BECAUSE ALL RIFLES ARE NOT CREATED EQUAL!

Federal® introduces ... **TRU® Tactical Rifle Urban Ammunition**

Custom-made ammunition for your urban rifle.

Today's Law Enforcement Officers need an ammunition that is specifically designed for use in semi-automatic and automatic rifles, "Urban Rifles." Most of these rifles are variants of the M-16 or AR-15. We've designed *TRU* with these rifles in mind. Federal *TRU* ammunition is engineered using *MIL-QUALITY* specifications. Each Federal *TRU* cartridge is made using select mil-quality low flash powders that do not disrupt an officer's night vision. The *TRU* case and web are built using thicker brass, adding the extra strength needed for the high powered rifle. *TRU* primers are crimped for added holding ability. This virtually eliminates backed out primers that can lock-up your weapon. With *TRU* ammunition, potentially disastrous situations are greatly reduced. *TRU* bullets are specifically engineered ranging from fragmenting designs for tactical entry to deeper penetrating bullets for patrol. This is particularly important in today's urban settings.

For more information on *TRU* and other Federal products, please visit our web-site.

TACTICAL® BONDED Ammunition

Tough! *TACTICAL BONDED* high-performance duty ammunition has no equal. Test after test, *TACTICAL* out performs conventional bullets, even through the toughest of barriers. *TACTICAL's* bonded core produces large uniform expansion, with penetration performance to match. When conditions range from clear shots to glass barriers, urban to rural, *TACTICAL* is the PROVEN CHOICE for Law Enforcement Professionals.

TACTICAL BONDED unequaled performance through glass barriers.

FEDERAL®

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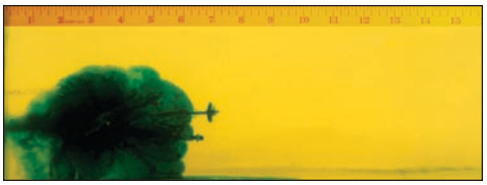
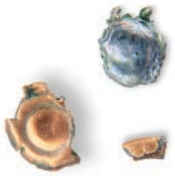
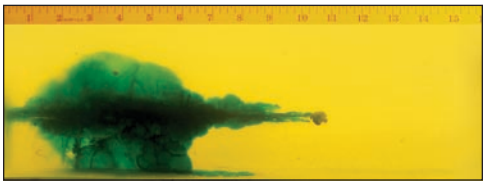
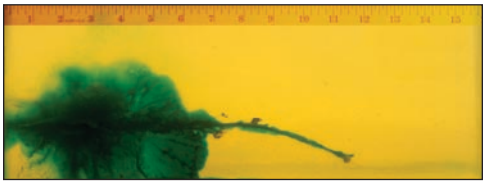
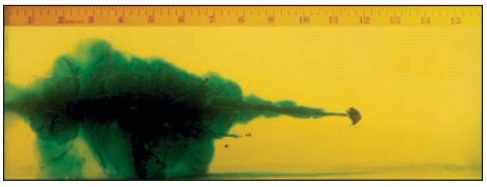
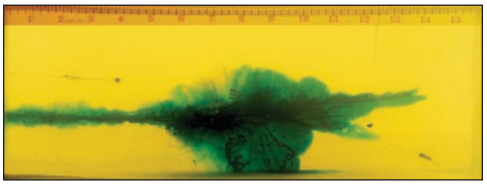
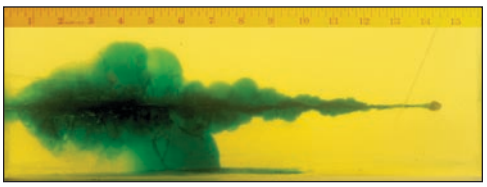
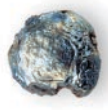
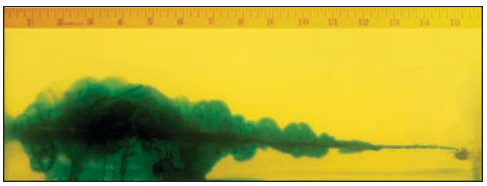
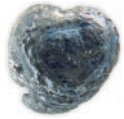
FEDERAL®

