

ANNUAL RIFLE TRAINING DATABOOK

M27 INFANTRY AUTOMATIC RIFLE WITH SQUAD DAY OPTIC (SDO) AND RUGGEDIZED MIMIATURE REFLEX (RMR)

LAST NAME, INITIALS:		LAST 4:	
UNIT:		BLOOD TYPE:	
WEAPON SERIAL #:		SDO SERIAL #:	
RANGE:	TARGET:	RELAY:	DATE:

COLLIMATOR SETTING		
ALPHA	NUMERIC	
BUIS BZO	ELEV	WIND

NAVMC XXXXXX 04-12
S/N XXXXXXXXXXXXXXXXXXXX U/I BX OF 100
FOUO: Privacy sensitive when filled in

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Rifleman's Creed

THIS IS MY RIFLE.

There are many like it, but this one is mine. My rifle is my best friend. It is my life. I must master it as I must master my life.

My rifle, without me, is useless. Without my rifle, I am useless. I must fire my rifle true. I must shoot straighter than my enemy who is trying to kill me. I must shoot him before he shoots me.
I will...

My rifle and myself know that what counts in this war is not the rounds we fire, the noise of our burst, nor the smoke we make. We know that it is the hits that count.
We will hit...

My rifle is human, even as I, because it is my life. Thus, I will learn it as a brother. I will learn its weaknesses, its strength, its parts, its accessories, its sights and its barrel. I will keep my rifle clean and ready, even as I am clean and ready. We will become part of each other.
We will...

Before God, I swear this creed. My rifle and myself are the defenders of my country. We are the masters of our enemy.
We are the saviors of my life...

So be it, until victory is America's and there is no enemy, but peace!

- Major General William H. Rupertus -

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SAFETY RULES

1. TREAT EVERY WEAPON AS IF IT WERE LOADED.
2. NEVER POINT A WEAPON AT ANYTHING YOU DO NOT INTEND TO SHOOT.
3. KEEP YOUR FINGER STRAIGHT AND OFF THE TRIGGER UNTIL YOU ARE READY TO FIRE.
4. KEEP THE WEAPON ON SAFE UNTIL YOU INTEND TO FIRE.

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1

WEAPONS HANDLING

WEAPON CONDITIONS	
CONDITION 1	SAFETY ON, MAGAZINE INSERTED, ROUND IN CHAMBER, BOLT FORWARD, EJECTION PORT COVER CLOSED.
CONDITION 2	NOT APPLICABLE TO THE M16A4 RIFLE.
CONDITION 3	SAFETY ON, MAGAZINE INSERTED, CHAMBER EMPTY, BOLT FORWARD, EJECTION PORT COVER CLOSED.
CONDITION 4	SAFETY ON, MAGAZINE REMOVED, CHAMBER EMPTY, BOLT FORWARD, EJECTION PORT COVER CLOSED.

WEAPON COMMANDS	
"MAKE A CONDITION 3 WEAPON"	TAKES THE WEAPON FROM CONDITION 4 TO CONDITION 3
"MAKE A CONDITION 1 WEAPON "	TAKES THE WEAPON FROM CONDITION 3 TO CONDITION 1
"FIRE"	ENGAGE TARGET(S)
"CEASE FIRE"	CEASE TARGET ENGAGEMENT
"MAKE A CONDITION 4 WEAPON"	TAKES THE WEAPON FROM ANY CONDITION TO CONDITION 4
"SHOW CLEAR"	REQUIRES A SECOND INDIVIDUAL TO INSPECT THE WEAPON BEFORE THE WEAPON IS PLACED INTO CONDITION 4

2

WEAPONS HANDLING

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2

USER SERVICEABILITY INSPECTION

Perform a user serviceability inspection before beginning live fire to ensure the weapon is in acceptable operating condition. This inspection complements, but does not replace, the pre-fire inspection (PFI) conducted by a qualified armorer. Specific inspection areas are:

1. Weapon is in Condition 4.
2. Compensator: Centered, and tight.
3. Barrel: Tight.
4. BUIS tightly secured to rail system, adjustable, straight. Front Sight Post: Adjustable, straight, shape.
5. Rail System: Securely mounted to barrel nut and no cracks or chips.
6. Sighting System: SDO/RMR attached correctly/throw levers secured, lenses not cracked, scratched, or broken, and reticle not canted.
7. Stock: Tight on lower receiver, then break weapon down shotgun style.
8. Chamber/barrel: Remove bolt carrier group; clear of obstructions, no major pits or cracks.
9. Gas System: Check for cracks, chips, bulges, dents, carbon build up. Ensure piston rod is not bent.
10. Bolt Carrier Group: Properly assembled, operates correctly, check for cracks, fractures, or missing components. Inspect firing pin for straightness, cracks, blunt or sharp end.
11. Lubrication: Lubricated for operational condition and climate, replace bolt carrier group, and reassemble weapon.

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FUNCTION CHECK

A function check is performed after reassembling the rifle to ensure the rifle is operational.

1. Ensure rifle is in Condition 4.
2. Pull charging handle to rear and release. Ensure selector lever is on SAFE. Move the trigger to the rear – hammer should not fall.
3. Place selector lever on SEMI. Move the trigger to the rear and **hold to rear** – hammer should fall. While holding the trigger to the rear, pull charging handle to rear and release. Release trigger until you hear a “clunk”.
4. Place selector lever on AUTO, pull the charging handle to the rear then move the trigger to the rear and **hold to rear** – hammer should fall. While holding the trigger to the rear, pull charging handle to rear and release then release and move the trigger. The hammer should not fall. The AUTO sear should have released the hammer while holding the trigger to the rear. With the hammer in the forward position, attempt to place the selector lever on SAFE, it should not move.
5. Pull charging handle to rear and release. Place selector lever on SAFE, close ejection port cover.

4

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4

CORRECTIVE ACTION

Corrective action is the process of identifying the cause of a stoppage, clearing the stoppage, and returning the weapon to operation.

INDICATOR	CORRECTIVE ACTION
Bolt is forward or ejection port cover closed.	Observe, tap, rack, bang.
Bolt is locked to the rear.	Observe, conduct a speed reload.
Brass is obstructing chamber area. (Usually indicates double feed or failure to eject)	Observe, lock bolt to rear, remove magazine. Clear out the obstruction. Conduct a reload.
Brass stuck above the bolt.	Observe, place the weapon on SAFE, remove the magazine. Hold the bolt face back with a sturdy object while pushing forward on the charging handle to clear obstruction. Conduct reload.
Audible pop (reduced report), reduced recoil, or excessive smoke escaping from the chamber area. (May indicate a bullet is lodged in the bore)	<ul style="list-style-type: none"> - STOP FIRING! Observe, Place weapon in Condition 4. - Push rear take down pin all the way, pivot lower receiver. - Remove bolt carrier. - Inspect bore for obstruction by projectile. - Insert cleaning rod into bore from muzzle end and clear obstruction. - Reload, sight in, and attempt to fire (take weapon to an armorer if in training).

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5

7 COMMON FACTORS OF SHOOTING POSITIONS



Natural Point of Aim	Natural point of aim is the point at which the rifle sights settle when bone support and muscular relaxation are achieved. The marksman will always check it (and adjust as necessary) every time a position is built.
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⑥

7 COMMON FACTORS OF SHOOTING POSITIONS



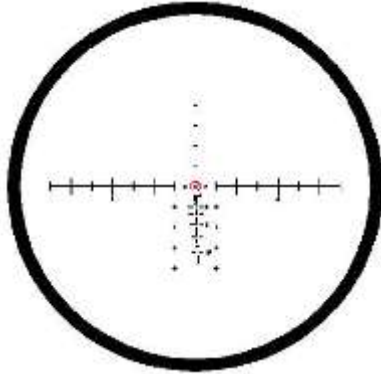
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⑥

AIMING

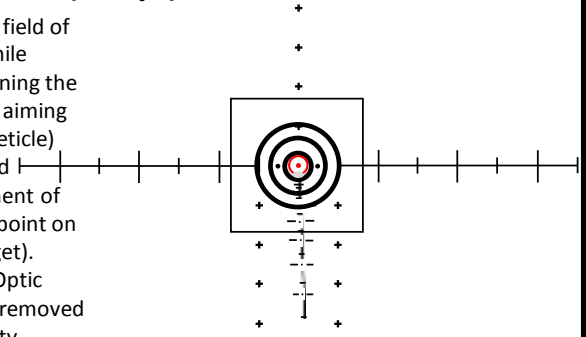
CORRECT SIGHT ALIGNMENT

FULL FIELD OF VIEW. The aiming eye aligned to the ocular lens so that no scope shadow is present. Proper stockweld and eye relief are the means for achieving correct sight alignment.



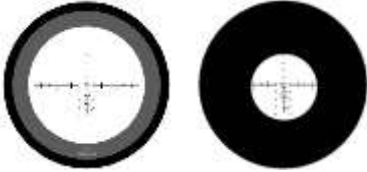
CORRECT SIGHT PICTURE (100 yd)

The full field of view while maintaining the desired aiming point (reticle) and hold (placement of aiming point on the target). NOTE: Optic outline removed for clarity.

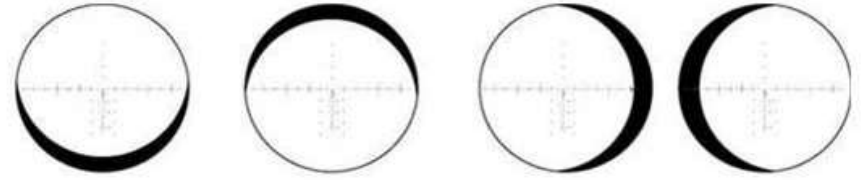


Improper eye relief and/or improper sight alignment will cause scope shadow and will result in improper shot placement.

IMPROPER EYE RELIEF
TOO CLOSE TOO FAR



IMPROPER SIGHT ALIGNMENT



BULLET WILL STRIKE LOW

BULLET WILL STRIKE HIGH

BULLET WILL STRIKE RIGHT

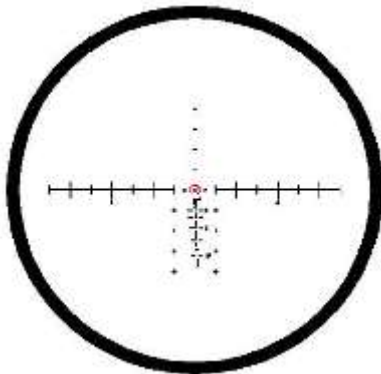
BULLET WILL STRIKE LEFT

7

AIMING

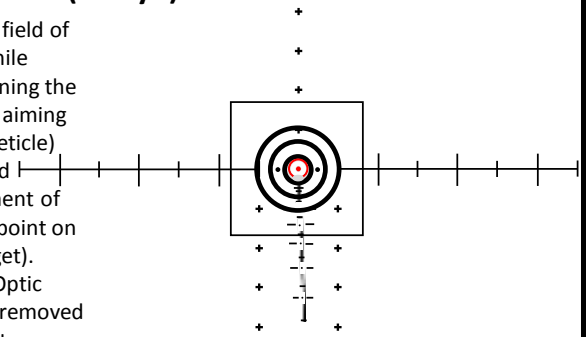
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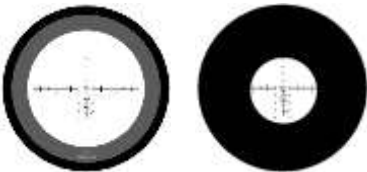
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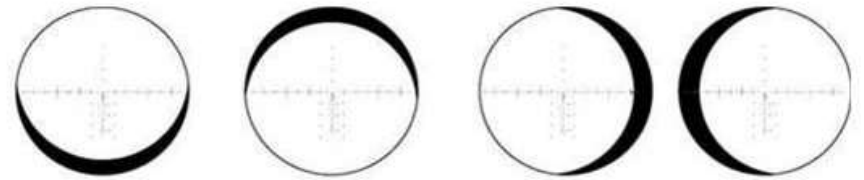


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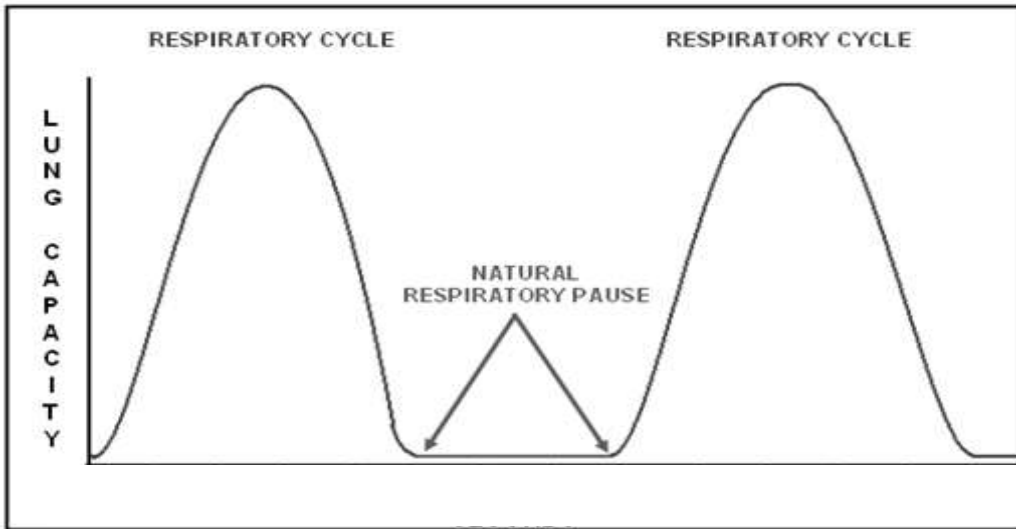
BULLET WILL STRIKE RIGHT

BULLET WILL STRIKE LEFT

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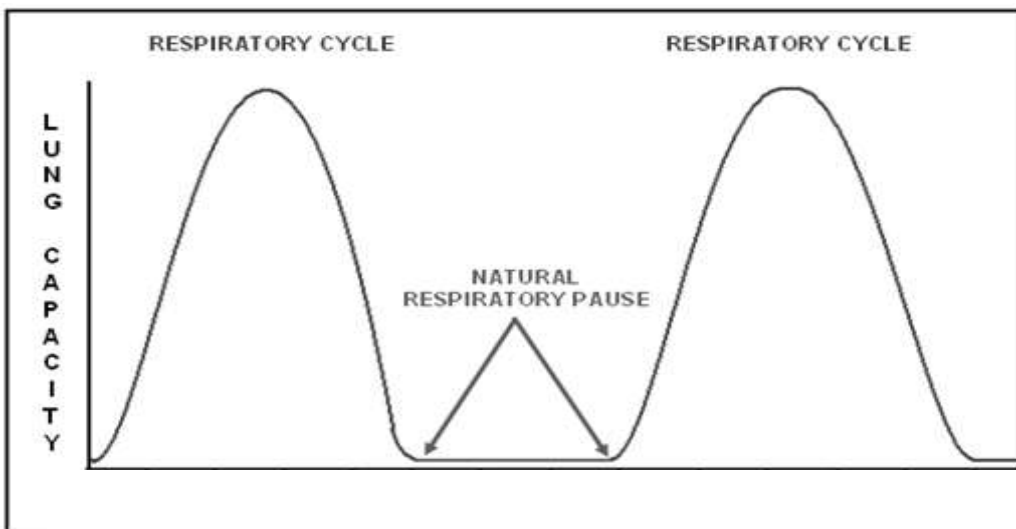
BREATH CONTROL

Breathing causes the body to move, which is transferred to the rifle, making it impossible to maintain sight picture. Therefore, natural point of aim, aiming refinement and shot delivery must each be accomplished during the natural respiratory pause - between breaths.



