

LEAD TASK TEAM

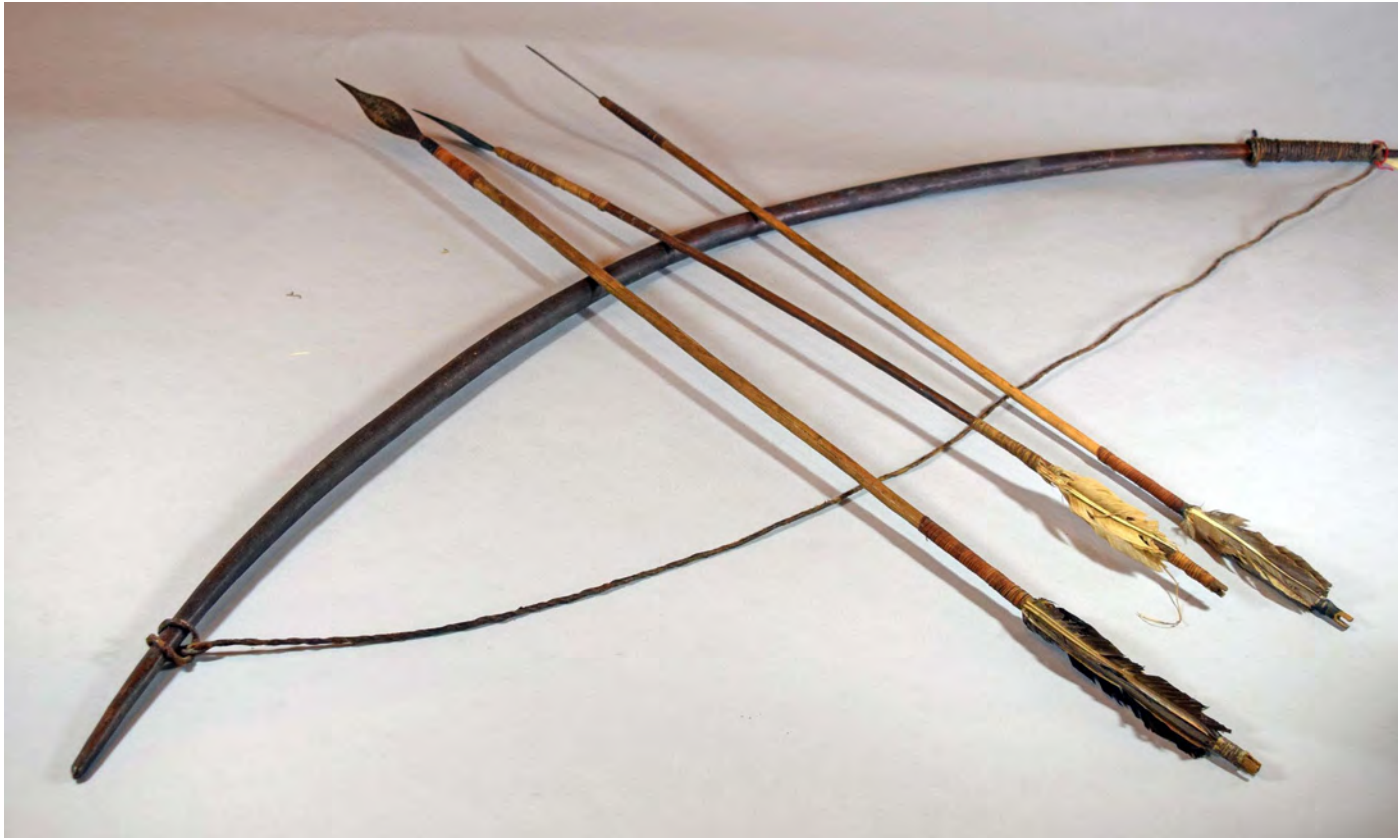
Namibia One Health Workshop



Transitioning to Lead-free Ammunition



BACK TO THE BOW



AMMUNITION - COMPONENTS

Century Gothic for titles
Calibri/ Century Gothic for text



CASE



PRIMER



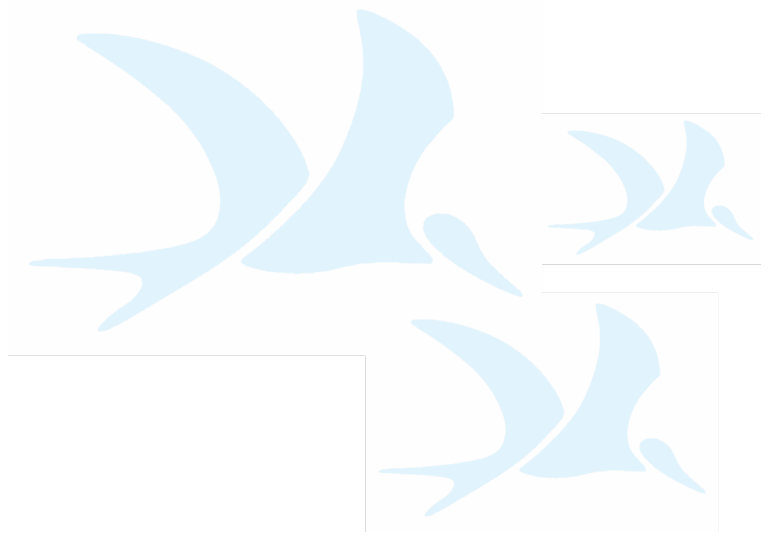
PRIMER

GUNPOWDER/PROPELLANT



BULLET

AMMUNITION – ROUND/CARTRIDGE



LEAD-FREE BULLETS

MATERIALS Copper, Brass Alloys, Zinc, Tin, Aluminium, Polymer, Nickel



Expanding



Solids



Frangible

HOW DO THEY WORK



Expanding



Solid



Fragmenting

DIFFERENCES TERMINAL BALLISTICS

- Increased Penetration
- Weight retention
- Less meat damage



Maximum expansion and weight retention on impact with target

Maximum fragmentation and deposition of material in target



- Lacks penetration
- Fragmentation
- Massive wound channel
- Meat damage