LAW ENFORCEMENT
.223 RIFLE DATA BOOK

223 REM 5.56 NATO
Bare Gel

FEDERAL

Firearm: Colt M4 | Barrel: 14.5" | Twist Rate 1x7" | Range: 10 Yards

Caliber	Wound Characteristics	Stats	Recovered Bullet
T223D *TRU 223 - 40 Gr. HP*		Bullet Weight: 40 Gr. Velocity: 3270 FPS Penetration: 5.75" Expansion: .355" Retained Wt: 9.4 Percent Wt. Retained: 23.50%	
T223A *TRU 223 - 55 Gr. SP*		Bullet Weight: 55 Gr. Velocity: 2774 FPS Penetration: 7.75" Expansion: .523" Retained Wt: 50.6 Percent Wt. Retained: 92.00%	
T223E *TRU 223 - 55 Gr. BTHP*		Bullet Weight: 55 Gr. Velocity: 2815 FPS Penetration: 11.25" Expansion: .3955" Retained Wt: 16.8 Percent Wt. Retained: 30.55%	
T223F *TRU 223 - 55 Gr. Ballistic Tip*		Bullet Weight: 55 Gr. Velocity: 2845 FPS Penetration: 11.50" Expansion: .227" Retained Wt: 10.0 Percent Wt. Retained: 18.18%	
T223L *TRU 223 - 64 Gr. SP*		Bullet Weight: 64 Gr. Velocity: 2646 FPS Penetration: 12.00" Expansion: .4935" Retained Wt: 44.1 Percent Wt. Retained: 68.91%	
AE223 *American Eagle 223 - 55 Gr. FMJ*		Bullet Weight: 55 Gr. Velocity: 2869 FPS Penetration: 14.50" Expansion: .211" Retained Wt: 19.8 Percent Wt. Retained: 36.00%	
LE223T1 *TACTICAL 223 - 55 Gr. BSP*		Bullet Weight: 55 Gr. Velocity: 2705 FPS Penetration: 14.75" Expansion: .469" Retained Wt: 55.0 Percent Wt. Retained: 100.00%	
LE223T3 *TACTICAL 223 - 62 Gr. BSP*		Bullet Weight: 62 Gr. Velocity: 2716 FPS Penetration: 16.00" Expansion: .4955" Retained Wt: 60.9 Percent Wt. Retained: 98.23%	

