

.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



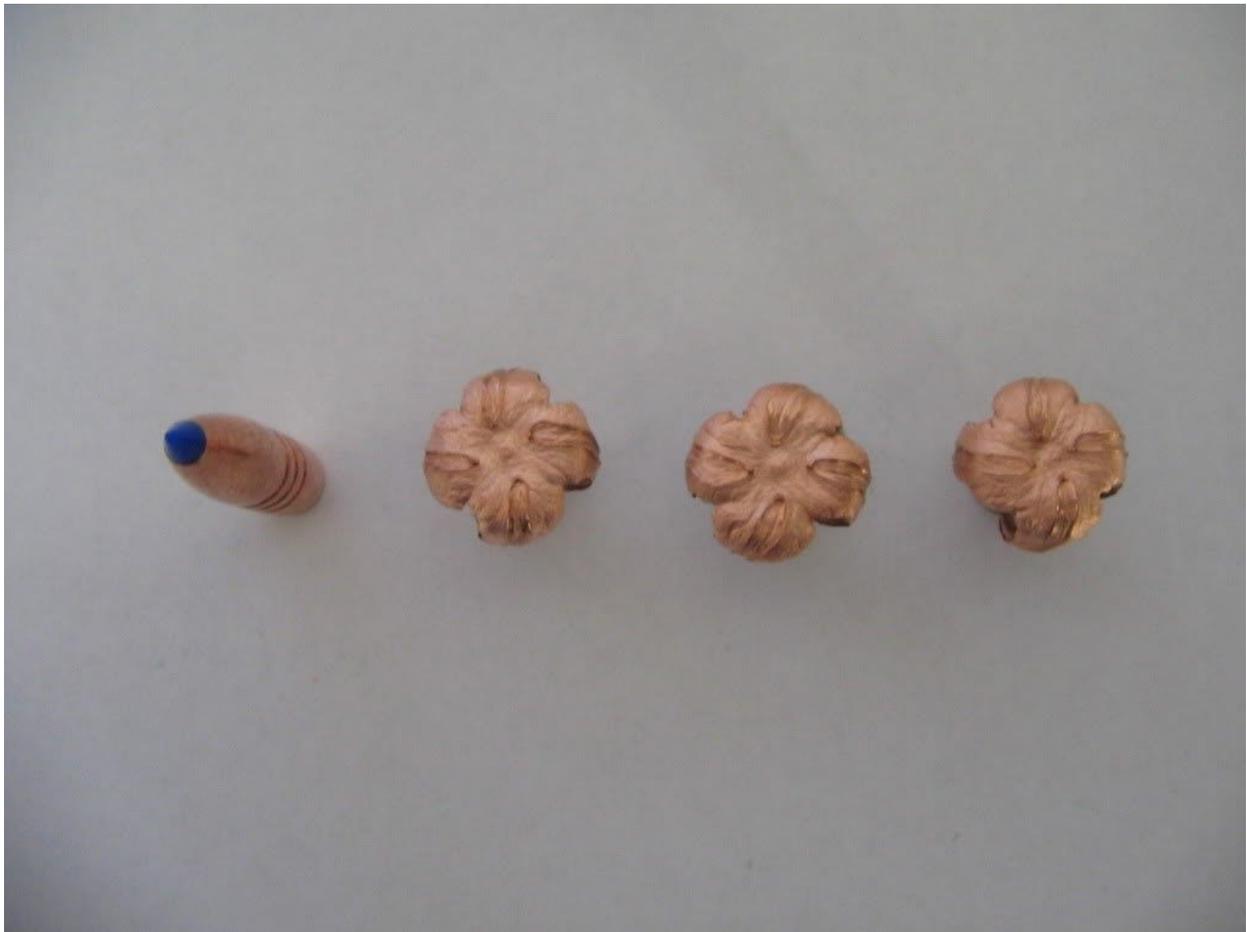
Barnes 120gr TTSX

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



