

# TACTICAL MIL-DOT RANGE ESTIMATING

- ▶ Range estimating requires common knowledge/experience about your target's actual width or height. For accurate range estimating, the size of the target must be known.
- ▶ 1 mil in a scope reticle is the distance from the center of one dot to the center of the next dot.
- ▶ Set your scope at the highest power. Place the center of the dot against one edge of the target and measure to the opposite edge of the target.
- ▶ Once the target has been measured in mils, a formula is available to estimate the distance of the target.
- ▶ Each scope model comes with its own formula and a pre-calculated mil-dot table of most used distance estimates to aid the user. Please refer to the back of the card for this information.



Height or Width of Target in Meters x 700

Height or Width of Target in Mils

= Range in Meters (1M = 1.0936 Yards)

Target Size	Inches	9	12	16	18	20	22	24	28	32	36	60	66	69	72
	Meters	0.229	0.305	0.406	0.457	0.508	0.559	0.610	0.711	0.813	0.914	1.524	1.676	1.753	1.829
Reticle Measurements (in mils)	3/4	213.7	284.7	378.9	426.5	474.1	521.7	569.3	663.6	758.8	853.1	1422.4	1564.3	1636.1	1707.1
	1	160.3	213.5	284.2	319.9	355.6	391.3	427.0	497.7	569.1	639.8	1066.8	1173.2	1227.1	1280.3
	1 1/4	128.2	170.8	227.4	255.9	284.5	313.0	341.6	398.2	455.3	511.8	853.4	938.6	981.7	1024.2
	1 1/2	106.9	142.3	189.5	213.3	237.1	260.9	284.7	331.8	379.4	426.5	711.2	782.1	818.1	853.5
	1 3/4	91.6	122.0	162.4	182.8	203.2	223.6	244.0	284.4	325.2	365.6	609.6	670.4	701.2	731.6
	2	80.2	106.8	142.1	160.0	177.8	195.7	213.5	248.9	284.6	319.9	533.4	586.6	613.6	640.2
	2 1/4	71.2	94.9	126.3	142.2	158.0	173.9	189.8	221.2	252.9	284.4	474.1	521.4	545.4	569.0
	2 1/2	64.1	85.4	113.7	128.0	142.2	156.5	170.8	199.1	227.8	255.9	426.7	469.3	490.8	512.1
	2 3/4	58.3	77.6	103.3	116.3	129.3	142.3	155.3	181.0	206.9	232.7	387.9	426.6	446.2	465.6
	3	53.4	71.2	94.7	106.6	118.5	130.4	142.3	165.9	189.7	213.3	355.6	391.1	409.0	426.8
	3 1/4	49.3	65.7	87.4	98.4	109.4	120.4	131.4	153.1	175.1	196.9	328.2	361.0	377.6	393.9
	3 1/2	45.8	61.0	81.2	91.4	101.6	111.8	122.0	142.2	162.6	182.8	304.8	335.2	350.6	365.8
	3 3/4	42.7	56.9	75.8	85.3	94.8	104.3	113.9	132.7	151.8	170.6	284.5	312.9	327.2	341.4
	4	40.1	53.4	71.1	80.0	88.9	97.8	106.8	124.4	142.3	160.0	266.7	293.3	306.8	320.1
4 1/4	37.7	50.2	66.9	75.3	83.7	92.1	100.5	117.1	133.9	150.5	251.0	276.0	288.7	301.2	
4 1/2	35.6	47.4	63.2	71.1	79.0	87.0	94.9	110.6	126.5	142.2	237.1	260.7	272.7	284.5	
4 3/4	33.7	44.9	59.8	67.3	74.9	82.4	89.9	104.8	119.8	134.7	224.6	247.0	258.3	269.5	
5	32.1	42.7	56.8	64.0	71.1	78.3	85.4	99.5	113.8	128.0	213.4	234.6	245.4	256.1	
5 1/4	30.5	40.7	54.1	60.9	67.7	74.5	81.3	94.8	108.4	121.9	203.2	223.5	233.7	243.9	
5 1/2	29.1	38.8	51.7	58.2	64.7	71.1	77.6	90.5	103.5	116.3	194.0	213.3	223.1	232.8	
5 3/4	27.9	37.1	49.4	55.6	61.8	68.1	74.3	86.6	99.0	111.3	185.5	204.0	213.4	222.7	
6	26.7	35.6	47.4	53.3	59.3	65.2	71.2	83.0	94.9	106.6	177.8	195.5	204.5	213.4	
6 1/4	25.6	34.2	45.5	51.2	56.9	62.6	68.3	79.6	91.1	102.4	170.7	187.7	196.3	204.8	
6 1/2	24.7	32.8	43.7	49.2	54.7	60.2	65.7	76.6	87.6	98.4	164.1	180.5	188.8	197.0	
6 3/4	23.7	31.6	42.1	47.4	52.7	58.0	63.3	73.7	84.3	94.8	158.0	173.8	181.8	189.7	
7	22.9	30.5	40.6	45.7	50.8	55.9	61.0	71.1	81.3	91.4	152.4	167.6	175.3	182.9	
8	20.0	26.7	35.5	40.0	44.5	48.9	53.4	62.2	71.1	80.0	133.4	146.7	153.4	160.0	
9	17.8	23.7	31.6	35.5	39.5	43.5	47.4	55.3	63.2	71.1	118.5	130.4	136.3	142.3	
10	16.0	21.4	28.4	32.0	35.6	39.1	42.7	49.8	56.9	64.0	106.7	117.3	122.7	128.0	
11	14.6	19.4	25.8	29.1	32.3	35.6	38.8	45.2	51.7	58.2	97.0	106.7	111.6	116.4	
12	13.4	17.8	23.7	26.7	29.6	32.6	35.6	41.5	47.4	53.3	88.9	97.8	102.3	106.7	
13	12.3	16.4	21.9	24.6	27.4	30.1	32.8	38.3	43.8	49.2	82.1	90.2	94.4	98.5	
14	11.5	15.3	20.3	22.9	25.4	28.0	30.5	35.6	40.7	45.7	76.2	83.8	87.7	91.5	