

Exbal Ballistic Calculator

EXAMPLE 308 Win : Sierra MatchKing 0.308" 168gr HPBT

	SIGHT-IN DATA	FIELD DATA	POINT BLANK RANGE DATA			
Muzzle Velocity (fps)	2561	2561	TARGET	SIGHT-IN	POINT BLANK RANGE	
Bullet Weight (grains)	168		HEIGHT	DISTANCE	HIGH	LOW
Sight Height (in)	1.5		(in)	(yd)	(yd)	(yd)
Sight-in Distance (yd)	100		2	150	93	172
Altitude (ft)	0	0	4	188	109	219
Temperature (deg F)	59	59	6	217	122	254
Pressure@Sea Level (in Hg)	29.53	29.53	8	243	135	285
Relative Humidity (pct)	78.0	78.0	10	265	145	311
Wind Velocity (mph)		10				
Wind Angle (degrees)		90 ( 3.0 O'Clock)				
Incline Angle (degrees)		0				
Moving Target Speed (mph)		0.0				
Ballistic Coefficient	0.462	0.447	0.424	0.405		
Lower Velocity Limit (fps)	2600	2100	1600	0		

MAX APPARENT TRAJECTORY (in) 0.2

TARGET	SIGHT ADJUSTMENTS			TRAJECTORY VALUES			Drop from		ARRIVAL	
DIST	ELEV	WIND	LEAD	ELEV	WIND	LEAD	VELOCITY	ENERGY	bore line	TIME
(yd)	MOA	MOA	MOA	(in)	(in)	(in)	(fps)	(ft-lb)	(in)	(sec)
0	0.00	0.00	0.00	-1.5	0.0	0.0	2561	2446	0.0	0.0000
25	2.25	0.25	0.00	-0.6	-0.0	0.0	2512	2354	-0.2	0.0296
50	0.00	0.50	0.00	-0.0	-0.2	0.0	2464	2264	-0.7	0.0597
75	-0.25	0.50	0.00	0.2	-0.5	0.0	2416	2176	-1.5	0.0904
100	0.00	0.75	0.00	-0.0	-0.8	0.0	2368	2091	-2.8	0.1218
125	0.50	1.00	0.00	-0.6	-1.3	0.0	2321	2009	-4.4	0.1538
150	1.00	1.25	0.00	-1.5	-1.9	0.0	2275	1930	-6.4	0.1864
175	1.50	1.50	0.00	-2.9	-2.6	0.0	2229	1853	-8.9	0.2197
200	2.25	1.75	0.00	-4.7	-3.4	0.0	2184	1778	-11.7	0.2537
225	3.00	1.75	0.00	-7.0	-4.4	0.0	2139	1706	-15.1	0.2883
250	3.75	2.00	0.00	-9.7	-5.4	0.0	2095	1636	-18.9	0.3238
275	4.50	2.25	0.00	-13.0	-6.7	0.0	2049	1565	-23.2	0.3600
300	5.25	2.50	0.00	-16.7	-8.0	0.0	2003	1497	-28.0	0.3970
325	6.25	2.75	0.00	-21.0	-9.5	0.0	1959	1431	-33.4	0.4348
350	7.00	3.00	0.00	-25.9	-11.2	0.0	1915	1367	-39.3	0.4735
375	8.00	3.25	0.00	-31.3	-13.0	0.0	1871	1306	-45.8	0.5131
400	9.00	3.50	0.00	-37.4	-15.0	0.0	1828	1247	-53.0	0.5536
425	10.00	3.75	0.00	-44.1	-17.1	0.0	1786	1190	-60.7	0.5951
450	11.00	4.25	0.00	-51.5	-19.4	0.0	1744	1135	-69.2	0.6376
475	12.00	4.50	0.00	-59.7	-21.9	0.0	1703	1082	-78.4	0.6811
500	13.00	4.75	0.00	-68.5	-24.6	0.0	1663	1031	-88.3	0.7256
525	14.25	5.00	0.00	-78.2	-27.5	0.0	1624	983	-99.0	0.7713
550	15.50	5.25	0.00	-88.6	-30.6	0.0	1585	937	-110.6	0.8180
575	16.50	5.50	0.00	-100.0	-33.9	0.0	1546	891	-123.0	0.8659
600	17.75	6.00	0.00	-112.2	-37.3	0.0	1508	848	-136.3	0.9150
625	19.25	6.25	0.00	-125.4	-41.0	0.0	1471	807	-150.6	0.9654
650	20.50	6.50	0.00	-139.6	-45.0	0.0	1434	767	-165.8	1.0170
675	22.00	7.00	0.00	-154.9	-49.1	0.0	1399	730	-182.2	1.0699
700	23.25	7.25	0.00	-171.3	-53.5	0.0	1365	695	-199.6	1.1242
725	24.75	7.75	0.00	-188.8	-58.2	0.0	1333	662	-218.2	1.1798
750	26.50	8.00	0.00	-207.6	-63.0	0.0	1302	632	-238.0	1.2367
775	28.00	8.50	0.00	-227.6	-68.1	0.0	1272	603	-259.1	1.2950
800	29.75	8.75	0.00	-249.0	-73.5	0.0	1244	577	-281.6	1.3546
825	31.50	9.25	0.00	-271.8	-79.1	0.0	1216	552	-305.4	1.4156
850	33.25	9.50	0.00	-296.0	-84.9	0.0	1190	529	-330.7	1.4779
875	35.00	10.00	0.00	-321.8	-90.9	0.0	1166	507	-357.6	1.5416
900	37.00	10.25	0.00	-349.2	-97.2	0.0	1144	488	-386.0	1.6065
925	39.00	10.75	0.00	-378.2	-103.7	0.0	1123	471	-416.1	1.6727
950	41.00	11.00	0.00	-409.0	-110.4	0.0	1104	454	-448.0	1.7401
975	43.25	11.50	0.00	-441.5	-117.3	0.0	1086	440	-481.6	1.8086
1000	45.50	12.00	0.00	-475.9	-124.6	0.0	1069	426	-517.0	1.8783