

LAW ENFORCEMENT
RIFLE DATA BOOK



PROTOCOL PROVEN



The FBI provided the **science** and the **protocol**. Federal and Speer follow it from product concept to completion, engineering to production, and presentation to performance. We take FBI protocol testing **seriously** and follow it **stringently** because we are **committed** to law enforcement and **devoted** to providing them the best ammunition to keep their communities safe.

We **calibrate** gel, **measure** expansion and **follow the protocol** to the letter. We involve officers and agencies in testing during our Wound Ballistic Workshops, giving them a hands-on role in testing and recording performance.

The results speak for themselves: **Technologically advanced** products designed specifically for **law enforcement** that meet and **exceed** FBI protocol requirements.







Please contact your Vista Outdoor LE Distributor or find your Regional Vista Outdoor LE Specialist at le.vistaoutdoor.com.



Feel **confident** in any situation and **every day** you are on the street.







BARE GELATIN

FEDERAL PREMIUM® LAW ENFORGEMENT

SPEER® LAW ENFORCEMENT

| Caliber | Wound Characteristics | Stats | | Recovered Bullet |
|---|--|----------------------|----------|------------------|
| T223E | | Velocity | 2815 | |
| Tactical® Tru® 223-55 Gr. | A. W. | Penetration | 11.25" | |
| Sierra® BTHP | and the same | Expansion | .3955" | |
| | | Retained Wt. | 16.8 Gr. | ~ |
| | · · · · · · · · · · · · · · · · · · · | Percent Wt. Retained | 30.55% | • |
| LE223T1 | | Velocity | 2705 | |
| Tactical® Bonded 223-55 Gr. | - Children Connection | Penetration | 14.75" | |
| Bonded Soft Point | | Expansion | .469" | |
| | | Retained Wt. | 55 Gr. | |
| | · A STATE OF STATE OF THE PARTY | Percent Wt. Retained | 100% | |
| LE223T3 | | Velocity | 2716 | |
| Tactical® Bonded 223-62 Gr. | (A) | Penetration | 16" | |
| Bonded Soft Point | AND DESCRIPTION OF THE PARTY OF | Expansion | .4955" | |
| | | Retained Wt. | 60.9 Gr. | |
| | | Percent Wt. Retained | 98.23% | |
| 24446 | PROGRAMME AND ADDRESS OF THE PROGRAMME. | Velocity | 3013 | |
| Gold Dot® 223-55 Gr. | | Penetration | 14" | |
| Bonded Soft Point | | Expansion | .488" | |
| | | Retained Wt. | 43.6 Gr. | |
| | And the state of t | Percent Wt. Retained | 79.27% | |
| 24475 | | Velocity | 2502 | |
| Gold Dot® 223-75 Gr. | AND THE RESERVE OF THE PARTY OF | Penetration | 17.5" | |
| Bonded Soft Point | | Expansion | .544 | VIII T |
| | | Retained Wt. | 74.8 Gr. | |
| | OF THE RESERVE OF THE PROPERTY | Percent Wt. Retained | 99.73% | |
| 24445SP | | Velocity | 2692 | |
| Gold Dot® 223-62 Gr. | | Penetration | 19" | |
| Bonded Soft Point | The second second | Expansion | .347 | |
| 100000000000000000000000000000000000000 | | Retained Wt. | 36 Gr. | |
| | | Percent Wt. Retained | 56.25% | |