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TRIGGER CONTROL

TRIGGER CONTROL	Trigger Control is the skillful manipulation of the trigger to the rear that causes the rifle to fire without disturbing sight alignment or sight picture.
UNINTERRUPTED TRIGGER CONTROL	Uninterrupted trigger control is when the trigger is moved straight to the rear with a single, smooth motion.
INTERRUPTED TRIGGER CONTROL	Interrupted trigger control is when trigger pressure is interrupted when an error in the aiming process is detected. The applied pressure is kept on the trigger until the error is corrected.

Common Errors	<ul style="list-style-type: none">•Lateral movement of the trigger (not straight to the rear)•Grip pressure: trigger finger not moving independently from the hand and other fingers
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FOLLOW-THROUGH / RECOIL RECOVERY

As a shot is fired, the natural recoil of a weapon will test a shooter's position. If proper bone support, muscular control and natural point of aim are applied, the weapon will return to the shooter's natural point of aim, ready for another shot.

FOLLOW-THROUGH - Follow-through is the continued application of the fundamentals until the round has exited the barrel. In combat, follow-through is important to avoid altering the impact of the round by keeping the rifle as still as possible until the round exits the barrel.

RECOIL RECOVERY - Management of recoil in preparation to deliver a follow-on shot. Pressure on the trigger is released smoothly until you hear and feel the trigger reset with a "clunk". The finger remains on the trigger to provide consistency in trigger control while firing successive shots.

Common Errors	<ul style="list-style-type: none">•Trigger Control: removing the finger from the trigger•Anticipation – bucking, flinching•Position – natural point of aim not achieved, forward elbow not providing vertical support
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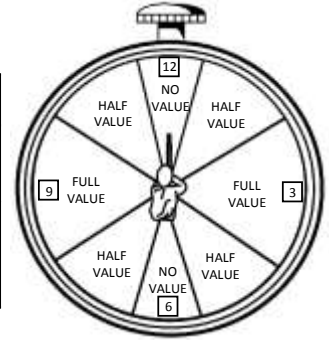
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WIND

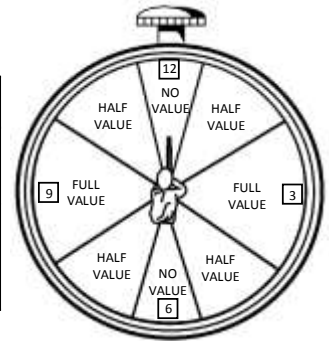
CLASSIFICATION	
DIRECTION	Determine wind direction by observing the direction vegetation is moving, by feeling the wind blow against the body, or by observing the direction of a flag.
VALUE	Winds are classified according to the direction from which they are blowing in relation to the direction of fire. The clock system indicates wind direction and value. The target is always at 12 o'clock.



VELOCITY (OBSERVATION METHOD)	
Under 3 MPH	The wind can hardly be felt on the face, but the presence of a slight wind can be detected by drifting smoke.
3 – 5 MPH	Wind can be felt lightly on the face.
5 – 8 MPH	Wind keeps tree leaves in constant motion.
8 – 12 MPH	Wind will raise dust and loose paper.
12 – 15 MPH	Wind will cause small trees to sway.
15 – 25 MPH	Wind will cause large trees to sway.






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WINDAGE HOLDS M27

<p>Wind speed is determined by the angle of the flag. The different speeds at each angle can be approximated based on how fast the flag flutters at each angle.</p>										
	5 MPH		10 MPH		15 MPH		20 MPH		25 MPH	
	WIND VALUE		WIND VALUE		WIND VALUE		WIND VALUE		WIND VALUE	
RANGE (yards)	FULL	HALF	FULL	HALF	FULL	HALF	FULL	HALF	FULL	HALF
200	2"	1"	5"	2"	7"	3"	9"	4"	11"	5"
300	5"	2"	11"	5"	16"	8"	22"	11"	27"	13"
500	17"	8"	35"	17"	52"	26"	69"	34"	87"	43"

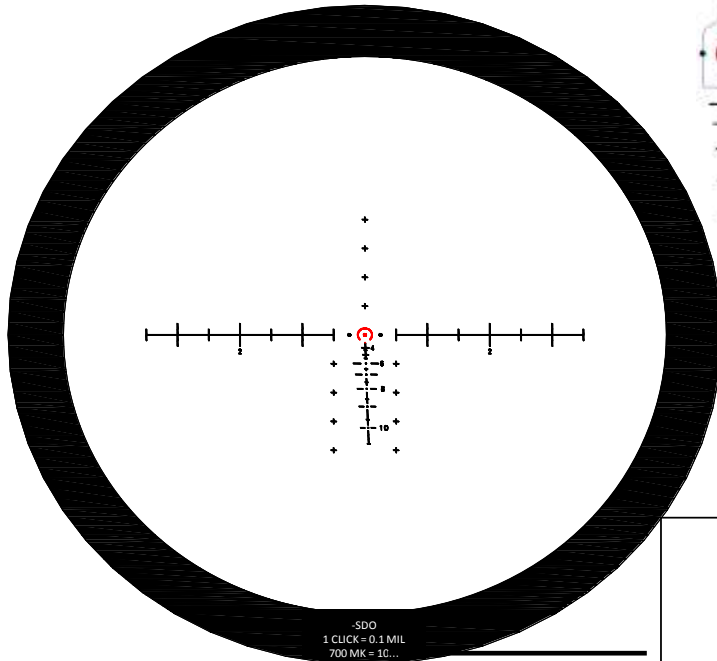
The values in the above table reflect the windage holds that should be used when the surrounding terrain does not reduce the effect wind has on the flight of the bullet. While conducting marksmanship training on known-distance ranges, these values must be adjusted in order to compensate for the wind-reducing effects of the side-berms and/or trees. The figures in the following pages have been adjusted accordingly.

WINDAGE HOLDS M27

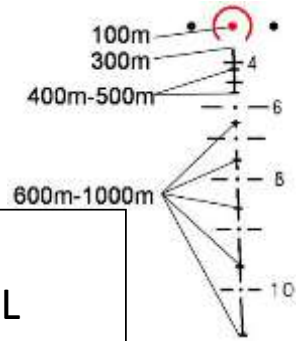
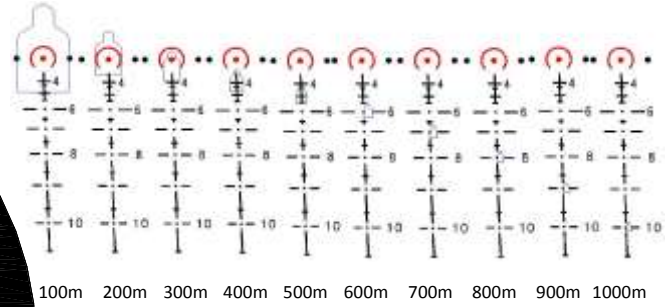
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SDO RETICLE RANGING AND POINTS OF AIM

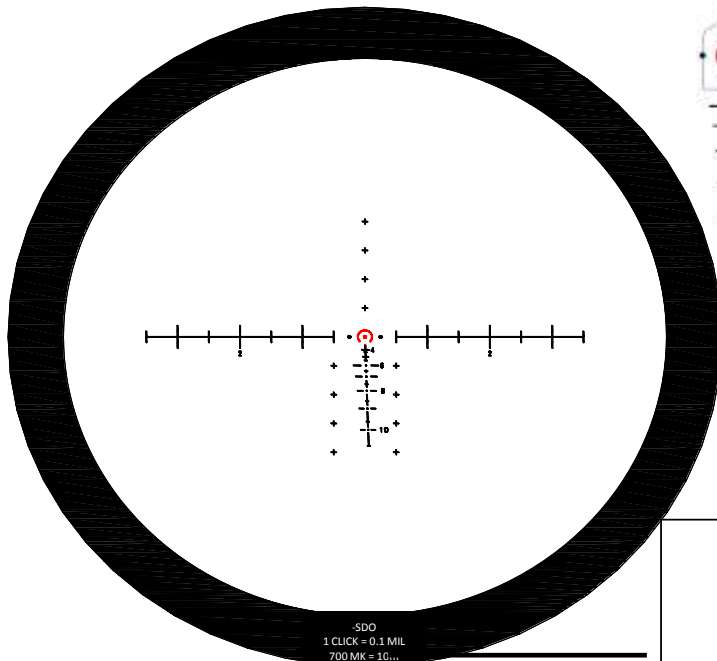


SDO
1 CLICK = 0.1 MIL
700 MK = 10...

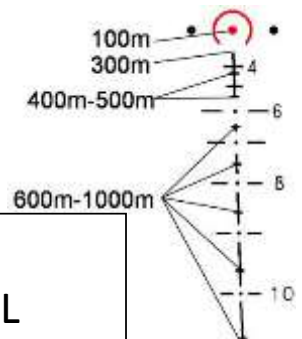
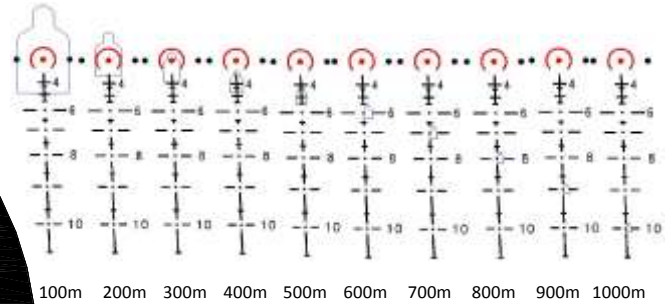


TA11SDO
1 CLICK=0.1 MIL
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SDO RETICLE RANGING AND POINTS OF AIM



SDO
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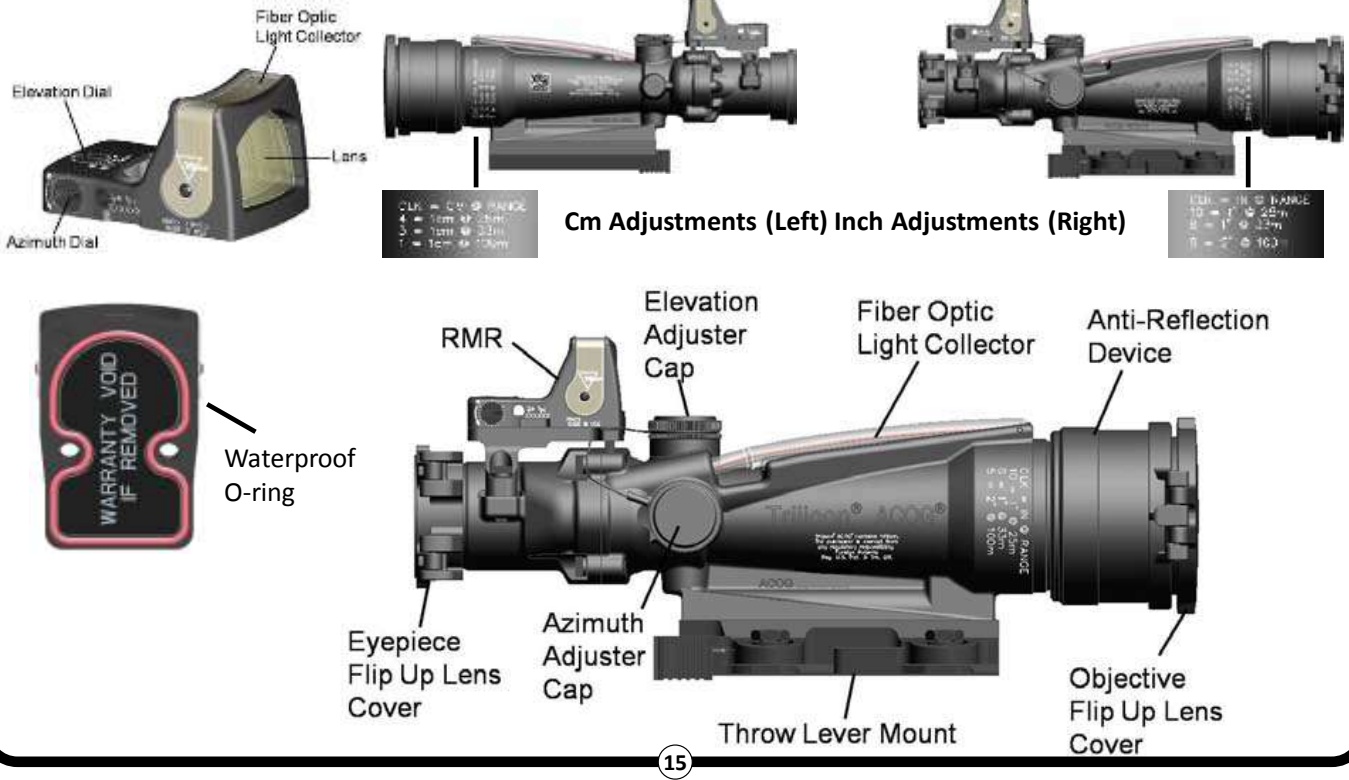
DEFINITIONS

AIMING POINT	The precise point where the tip of the front sight post or squad day optic reticle pattern is placed in relationship to target.
ZERO (SDO)	Elevation and windage settings required to place a single shot or the center of a shot group in a predesignated location on a target 100 meters/yards, from a specific firing position, under ideal weather conditions.
HOLD (SDO)	The placement of the aiming point relative to the target required to place a single shot, or the center of a shot group, in a predesignated location on a target at a specific range, from a specific firing position, under specific weather conditions
ZERO (BUIS)	Elevation and windate settings required to place a single shot or the center of a shot group in a predesignated location on a target at a specific range, from a specific firing position, under specific weather conditions.
TRUE ZERO (BUIS)	The elevation and windage settings that are required to place a single shot or the center of a shot group, in a predesignated location on a target at a specific range, from a specific firing position, under ideal weather conditions.

