

Tactical Mil-Dot Range Estimate Reference Chart (D)

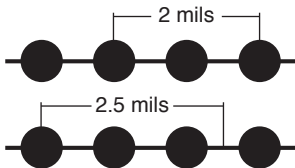
Target Size Meters	Height or Width of Target in Meters x 1000					X					Magnification 10					Range in Meters					Based on 10X				
	9	12	15	18	21	24	28	32	36	40	60	66	69	72		60	66	69	72		60	66	69	72	
0.50	458.0	610.0	762.0	914.0	1066.0	1220.0	1374.0	1528.0	1682.0	1836.0	2090.0	2244.0	2398.0	2552.0	2706.0	3010.0	3264.0	3518.0	3772.0	4026.0	4280.0	4534.0	4788.0	5042.0	5296.0
0.75	305.3	406.7	508.0	609.3	710.7	812.0	913.3	1014.7	1116.0	1217.3	1423.6	1524.9	1626.2	1727.5	1828.8	2035.1	2241.4	2447.7	2654.0	2860.3	3066.6	3272.9	3479.2	3685.5	3891.8
1.00	229.0	305.0	381.0	457.0	533.0	609.0	685.0	761.0	837.0	913.0	1039.0	1165.0	1291.0	1417.0	1543.0	1729.0	1915.0	2101.0	2287.0	2473.0	2659.0	2845.0	3031.0	3217.0	3403.0
1.25	183.2	244.0	304.8	365.6	426.4	487.2	548.0	608.8	669.6	730.4	836.0	941.6	1047.2	1152.8	1258.4	1444.0	1629.6	1815.2	1999.8	2184.4	2369.0	2553.6	2738.2	2922.8	3107.4
1.50	152.7	203.3	254.0	304.7	355.3	406.0	456.7	507.4	558.1	608.8	704.0	799.2	894.4	989.6	1084.8	1240.0	1395.2	1550.4	1705.6	1860.8	2016.0	2171.2	2326.4	2481.6	2636.8
1.75	130.9	174.3	217.7	261.1	304.6	348.0	391.4	434.8	478.2	521.6	606.0	690.4	774.8	859.2	943.6	1068.0	1192.4	1316.8	1441.2	1565.6	1690.0	1814.4	1938.8	2063.2	2187.6
2.00	114.5	152.5	190.5	228.5	266.5	304.5	342.5	380.5	418.5	456.5	531.0	605.4	679.8	754.2	828.6	943.0	1057.4	1171.8	1286.2	1400.6	1515.0	1629.4	1743.8	1858.2	1972.6
2.25	101.8	135.6	169.3	203.1	236.9	270.7	304.5	338.3	372.1	405.9	479.4	553.8	628.2	702.6	777.0	891.4	1005.8	1120.2	1234.6	1349.0	1463.4	1577.8	1692.2	1806.6	1921.0
2.50	91.6	122.0	152.4	182.8	213.2	243.6	274.0	304.4	334.8	365.2	438.6	513.0	587.4	661.8	736.2	850.6	965.0	1079.4	1193.8	1308.2	1422.6	1537.0	1651.4	1765.8	1880.2
2.75	83.3	110.9	138.5	166.2	193.8	221.5	249.2	276.9	304.6	332.3	405.6	480.0	554.4	628.8	703.2	817.6	932.0	1046.4	1160.8	1275.2	1389.6	1504.0	1618.4	1732.8	1847.2
3.00	76.3	101.7	127.0	152.3	177.7	203.1	228.5	253.9	279.3	304.7	377.0	451.4	525.8	600.2	674.6	789.0	903.4	1017.8	1132.2	1246.6	1361.0	1475.4	1589.8	1704.2	1818.6
3.25	70.5	93.8	117.2	140.6	164.0	187.4	210.8	234.2	257.6	281.0	354.0	428.0	502.0	576.0	650.0	764.4	878.8	993.2	1107.6	1222.0	1336.4	1450.8	1565.2	1679.6	1794.0
3.50	65.4	87.1	108.9	130.6	152.3	174.0	195.7	217.4	239.1	260.8	333.0	407.0	481.0	555.0	629.0	743.4	857.8	972.2	1086.6	1201.0	1315.4	1429.8	1544.2	1658.6	1773.0
3.75	61.1	81.3	101.6	121.9	142.1	162.3	182.6	202.9	223.2	243.5	315.0	389.0	463.0	537.0	611.0	725.4	839.8	954.2	1068.6	1183.0	1297.4	1411.8	1526.2	1640.6	1755.0
4.00	57.3	76.3	95.3	114.3	133.3	152.3	171.3	190.3	209.3	228.3	300.0	374.0	448.0	522.0	596.0	710.4	824.8	939.2	1053.6	1168.0	1282.4	1396.8	1511.2	1625.6	1740.0
4.25	53.9	71.8	89.6	107.5	125.4	143.3	161.2	179.1	197.0	214.9	286.0	360.0	434.0	508.0	582.0	696.4	810.8	925.2	1039.6	1154.0	1268.4	1382.8	1497.2	1611.6	1726.0
4.50	50.9	67.8	84.7	101.6	118.4	135.2	152.0	168.8	185.6	202.4	273.0	347.0	421.0	495.0	569.0	683.4	797.8	912.2	1026.6	1141.0	1255.4	1369.8	1484.2	1598.6	1713.0
4.75	48.2	64.2	80.2	96.2	112.2	128.2	144.2	160.2	176.2	192.2	262.0	336.0	410.0	484.0	558.0	672.4	786.8	901.2	1015.6	1130.0	1244.4	1358.8	1473.2	1587.6	1702.0