Firearm: AR-15
Barrel: 16 inches
Twist Rate: 1:7 inches
Range: 10 yards

Wound Characteristics Caliber Stats **Recovered Bullet** T223E Velocity 2815 Tactical® Tru® 223-55 Gr. Penetration 11" Sierra® BTHP .3865" Expansion Retained Wt. 23.6 Gr. Percent Wt. Retained | 42.91% LE223T1 2705 Velocity Tactical® Bonded 223-55 Gr. 15.5" Penetration Bonded Soft Point Expansion .461" 55 Gr. Retained Wt. Percent Wt. Retained | 100% LE223T3 Velocity 2716 Tactical® Bonded 223-62 Gr. 17" Penetration Bonded Soft Point .448" Expansion Retained Wt. 62 Gr. Percent Wt. Retained 100% 24446 Velocity 3013 Gold Dot® 223-55 Gr. Penetration 14.75" Bonded Soft Point .591" Expansion Retained Wt. 55 Gr. Percent Wt. Retained 100% 24475 2530 Velocity Gold Dot® 223-75 Gr. 16.75" Penetration Bonded Soft Point Expansion .577" Retained Wt. 72.8 Gr. Percent Wt. Retained 97.07% 2692 Velocity Gold Dot® 223-62 Gr. 14.75" Penetration Bonded Soft Point .6905 Expansion 62 Gr. Retained Wt. Percent Wt. Retained 100%

Expansion, retained weight and percentage retained weight are based on the largest available bullet fragment.

Velocity are based on 5 round averages from the test rifle.





HEAVY CLOTHING

STEEL

Firearm: AR-15

Barrel: 16 inches **Twist Rate:** 1:7 inches **Range:** 10 yards

| Caliber | Wound Characteristics | Stats | | Recovered Bullet |
|-----------------------------|--|----------------------|----------|------------------|
| T223E | | Velocity | 2815 | |
| Tactical® Tru® 223-55 Gr. | 448.50 | Penetration | 9" | S J |
| Sierra® BTHP | | Expansion | .2585" | the sales |
| | | Retained Wt. | 5.2 Gr. | A |
| | · Francisco de la companya del companya del companya de la company | Percent Wt. Retained | 9.45% | |
| LE223T1 | | Velocity | 2705 | |
| Tactical® Bonded 223-55 Gr. | A CONTRACTOR OF THE PARTY OF TH | Penetration | 10.75" | |
| Bonded Soft Point | | Expansion | .4715" | |
| | 300 m | Retained Wt. | 44.1 Gr. | |
| | A CONTRACTOR OF THE STATE OF | Percent Wt. Retained | 80.18% | - |
| LE223T3 | | Velocity | 2716 | |
| Tactical® Bonded 223-62 Gr. | A CONTRACTOR OF THE PARTY OF TH | Penetration | 14.25" | |
| Bonded Soft Point | The state of the s | Expansion | .4365" | |
| | | Retained Wt. | 54.4 Gr. | |
| | Andria Sala Sala Sala Barra Barra | Percent Wt. Retained | 87.74% | - |
| 24446 | | Velocity | 3013 | |
| Gold Dot® 223-55 Gr. | | Penetration | 11.25" | |
| Bonded Soft Point | ALL DO CO. | Expansion | .441" | |
| | | Retained Wt. | 25.2 Gr. | |
| | Andrea Sala Sala Sala W. W. P. P. W. R. | Percent Wt. Retained | 45.82% | |
| 24475 | | Velocity | 2502 | |
| Gold Dot® 223-75 Gr. | Marine Control of the | Penetration | 12.25" | |
| Bonded Soft Point | | Expansion | .227 | |
| | | Retained Wt. | 74.7 Gr. | |
| | | Percent Wt. Retained | 99.60% | |
| 24445SP | | Velocity | 2692 | |
| Gold Dot® 223-62 Gr. | | Penetration | 11.5" | |
| Bonded Soft Point | | Expansion | .325 | |
| | | Retained Wt. | 31.3 Gr | |
| | And the state of t | Percent Wt. Retained | 48.91% | |

