

M.G.

Use 1/2 mil lead for ~~low~~ mph of
estimated target speed.

1/2 mil / mph of wind

SAMPLE

CALIBER 50

MACHINE GUN PROBLEM

JOV-1C

ARMED MOHAWK

3/1965

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Captain, Arty

To understand the sight angle setting computations for the cal 50 machine gun the following assumptions are made:

1. Boresight range is 1200 feet.
2. Muzzle velocity 2900 fps.
3. Table I (Trajectory Drop).

Airspeed (mph)	D at 1200 feet	D at 3000 feet
0	38"	297"
150	32"	252
300	28"	216
450	25"	188

Assuming the center line of the weapons (Gun Bore Line) are boresighted to coincide with the zero sight line at 1200 feet, the weapon when fired would deliver the round to a point 38 inches below the sight point if the aircraft were standing still. (See figure 1).

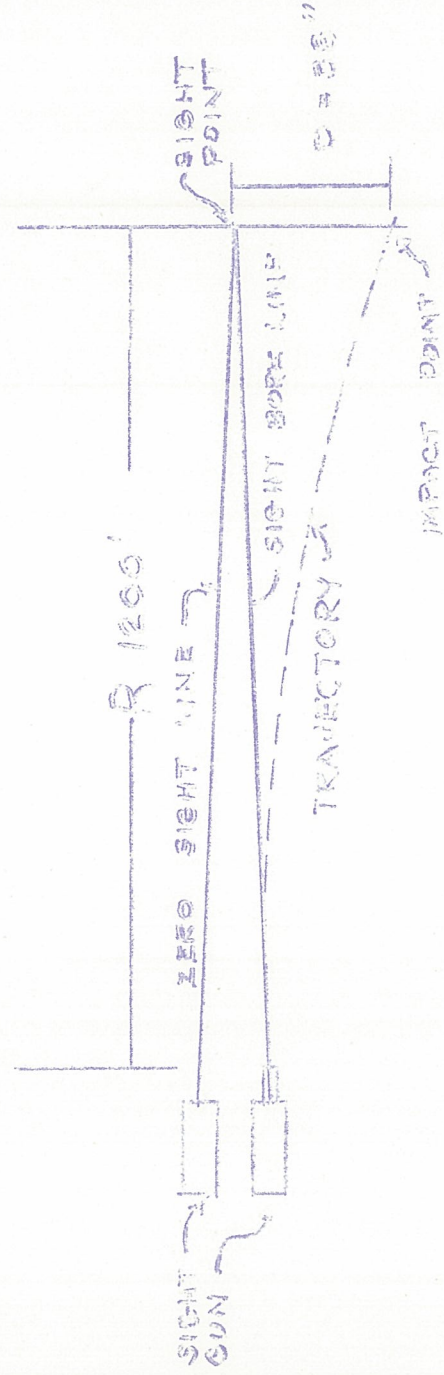


FIGURE 1