CHALLENGES TO TRANSITION



Bullet Weight

Bullet Length

Barrel Twist Rate

Factory Rounds or Reloading

Point of Aim

Shooting Distance

Terminal Velocity

Poor Bullet Performance

- Insufficient expansion, low wounding ability

Response of target animal

- Runs for 6 – 10 seconds
- Easier to track target in open habitats
- Potential to lose target in dense vegetation

ACCESSIBILITY, AVAILABILITY

13 RSA lead-free ammunition manufacturers and 8 international companies available in South Africa.

12 RSA companies produce bullets and 2 company produces rounds.

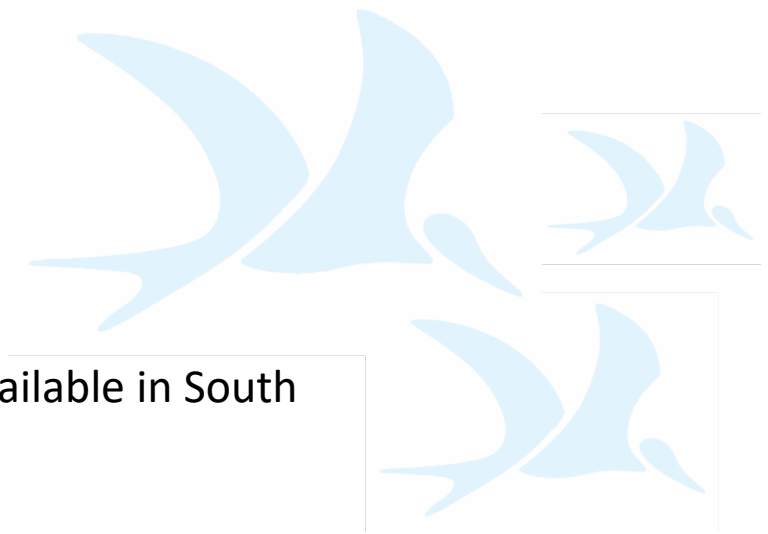
9 international companies are represented on the South African market. 5 (Nosler, Hornady, Barnes, Woodleigh & Lapua) supply the local market with bullets and 6 supply rounds (Winchester, Sako, Sellier & Bellot, Barnes, Norma, Lapua).