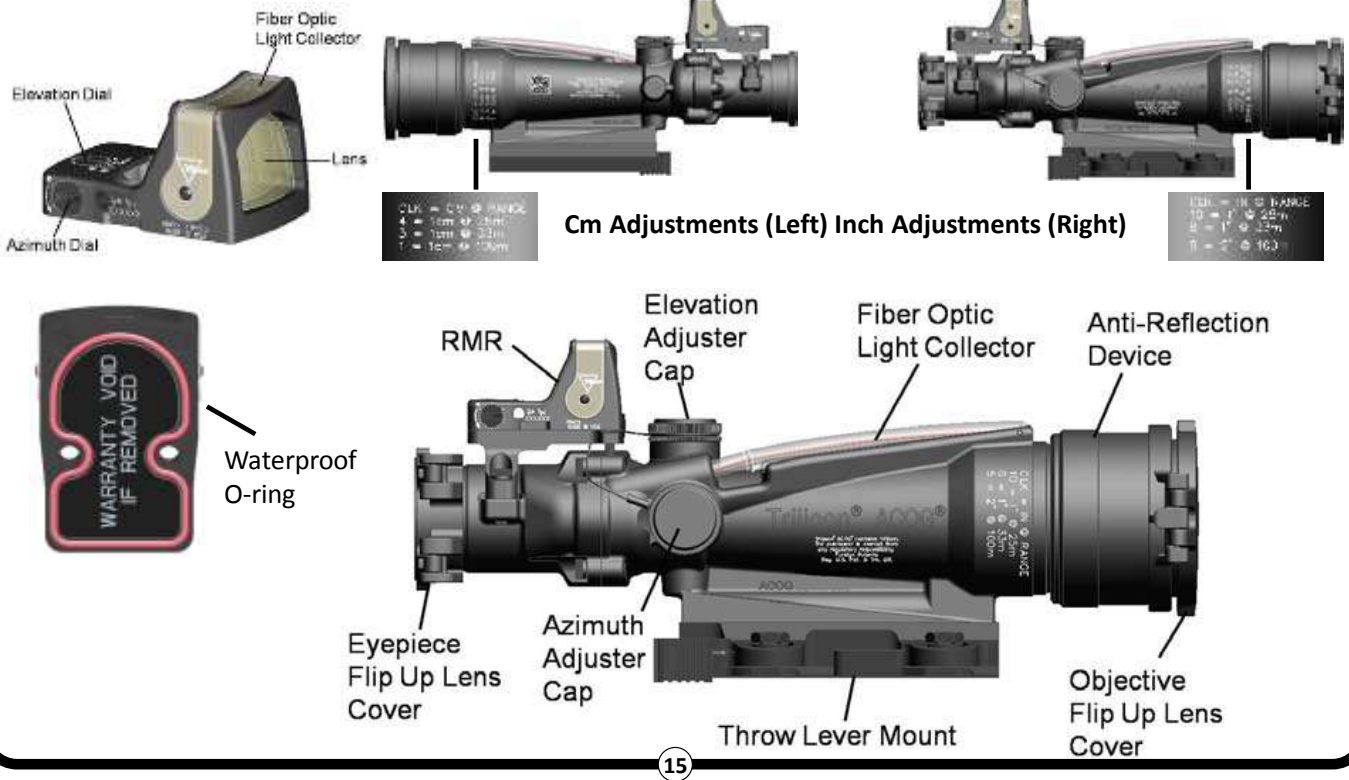
DEFINITIONS

AIMING POINT	The precise point where the tip of the front sight post or squad day optic reticle pattern is placed in relationship to target.
ZERO (SDO)	Elevation and windage settings required to place a single shot or the center of a shot group in a predesignated location on a target 100 meters/yards, from a specific firing position, under ideal weather conditions.
HOLD (SDO)	The placement of the aiming point relative to the target required to place a single shot, or the center of a shot group, in a predesignated location on a target at a specific range, from a specific firing position, under specific weather conditions
ZERO (BUIS)	Elevation and windate settings required to place a single shot or the center of a shot group in a predesignated location on a target at a specific range, from a specific firing position, under specific weather conditions.
TRUE ZERO (BUIS)	The elevation and windage settings that are required to place a single shot or the center of a shot group, in a predesignated location on a target at a specific range, from a specific firing position, under ideal weather conditions.

SDO NOMENCLATURE (EXTERNAL)



SDO NOMENCLATURE (EXTERNAL)



MOUNTING THE SDO

The SDO is attached to the weapon's MIL-STD-1913 rail using a locking throw lever mount. Prior to placing the SDO on the M1913 rail, ensure that the two locking levers are in the unlocked position. To unlock the two throw levers, open the front lever first, then on the rear lever, slide the Thumb Lock Safety to the open position and open the rear lever

The throw lever mount is unlocked when the front and rear levers are pointing forward

With the locking throw levers open, place the SDO onto the M1913 rail. Be sure to align the Interface Stud located on the bottom of the mount with the groove on the MIL-STD-1913 Rail as illustrated

The locking throw lever mount is locked when both locking levers are facing to the rear and the thumb lock is locked into the mount as illustrated



16

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The locking throw lever mount is locked when both locking levers are facing to the rear and the thumb lock is locked into the mount as illustrated



16

MOUNTING THE SDO

If loose, remove the SDO from the rail and move the levers to the closed position and turn the locknut, using the 3/8" wrench provided, in a clockwise direction incrementally 1/16th-1/8th a turn until resistance is met when pushing the levers into the closed position on the rail.

If tight, remove the SDO from the rail and move the levers to the open position and turn the locknut, using the 3/8" wrench provided, in a counter clockwise direction incrementally 1/16th-1/8th a turn until resistance is met when pushing the levers into the closed position on the rail.

The throw lever mount includes multiple mounting holes to give the operator flexibility when mounting the optic and to assist in bringing the optic over the rear sight to allow the operator to get the proper 2.4" of eye relief for a full Field of View.

INSTALLATION OF THE ANTI REFLECTION DEVICE (ARD)

- (1) Slide the Eyepiece Flip Up Lens Cover over the Ocular lens.
- (2) Screw the ARD onto the Objective housing.
- (3) Slide Objective Flip Up Lens Cover onto the ARD. **DO NOT** use Thread Locking Compound on Threads.



17

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17

TABLE 1A COURSE OF FIRE

BLOCK / DAY	STAGE	RANGE	TIME	AMMO	FILL PLAN # MAGS / # RND S EA.	TARGET	POSITION	SLING	
1 & 2	1	SLOW-FIRE	200	25 MIN	20	4/5	ABLE	SITTING KNEELING STANDING ANY	LOOP LOOP PARADE
	2	RAPID-FIRE	200	60 SEC 60 SEC	20	2/10	DOG	SITTING	LOOP
	3	SLOW-FIRE	300	5 MIN	5	1/5	ABLE	SITTING	LOOP
	4	RAPID-FIRE	300	60 SEC 60 SEC	20	2/10	DOG	STANDING TO PRONE	LOOP
	5	SLOW-FIRE	500	15 MIN	15	1/10	B-MOD.	PRONE	LOOP
3	1	SLOW-FIRE	200	20 MIN	15	3/5	ABLE	SITTING KNEELING STANDING	LOOP LOOP PARADE
	2	RAPID-FIRE	200	60 SEC	10	1/10	DOG	SITTING	LOOP
	3	SLOW-FIRE	300	5 MIN	5	1/5	ABLE	SITTING	LOOP
	4	RAPID-FIRE	300	60 SEC	10	1/10	DOG	STANDING TO PRONE	LOOP
	5	SLOW-FIRE	500	10 MIN	10	1/10	B-MOD.	PRONE	LOOP

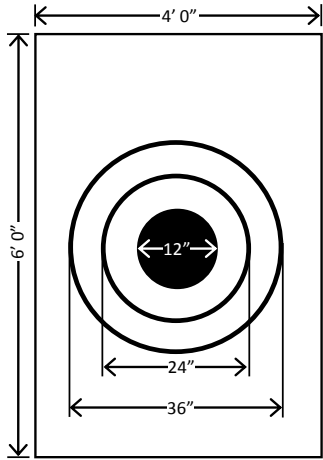
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TABLE 1A COURSE OF FIRE

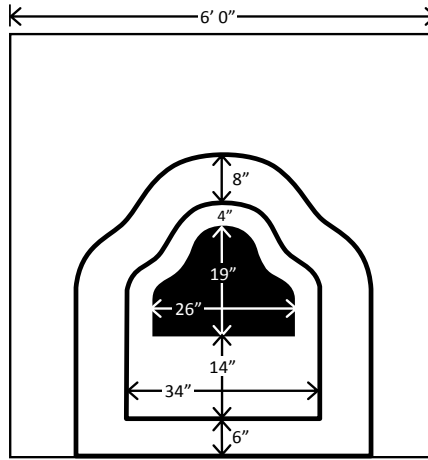
BLOCK / DAY	STAGE	RANGE	TIME	AMMO	FILL PLAN # MAGS / # RND S EA.	TARGET	POSITION	SLING	
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	4	RAPID-FIRE	300	60 SEC 60 SEC	20	2/10	DOG	STANDING TO PRONE	LOOP
	5	SLOW-FIRE	500	15 MIN	15	1/10	B-MOD.	PRONE	LOOP
3	1	SLOW-FIRE	200	20 MIN	15	3/5	ABLE	SITTING KNEELING STANDING	LOOP LOOP PARADE
	2	RAPID-FIRE	200	60 SEC	10	1/10	DOG	SITTING	LOOP
	3	SLOW-FIRE	300	5 MIN	5	1/5	ABLE	SITTING	LOOP
	4	RAPID-FIRE	300	60 SEC	10	1/10	DOG	STANDING TO PRONE	LOOP
	5	SLOW-FIRE	500	10 MIN	10	1/10	B-MOD.	PRONE	LOOP

18

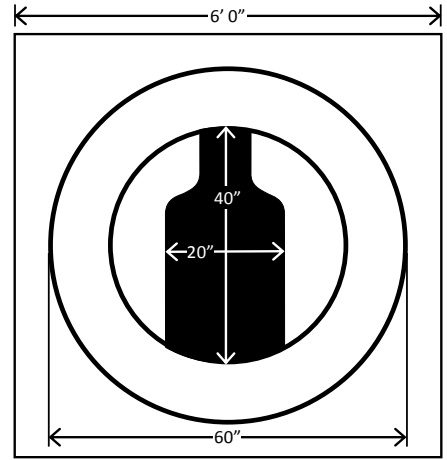
TABLE 1 TARGET DIMENSIONS



**"Able"
Target**

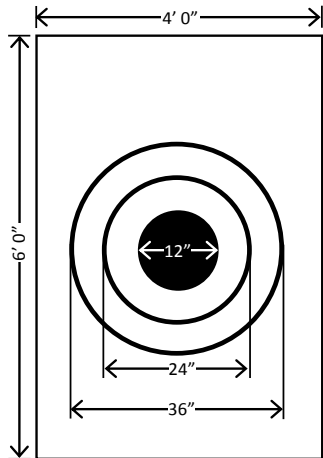


**"Dog"
Target**

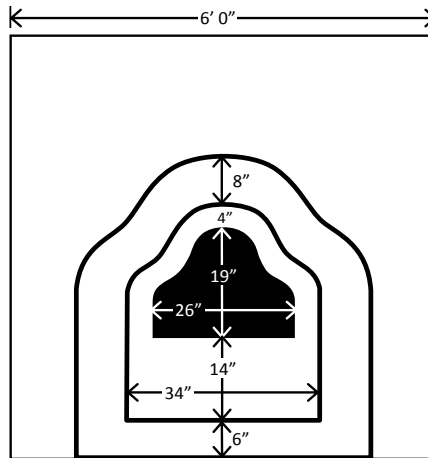


**"B-Modified"
Target**

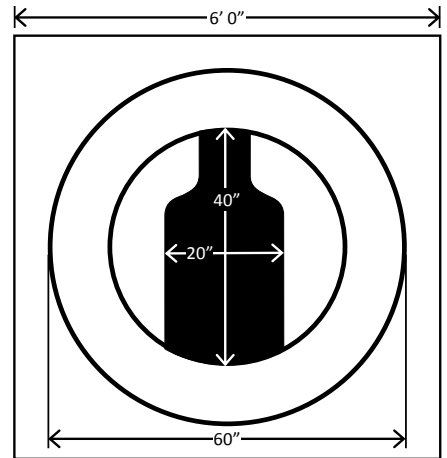
TABLE 1 TARGET DIMENSIONS



**"Able"
Target**



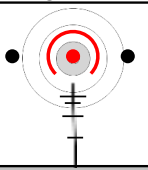
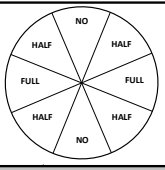

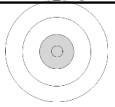
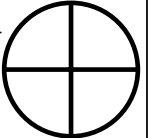
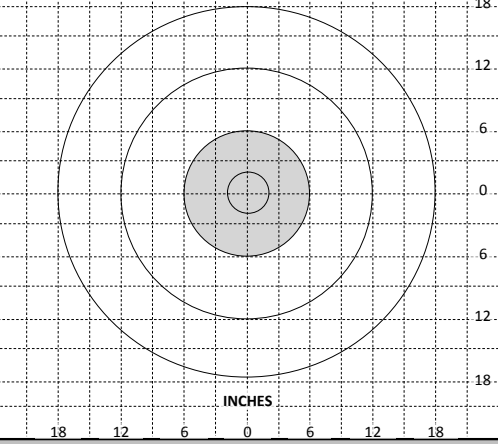
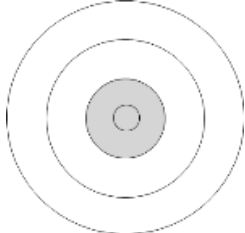
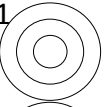
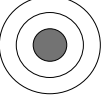
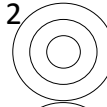
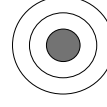
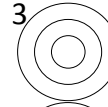
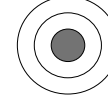
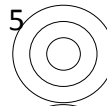
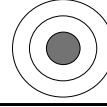