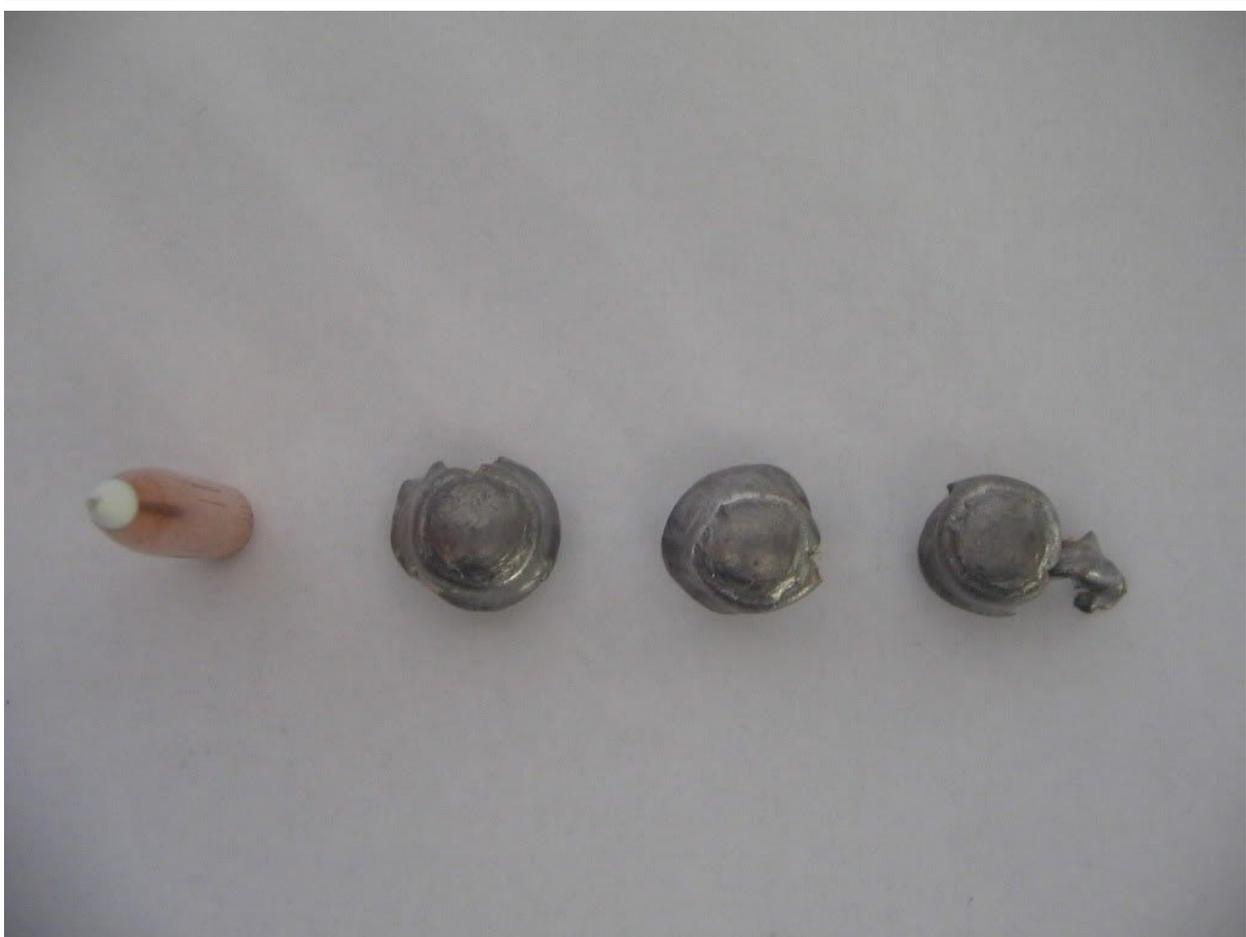
Nosler 140gr Accubond

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.