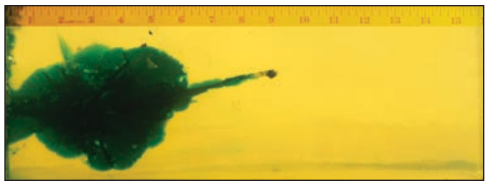
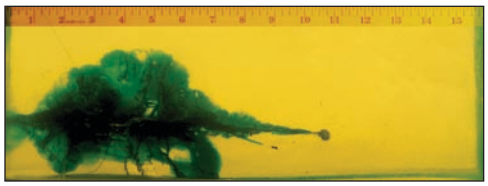
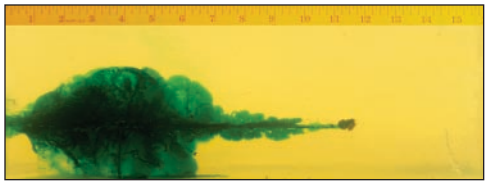
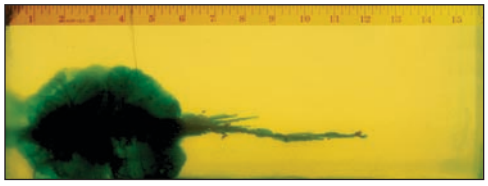
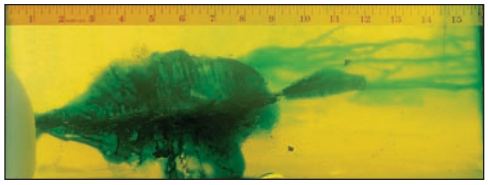
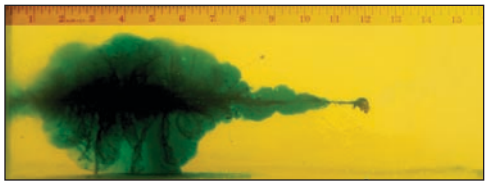
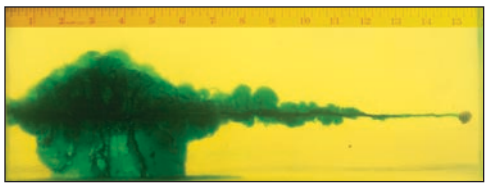
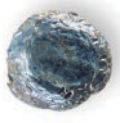
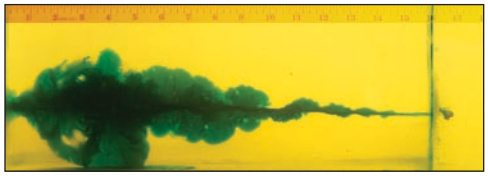
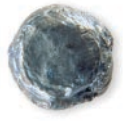
Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.