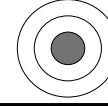

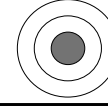
**"Dog"
Target**

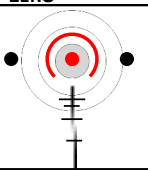
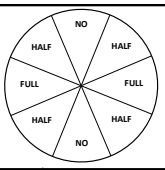
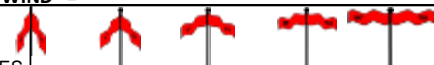
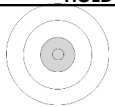
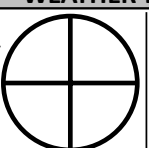
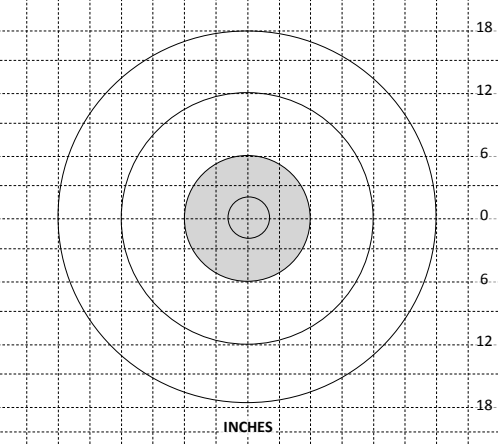
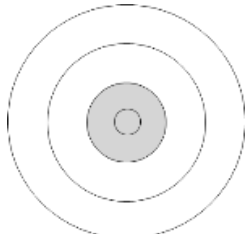
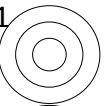
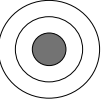
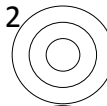
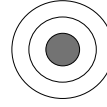
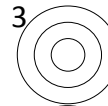
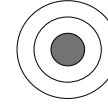
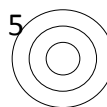
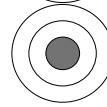

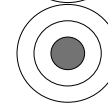

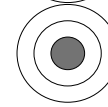


**"B-Modified"
Target**

200 YARD SLOW-FIRE SITTING		BEFORE FIRING					EXAMPLE						
ZERO			+ WIND =					HOLD					
		HOLDS IN INCHES											
		VALUE	5mph	10mph	15mph	20mph	25mph						
		FULL	2	5	7	9	11						
		HALF	1	2	3	4	5						
WEATHER DATA		LOT						AFTER FIRING					
LIGHT	<input type="checkbox"/> OVERCAST	<input checked="" type="checkbox"/> DRY		<input type="checkbox"/> LT RAIN									
<input checked="" type="checkbox"/> PARTLY CLOUDY	<input type="checkbox"/> CLEAR	<input type="checkbox"/> MIST		<input type="checkbox"/> HVY RAIN									
DURING FIRING		REMARKS											
CALL	1	2	3										
HOLD													
CALL	4	5	EX										
HOLD													
Some clouds, sun out of 2:00 low in the sky, temp cool. Changed hold on shot 3. Anticipated shot 4. Otherwise good zero.													

200 YARD SLOW-FIRE SITTING		BEFORE FIRING					EXAMPLE						
ZERO			+ WIND =					HOLD					
		HOLDS IN INCHES											
		VALUE	5mph	10mph	15mph	20mph	25mph						
		FULL	2	5	7	9	11						
		HALF	1	2	3	4	5						
WEATHER DATA		LOT						AFTER FIRING					
LIGHT	<input type="checkbox"/> OVERCAST	<input checked="" type="checkbox"/> DRY		<input type="checkbox"/> LT RAIN									
<input checked="" type="checkbox"/> PARTLY CLOUDY	<input type="checkbox"/> CLEAR	<input type="checkbox"/> MIST		<input type="checkbox"/> HVY RAIN									
DURING FIRING		REMARKS											
CALL	1	2	3										
HOLD													
CALL	4	5	EX										
HOLD													
Some clouds, sun out of 2:00 low in the sky, temp cool. Changed hold on shot 3. Anticipated shot 4. Otherwise good zero.													

200 YARD SLOW-FIRE SITTING		BEFORE FIRING					PRACTICE	
ZERO	+ WIND =	HOLDS IN INCHES					HOLD	
								
		VALUE	5mph	10mph	15mph	20mph	25mph	
		FULL	2	5	7	9	11	
		HALF	1	2	3	4	5	
WEATHER DATA		PLOT					AFTER FIRING	
LIGHT <input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR		PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN						SIGHT PICTURE ADJUSTMENT (WITHOUT WIND) 
DURING FIRING		REMARKS						
1 CALL HOLD	 	2  	3  	4 CALL HOLD	 	5  	EX  	

200 YARD SLOW-FIRE SITTING		BEFORE FIRING					PRACTICE	
ZERO	+ WIND =	HOLDS IN INCHES					HOLD	
								
		VALUE	5mph	10mph	15mph	20mph	25mph	
		FULL	2	5	7	9	11	
		HALF	1	2	3	4	5	
WEATHER DATA		PLOT					AFTER FIRING	
LIGHT <input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR		PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN						SIGHT PICTURE ADJUSTMENT (WITHOUT WIND) 
DURING FIRING		REMARKS						
1 CALL HOLD	 	2  	3  	4 CALL HOLD	 	5  	EX  	

ZERO

+ **WIND** **=**

HOLD

HOLDS IN INCHES

VALUE	5mph	10mph	15mph	20mph	25mph
FULL	2	4	6	8	10
HALF	1	2	3	4	5

SDO CLICKS

SDO CLICKS

SDO CLICKS

INCHES

INCHES

INCHES

LIGHT

 OVERCAST
 PARTLY CLOUDY
 CLEAR

PRECIP

 DRY LT RAIN
 MIST HVY RAIN

SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)

ZERO

+ **WIND** **=**

HOLD

HOLDS IN INCHES

VALUE	5mph	10mph	15mph	20mph	25mph
FULL	2	4	6	8	10
HALF	1	2	3	4	5

SDO CLICKS

SDO CLICKS

SDO CLICKS

INCHES

INCHES

INCHES

LIGHT

 OVERCAST
 PARTLY CLOUDY
 CLEAR

PRECIP

 DRY LT RAIN
 MIST HVY RAIN

SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)

200 YARD SLOW-FIRE SITTING **BEFORE FIRING** **DAY ONE**

ZERO + WIND = HOLD

HOLDS IN INCHES

VALUE	5mph	10mph	15mph	20mph	25mph
FULL	2	5	7	9	11
HALF	1	2	3	4	5

WEATHER DATA

LIGHT OVERCAST PARTLY CLOUDY CLEAR

PRECIP DRY LT RAIN MIST HVY RAIN

DURING FIRING

1 CALL HOLD 2 CALL HOLD 3 CALL HOLD

4 CALL HOLD 5 CALL HOLD EX CALL HOLD

PLOT

AFTER FIRING

SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)

REMARKS

200 YARD SLOW-FIRE SITTING **BEFORE FIRING** **DAY ONE**

ZERO + WIND = HOLD

HOLDS IN INCHES

VALUE	5mph	10mph	15mph	20mph	25mph
FULL	2	5	7	9	11
HALF	1	2	3	4	5

WEATHER DATA

LIGHT OVERCAST PARTLY CLOUDY CLEAR

PRECIP DRY LT RAIN MIST HVY RAIN

DURING FIRING

1 CALL HOLD 2 CALL HOLD 3 CALL HOLD

4 CALL HOLD 5 CALL HOLD EX CALL HOLD

PLOT

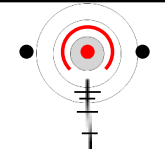

AFTER FIRING

SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)

REMARKS

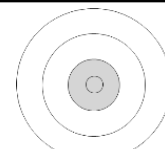
200 YARD SLOW-FIRE KNEELING **BEFORE FIRING** **DAY ONE**

ZERO **+ WIND =** **HOLD**

HOLDS IN INCHES


VALUE	5mph	10mph	15mph	20mph	25mph
FULL	2	5	7	9	11
HALF	1	2	3	4	5



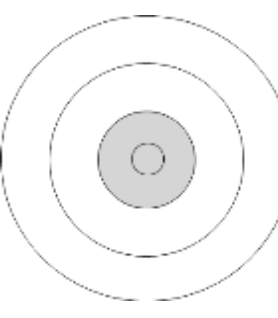
WEATHER DATA **PLOT** **AFTER FIRING**

LIGHT OVERCAST PARTLY CLOUDY CLEAR

PRECIP DRY LT RAIN MIST HVY RAIN



SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)



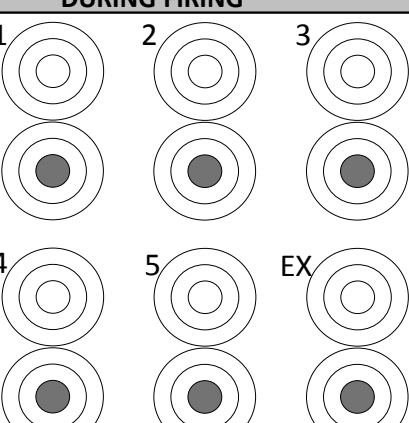
DURING FIRING

1 2 3

CALL HOLD

4 5 EX

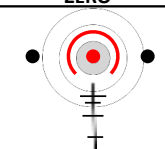
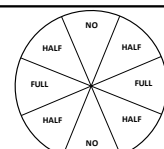
CALL HOLD



REMARKS

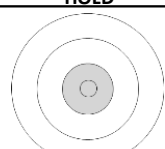
200 YARD SLOW-FIRE KNEELING **BEFORE FIRING** **DAY ONE**

ZERO **+ WIND =** **HOLD**

HOLDS IN INCHES


VALUE	5mph	10mph	15mph	20mph	25mph
FULL	2	5	7	9	11
HALF	1	2	3	4	5



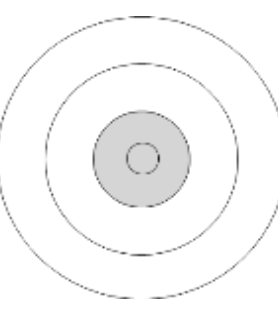
WEATHER DATA **PLOT** **AFTER FIRING**

LIGHT OVERCAST PARTLY CLOUDY CLEAR

PRECIP DRY LT RAIN MIST HVY RAIN



SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)



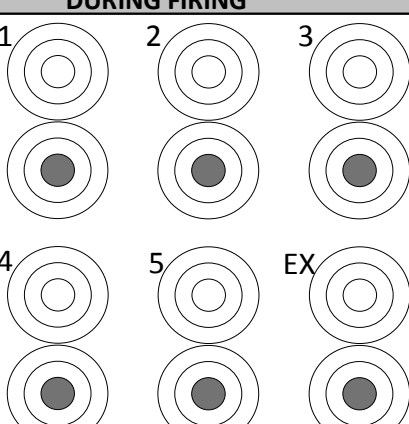
DURING FIRING

1 2 3

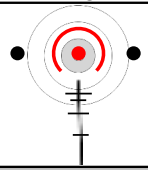
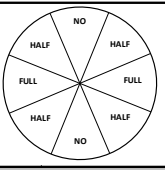

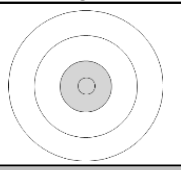
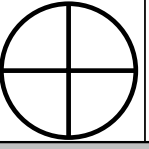
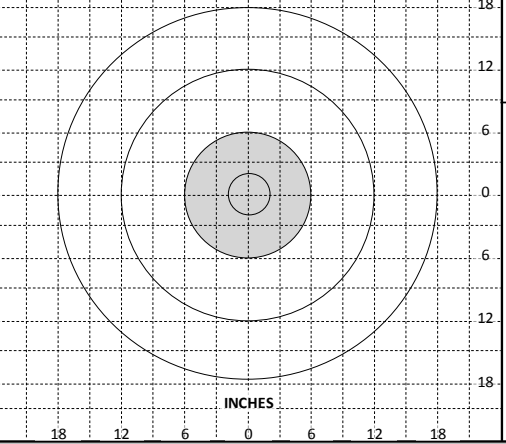
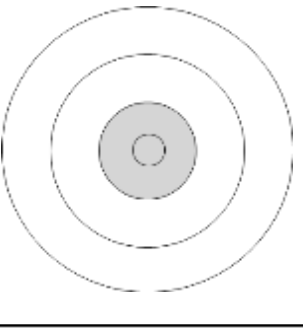
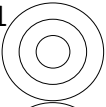

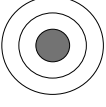
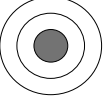
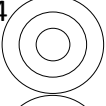

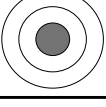
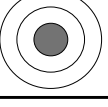
CALL HOLD

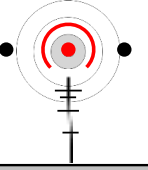
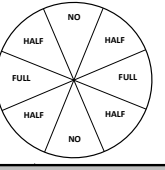

