

## .264 Bullet Test

The line up:



- The impact velocity was made to duplicate modern 6.5X55 loads at 100 yds.
- Expansion was measured at the widest part of the bullet. Take a look at the pictures when comparing the expansion of different bullets, sometimes a sliver of lead or copper at an odd angle can give deceptive results.
- Test rifle: Winchester Model 70 Featherweight 6.5X55 Swede
- Test media: Wet newspaper....lots of wet newspaper!!
- Disclaimer: I know wet news paper does not give identical results to flesh and bones, blah, blah, blah....

Approximate impact velocity:

90-100gr.....	2850-2900fps
120gr.....	2750-2800fps
125gr.....	2600-2700fps
129-130gr.....	2550-2600fps
140gr-142.5gr.....	2500-2550fps
156-160gr.....	2400-2500fps
168gr.....	2300-2400fps

**Sierra 85gr HP**

Average Penetration (inches): 9.0

Average Weight Retained (grain): 13.6

Average Weight Retained (%): 16

Average Expansion (inches): 0.476



**Speer 90gr TNT**

Average Penetration (inches): 10.17

Average Weight Retained (grain): 28.3

Average Weight Retained (%): 31

Average Expansion (inches): 0.549



**Hornady 95gr V-MAX**

Average Penetration (inches): 6.25

Average Weight Retained (grain): 34.1

Average Weight Retained (%): 36

Average Expansion (inches): 0.470





**Barnes 100gr X**

Average Penetration (inches): 16.67

Average Weight Retained (grain): 83

Average Weight Retained (%): 83

Average Expansion (inches): 0.423



**Nosler 120gr Ballistic Tip**

Average Penetration (inches): 10.30

Average Weight Retained (grain): 74.4

Average Weight Retained (%): 62

Average Expansion (inches): 0.643



**Barnes 120gr X**

Average Penetration (inches): 14.42

Average Weight Retained (grain): 114.5

Average Weight Retained (%): 95

Average Expansion (inches): 0.586



**Barnes 120gr TSX**

Average Penetration (inches): 13.67

Average Weight Retained (grain): 120.1

Average Weight Retained (%): 100

Average Expansion (inches): 0.592





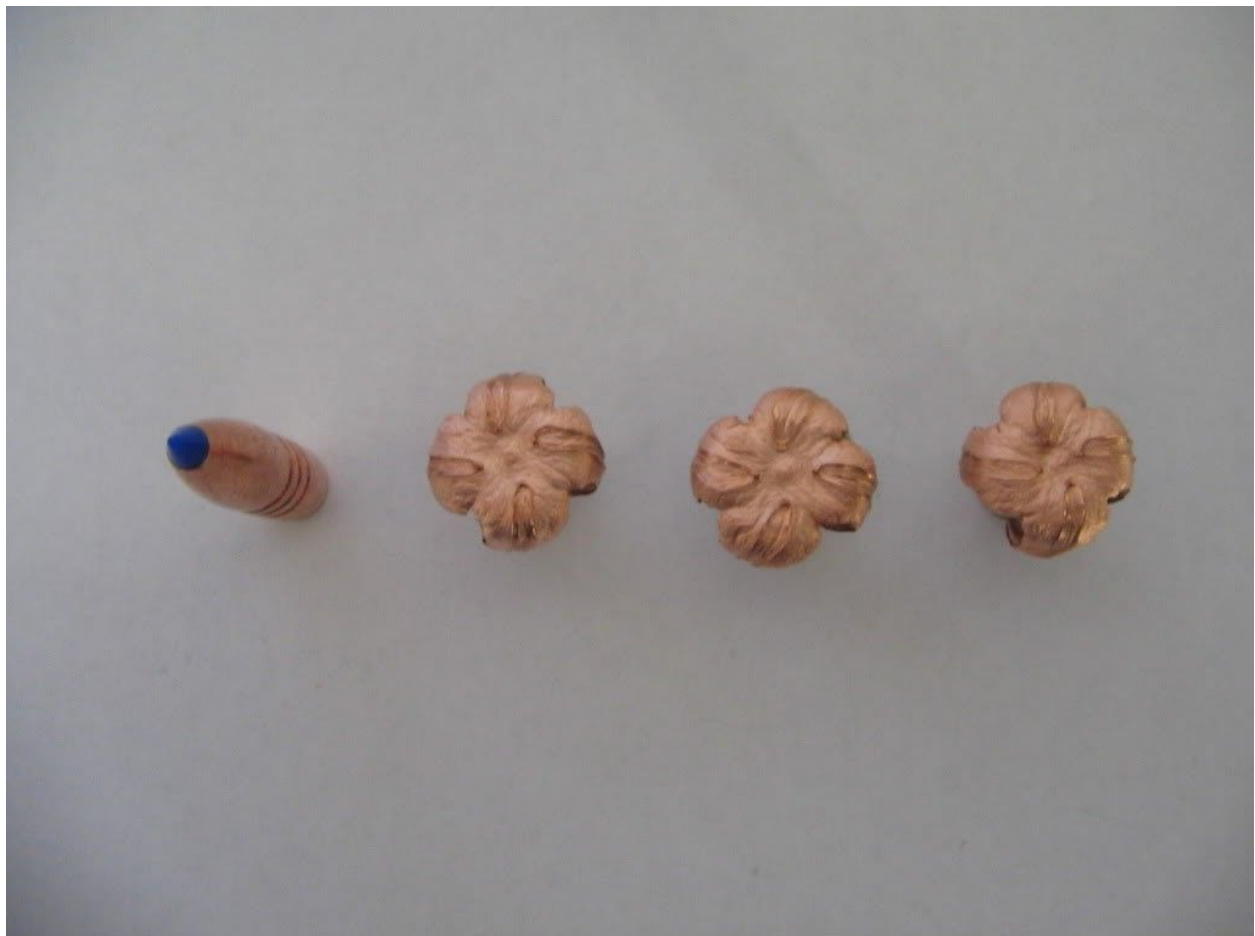
**Barnes 120gr TTSX**

Average Penetration (inches): 17.2

Average Weight Retained (grain): 119.2

Average Weight Retained (%): 99.3

Average Expansion (inches): 0.547



**Swift 120gr A-Frame**

Average Penetration (inches): 15.17

Average Weight Retained (grain): 114.53

Average Weight Retained (%): 95.4

Average Expansion (inches): 0.552