223 REM 5.56 NATO

Heavy Clothing

FEDERAL

Firearm: Colt M4 Barrel: 14.5" Twist Rate 1x7" Range: 10 Yards

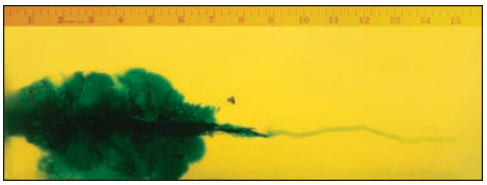
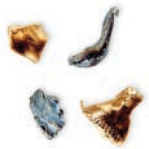
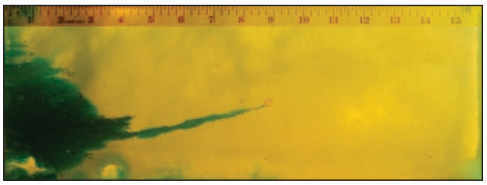
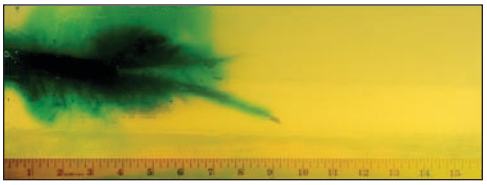
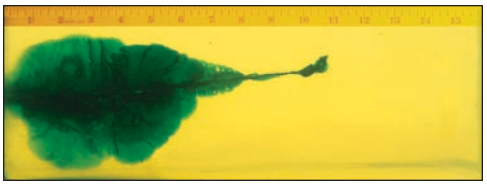
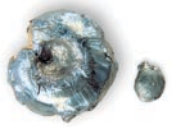
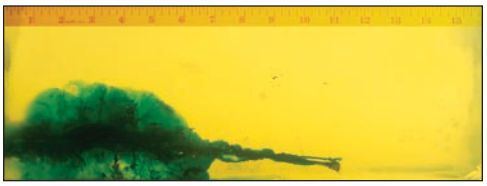
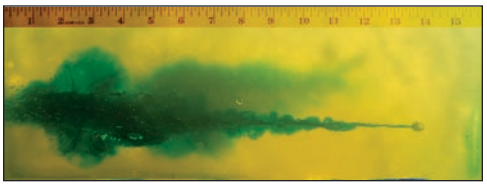
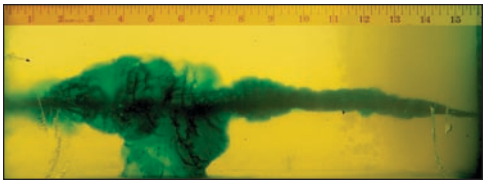
Caliber	Wound Characteristics	Stats	Recovered Bullet
T223D *TRU 223 - 40 Gr. HP*		Bullet Weight: 40 Gr. Velocity: 3270 FPS Penetration: 9.00" Expansion: .32" Retained Wt: 12.7 Percent Wt. Retained: 31.75%	
T223E *TRU 223 - 55 Gr. BTHP*		Bullet Weight: 55 Gr. Velocity: 2815 FPS Penetration: 11.00" Expansion: .3865" Retained Wt: 23.6 Percent Wt. Retained: 42.91%	
T223A *TRU 223 - 55 Gr. SP*		Bullet Weight: 55 Gr. Velocity: 2774 FPS Penetration: 11.50" Expansion: .4785" Retained Wt: 46.4 Percent Wt. Retained: 84.36%	
T223F *TRU 223 - 55 Gr. Ballistic Tip*		Bullet Weight: 55 Gr. Velocity: 2845 FPS Penetration: 12.00" Expansion: .223" Retained Wt: 10.3 Percent Wt. Retained: 18.73%	
AE223 *American Eagle 223 - 55 Gr. FMJ*		Bullet Weight: 55 Gr. Velocity: 2869 FPS Penetration: 12.25" Expansion: .2325" Retained Wt: 44.3 Percent Wt. Retained: 80.55%	
T223L *TRU 223 - 64 Gr. SP*		Bullet Weight: 64 Gr. Velocity: 2646 FPS Penetration: 12.25" Expansion: .5115" Retained Wt: 48.10 Percent Wt. Retained: 75.16%	
LE223T1 *TACTICAL 223 - 55 Gr. BSP*		Bullet Weight: 55 Gr. Velocity: 2705 FPS Penetration: 15.50" Expansion: .461" Retained Wt: 55.0 Percent Wt. Retained: 100.00%	
LE223T3 *TACTICAL 223 - 62 Gr. BSP*		Bullet Weight: 62 Gr. Velocity: 2716 FPS Penetration: 17.00" Expansion: .448" Retained Wt: 62.0 Percent Wt. Retained: 100.00%	

Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.