Accessibility

- Online commerce
- Exporting to SADC

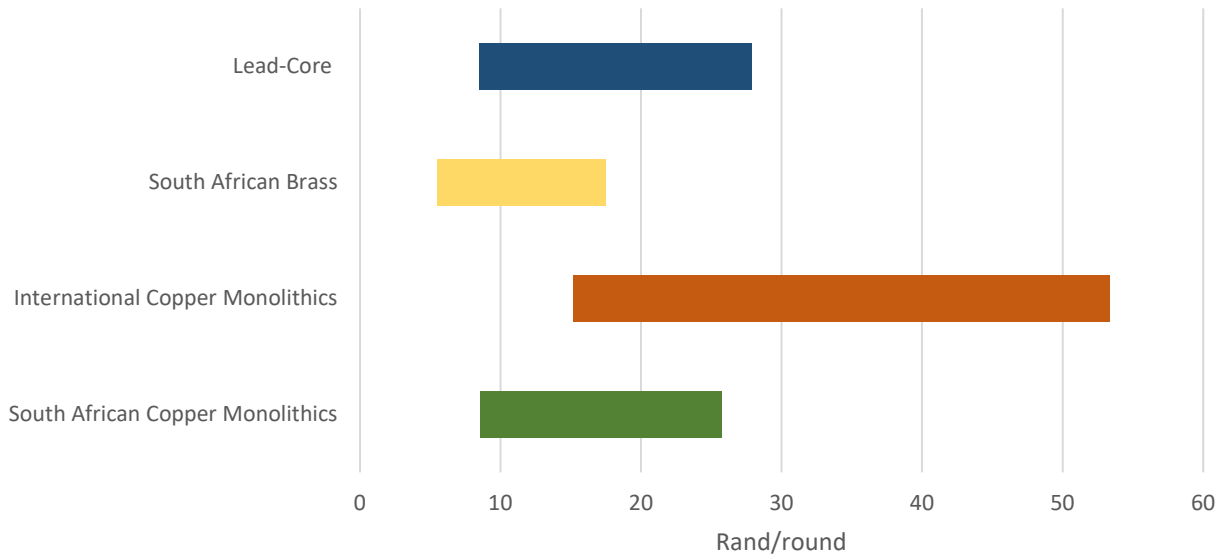
Availability

- No shortage of bullets
- Limiting components are cases, powder and primers
- Factory rounds