**Alberta Wildcat 120gr HP**

Average Penetration (inches): 11.17

Average Weight Retained (grain): 49.2

Average Weight Retained (%): 41

Average Expansion (inches): 0.704



**Alberta Wildcat 125gr SP**

Average Penetration (inches): 10.17

Average Weight Retained (grain): 73.3

Average Weight Retained (%): 59

Average Expansion (inches): 0.712





**Nosler 125gr Partition**

Average Penetration (inches): 15

Average Weight Retained (grain): 88.5

Average Weight Retained (%): 71

Average Expansion (inches): 0.614



**Hornady 129gr SP IL**

Average Penetration (inches): 13.08

Average Weight Retained (grain): 90.5

Average Weight Retained (%): 70

Average Expansion (inches): 0.626



**Swift 130gr Scirocco II**

Average Penetration (inches): 13.3

Average Weight Retained (grain): 124.7

Average Weight Retained (%): 98.2

Average Expansion (inches): 0.685



**Barnes 130gr TSX**

Average Penetration (inches): 18

Average Weight Retained (grain): 129.9

Average Weight Retained (%): 100

Average Expansion (inches): 0.552





**Lapua 140gr Naturalis**

Average Penetration (inches): 16.5

Average Weight Retained (grain): 136.6

Average Weight Retained (%): 98

Average Expansion (inches): 0.556



**Sierra 140gr GameKing**

Average Penetration (inches): 13

Average Weight Retained (grain): 64.3

Average Weight Retained (%): 46

Average Expansion (inches): 0.467



**Speer 140gr HotCor**

Average Penetration (inches): 13.8

Average Weight Retained (grain): 76.6

Average Weight Retained (%): 54.7

Average Expansion (inches): 0.513



**Hornady 140gr SP IL**

Average Penetration (inches): 13.75

Average Weight Retained (grain): 78.7

Average Weight Retained (%): 56

Average Expansion (inches): 0.524





**Hornady 140gr SST**

Average Penetration (inches): 13.25

Average Weight Retained (grain): 95.5

Average Weight Retained (%): 68

Average Expansion (inches): 0.695



**Hornady 140gr A-MAX**

Average Penetration (inches): 12.17

Average Weight Retained (grain): 75.9

Average Weight Retained (%): 54

Average Expansion (inches): 0.597



**Nosler 140gr Partition**

Average Penetration (inches): 15.17

Average Weight Retained (grain): 108.6

Average Weight Retained (%): 78

Average Expansion (inches): 0.629



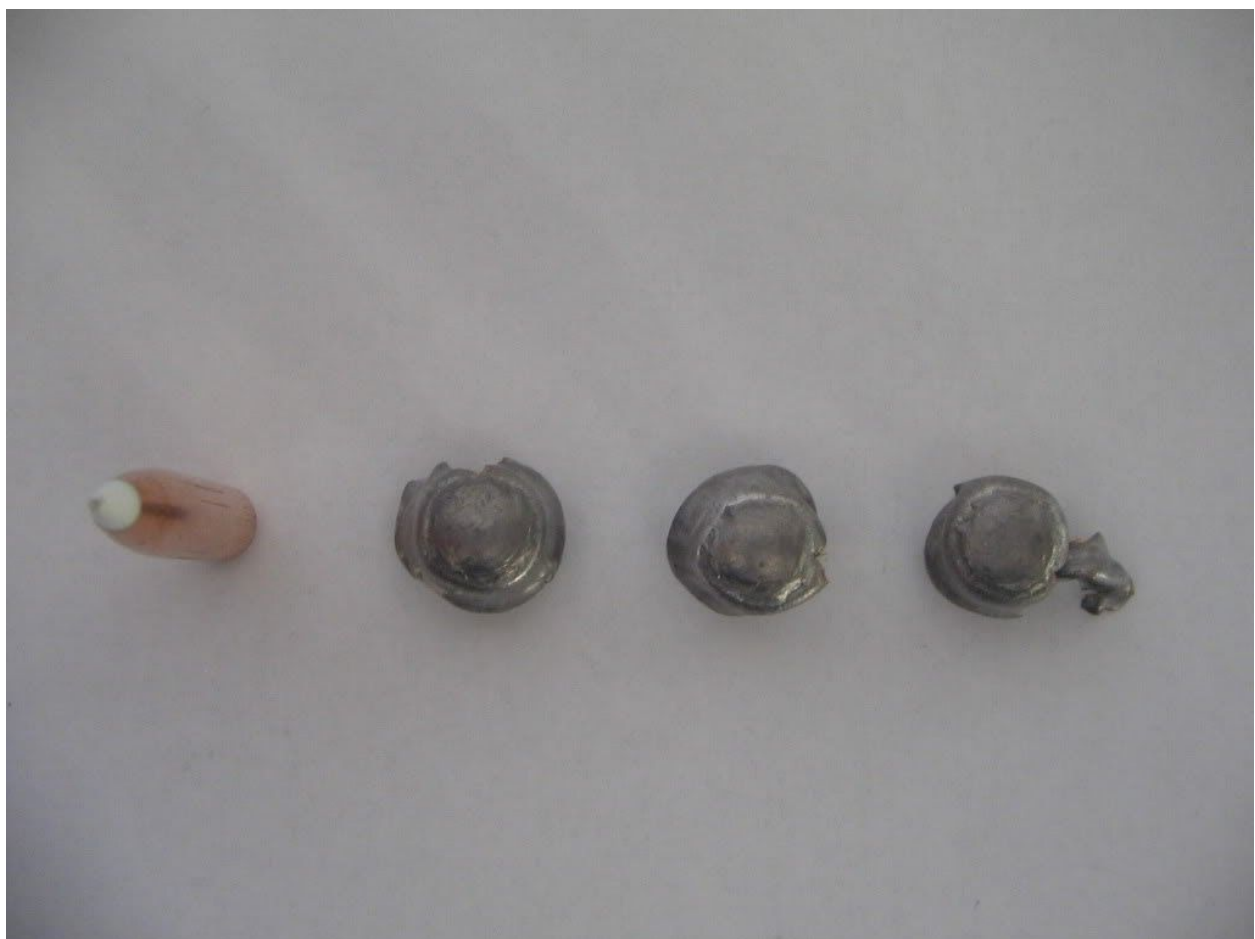
**Nosler 140gr Accubond**

Average Penetration (inches): 14.17