| Caliber | Wound Characteristics | Stats | | Recovered Bulle |
|--|--|----------------------|----------|-----------------|
| T223E | | Velocity | 2815 | |
| Tactical® Tru® 223-55 Gr. | | Penetration | 12.5" | |
| Sierra® BTHP | The same of the sa | Expansion | .422" | © |
| | - | Retained Wt. | 21 Gr. | |
| | • Company of the comp | Percent Wt. Retained | 38.18% | · · · · · · |
| LE223T1 | Application of the second | Velocity | 2705 | |
| Tactical® Bonded 223-55 Gr. | | Penetration | 14" | |
| Bonded Soft Point | | Expansion | .4645" | |
| | 400 | Retained Wt. | 53.7 Gr. | |
| | Samuel Carlotte and a mark a | Percent Wt. Retained | 97.64% | - |
| LE223T3 | | Velocity | 2716 | |
| Tactical® Bonded 223-62 Gr. | AND THE PERSON NAMED IN | Penetration | 17.75" | |
| Bonded Soft Point | | Expansion | .4205" | |
| | | Retained Wt. | 62 Gr. | |
| | • | Percent Wt. Retained | 100% | |
| 24446 | | Velocity | 3013 | |
| Gold Dot® 223-55 Gr. | | Penetration | 14" | |
| Bonded Soft Point | | Expansion | .505" | |
| | | Retained Wt. | 42.4 Gr. | |
| | • 1 2 15 15 15 15 15 15 15 15 15 15 15 15 15 | Percent Wt. Retained | 77.09% | |
| 24475 | and the second s | Velocity | 2521 | |
| Gold Dot® 223-75 Gr. | and the same of th | Penetration | 16" | |
| Bonded Soft Point | | Expansion | .44" | |
| | | Retained Wt. | 70.1 Gr. | |
| | | Percent Wt. Retained | 93.47% | |
| 24445SP | - | Velocity | 2692 | |
| Gold Dot® 223-62 Gr. | | Penetration | 19.5" | 9 |
| Bonded Soft Point | | Expansion | .468 | |
| | | Retained Wt. | 49 Gr | 6 |
| A STATE OF THE PARTY OF THE PAR | To the state of th | | | |

Expansion, retained weight and percentage retained weight are based on the largest available bullet fragment.

Velocity are based on 5 round averages from the test rifle.

Percent Wt. Retained 76.56%





Firearm: AR-15 Barrel: 16 inches Twist Rate: 1:7 inches

| Caliber | Wound Characteristics | Stats | | Recovered Bullet |
|-----------------------------|--|----------------------|--------------|------------------|
| T223E | | Velocity | 2815 | |
| Tactical® Tru® 223-55 Gr. | - ALA | Penetration | 11.25" | 1 |
| Sierra® BTHP | A CONTRACTOR OF THE PARTY OF TH | Expansion | .41" | |
| | | Retained Wt. | 30.9 Gr. | |
| (1) | · F · · · · · · · · · · · · · · · · · · | Percent Wt. Retained | 56.18% | |
| LE223T1 | | Velocity | 2705 | |
| Tactical® Bonded 223-55 Gr. | The state of the s | Penetration | 15" | |
| Bonded Soft Point | and the last of th | Expansion | .4585" | |
| | | Retained Wt. | 55 Gr. | |
| | The state of the s | Percent Wt. Retained | 100% | |
| LE223T3 | - marifiles | Velocity | 2716 | |
| Tactical® Bonded 223-62 Gr. | | Penetration | 17.5" | |
| Sonded Soft Point | Expansion | .4295" | THE STATE OF | |
| | | Retained Wt. | 60.6 Gr. | |
| | Production of the Property of | Percent Wt. Retained | 97.74% | |
| 24446 | | Velocity | 3013 | |
| Gold Dot® 223-55 Gr. | The second second | Penetration | 12.5" | - |
| Bonded Soft Point | | Expansion | .527" | |
| | CONTRACTOR OF COMMERCIAL PROPERTY. | Retained Wt. | 41.8 Gr. | |
| | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | Percent Wt. Retained | 76.00% | |
| 24475 | | Velocity | 2502 | |
| Gold Dot® 223-75 Gr. | and the state of t | Penetration | 16.5" | |
| Bonded Soft Point | A STATE OF THE PARTY OF THE PAR | Expansion | .46 | |
| | | Retained Wt. | 65.6 Gr. | |
| | The state of the state of the state of | Percent Wt. Retained | 87.47% | |
| 24445SP | | Velocity | 2692 | |
| Gold Dot® 223-62 Gr. | A | Penetration | 14.5" | |
| Bonded Soft Point | A STATE OF THE PARTY OF THE PAR | Expansion | .481" | |
| | A TOTAL CONTRACTOR OF THE PARTY | Retained Wt. | 39.9 Gr. | 1 |
| | | | | |