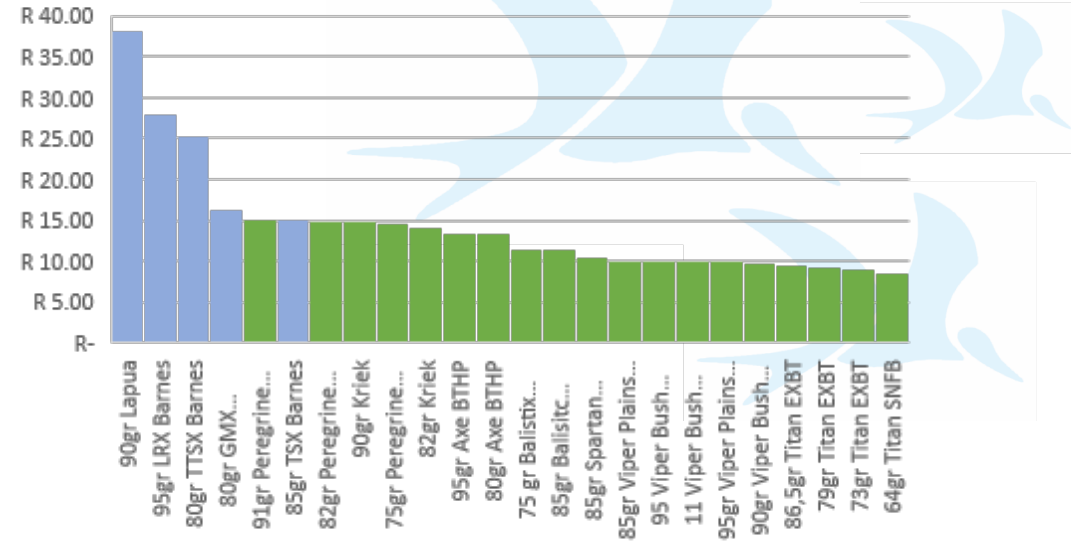
AFFORDABILITY

243 Bullet Price Range

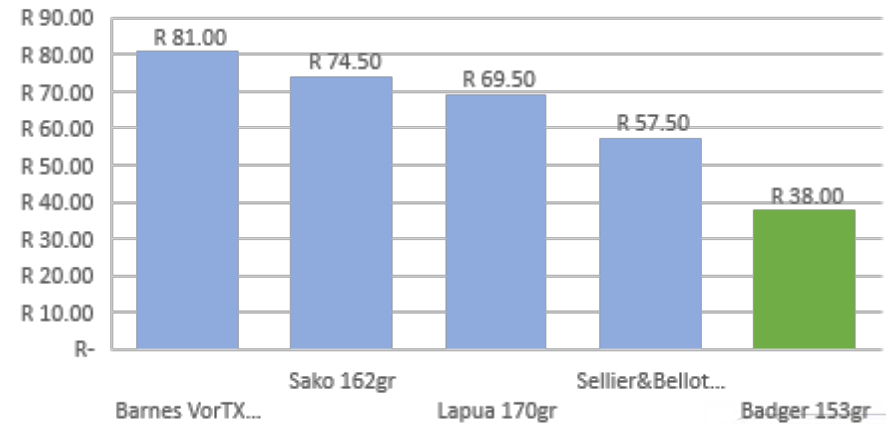


South African Copper Monolithics	R 12.04
International Copper Monolithics	R 25.51
South African Brass	R 7.59
Lead-Core	R 13.74

