

# WOODLEIGH BULLETS

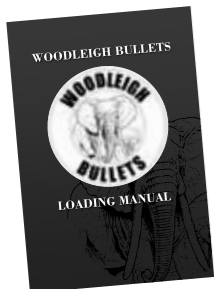


2021

# WOODLEIGH BULLETS

Merchandise and Bullet Features

## MERCHANDISE



Woodleigh Loading Manual.

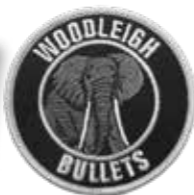
Woodleigh Bullets Loading Manual  
Comprehensive guide 350 + pages with  
loading data for American, European,  
British and Double Rifle cartridges plus  
the history of Woodleigh Bullets and  
Hydrostatically Stabilised bullets.  
Compiled by Geoff McDonald, Graeme  
Wright and Hans Bossert.



Woodleigh Bullets Caps available in red, black, cammo, navy blue and fluoro orange.



Polo shirts available in black, red, navy, grey, burgundy and orange fluoro.



Cloth Badges.



Drink Holder.



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Mr Craig Mearns with red stag & cape buffalo, both taken with his 400 H&H & Woodleigh 400gr RN SN.

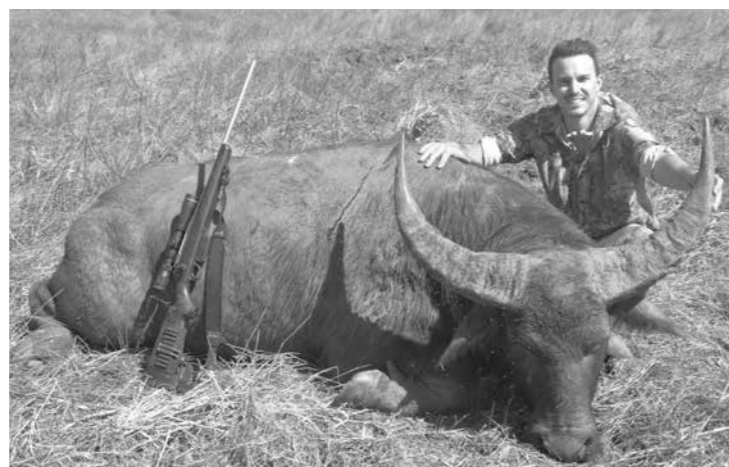


Mr Louis Baum and Bull Elephant taken with his 450/400 Gibbs & Woodleigh 450/400 x 400gr Hydrostatic

### Front Cover



Mr Keith Fahl with 43" Sable taken with his WR .476 & 520gr Woodleigh RN SN in WR Factory ammo. Accompanied by his son John Fahl.



Mr David Towner and NT Asian Buffalo taken with his Tikka T3 in 7mm-08 and Woodleigh 7mm x 140gr Hydrostatic

# HYDROSTATICALLY STABILISED BULLETS

Not recommended for herd situations due to likely shoot through

Woodleigh Hydrostatically Stabilised bullet. Generally accepted as the seventh generation in bullets by virtue of the fact that it incorporates all the best characteristics of both modern solids and expanding bullets. Unequalled straight-line performance. Deep reliable penetration. Large consistent wound channel. Environmentally sensitive construction.

Suitable for game the size of deer through to elephant, this bullet has no peer when hunting in heavy brush. Game can be reliably taken from any angle. Provided the game's vital organs are in your line of sight, you can rest assured that the bullet will reach and destroy them resulting in a humane kill when using a cartridge that is suited for the game being hunted.



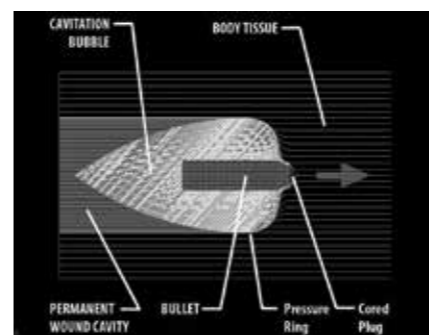
As this bullet does not rely on expansion for its killing effect, it side steps the problem of erratic expansion suffered by some other types of expanding monometal bullets.