| Caliber | Wound Characteristics | Stats | | Recovered Bulle |
|-----------------------------|--|----------------------|----------|--|
| T223E | | Velocity | 2815 | |
| Tactical® Tru® 223-55 Gr. | All Control of the Co | Penetration | 6.25" | 1000 |
| Sierra® BTHP | | Expansion | .4" | |
| | | Retained Wt. | 19.2 Gr. | |
| | The state of the s | Percent Wt. Retained | 34.91% | |
| LE223T1 | | Velocity | 2705 | |
| Tactical® Bonded 223-55 Gr. | | Penetration | 11.5" | |
| Bonded Soft Point | | Expansion | .3555" | |
| | - | Retained Wt. | 27.6 Gr. | A CONTRACTOR OF THE PARTY OF TH |
| | - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Percent Wt. Retained | 50.18% | |
| LE223T3 | | Velocity | 2716 | |
| Tactical® Bonded 223-62 Gr. | The state of the s | Penetration | 13.5" | |
| Bonded Soft Point | Expansion | .354" | | |
| | | Retained Wt. | 33.7 Gr. | |
| | · and and and and and an analysis | Percent Wt. Retained | 54.35% | |
| 24446 | | Velocity | 3013 | |
| Gold Dot® 223-55 Gr. | and the same of th | Penetration | 7.5" | |
| Bonded Soft Point | | Expansion | .344" | |
| | | Retained Wt. | 15.2 Gr. | |
| | Danger and a day to H 15 12 H 12 1 | Percent Wt. Retained | 27.64% | |
| 24475 | | Velocity | 2502 | |
| Gold Dot® 223-75 Gr. | | Penetration | 12.75" | |
| Bonded Soft Point | | Expansion | .502" | |
| | 2 | Retained Wt. | 35.6 Gr. | |
| | | Percent Wt. Retained | 47.47% | |
| 24445SP | | Velocity | 2692 | |
| Gold Dot® 223-62 Gr. | The state of the s | Penetration | 14" | |
| Bonded Soft Point | | Expansion | Fragment | |
| | | Retained Wt. | 8.7 Gr. | A STATE OF THE PARTY OF THE PAR |
| | A SECTION AND A SECTION ASSESSMENT OF THE SECTION AND A SECTION AND A SECTION ASSESSMENT | | | |

Expansion, retained weight and percentage retained weight are based on the largest available bullet fragment. Velocity are based on 5 round averages from the test rifle.

Percent Wt. Retained 13.59%





Percent Wt. Retained 62.34%

FEDERAL PREMIUM® LAW ENFORGEMENT

Percent Wt. Retained 65.12% 2493 Velocity 14.75" Penetration Expansion Fragment 127 Gr. Retained Wt. Percent Wt. Retained 72.57%

Velocity

Penetration

Retained Wt.

Percent Wt. Retained 98.57%

Percent Wt. Retained 43.75%

Expansion

Velocity

Penetration

Expansion Retained Wt.

Velocity

Penetration

Expansion

Velocity

Penetration

Expansion

Retained Wt.

Stats

20.5"

.670"

2700

22.5"

.653"

2650

14"

.649"

73.5 Gr.

2678

.7565"

18"