.224" International vs RSA Copper Monolithics

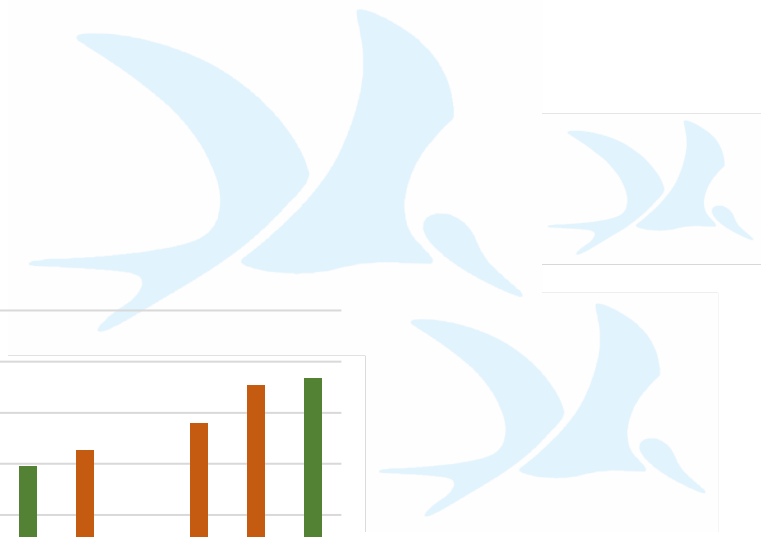
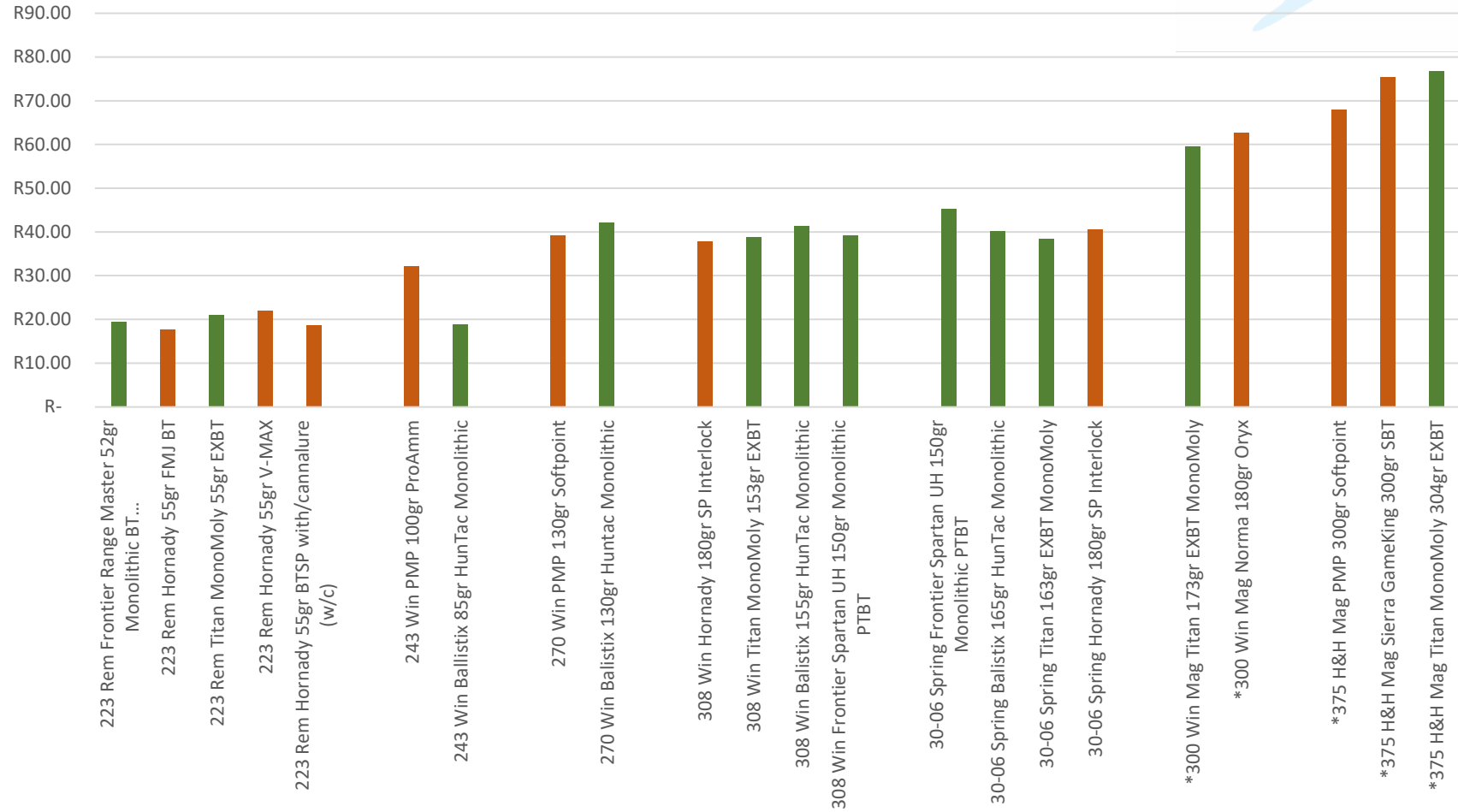


Comparison of Lead-Free 308 Win Rounds



AFFORDABILITY

Badger Lead vs Lead-free Rounds



THE WAY FORWARD