Average Weight Retained (grain): 89.9

Average Weight Retained (%): 64.2

Average Expansion (inches): 0.621





**Berger 140gr VLD Hunting**

Average Penetration (inches): 12.17

Average Weight Retained (grain): 50.1

Average Weight Retained (%): 36.4

Average Expansion (inches): 0.576



**Sierra 142gr Match King**

Average Penetration (inches): 14.25

Average Weight Retained (grain): 40.7

Average Weight Retained (%): 29

Average Expansion (inches): 0.445

\*\* First bullet disintegrated and not significant pieces were recovered.



**Military 142gr FMJ**

Average Penetration (inches): 14.3

Average Weight Retained (grain): 134.5

Average Weight Retained (%): 94.7

Average Expansion (inches): 0.338

\* One veered off course and exited



**Alberta Wildcat 142.5 VLD**

Average Penetration (inches): 12.17

Average Weight Retained (grain): 45.2

Average Weight Retained (%): 32

Average Expansion (inches): 0.598





**Lapua 156gr Mega**

Average Penetration (inches): 14.92

Average Weight Retained (grain): 120.9

Average Weight Retained (%): 78

Average Expansion (inches): 0.629



**Norma 156gr RN**

Average Penetration (inches): 14.67

Average Weight Retained (grain): 89.6

Average Weight Retained (%): 57

Average Expansion (inches): 0.592



**Woodleigh 160gr Weldcore**

Average Penetration (inches): 12.8

Average Weight Retained (grain): 148.9

Average Weight Retained (%): 93.1

Average Expansion (inches): 0.915



**Hornady 160gr RN IL**

Average Penetration (inches): 13.92

Average Weight Retained (grain): 117.6

Average Weight Retained (%): 74

Average Expansion (inches): 0.694





**Sierra 160gr SMP**

Average Penetration (inches): 13.17

Average Weight Retained (grain): 76.4

Average Weight Retained (%): 48

Average Expansion (inches): 0.539



**Alberta Wildcat 168gr VLD**

Average Penetration (inches): 13.17

Average Weight Retained (grain): 76.4

Average Weight Retained (%): 48

Average Expansion (inches): 0.539



**Cast 174 gr (as dropped)**

Average Penetration (inches): 24

Average Weight Retained (grain): 122.7

Average Weight Retained (%): 70.5

Average Expansion (inches): 0.360



**Cast 174 gr (water quenched)**

Average Penetration (inches): 24+

Average Weight Retained (grain): 128.8

Average Weight Retained (%): 74

Average Expansion (inches): 0.438

\*Under estimated their penetration, only recovered one.

