	-138.44
(ZERO RANGE)	(150 M )	-80	16.13	17.02	.00	-36.92	-95.88
	(200 M )	-80	25.36	35.48	27.69	.00	-49.73
MPBR ZERO	( 55 M )	-80	.71	-13.83	-46.29	-98.64	-173.03
WIND DRIFT	(10 MPH)	.00	.99	3.95	8.92	15.95	25.13
INCHES	(20 MPH)	.00	1.97	7.90	17.84	31.91	50.26