5.00	45.8	61.0	76.2	91.4	106.6	122.0	137.4	152.8	168.2	183.6	253.0	327.0	401.0	475.0	549.0	663.4	777.8	892.2	1006.6	1121.0	1235.4	1349.8	1464.2	1578.6	1693.0
5.25	43.6	58.1	72.6	87.0	101.5	116.2	130.9	145.6	160.3	175.0	244.0	318.0	392.0	466.0	540.0	654.4	768.8	883.2	997.6	1112.0	1226.4	1340.8	1455.2	1569.6	1684.0
5.50	41.6	55.5	69.3	83.1	96.9	110.9	125.3	139.7	154.1	168.5	237.0	311.0	385.0	459.0	533.0	647.4	761.8	876.2	990.6	1105.0	1219.4	1333.8	1448.2	1562.6	1677.0
5.75	39.8	53.0	66.3	79.5	92.7	106.1	120.5	134.9	149.3	163.7	232.0	306.0	380.0	454.0	528.0	642.4	756.8	871.2	985.6	1100.0	1214.4	1328.8	1443.2	1557.6	1672.0
6.00	38.2	50.8	63.5	76.2	88.8	101.7	115.5	129.3	143.1	156.9	225.0	299.0	373.0	447.0	521.0	635.4	749.8	864.2	978.6	1093.0	1207.4	1321.8	1436.2	1550.6	1665.0
6.25	36.6	48.8	61.0	73.1	85.3	97.6	110.8	123.0	135.2	147.4	217.0	291.0	365.0	439.0	513.0	627.4	741.8	856.2	970.6	1085.0	1199.4	1313.8	1428.2	1542.6	1657.0
6.50	35.2	46.9	58.6	70.3	82.0	93.8	105.9	117.6	129.3	141.0	211.0	285.0	359.0	433.0	507.0	621.4	735.8	850.2	964.6	1079.0	1193.4	1307.8	1422.2	1536.6	1651.0
6.75	33.9	45.2	56.4	67.7	79.0	90.2	101.9	113.6	125.3	137.0	205.0	279.0	353.0	427.0	501.0	615.4	729.8	844.2	958.6	1073.0	1187.4	1301.8	1416.2	1530.6	1645.0
7.00	32.7	43.6	54.4	65.3	76.1	87.1	98.1	109.1	120.1	131.1	199.0	273.0	347.0	421.0	495.0	609.4	723.8	838.2	952.6	1067.0	1181.4	1295.8	1410.2	1524.6	1639.0
8.00	28.6	38.1	47.6	57.1	66.6	76.3	85.9	95.6	105.3	115.0	183.0	257.0	331.0	405.0	479.0	593.4	707.8	822.2	936.6	1051.0	1165.4	1279.8	1394.2	1508.6	1623.0
9.00	25.4	33.9	42.3	50.8	59.2	67.8	76.3	84.9	93.4	101.9	171.0	245.0	319.0	393.0	467.0	581.4	695.8	810.2	924.6	1039.0	1153.4	1267.8	1382.2	1496.6	1611.0
10.00	22.9	30.5	38.1	45.7	53.3	61.0	71.1	79.0	86.6	94.2	161.0	235.0	309.0	383.0	457.0	571.4	685.8	799.2	913.6	1028.0	1142.4	1256.8	1371.2	1485.6	1600.0
11.00	20.8	27.7	34.6	41.5	48.4	55.3	64.6	72.9	80.3	87.7	151.0	225.0	299.0	373.0	447.0	561.4	675.8	789.2	903.6	1018.0	1132.4	1246.8	1361.2	1475.6	1590.0
12.00	19.1	25.4	31.8	38.1	44.5	50.8	58.2	65.6	72.9	79.2	141.0	211.0	285.0	359.0	433.0	547.4	661.8	776.2	890.6	1005.0	1119.4	1233.8	1348.2	1462.6	1577.0
13.00	17.6	23.5	29.3	35.2	41.0	46.9	54.7	62.5	70.3	77.6	131.0	201.0	275.0	349.0	423.0	537.4	651.8	766.2	880.6	995.0	1109.4	1223.8	1338.2	1452.6	1567.0
14.00	16.4	21.8	27.2	32.6	38.1	43.6	51.4	59.2	67.0	74.4	121.0	191.0	265.0	339.0	413.0	527.4	641.8	756.2	870.6	985.0	1099.4	1213.8	1328.2	1442.6	1557.0



Tactical Mil-Dot Range Estimating

Reticle Scale Reading

- From the center of dot to the next center of dot is equal to 1 mil.



- Set scope at 10X power. View reticle through scope. Place the center of dot against at one edge of target object and measure the distance of opposite edge of the target object.
- Next, use the measured mils into following formula (D) to calculate the target distance.

$$\frac{\text{Height or Width of Target in Meters} \times 1000}{\text{Height or Width of Target in Mils}} \times \frac{\text{Magnification}}{10} = \text{Range in Meters}$$

- Put 10X power into this formula to replace Magnification.
- If you wish to set scope at desired power. Put desired power into formula to replace Magnification.
- The Mil-Dot Range Estimate Reference provide most frequent used estimates for reference.