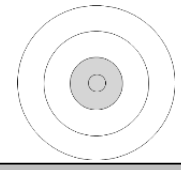
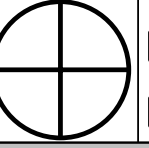
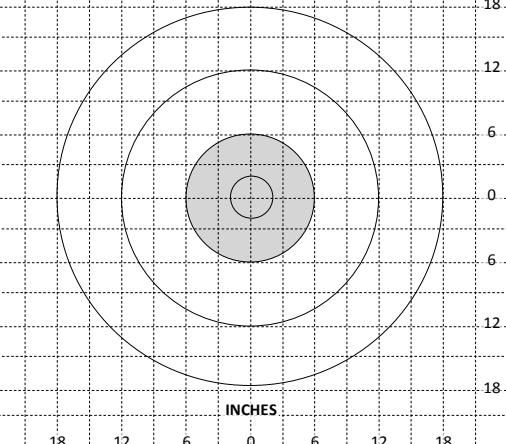
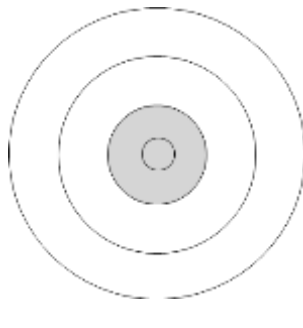
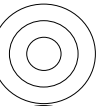
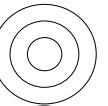
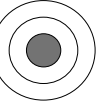
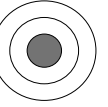
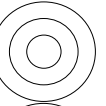
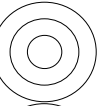
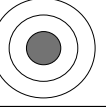
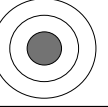
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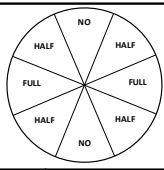
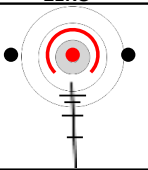

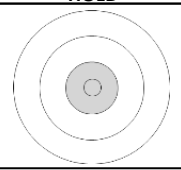
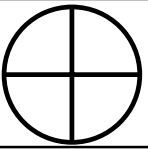
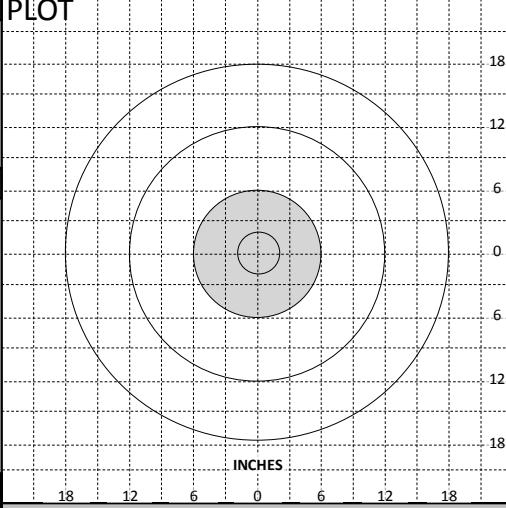
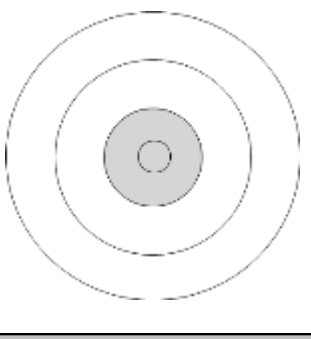
CALL HOLD

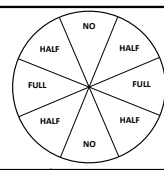
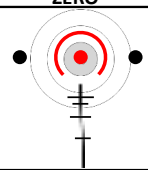

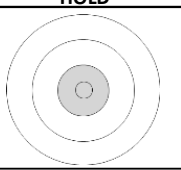
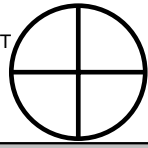
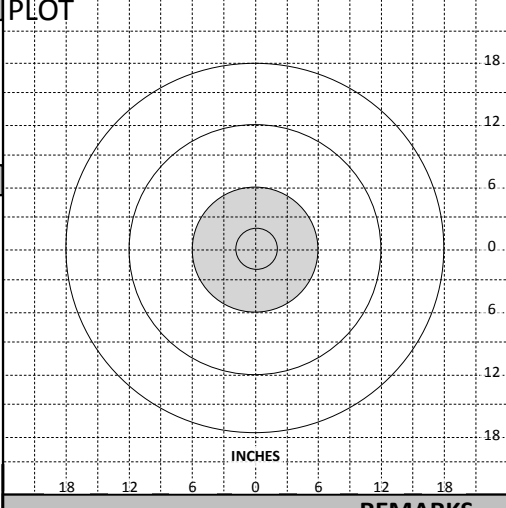
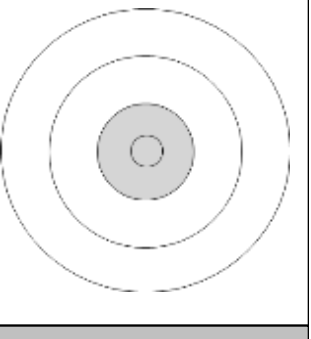


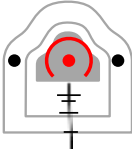



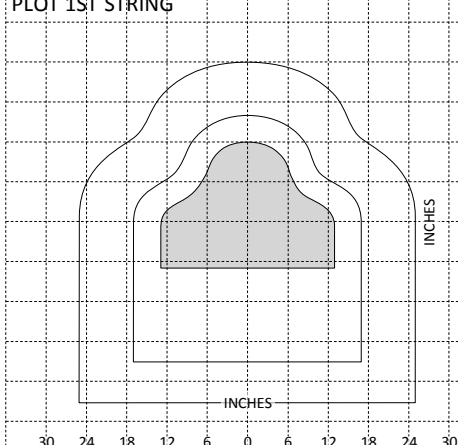
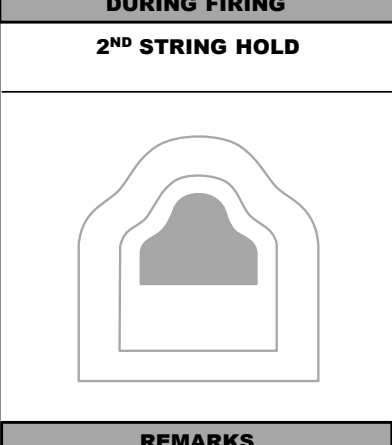
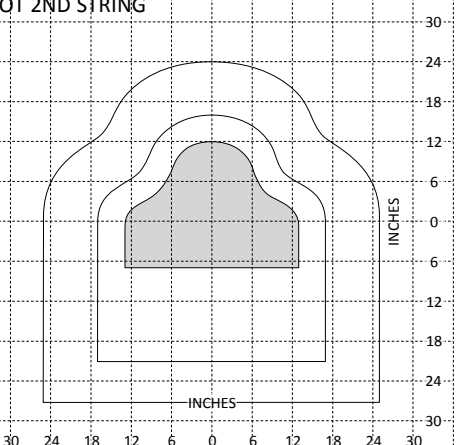

REMARKS

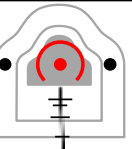
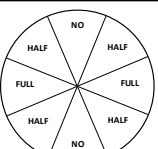


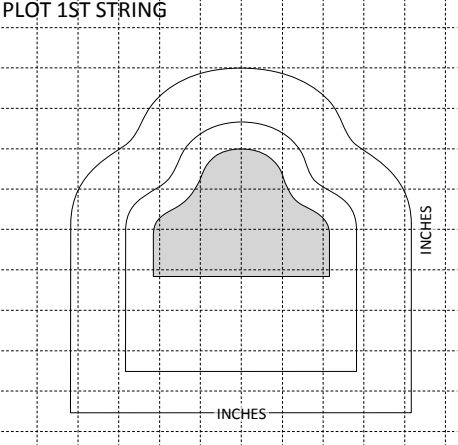
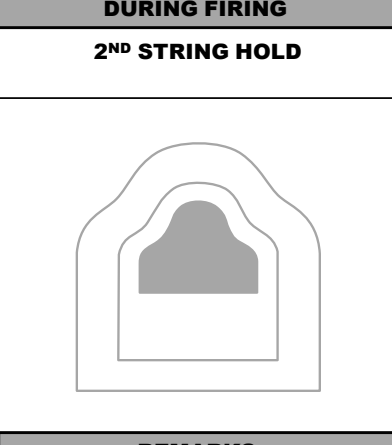
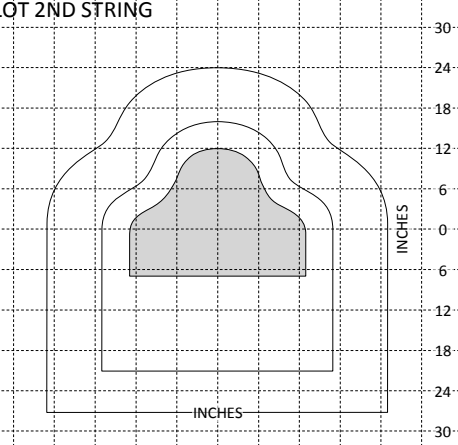

200 YARD SLOW-FIRE STANDING		BEFORE FIRING				DAY ONE	
ZERO 		+ WIND = 				HOLD 	
		HOLDS IN INCHES					
		VALUE	5mph	10mph	15mph	20mph	
		FULL	2	5	7	9	
		HALF	1	2	3	4	
WEATHER DATA		PLOT				AFTER FIRING	
LIGHT <input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR		PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN					SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)
							
DURING FIRING		REMARKS					
1	2	3					
CALL							
HOLD							
4	5	EX					
CALL							
HOLD							

200 YARD SLOW-FIRE STANDING		BEFORE FIRING				DAY ONE	
ZERO 		+ WIND = 				HOLD 	
		HOLDS IN INCHES					
		VALUE	5mph	10mph	15mph	20mph	
		FULL	2	5	7	9	
		HALF	1	2	3	4	
WEATHER DATA		PLOT				AFTER FIRING	
LIGHT <input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR		PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN					SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)
							
DURING FIRING		REMARKS					
1	2	3					
CALL							
HOLD							
4	5	EX					
CALL							
HOLD							

200 YARD SLOW-FIRE ANY POSITION		BEFORE FIRING				DAY ONE																		
ZERO		+ WIND =				HOLD																		
	HOLDS IN INCHES 																							
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>VALUE</th> <th>5mph</th> <th>10mph</th> <th>15mph</th> <th>20mph</th> <th>25mph</th> </tr> </thead> <tbody> <tr> <td>FULL</td> <td>2</td> <td>5</td> <td>7</td> <td>9</td> <td>11</td> </tr> <tr> <td>HALF</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </tbody> </table>				VALUE	5mph	10mph	15mph	20mph	25mph	FULL	2	5	7	9	11	HALF	1	2	3	4	5	
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PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN																								
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1	2	3																						
CALL																								
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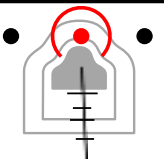
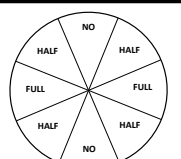


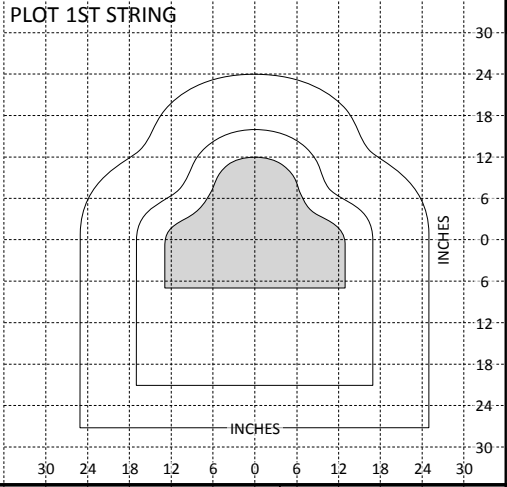
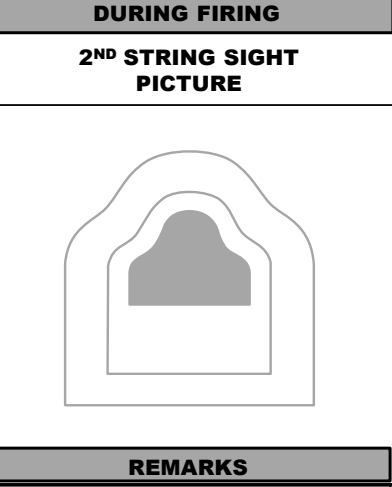
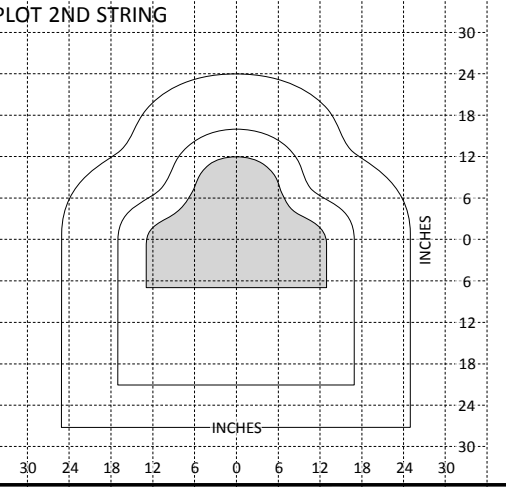
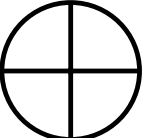

200 YARD SLOW-FIRE STANDING		BEFORE FIRING				DAY ONE																		
ZERO		+ WIND =				HOLD																		
	HOLDS IN INCHES 																							
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>VALUE</th> <th>5mph</th> <th>10mph</th> <th>15mph</th> <th>20mph</th> <th>25mph</th> </tr> </thead> <tbody> <tr> <td>FULL</td> <td>2</td> <td>5</td> <td>7</td> <td>9</td> <td>11</td> </tr> <tr> <td>HALF</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </tbody> </table>				VALUE	5mph	10mph	15mph	20mph	25mph	FULL	2	5	7	9	11	HALF	1	2	3	4	5	
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WEATHER DATA		PLOT				AFTER FIRING																		
LIGHT <input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR 						SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)																		
PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN																								
DURING FIRING		REMARKS																						
1	2	3																						
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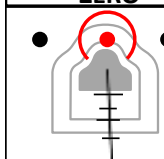
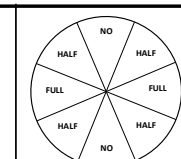


