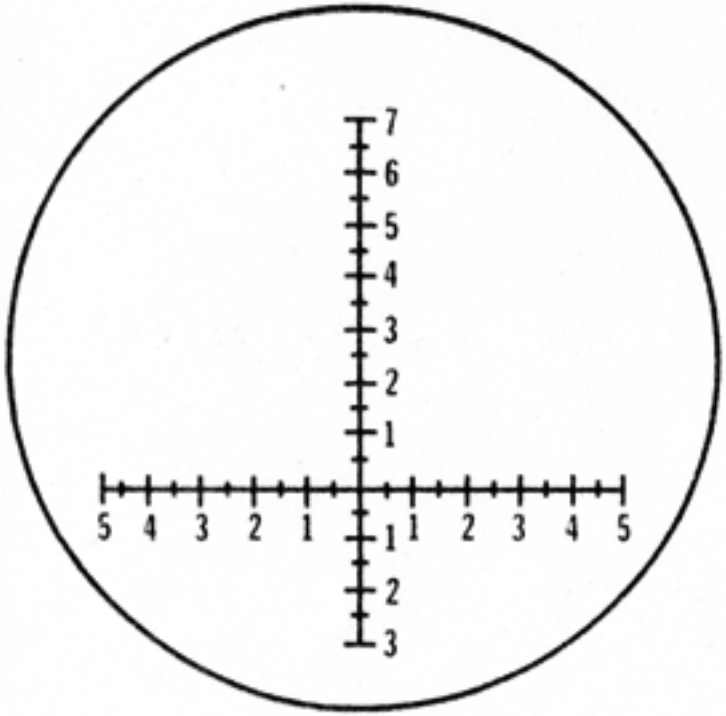
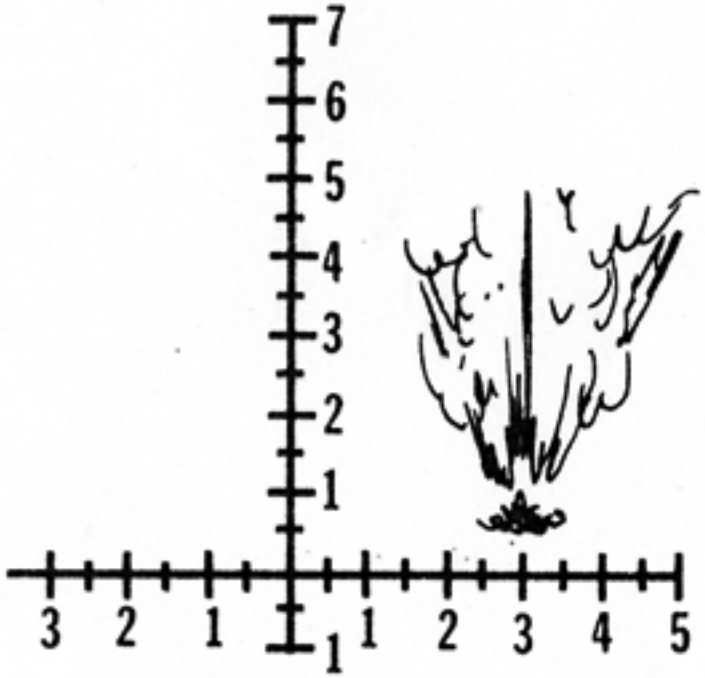
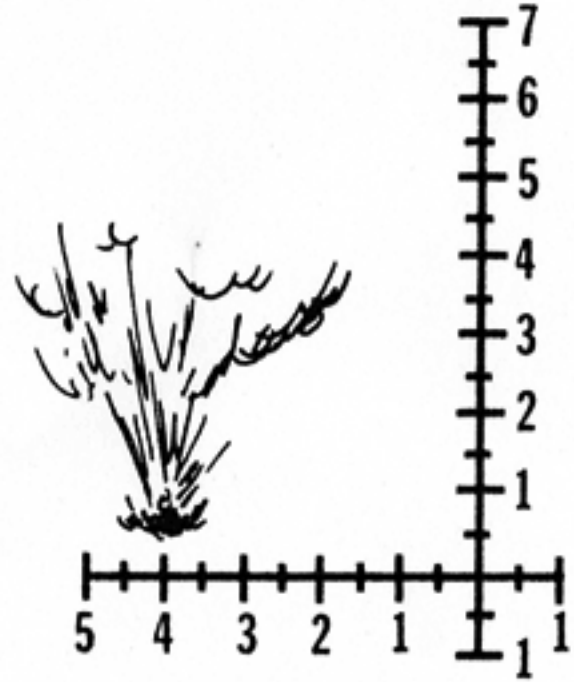
USE OF RETICLE

One of the telescopes of the binocular includes a horizontal and vertical scale reticle graduated in 10-mil increment unit markings (1 unit - 10 mils, 2 units - 20 mils, etc.).