165.6 Gr

109.4 Gr.









| Caliber | Wound Characteristics | Stats | | Recovered Bullet |
|--|--|----------------------|-----------|------------------|
| GM308M | | Velocity | 2459 | |
| Gold Medal® 308-168 Gr. | | Penetration | 20" | |
| Sierra® MatchKing® BTHP | - | Expansion | .617" | |
| | | Retained Wt. | 84.4 Gr. | - |
| | | Percent Wt. Retained | 50.24% | |
| GM308M2 | | Velocity | 2493 | 4 |
| Gold Medal® 308-175 Gr. | and the same of th | Penetration | 23.5 | |
| Sierra® MatchKing® BTHP | | Expansion | .620 | A VES |
| The second secon | The second secon | Retained Wt. | 86.4 Gr. | |
| | • | Percent Wt. Retained | 49.37% | |
| LE308TT2 | | Velocity | 2700 | |
| Tactical® Bonded Tip® 308-168 Gr. | The same of the sa | Penetration | 21.25" | |
| Tactical Bonded Tip | The second secon | Expansion | .725" | |
| | The second secon | Retained Wt. | 165 Gr. | |
| | | Percent Wt. Retained | 98.21% | |
| T308T | | Velocity | 2650 | p. |
| Tactical® TRU® 308-168 Gr. | | Penetration | 14" | A |
| Sierra® BTHP | | Expansion | .564" | |
| | | Retained Wt. | 76.1 Gr. | |
| Ш | | Percent Wt. Retained | 45.30% | Ø. |
| 24457 | | Velocity | 2678 | |
| Gold Dot® 308-150 Gr. | The state of the s | Penetration | 17.75" | |
| Bonded Soft Point | | Expansion | .85 | |
| | The state of the s | Retained Wt. | 155 Gr. | |
| | • | Percent Wt. Retained | 100% | |
| 24458 | 31.00 | Velocity | 2542 | |
| Gold Dot® 308-168 Gr. | All all and a second a second and a second a | Penetration | 19.62" | |
| Bonded Soft Point | A SECOND STATE OF THE SECO | Expansion | .762" | 9 |
| | 1111 | Retained Wt. | 156.4 Gr. | |
| | | Percent Wt. Retained | 93.10% | |

Firearm: .308 Bolt Action Precision Rifle

Barrel: 24 inches Twist Rate: 1:10 inches Range: 50 yards

150 Gr. Retained Wt. Percent Wt. Retained 100% Velocity 2542 Gold Dot® 308-168 Gr. 22.5" Penetration Bonded Soft Point Expansion .497" 150.3 Gr. Retained Wt. Percent Wt. Retained 89.46%

Wound Characteristics

Expansion, retained weight and percentage retained weight are based on the largest available bullet fragment. Velocity are based on 5 round averages from the test rifle.



Caliber

GM308M

GM308M2

LE308TT2

Sierra® BTHP

24457

Tactical Bonded Tip

Gold Medal® 308-168 Gr.

Sierra® MatchKing® BTHP

Gold Medal® 308-175 Gr.

Sierra® MatchKing® BTHP

Tactical® Bonded Tip® 308-168 Gr.

Tactical® TRU® 308-168 Gr.

Gold Dot® 308-150 Gr.

Bonded Soft Point

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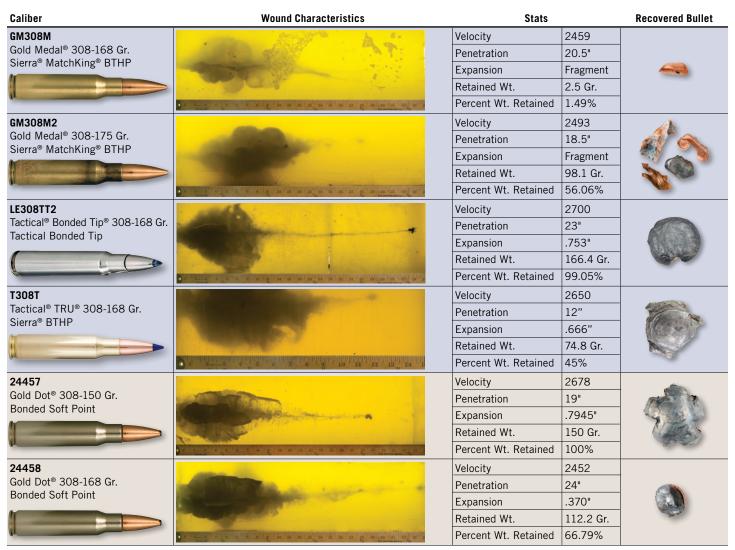
SPEER® LAW ENFORCEMENT