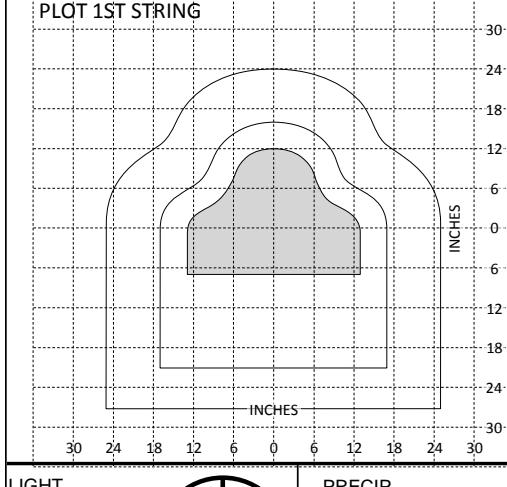
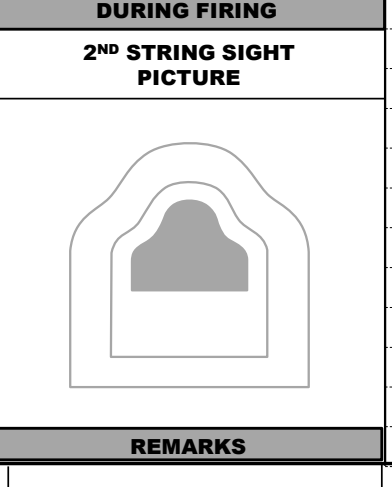
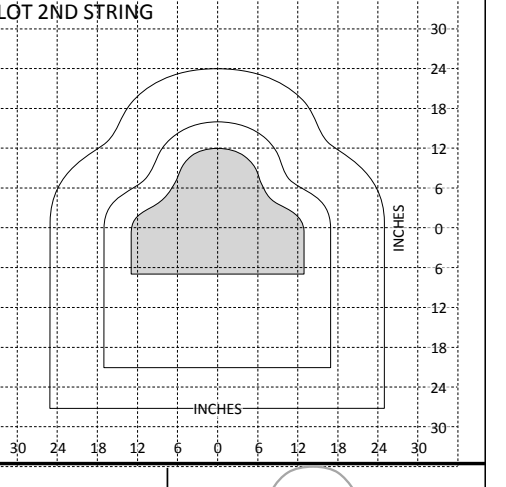


200 YARD RAPID-FIRE SITTING		BEFORE FIRING					DAY ONE																			
ZERO		+ WIND =					HOLD																			
		HOLDS IN INCHES 																								
		<table border="1" style="font-size: small;"> <thead> <tr> <th>VALUE</th> <th>5mph</th> <th>10mph</th> <th>15mph</th> <th>20mph</th> <th>25mph</th> </tr> </thead> <tbody> <tr> <td>FULL</td> <td>2</td> <td>5</td> <td>7</td> <td>9</td> <td>11</td> </tr> <tr> <td>HALF</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </tbody> </table>	VALUE	5mph	10mph	15mph	20mph	25mph	FULL	2	5	7	9	11	HALF	1	2	3	4	5						
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FULL	2	5	7	9	11																					
HALF	1	2	3	4	5																					
PLOT 1ST STRING	DURING FIRING					PLOT 2ND STRING																				
	2ND STRING HOLD 																									
		REMARKS																								
LIGHT <input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR		PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN		SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)																						

200 YARD RAPID-FIRE SITTING		BEFORE FIRING					DAY ONE																			
ZERO		+ WIND =					HOLD																			
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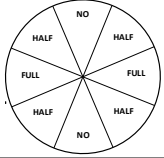
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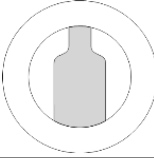
500 YARD SLOW-FIRE PRONE **BEFORE FIRING** **DAY ONE**

ZERO **WIND** **HOLD**

HOLDS IN INCHES

VALUE	5mph	10mph	15mph	20mph	25mph
FULL	17	35	52	69	87
HALF	8	17	26	34	43

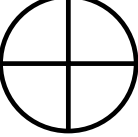


WEATHER DATA

LIGHT TYPE AND DIRECTION

CLEAR OVERCAST

PARTLY CLOUDY




PRECIP

DRY LT RAIN

MIST HVY RAIN

AFTER FIRING

SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)



CALL 1 2 3 4 5

HOLD

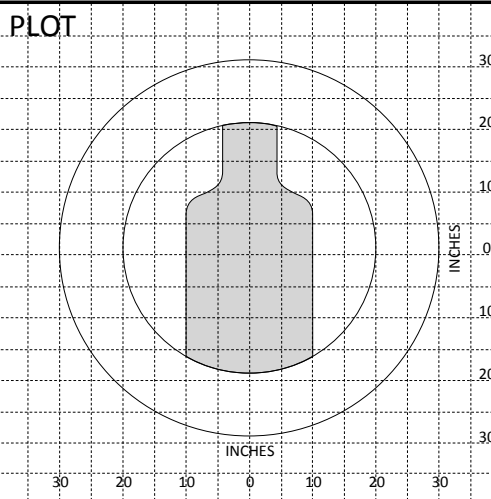
CALL 6 7 8 9 10

HOLD

CALL 11 12 13 14 15

HOLD


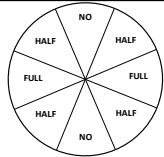
PLOT



REMARKS

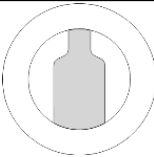
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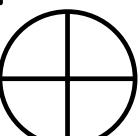


WEATHER DATA

LIGHT TYPE AND DIRECTION

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PARTLY CLOUDY



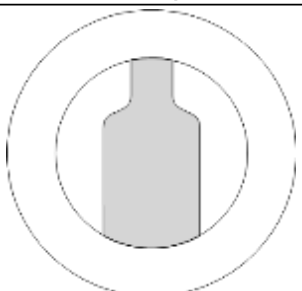
PRECIP

DRY LT RAIN

MIST HVY RAIN

AFTER FIRING

SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)



CALL 1 2 3 4 5

HOLD

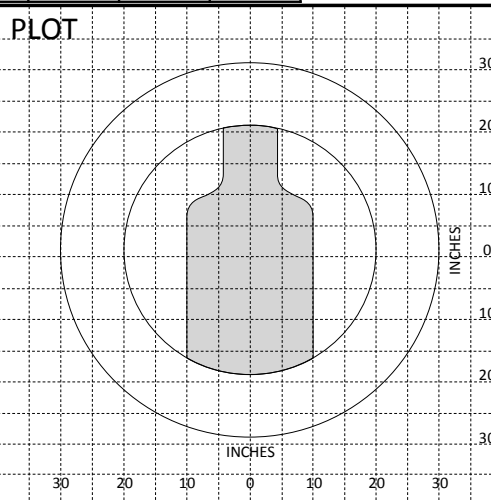
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HOLD

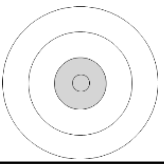
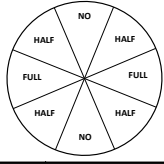

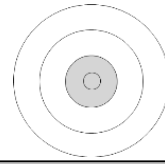
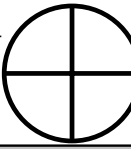
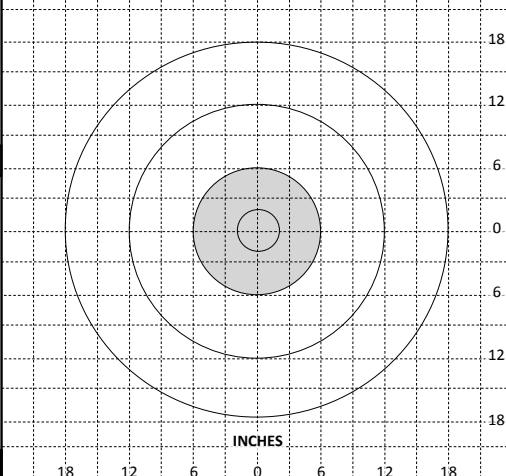
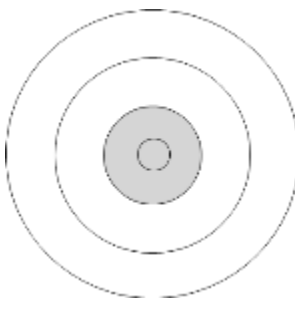
CALL 11 12 13 14 15

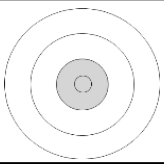
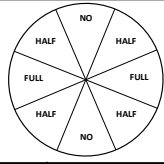

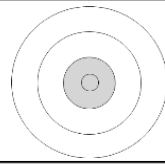
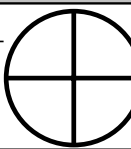
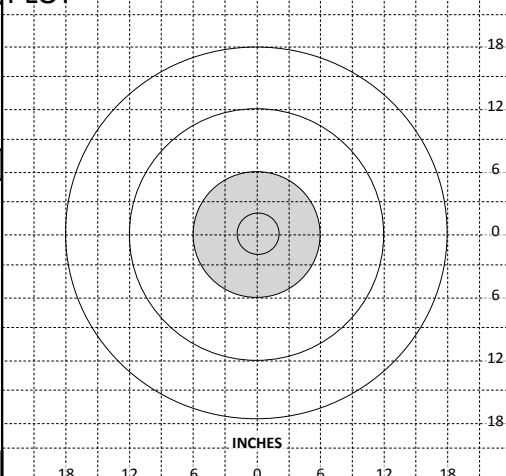
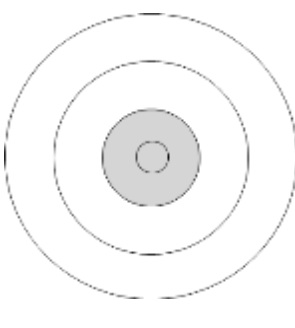
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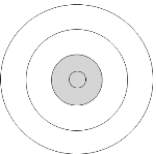
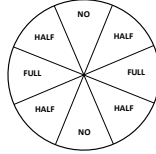

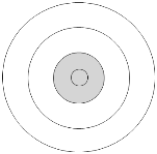
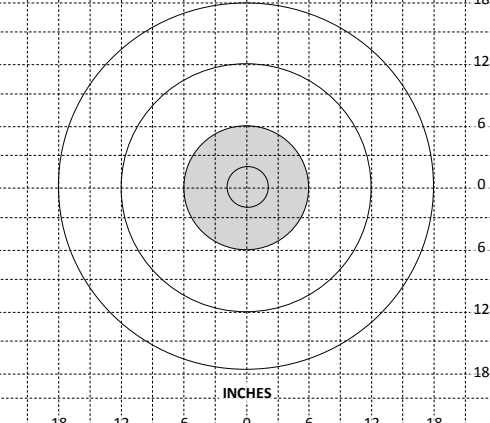
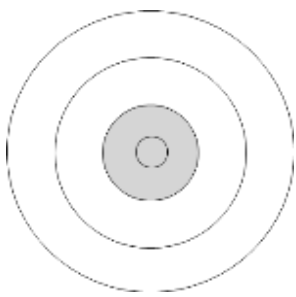
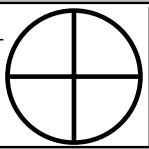
PLOT

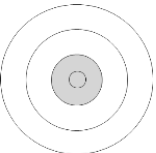
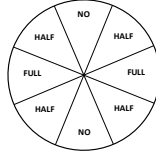

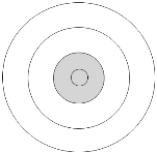
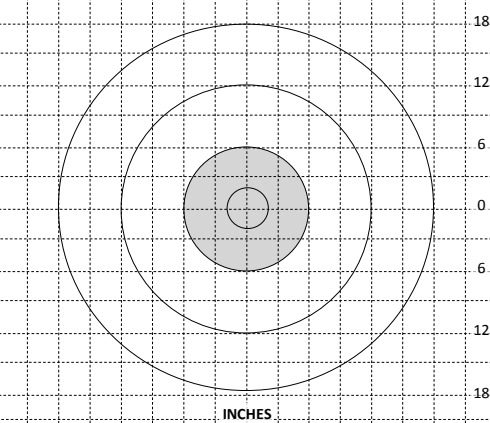
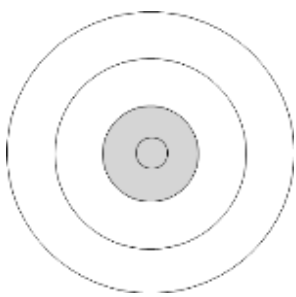
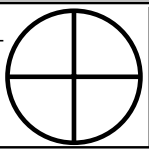


REMARKS

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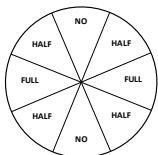


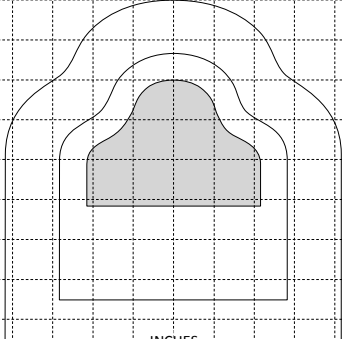
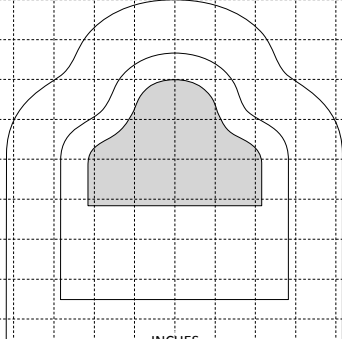

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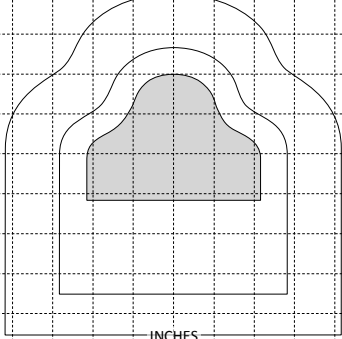
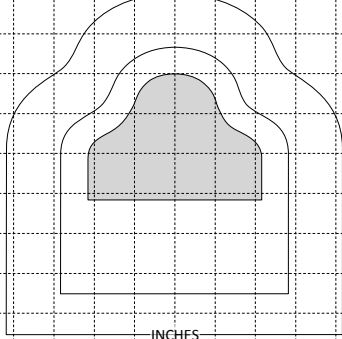

200 YARD SLOW-FIRE KNEELING		BEFORE FIRING					DAY TWO
ZERO		+ WIND =					HOLD
		HOLDS IN INCHES 					
		VALUE	5mph	10mph	15mph	20mph	25mph
		FULL	2	5	7	9	11
		HALF	1	2	3	4	5
WEATHER DATA		PLOT					AFTER FIRING
LIGHT <input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR							SIGHT PICTURE ADJUSTMENT (WITHOUT WIND) 
							
PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN		INCHES					
DURING FIRING		REMARKS					
1	2	3					
CALL							
HOLD							
4	5	EX					
CALL							
HOLD							

200 YARD SLOW-FIRE KNEELING		BEFORE FIRING					DAY TWO
ZERO		+ WIND =					HOLD
		HOLDS IN INCHES 					
		VALUE	5mph	10mph	15mph	20mph	25mph
		FULL	2	5	7	9	11
		HALF	1	2	3	4	5
WEATHER DATA		PLOT					AFTER FIRING
LIGHT <input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR							SIGHT PICTURE ADJUSTMENT (WITHOUT WIND) 
							
PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN		INCHES					
DURING FIRING		REMARKS					
1	2	3					
CALL							
HOLD							
4	5	EX					
CALL							
HOLD							

200 YARD SLOW-FIRE STANDING		BEFORE FIRING					DAY TWO																		
ZERO		+ WIND =					HOLD																		
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HALF	1	2	3	4	5																				
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DURING FIRING		REMARKS																							
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CALL																									
HOLD																									
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HOLD																									


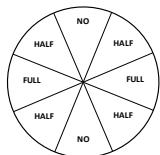


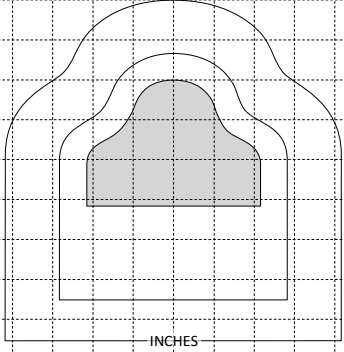
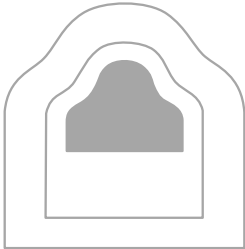
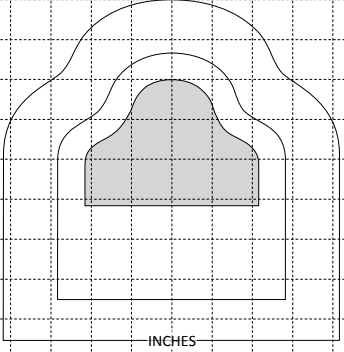
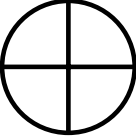

200 YARD SLOW-FIRE STANDING		BEFORE FIRING					DAY TWO																		
ZERO		+ WIND =					HOLD																		
		HOLDS IN INCHES 																							
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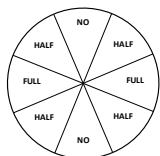


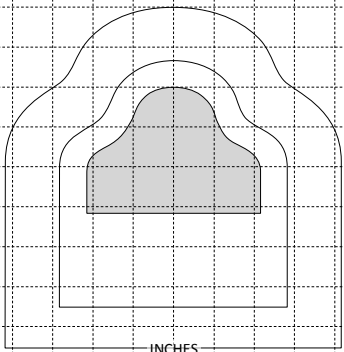

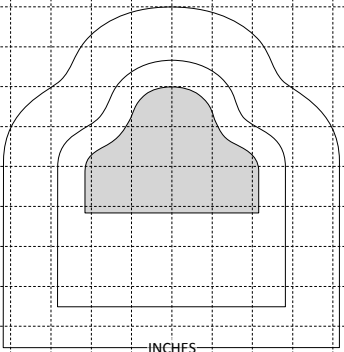
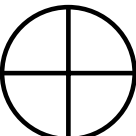

200 YARD RAPID-FIRE SITTING		BEFORE FIRING					DAY TWO																			
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300 YARD RAPID-FIRE PRONE		BEFORE FIRING					DAY TWO																	
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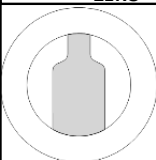
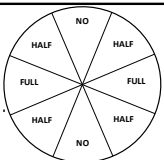
300 YARD RAPID-FIRE PRONE		BEFORE FIRING					DAY TWO																	
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500 YARD SLOW-FIRE PRONE

BEFORE FIRING

DAY TWO

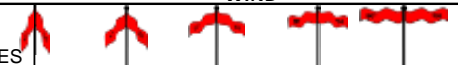
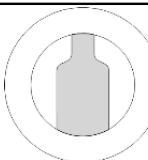
ZERO

HOLDS IN INCHES

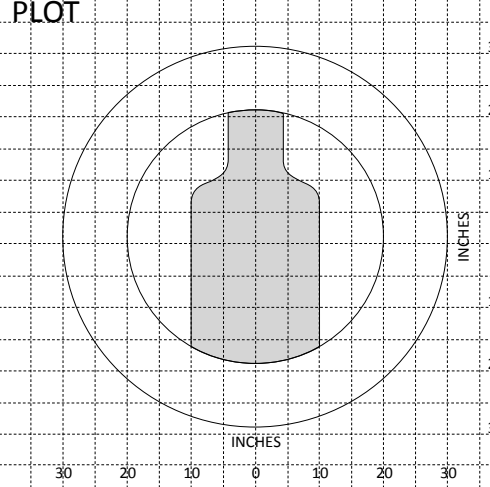
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FULL	17	35	52	69	87
HALF	8	17	26	34	43

WIND

	1	2	3	4	5
CALL					
HOLD					
	6	7	8	9	10
CALL					
HOLD					
	11	12	13	14	15
CALL					
HOLD					

PLOT



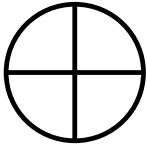
INCHES

REMARKS

WEATHER DATA

LIGHT TYPE AND DIRECTION

CLEAR OVERCAST

PARTLY CLOUDY 

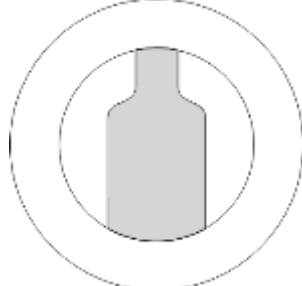
PRECIP

DRY LT RAIN

MIST HVY RAIN

AFTER FIRING

SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)

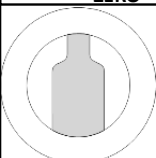
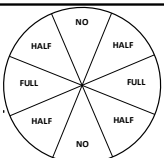


500 YARD SLOW-FIRE PRONE

BEFORE FIRING

DAY TWO


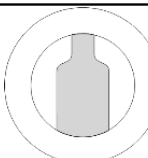
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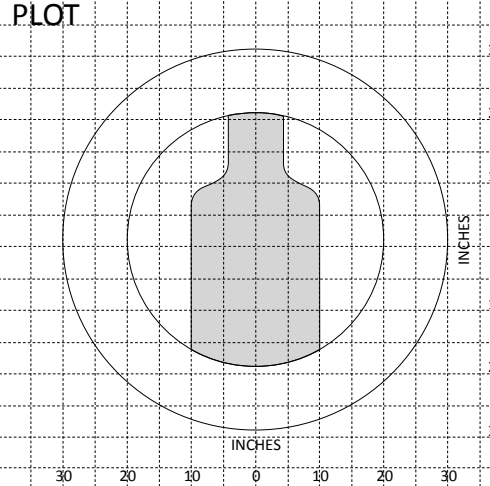
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CALL					
HOLD					

PLOT



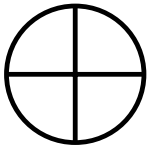
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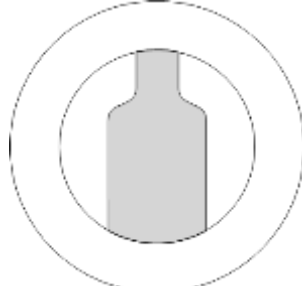
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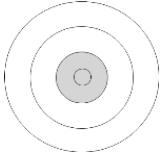
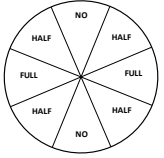

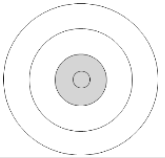
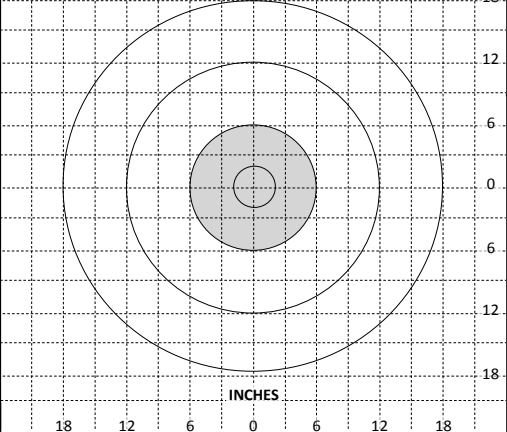
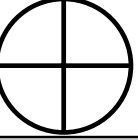
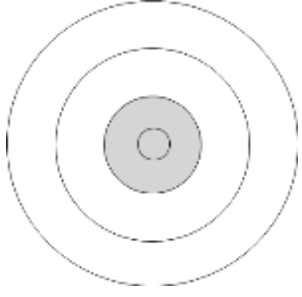
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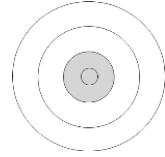
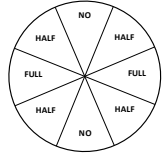

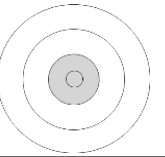
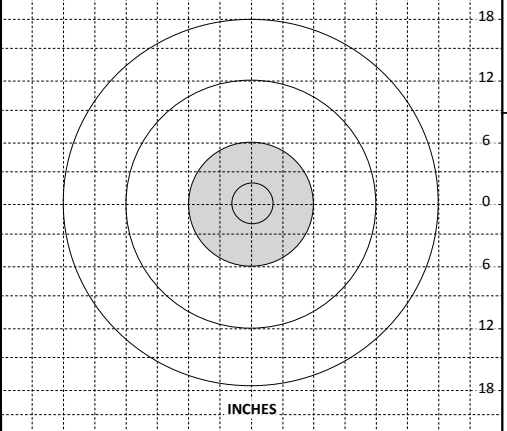
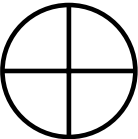
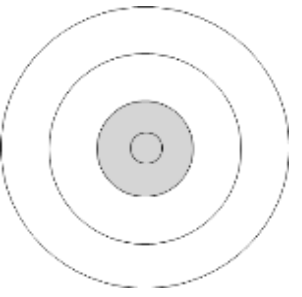
MIST HVY RAIN

AFTER FIRING

SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)



200 YARD SLOW-FIRE SITTING		BEFORE FIRING					DAY THREE																		
ZERO		+ WIND =					HOLD																		
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DURING FIRING		REMARKS																							
1 CALL HOLD 2 CALL HOLD 3 CALL HOLD 4 CALL HOLD 5 CALL HOLD EX																									


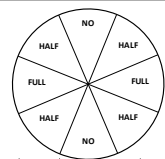


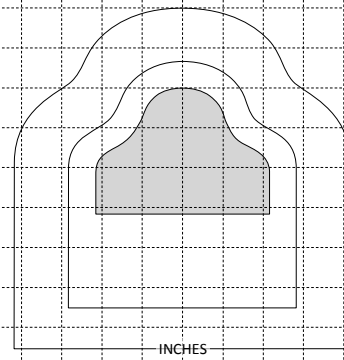

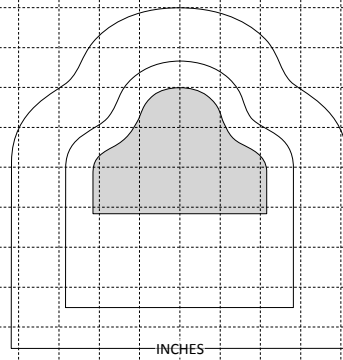

200 YARD SLOW-FIRE SITTING		BEFORE FIRING					DAY THREE																		
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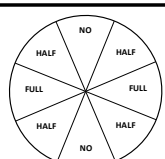


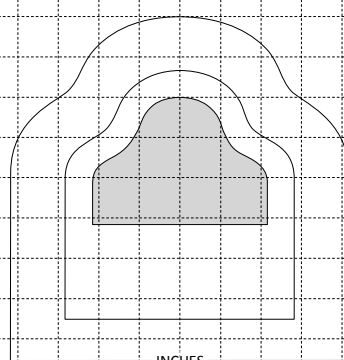
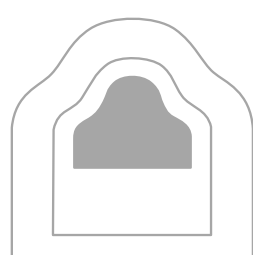
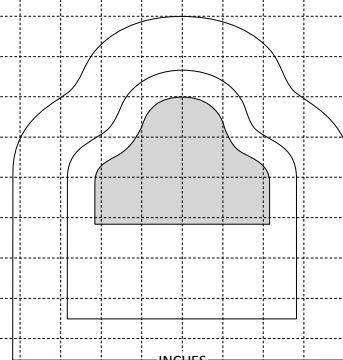
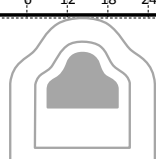
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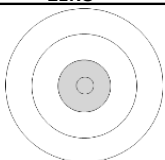
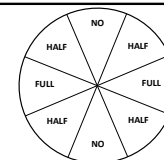
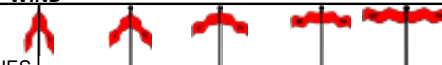
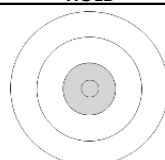
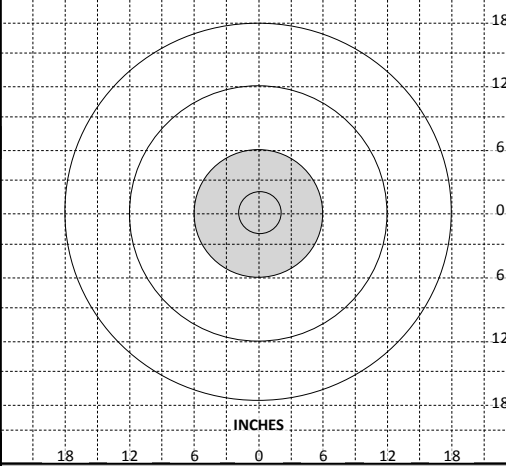
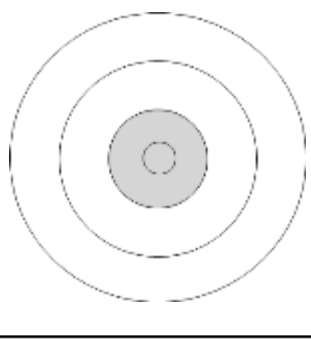
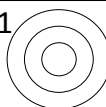
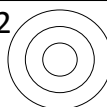
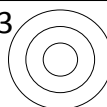
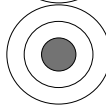
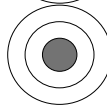
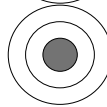