223 REM 5.56 NATO
Steel

FEDERAL

Firearm: Colt M4 | Barrel: 14.5" | Twist Rate 1x7" | Range: 10 Yards

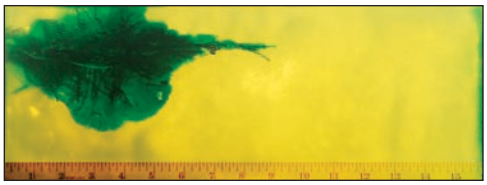
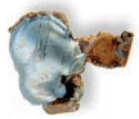
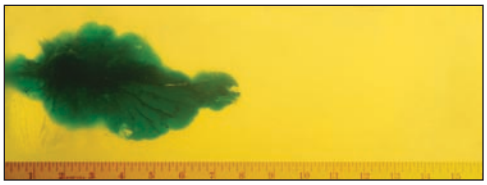
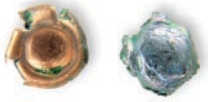
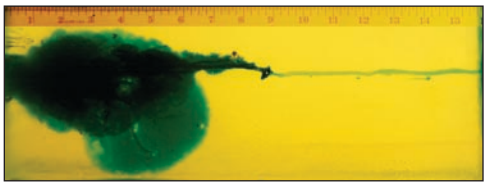
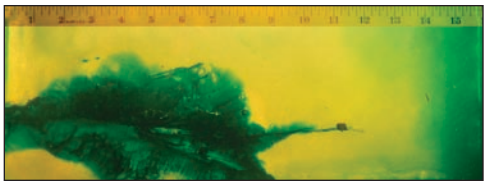
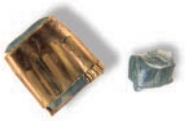
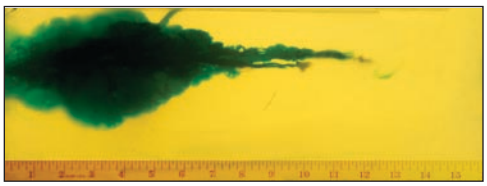
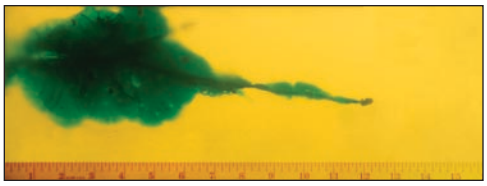
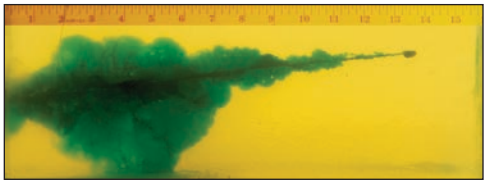
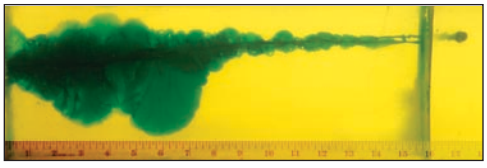
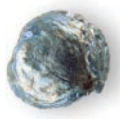
Caliber	Wound Characteristics	Stats	Recovered Bullet
T223D *TRU 223 - 40 Gr. HP*		Bullet Weight: 40 Gr. Velocity: 3270 FPS Penetration: 6.25" Expansion: .385" Retained Wt: 14.4 Percent Wt. Retained: 36.00%	
T223E *TRU 223 - 55 Gr. BTHP*		Bullet Weight: 55 Gr. Velocity: 2815 FPS Penetration: 9.00" Expansion: .2585" Retained Wt: 5.2 Percent Wt. Retained: 9.45%	
T223F *TRU 223 - 55 Gr. Ballistic Tip*		Bullet Weight: 55 Gr. Velocity: 2845 FPS Penetration: 9.00" Expansion: .273" Retained Wt: 11.0 Percent Wt. Retained: 20.00%	
T223A *TRU 223 - 55 Gr. SP*		Bullet Weight: 55 Gr. Velocity: 2774 FPS Penetration: 9.50" Expansion: .365" Retained Wt: 25.9 Percent Wt. Retained: 47.09%	
LE223T1 *TACTICAL 223 - 55 Gr. BSP*		Bullet Weight: 55 Gr. Velocity: 2705 FPS Penetration: 10.75" Expansion: .4715" Retained Wt: 44.1 Percent Wt. Retained: 80.18%	
T223L *TRU 223 -64 Gr. SP*		Bullet Weight: 64 Gr. Velocity: 2646 FPS Penetration: 11.25" Expansion: .368" Retained Wt: 27.2 Percent Wt. Retained: 42.50%	
LE223T3 *TACTICAL 223 - 62 Gr. BSP*		Bullet Weight: 62 Gr. Velocity: 2716 FPS Penetration: 14.25" Expansion: .4365" Retained Wt: 54.4 Percent Wt. Retained: 87.74%	
AE223 *American Eagle 223 - 55 Gr. FMJ*		Bullet Weight: 55 Gr. Velocity: 2869 FPS Penetration: 16.00" Expansion: .2335" Retained Wt: 54.1 Percent Wt. Retained: 98.36%	

Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.

