

RIFLE, LOAD AND CONDITIONS

RIFLE (MAKE, MODEL, SERIAL) SAMPLE-0001, Tarnway TC-16 carbine (example)		BARREL / TWIST 16.0 in, 1:7 twist	UNITS / CLICK VALUE ☒ MIL ☐ MOA 0.1 MIL
OPTIC AND RETICLE (FFP / SFP) 1-6x24 LPVO, MIL reticle, SFP (holds valid at 6x)		ZERO DISTANCE 100 yd	SIGHT HEIGHT (BORE TO OPTIC) 2.6 in
CARTRIDGE 5.56 NATO	BULLET (WEIGHT, TYPE) 77 gr OTM (Mk 262-type)	BC (G1 / G7) G7 0.186	MUZZLE VELOCITY (CHRONO) 2,650 fps (10 shots, SD 11)
AMMO LOT S-2417B	TEMPERATURE 55 °F	ALTITUDE 1,000 ft	STATION PRESSURE 28.86 inHg (station)
DENSITY ALTITUDE ≈ 1,100 ft	HUMIDITY 50 %	DATA TRUED ON 2026-10-17	COLD BORE Same as warm at 100 yd

HOLDS BY DISTANCE

holds in your units from the reticle center, level shot

RANGE (YD / M)	ELEV HOLD	ELEV CLICKS	WIND 10 MPH FULL VALUE	WIND 5 MPH	TIME OF FLIGHT (S)	VELOCITY (FPS)	CALC / CONFIRMED	NOTES
50	0.4	U 4	0.1	0.1	0.06	2,532	Calc	Bullet below sight line
100	0.0	0	0.3	0.1	0.12	2,417	Confirmed	
150	0.2	U 2	0.4	0.2	0.18	2,305	Confirmed	
200	0.5	U 5	0.6	0.3	0.25	2,196	Confirmed	
250	0.9	U 9	0.8	0.4	0.32	2,091	Confirmed	
300	1.3	U 13	1.0	0.5	0.39	1,988	Confirmed	
350	1.8	U 18	1.1	0.6	0.47	1,888	Confirmed	
400	2.4	U 24	1.3	0.7	0.55	1,790	Confirmed	
450	3.0	U 30	1.5	0.8	0.64	1,695	Confirmed	
500	3.6	U 36	1.8	0.9	0.73	1,602	Confirmed	
550	4.3	U 43	2.0	1.0	0.83	1,511	Confirmed	
600	5.1	U 51	2.2	1.1	0.93	1,423	Confirmed	
650	5.9	U 59	2.5	1.3	1.04	1,337	Calc	
700	6.8	U 68	2.8	1.4	1.15	1,254	Calc	

Wind value: 3 and 9 o'clock = full value. 1:30, 4:30, 7:30 and 10:30 ≈ 0.7. 12 and 6 = none. Wind hold scales with speed: 5 mph is half the 10 mph hold, 15 mph is 1.5×

Mark rows Confirmed only after you've shot them. Calculated data is a starting point; re-true when conditions change a lot. SFP: holds are true only at the calibrated magnification. Example values fit this load and these conditions only.

<< CUT OUT FOR YOUR STOCK OR SCOPE CAP >>

WAR BOX DOPE		STOCK CARD		WAR BOX DOPE		SPARE CARD	
77 gr OTM · MV 2,650 · zero 100 yd · DA 1,100 · MIL				77 gr OTM · MV 2,650 · zero 100 yd · DA 1,100 · MIL			
RANGE	ELEV	WIND 10		RANGE	ELEV	WIND 10	
100	0.0	0.3		100	0.0	0.3	
150	0.2	0.4		150	0.2	0.4	
200	0.5	0.6		200	0.5	0.6	
250	0.9	0.8		250	0.9	0.8	
300	1.3	1.0		300	1.3	1.0	
350	1.8	1.1		350	1.8	1.1	
400	2.4	1.3		400	2.4	1.3	
450	3.0	1.5		450	3.0	1.5	
500	3.6	1.8		500	3.6	1.8	
550	4.3	2.0		550	4.3	2.0	
600	5.1	2.2		600	5.1	2.2	