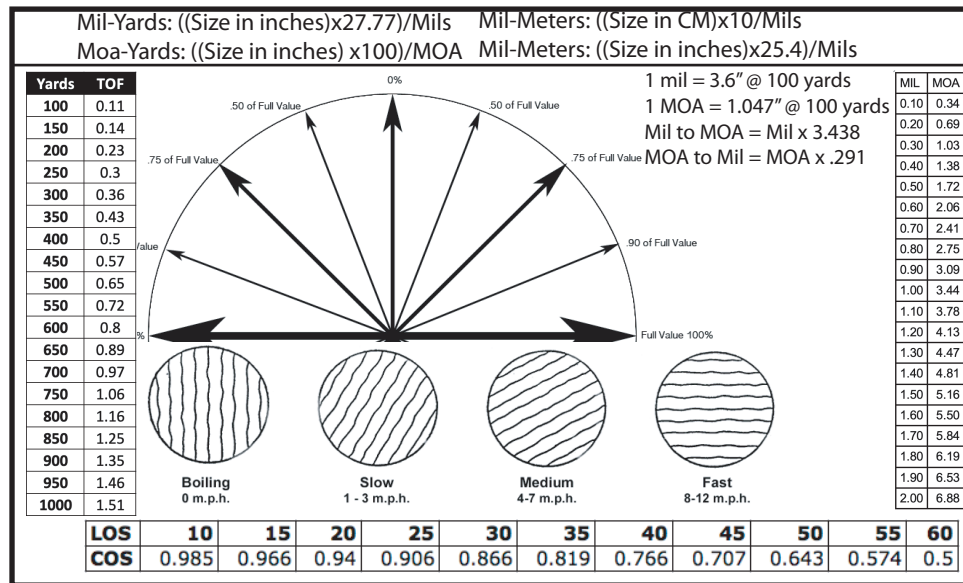


General Reference Info



Mil Ranging Card

	< Target Size Inches Target Size - Mills Mil-Yards: ((Size in inches)x27.77)/Mills																								
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5				
8	444	370	317	278	247	222	202	185	171	159	148	139	131	123	117	111	106	101	97	93	89				
10	555	463	397	347	309	278	252	231	214	198	185	174	163	154	146	139	132	126	121	116	111				
12	666	555	476	417	370	333	303	278	256	238	222	208	196	185	175	167	159	151	145	139	133				
16	889	741	635	555	494	444	404	370	342	317	296	278	261	247	234	222	212	202	193	185	178				
18	1000	833	714	625	555	500	454	417	385	357	333	312	294	278	263	250	238	227	217	208	200				
20	1111	926	793	694	617	555	505	463	427	397	370	347	327	309	292	278	264	252	241	231	222				
24	1333	1111	952	833	741	666	606	555	513	476	444	417	392	370	351	333	317	303	290	278	267				
	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0				
30	833	757	694	641	595	555	521	490	463	438	417	397	379	362	347	333	320	309	298	287	278				
36	1000	909	833	769	714	666	625	588	555	526	500	476	454	435	417	400	385	370	357	345	333				
48	1333	1212	1111	1025	952	889	833	784	741	702	666	635	606	580	555	533	513	494	476	460	444				
54	1500	1363	1250	1154	1071	1000	937	882	833	789	750	714	682	652	625	600	577	555	536	517	500				
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0				
70	972	926	884	845	810	778	748	720	694	670	648	627	607	589	572	555	540	525	512	498	486				

Shooter Checklists/Reference Info

Positional Checklist Square hips to target Center rifle Cheek weld Shooting hand Shooting elbow Non shooting elbow Non shooting hand Legs	Shooter's Checklist Pan to target Parallax Range & Elevation Magnification Close Bolt Check level 90 Degrees of trigger Final wind call Breath Good trigger press Recoil management Measure Impact Make Call-> MPH wind	Quick Dope Drop: 100's of yards - Constant=Mils 500yd = 5-2.0=3.0 mils Wind: MPH Gun/G1 BC Gun 4mph gun = 0.5mil @ 500 @ 4
Torque Values: Rifle Base - 15 in lbs Rings to base - 55 in lbs Scope rings - 20 in lbs Action Screw, B14 - 55in lbs Action Screw, CZ - 25 in lbs Mlok - 35in lbs Barrel Nut - 55 ft/lbs Handguards - 25-30 in lbs	Shot -Atmospherics -Baro, Temp, H -Range->Elevation -Wind Direction -Wind Speed	Additional Considerations @1000+ Spin Drift 0.1 mil R every 400 yards Coriolis -DOF = Elevation. E+,W- -Latitude = Windage. N /R, S/L
		Truing Mach 1.2-1340 FPS Sub-200 yards past Process -Zero -Chrono -Trans -Slide BC -Confirm Mid Range & Sub DSF
		Movers Mils per second x TOF = Hold 10mil/s x 1.2tof = 10.2 Mil V2, .5 mil per MPH. 1 mil/sec=1 mph