223 REM 5.56 NATO
Wallboard

FEDERAL

Firearm: Colt M4 | Barrel: 14.5" | Twist Rate 1x7" | Range: 10 Yards

Caliber	*Wound Characteristics*	*Stats*	*Recovered Bullet*
T223A ***TRU 223 - 55 Gr. SP*** 		Bullet Weight: 55 Gr. Velocity: 2774 FPS Penetration: 7.25" Expansion: .4685" Retained Wt: 31.5 Percent Wt. Retained: 57.27%	
T223D ***TRU 223 - 40 Gr. HP*** 		Bullet Weight: 40 Gr. Velocity: 3270 FPS Penetration: 7.25" Expansion: .347" Retained Wt: 4.7 Percent Wt. Retained: 11.75%	
T223F ***TRU 223 - 55 Gr. Ballistic Tip*** 		Bullet Weight: 55 Gr. Velocity: 2845 FPS Penetration: 8.5" Expansion: .2605" Retained Wt: 11.8 Percent Wt. Retained: 21.45%	
AE223 ***American Eagle 223 - 55 Gr. FMJ*** 		Bullet Weight: 55 Gr. Velocity: 2869 FPS Penetration: 11.25" Expansion: .2155" Retained Wt: 20.2 Percent Wt. Retained: 36.73%	
T223L ***TRU 223 - 64 Gr. SP*** 		Bullet Weight: 64 Gr. Velocity: 2646 FPS Penetration: 12.25" Expansion: .376" Retained Wt: 20.0 Percent Wt. Retained: 31.25%	
T223E ***TRU 223 - 55 Gr. BTHP*** 		Bullet Weight: 55 Gr. Velocity: 2815 FPS Penetration: 12.5" Expansion: .422" Retained Wt: 21.0 Percent Wt. Retained: 38.18%	
LE223T1 ***TACTICAL 223 - 55 Gr. BSP*** 		Bullet Weight: 55 Gr. Velocity: 2705 FPS Penetration: 14.00" Expansion: .4645" Retained Wt: 53.7 Percent Wt. Retained: 97.64%	
LE223T3 ***TACTICAL 223 - 62 Gr. BSP*** 		Bullet Weight: 62 Gr. Velocity: 2716 FPS Penetration: 17.75" Expansion: .4205" Retained Wt: 62.0 Percent Wt. Retained: 100.00%	

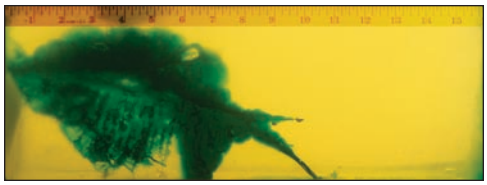
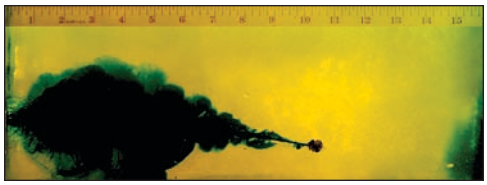
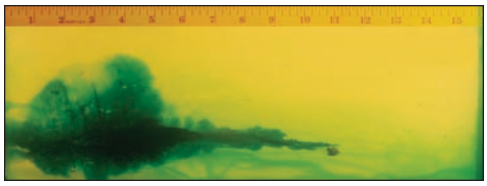
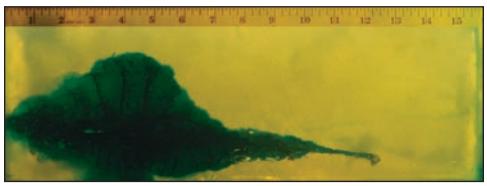
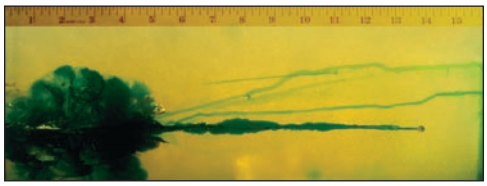
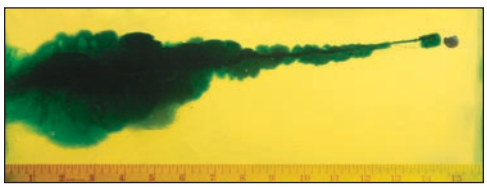
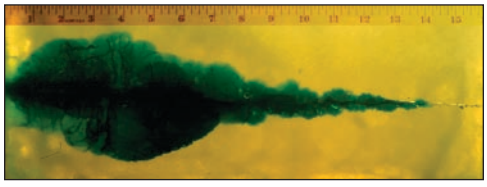
Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.