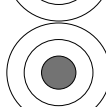
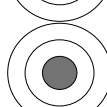
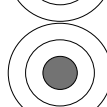
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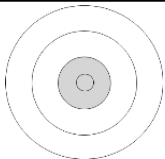
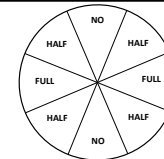

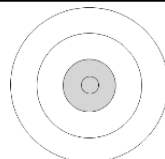
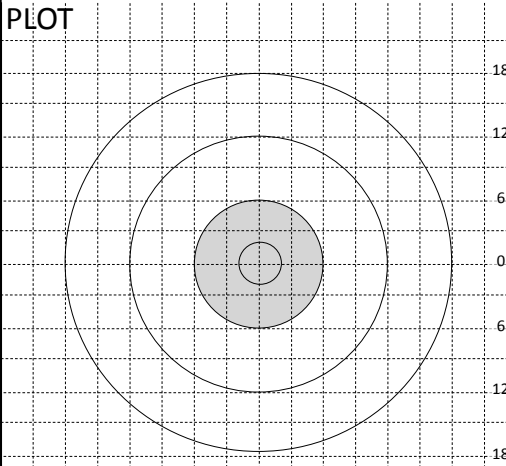
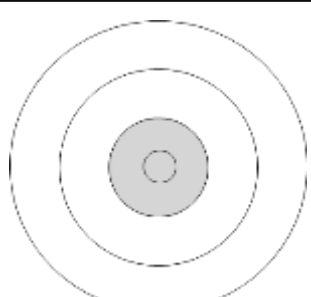
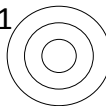
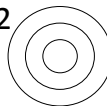
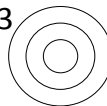
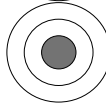
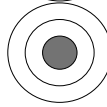
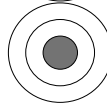



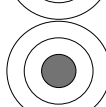
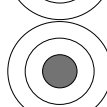
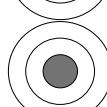
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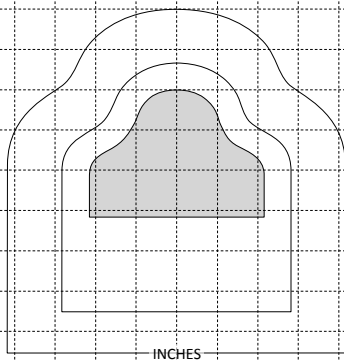

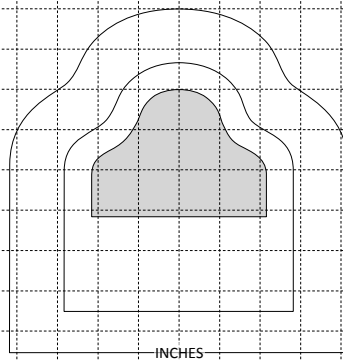
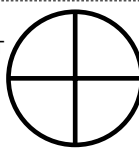

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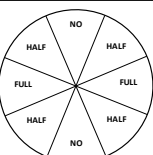


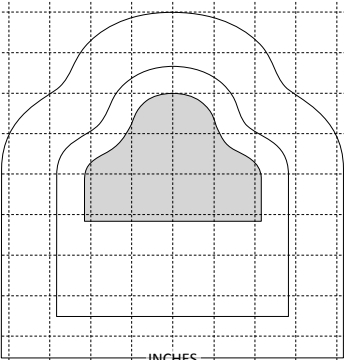

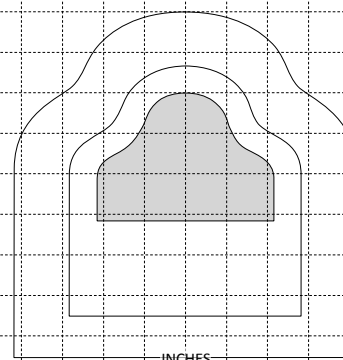
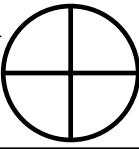

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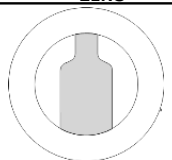
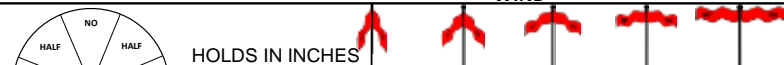
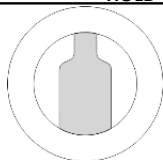
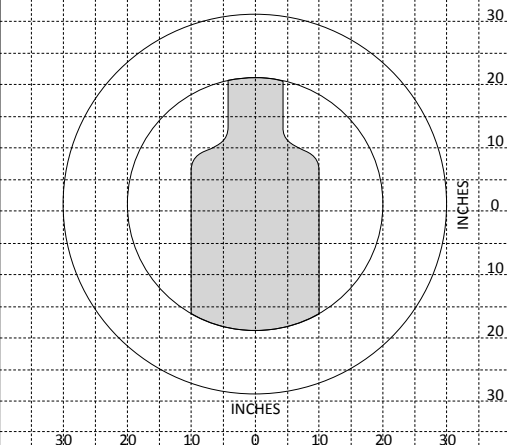
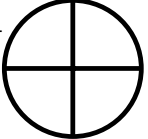
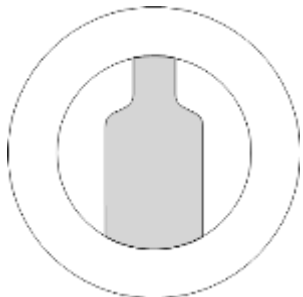
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WEATHER DATA		PLOT					AFTER FIRING
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DURING FIRING		REMARKS					
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		HALF	2	5	8	11	13
WEATHER DATA		PLOT					AFTER FIRING
LIGHT <input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR							SIGHT PICTURE ADJUSTMENT (WITHOUT WIND)
PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN							
DURING FIRING		REMARKS					
1  2  3  CALL HOLD HOLD							
4  5  EX  CALL HOLD HOLD							
1  2  3  CALL HOLD HOLD							
4  5  EX  CALL HOLD HOLD							

300 YARD RAPID-FIRE PRONE		BEFORE FIRING					DAY THREE
ZERO		+ WIND =					HOLD
		HOLDS IN INCHES 					
		VALUE	5mph	10mph	15mph	20mph	25mph
		FULL	5	11	16	22	27
		HALF	2	5	8	11	13
PLOT 1ST STRING	DURING FIRING				PLOT 2ND STRING		
	2 ND STRING HOLD 						
INCHES	REMARKS				INCHES		
		LIGHT 					SIGHT PICTURE ADJUSTMENT (WITHOUT WIND) 
<input type="checkbox"/> OVERCAST <input type="checkbox"/> PARTLY CLOUDY <input type="checkbox"/> CLEAR		PRECIP <input type="checkbox"/> DRY <input type="checkbox"/> LT RAIN <input type="checkbox"/> MIST <input type="checkbox"/> HVY RAIN					

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500 YARD SLOW-FIRE PRONE		BEFORE FIRING					DAY THREE																									
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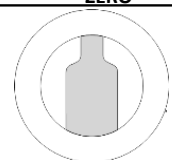

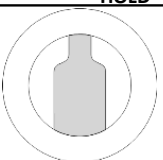
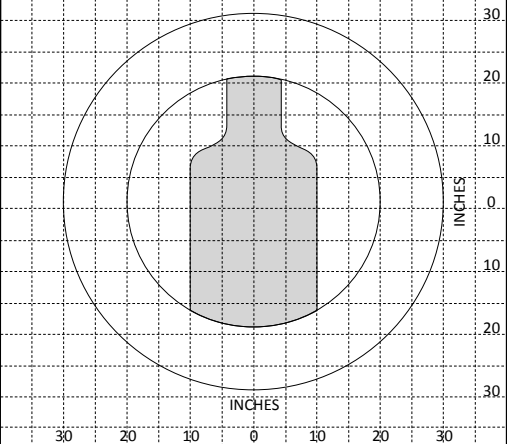
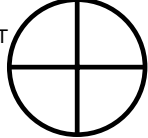
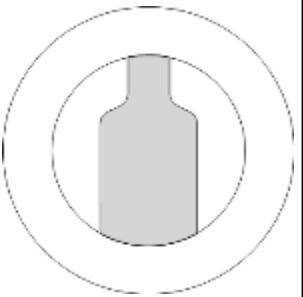
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TABLE 2

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CONTROLLED PAIR	Two shots in quick succession to the torso with a separate sight picture for each shot. A Controlled Pair is an immediate target engagement technique for targets greater than 15 yards.
FAILURE TO STOP	This is a controlled pair to the torso followed by an additional shot to an alternate aiming point ("Head or Pelvis).
"BOX DRILL"	<p>A method of engaging multiple targets:</p> <ol style="list-style-type: none"> 1) Start with the greatest threat and fire a pair to the torso. Utilize the recoil of the last shot and present your weapon to the next target and fire another pair. 2) Assess the same target. Then, if required, engage an alternate aim point. 3) Utilize the recoil of the last shot and present your weapon to an alternate aim point on the first target. Aim and fire a single shot. Follow through back to the same alternate aim point and then assess both targets. <p>This is referred to as a box drill due to its square method of shot placement.</p>

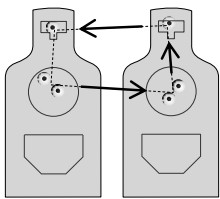


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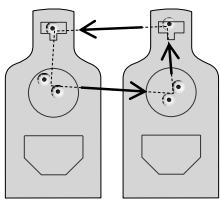
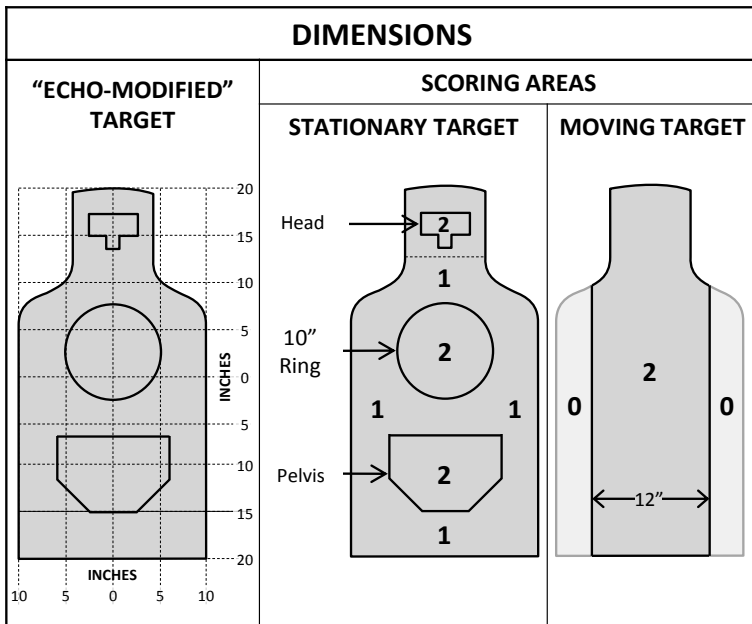
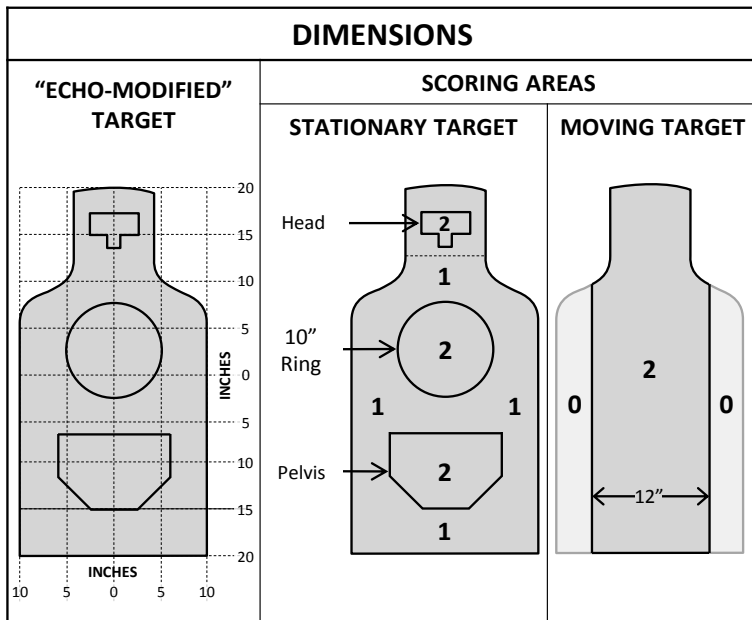


TABLE 2 TARGETS



SCORING AREAS	
"Head"	A shot placed in the head of a human will destroy the brain and cause immediate incapacitation and loss of life.
10" Ring	A shot through the heart or the connecting vascular structure will likely cause the target to bleed to death within 10-30 seconds.
Pelvis	Destruction of the pelvic bone will likely cause the target to become immobile, which will allow you more space and time for follow on shots.

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MOVING TARGET LEADS

	SLOW WALKING TARGET (APPROX. 2 MPH)	FAST WALKING TARGET (APPROX. 4 MPH)	JOGGING TARGET (APPROX. 6 MPH)	RUNNING TARGET (APPROX. 10 MPH)
50 M	NO LEAD 	NO LEAD 	LEADING EDGE 	1 BODY WIDTH
100 M	NO LEAD 	LEADING EDGE 	1 BODY WIDTH 	1½ BODY WIDTHS
200 M	LEADING EDGE 	1 BODY WIDTH 	2 BODY WIDTHS 	3 BODY WIDTHS

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SCORING

	Points possible	Qualification
Table 1	250	≥ 190 points
Table 2	100	≥ 60 points

Aggregate Score



305-350 = EXPERT



280-304 = SHARPSHOOTER



250-279 = MARKSMAN

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COACH'S NOTES

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