Density Altitude Chart

14,000'	12500	13500	14000	14500	15500	16000	16500	17500	18000						
13,000'	11,500	12,000	13,000	13,500	14,000	15,000	15,500	16,000	17,000	17,500					
12,000'	10,000	11,000	11,500	12,500	13,000	13,500	14,000	15,000	15,500	16,000	17,000				
11,000'	9,000	9,500	10,500	11,000	11,500	12,500	13,000	13,500	14,500	15,000	15,500	16,500			
10,000'	7,500	8,500	9,000	10,000	10,500	11,000	12,000	12,500	13,000	14,000	14,500	15,000	16,000	16,500	
9,000'	6,500	7,000	8,000	8,500	9,500	10,000	10,500	11,000	12,000	12,500	13,500	14,000	14,500	15,500	
8,000'	5,000	6,000	6,500	7,500	8,000	8,500	9,500	10,000	10,500	11,500	12,000	12,500	13,500	14,000	
7,000'	4,000	4,500	5,500	6,000	7,000	7,500	8,000	9,000	9,500	10,000	11,000	11,500	12,500	13,000	
6,000'	2,500	3,500	4,000	5,000	5,500	6,000	7,000	7,500	8,000	9,000	9,500	10,500	11,000	12,000	
5,000'	1,500	2,000	3,000	3,500	4,500	5,000	5,500	6,500	7,000	7,500	8,500	9,000	10,000	10,500	
4,000'	0	1,000	1,500	2,500	3,000	3,500	4,500	5,000	6,000	6,500	7,000	8,000	8,500	9,500	
3,000'	-1,000	-500	500	1,000	2,000	2,500	3,000	4,000	4,500	5,500	6,000	6,500	7,500	8,000	
2,000'	-2,500	-1,500	-1,000	0	500	1,500	2,000	2,500	3,500	4,000	4,500	5,500	6,000	7,000	
1,000'	-3,500	-3,000	-2,000	-1,500	-500	0	500	1,500	2,000	3,000	3,500	4,000	5,000	5,500	
0'	-5,000	-4,000	-3,500	-2,500	-2,000	-1,000	-500	0	1,000	1,500	2,500	3,000	3,500	4,500	
	-10F	0F	10F	20F	30F	40F	50F	60F	70F	80F	90F	100F	110F	120F	

Gun Backup Reference Cards and Load Shift/Suppressor Shift Cards

[illegible][illegible][illegible][illegible]

Data Confirmation/Data Truing Cards

[illegible][illegible][illegible][illegible]

Mover calculator based on Mils/Second and Mil/Second to MPH conversion for movers
 Filled with generic 6.5 Creedmoor info