223 REM 5.56 NATO

Plywood

FEDERAL

Firearm: Colt M4 Barrel: 14.5" Twist Rate 1x7" Range: 10 Yards

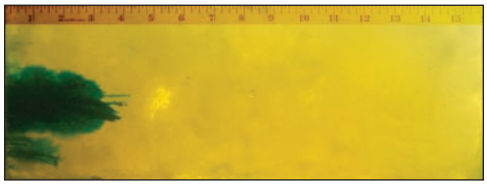
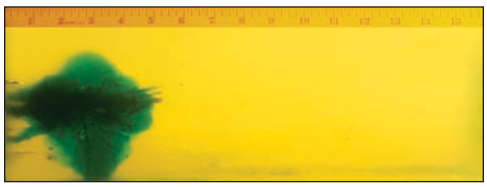
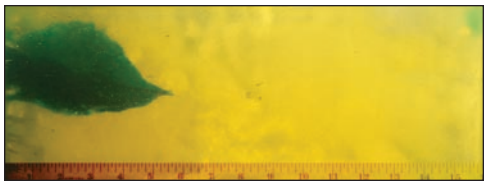
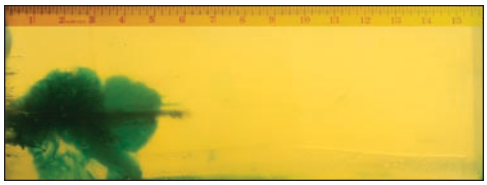
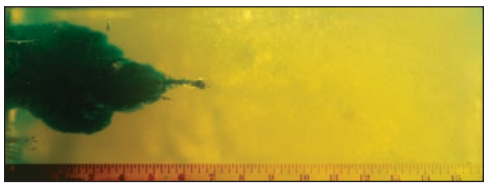
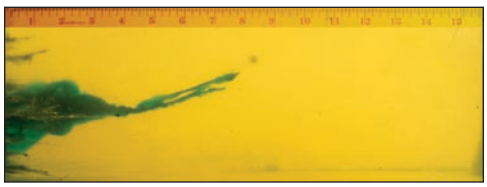
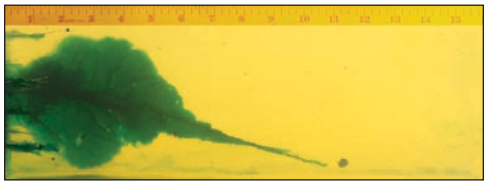
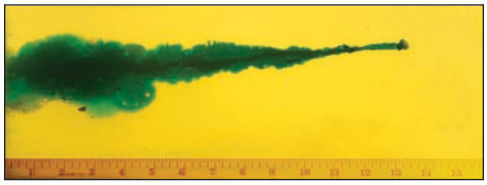
Caliber	*Wound Characteristics*	*Stats*	*Recovered Bullet*
T223D ***TRU 223 - 40 Gr. HP*** 		Bullet Weight: 40 Gr. Velocity: 3270 FPS Penetration: 6.50" Expansion: .3685" Retained Wt: 10.5 Percent Wt. Retained: 26.25%	
AE223 ***American Eagle 223 - 55 Gr. FMJ*** 		Bullet Weight: 55 Gr. Velocity: 2869 FPS Penetration: 10.00" Expansion: .233" Retained Wt: 45.3 Percent Wt. Retained: 82.36%	
T223A ***TRU 223 - 55 Gr. SP*** 		Bullet Weight: 55 Gr. Velocity: 2774 FPS Penetration: 10.50" Expansion: .4305" Retained Wt: 10.2 Percent Wt. Retained: 73.09%	
T223E ***TRU 223 - 55 Gr. BTHP*** 		Bullet Weight: 55 Gr. Velocity: 2815 FPS Penetration: 11.25" Expansion: .41" Retained Wt: 30.9 Percent Wt. Retained: 56.18%	
T223L ***TRU 223 - 64 Gr. SP*** 		Bullet Weight: 64 Gr. Velocity: 2646 FPS Penetration: 12.25" Expansion: .425" Retained Wt: 45.9 Percent Wt. Retained: 71.72%	
T223F ***TRU 223 - 55 Gr. Ballistic Tip*** 		Bullet Weight: 55 Gr. Velocity: 2845 FPS Penetration: 13.75" Expansion: .223" Retained Wt: 9.6 Percent Wt. Retained: 17.45%	
LE223T1 ***TACTICAL 223 -55 Gr. BSP*** 		Bullet Weight: 55 Gr. Velocity: 2705 FPS Penetration: 15.00" Expansion: .4585" Retained Wt: 55.0 Percent Wt. Retained: 100.00%	
LE223T3 ***TACTICAL 223 - 62 Gr. BSP*** 		Bullet Weight: 62 Gr. Velocity: 2716 FPS Penetration: 17.50" Expansion: .4295" Retained Wt: 60.6 Percent Wt. Retained: 97.74%	

Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.

223 REM 5.56 NATO
Glass

FEDERAL®

Firearm: Colt M4 Barrel: 14.5" Twist Rate 1x7" Range: 10 Yards

Caliber	*Wound Characteristics*	*Stats*	*Recovered Bullet*
T223D ***TRU 223 - 40 Gr. HP*** 		Bullet Weight: 40 Gr. Velocity: 3270 FPS Penetration: 1.50" Expansion: .0" Retained Wt: 0.0 Percent Wt. Retained: 0.00%	
T223A ***TRU 223 -55 Gr. SP*** 		Bullet Weight: 55 Gr. Velocity: 2774 FPS Penetration: 2.25" Expansion: .0" Retained Wt: 0 Percent Wt. Retained: 0.00%	
AE223 ***American Eagle 223 - 55 Gr. FMJ*** 		Bullet Weight: 55 Gr. Velocity: 2869 FPS Penetration: 3.25" Expansion: .359" Retained Wt: 15.2 Percent Wt. Retained: 27.64%	
T223E ***TRU 223 - 55 Gr. BTHP*** 		Bullet Weight: 55 Gr. Velocity: 2815 FPS Penetration: 6.25" Expansion: .4" Retained Wt: 19.2 Percent Wt. Retained: 34.91%	
T223L ***TRU 223 - 64 Gr. SP*** 		Bullet Weight: 64 Gr. Velocity: 2646 FPS Penetration: 6.5" Expansion: .406" Retained Wt: 22.0 Percent Wt. Retained: 34.38%	
T223F ***TRU 223 55 Gr. Ballistic Tip*** 		Bullet Weight: 55 Gr. Velocity: 2845 FPS Penetration: 8.25" Expansion: .223" Retained Wt: 9.8 Percent Wt. Retained: 17.82%	
LE223T1 ***TACTICAL 223 - 55 Gr. BSP*** 		Bullet Weight: 55 Gr. Velocity: 2705 FPS Penetration: 11.5" Expansion: .3555" Retained Wt: 27.6 Percent Wt. Retained: 50.18%	
LE223T3 ***TACTICAL 223 - 62 Gr. BSP*** 		Bullet Weight: 62 Gr. Velocity: 2716 FPS Penetration: 13.50" Expansion: .354" Retained Wt: 33.7 Percent Wt. Retained: 54.35%	

Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.