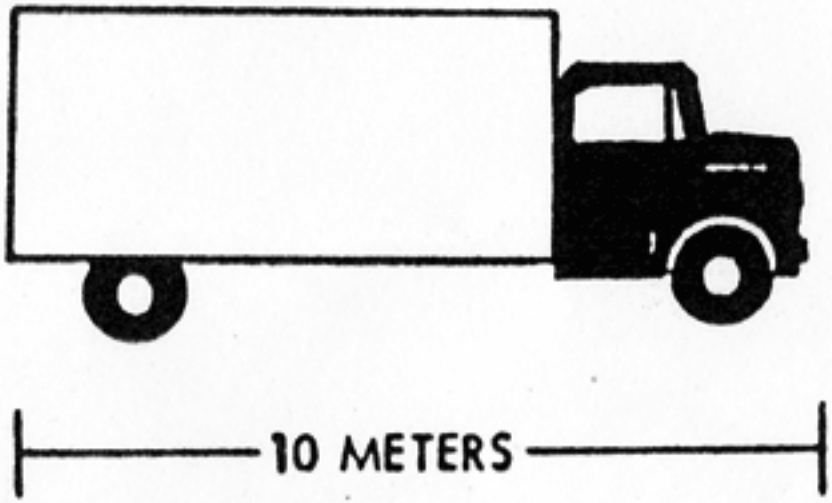


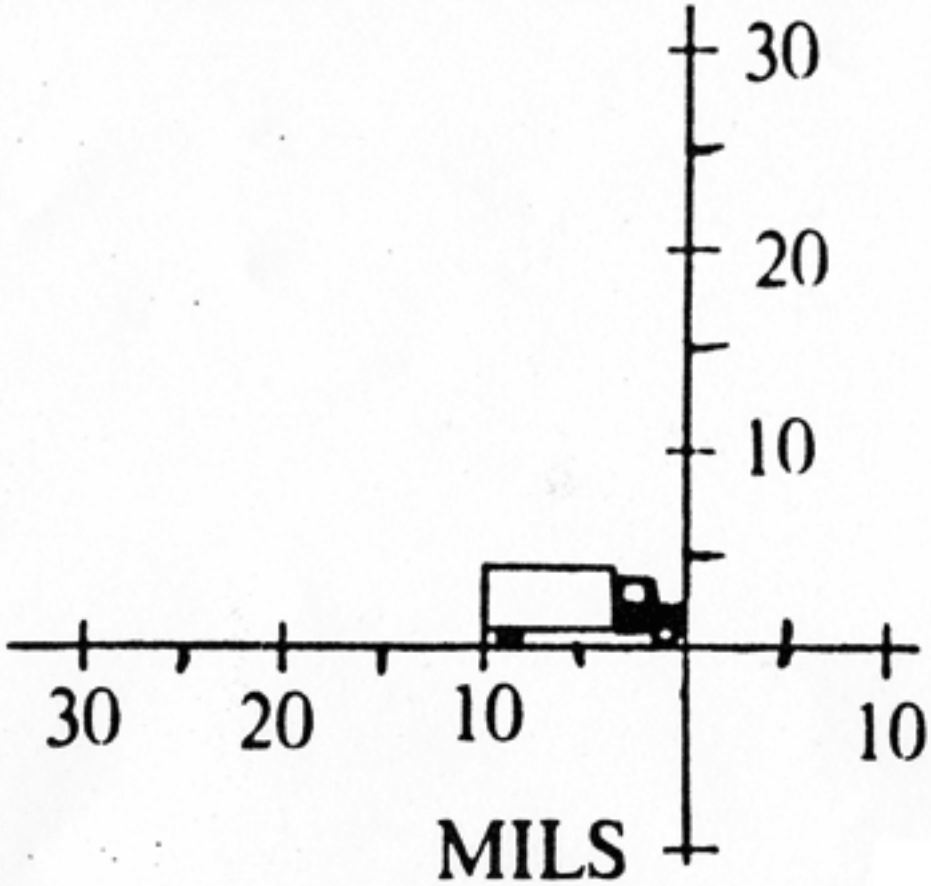


Fire corrections can be made by viewing the impact area and determining angular corrections by use of the left or right horizontal reticle scale.

USE OF RETICLE (cont'd)

In determining range, if an object fills one 10 mil unit marking on the horizontal reticle scale and is known to be 10 meters wide, the object is 1000 meters away. If the same size object fills two unit markings (20 mils), it would be 500 meters away. When this formula is used, the distance will be given in the same units of measurement (feet, meters, etc.) as is used in estimating the known size of the object. The same formula can be used to determine range with the vertical reticle scale when the height of an object is known. The use of the vertical scale is preferred (especially on level terrain), since objects are often viewed obliquely along the horizontal axis.





$$\text{DISTANCE} = \frac{\text{Known Size}}{\text{No. of MILS}} \times 1000$$