		Mph			Mover in Mils/Second					Gun: HMR					Bullet: 140 BTHP					MV: 2625						
Yds	tof	3.1	6.1	8.2	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10		
100	0.117	1.8	3.5	4.7	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.2		
200	0.241	1.8	3.6	4.8	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.2	2.3	2.4		
300	0.373	1.9	3.7	5.0	0.2	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.5	3.7		
400	0.512	1.9	3.8	5.1	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.6	2.8	3.1	3.3	3.6	3.8	4.1	4.4	4.6	4.9	5.1		
500	0.66	2.0	3.9	5.3	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.6	3.0	3.3	3.6	4.0	4.3	4.6	5.0	5.3	5.6	5.9	6.3	6.6		
550	0.738	2.0	4.0	5.4	0.4	0.7	1.1	1.5	1.8	2.2	2.6	3.0	3.3	3.7	4.1	4.4	4.8	5.2	5.5	5.9	6.3	6.6	7.0	7.4		
600	0.818	2.1	4.1	5.5	0.4	0.8	1.2	1.6	2.0	2.5	2.9	3.3	3.7	4.1	4.5	4.9	5.3	5.7	6.1	6.5	7.0	7.4	7.8	8.2		
650	0.9	2.1	4.1	5.6	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5	5.0	5.4	5.9	6.3	6.8	7.2	7.7	8.1	8.6	9.0		
700	0.986	2.1	4.2	5.6	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9		
750	1.074	2.2	4.3	5.7	0.5	1.1	1.6	2.1	2.7	3.2	3.8	4.3	4.8	5.4	5.9	6.4	7.0	7.5	8.1	8.6	9.1	9.7	10.2	10.7		
800	1.165	2.2	4.3	5.8	0.6	1.2	1.7	2.3	2.9	3.5	4.1	4.7	5.2	5.8	6.4	7.0	7.6	8.2	8.7	9.3	9.9	10.5	11.1	11.7		
850	1.259	2.2	4.4	5.9	0.6	1.3	1.9	2.5	3.1	3.8	4.4	5.0	5.7	6.3	6.9	7.6	8.2	8.8	9.4	10.1	10.7	11.3	12.0	12.6		
900	1.357	2.3	4.5	6.0	0.7	1.4	2.0	2.7	3.4	4.1	4.7	5.4	6.1	6.8	7.5	8.1	8.8	9.5	10.2	10.9	11.5	12.2	12.9	13.6		
950	1.459	2.3	4.6	6.2	0.7	1.5	2.2	2.9	3.6	4.4	5.1	5.8	6.6	7.3	8.0	8.8	9.5	10.2	10.9	11.7	12.4	13.1	13.9	14.6		
1000	1.564	2.4	4.7	6.3	0.8	1.6	2.3	3.1	3.9	4.7	5.5	6.3	7.0	7.8	8.6	9.4	10.2	10.9	11.7	12.5	13.3	14.1	14.9	15.6		

	MPH of mover chart. Measure target in mils/second. find in chart. Header is MPH.									
Yards	1	2	3	4	5	6	7	8	9	10
100	4.9	9.8	14.7	19.6	24.4	29.3	34.2	39.1	44.0	48.9
150	3.3	6.5	9.8	13.0	16.3	19.6	22.8	26.1	29.3	32.6
200	2.4	4.9	7.3	9.8	12.2	14.7	17.1	19.6	22.0	24.4
250	2.0	3.9	5.9	7.8	9.8	11.7	13.7	15.6	17.6	19.6
300	1.6	3.3	4.9	6.5	8.1	9.8	11.4	13.0	14.7	16.3
350	1.4	2.8	4.2	5.6	7.0	8.4	9.8	11.2	12.6	14.0
400	1.2	2.4	3.7	4.9	6.1	7.3	8.6	9.8	11.0	12.2
450	1.1	2.2	3.3	4.3	5.4	6.5	7.6	8.7	9.8	10.9
500	1.0	2.0	2.9	3.9	4.9	5.9	6.8	7.8	8.8	9.8
550	0.9	1.8	2.7	3.6	4.4	5.3	6.2	7.1	8.0	8.9
600	0.8	1.6	2.4	3.3	4.1	4.9	5.7	6.5	7.3	8.1
650	0.8	1.5	2.3	3.0	3.8	4.5	5.3	6.0	6.8	7.5
700	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7.0
750	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	6.5
800	0.6	1.2	1.8	2.4	3.1	3.7	4.3	4.9	5.5	6.1
850	0.6	1.2	1.7	2.3	2.9	3.5	4.0	4.6	5.2	5.8
900	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.3	4.9	5.4
950	0.5	1.0	1.5	2.1	2.6	3.1	3.6	4.1	4.6	5.1
1000	0.5	1.0	1.5	2.0	2.4	2.9	3.4	3.9	4.4	4.9

DA Based Drop Charts Pre Filled for range

Gun:	Bullet:	MV:	BC:	Wind:	DA:
150		625		860	
200		650		880	
250		675		900	
300		700		920	
350		725		940	
400		750		960	
450		775		980	
500		800		1,000	
550		820		1,020	
600		840		1,040	

Gun:	Bullet:	MV:	BC:	Wind:	DA:
150		625		860	
200		650		880	
250		675		900	
300		700		920	
350		725		940	
400		750		960	
450		775		980	
500		800		1,000	
550		820		1,020	
600		840		1,040	

Gun:	Bullet:	MV:	BC:	Wind:	DA:
150		625		860	
200		650		880	
250		675		900	
300		700		920	
350		725		940	
400		750		960	
450		775		980	
500		800		1,000	
550		820		1,020	
600		840		1,040	

Gun:	Bullet:	MV:	BC:	Wind:	DA:
150		625		860	
200		650		880	
250		675		900	
300		700		920	
350		725		940	
400		750		960	
450		775		980	
500		800		1,000	
550		820		1,020	
600		840		1,040	