WALL BOARD **Recovered Bullet**

| Caliber | Wound Characteristics | Stats | | Recovered Bullet |
|-----------------------------------|--|----------------------|-----------|--|
| GM308M | | Velocity | 2459 | |
| Gold Medal® 308-168 Gr. | | Penetration | 17" | |
| Sierra® MatchKing® BTHP | The second second | Expansion | .504" | |
| | | Retained Wt. | 168.5 Gr. | A STATE OF THE STA |
| | · · · · · · · · · · · · · · · · · · · | Percent Wt. Retained | 100% | 4 |
| GM308M2 | The state of the s | Velocity | 2493 | |
| Gold Medal® 308-175 Gr. | · | Penetration | 16.25" | |
| Sierra® MatchKing® BTHP | | Expansion | .418" | |
| | La Carlo | Retained Wt. | 31.1 Gr. | No. |
| M. Colombia | • national and a manufacture of a final windows | Percent Wt. Retained | 17.77% | |
| LE308TT2 | The second secon | Velocity | 2700 | |
| Tactical® Bonded Tip® 308-168 Gr. | | Penetration | 24" | |
| Tactical Bonded Tip | | Expansion | .734" | |
| | | Retained Wt. | 165.4 Gr. | |
| | | Percent Wt. Retained | 98.45% | |
| T308T | | Velocity | 2650 | |
| Tactical® TRU® 308-168 Gr. | A STATE OF THE STA | Penetration | 13.25" | |
| Sierra® BTHP | The second secon | Expansion | .629" | |
| | | Retained Wt. | 70.8 Gr. | |
| il. | · and in the second control of the second co | Percent Wt. Retained | 42.14% | |
| 24457 | and the same of th | Velocity | 2678 | |
| Gold Dot® 308-150 Gr. | | Penetration | 19.25" | |
| Bonded Soft Point | | Expansion | .922" | |
| | | Retained Wt. | 141.3 Gr. | |
| | · Carlotte Connictor of committee | Percent Wt. Retained | 94.20% | |
| 24458 | | Velocity | 2542 | |
| Gold Dot® 308-168 Gr. | and the same | Penetration | 21.25" | |
| Bonded Soft Point | | Expansion | .478" | |
| | | Retained Wt. | 130.8 Gr. | |
| | | Percent Wt. Retained | 77.86% | |

Firearm: .308 Bolt Action Precision Rifle

Barrel: 24 inches Twist Rate: 1:10 inches Range: 50 yards



Expansion, retained weight and percentage retained weight are based on the largest available bullet fragment. Velocity are based on 5 round averages from the test rifle.



AUTO GLASS

PREMIUM® LAW ENFORCEMENT

Caliber **Wound Characteristics Recovered Bullet** Stats GM308M 2459 Velocity Gold Medal® 308-168 Gr. Penetration 15.75" Sierra® MatchKing® BTHP .965" Expansion 96.8 Gr. Retained Wt. Percent Wt. Retained 57.62% GM308M2 Velocity 2493 Gold Medal® 308-175 Gr. 15.25" Penetration Sierra® MatchKing® BTHP Expansion .629" 143.6 Gr. Retained Wt. Percent Wt. Retained 82.06% Velocity 2700 Tactical® Bonded Tip® 308-168 Gr. 24" Penetration Tactical Bonded Tip .594" Expansion 157.9 Gr. Retained Wt. Percent Wt. Retained 93.99% T308T Velocity 2650 Tactical® TRU® 308-168 Gr. Penetration 14" Sierra® BTHP .587" Expansion Retained Wt. 65.7 Gr. Percent Wt. Retained | 39.11% 2678 24457 Velocity Gold Dot® 308-150 Gr. 18.5" Penetration **Bonded Soft Point** Expansion .824" Retained Wt. 139.1 Gr. Percent Wt. Retained 92.73% 2542 Velocity Gold Dot® 308-168 Gr. 21.125" Penetration Bonded Soft Point .916" Expansion 153.4 Gr. Retained Wt.

Percent Wt. Retained 91.31%

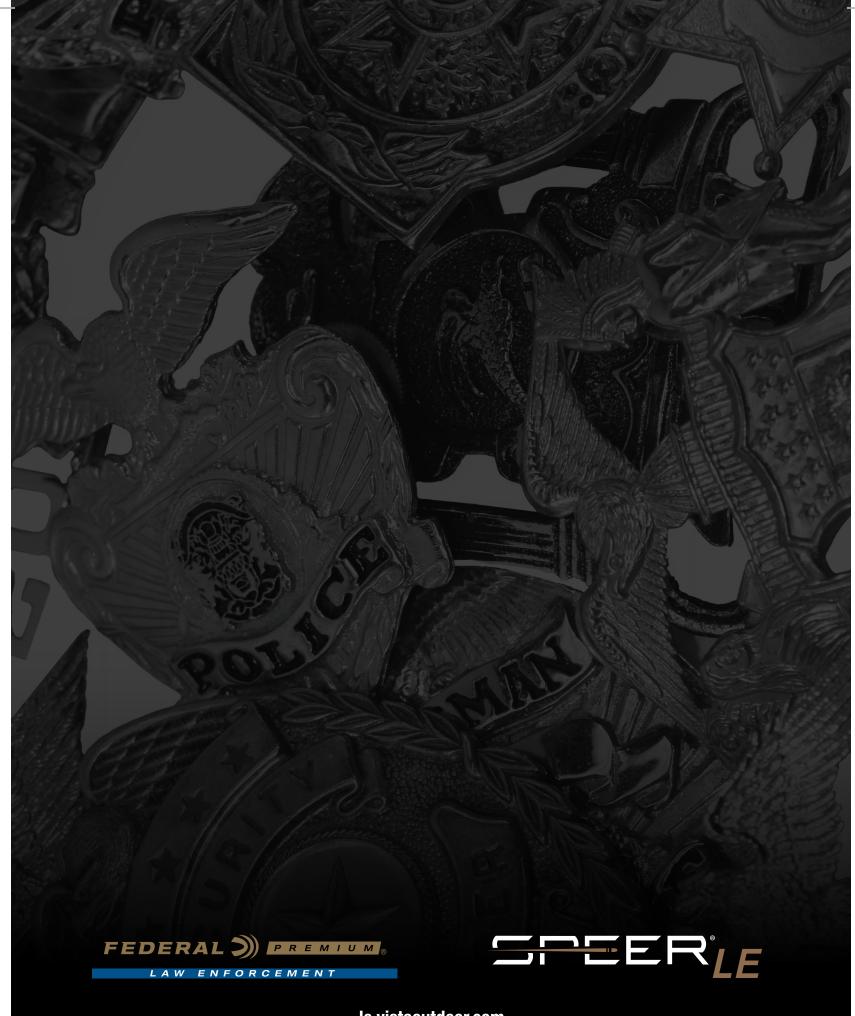
Firearm: .308 Bolt Action Precision Rifle

Barrel: 24 inches Twist Rate: 1:10 inches Range: 50 yards

Wound Characteristics Caliber Stats **Recovered Bullet** GM308M 2459 Velocity Gold Medal® 308-168 Gr. Penetration 11.875" Sierra® MatchKing® BTHP .599" Expansion 83.9 Gr. Retained Wt. Percent Wt. Retained 49.94% GM308M2 Velocity 2493 Gold Medal® 308-175 Gr. 12.625" Penetration Sierra® MatchKing® BTHP Expansion .391" Retained Wt. 22.3 Gr. Percent Wt. Retained | 12.74% LE308TT2 Velocity 2700 Tactical® Bonded Tip® 308-168 Gr. 19" Penetration Tactical Bonded Tip .579" Expansion 112 Gr. Retained Wt. Percent Wt. Retained 66.67% T308T Velocity 2650 Tactical® TRU® 308-168 Gr. Penetration 9.25" Sierra® BTHP .71" Expansion Retained Wt. 32.6 Gr. Percent Wt. Retained | 19.40% 24457 2678 Velocity Gold Dot® 308-150 Gr. 12.25" Penetration Bonded Soft Point Expansion .562" 44.6 Gr. Retained Wt. Percent Wt. Retained 29.73% 2542 Velocity Gold Dot® 308-168 Gr. 13.875" Penetration Bonded Soft Point .887" Expansion 116.9 Gr. Retained Wt. Percent Wt. Retained 69.58%

> Expansion, retained weight and percentage retained weight are based on the largest available bullet fragment. Velocity are based on 5 round averages from the test rifle.





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