Another desirable feature is the shallow driving bands and full diameter body.

The driving bands combined with the materials used, keep pressures low and minimise stresses on barrels.

**In line with good practise when using this type of bullet in magazine rifles we strongly recommend that all ammunition is cycled through the magazine to ensure that feeding is reliable prior to going on a hunt. If you have a feeding problem, try changing the seating depth.**

**Loading Tip - Hydrostatically Stabilised bullets generate similar pressure to conventional soft nose bullets. However in keeping with safe loading practice always reduce powder charge by 2 grains then work up.**



Hydrostatic stabilization is a technique that has been used in the brass extrusion industry for many years. It is a method of producing pierced hollow bars to very precise concentricity by using tool design to harness hydrostatic forces to centralise mandrels when punching through brass billets.

The depressed nose at the leading edge of the bullet "cores" the medium (flesh) through which it is travelling which then creates a "pressure ring". The coring and pressure ring balance each other out to stabilise the bullet in the direction of travel. If the bullet hits hard bone the flesh core dissipates but immediately reforms and the balance between it and the pressure ring restabilises to redirect the bullet in the original direction of travel.

Additional benefits of this design are that the pressure ring creates a devastating wound channel and massive hydraulic shock transfer. The bullet actually travels in a low pressure cavitation bubble which aids in bullet stabilisation and greatly increases penetration due to significant reductions in frictional forces acting on the bullet (ref. fig 1).

This homogenous bullet is made from a specially formulated copper alloy. Only the purest raw materials are used in its manufacture. The result is a bullet that has better toughness than modern homogenous bullets but creates breach pressures similar to standard gilding metal jacketed soft nose projectiles. This combination of materials and design allows for good regulation in most types of nitro double rifles, as well as good accuracy in magazine rifles.

Another desirable feature is the shallow driving bands and full diameter body. The driving bands combined with the materials used keep pressures low and minimise stresses on barrels.

The full diameter body (land diameter) has two beneficial effects. The first is that the bullet is more stable as it travels through the barrel because it is fully supported which in turn results in more reliable accuracy performance.

As this bullet does not rely on expansion for its killing effect, it side steps the problem of erratic expansion suffered by some other types of expanding monometal bullets.

The second is that the weight of the bullet is more evenly distributed from front to back which also helps to prevent bullets tumbling within game animals.

# WOODLEIGH BULLETS

## Recommended Usage

### Recommended Impact Velocities

Woodleigh have recommended impact velocities for all our soft nose bullets. These are listed on our website and printed on the bullet boxes. We recommend a range of impact velocities for each bullet which will give reliable expansion and optimum retained weight. These recommended impact velocities were arrived at after exhaustive field testing on various game. If loading to higher than the recommended velocity you may still get excellent results but it is our experience that driving the bullet within our ranges will give a more predictable result.

### Loading Tips - Soft Nose

As a general rule Woodleigh RN and PP bullets generate similar pressures to conventionally constructed soft nose bullets. You can use published data from other bullet and powder manufacturers. For safety, reduce by 5% and work up. Ensure that the case neck has a good grip on the bullet.

### Protected Point Soft Nose

Very popular all round bullet to suit a variety of conditions. The higher ballistic coefficient bullet design has all the excellent qualities of typical Woodleigh Bullets which are highly regarded by serious game hunters. Internal grooves at the nose section strategically weaken the front jacket area for consistent controlled expansion in bullets 6.5mm to 8mm. The small flat nose with minimal lead showing will not deform under recoil in the magazine of bolt action rifles.



Mr Eric Snyder and Bull Elk taken with his 7mm STW in a McWhorter Custom Rifle & Woodleigh 7mm x 175gr Protected Point.

### Weldcore Soft Nose

Using our jackets, deep drawn from 90/10 gilding metal with internal profiling for controlled expansion, combined with our bonded core process ensures reliable lethality over a broad velocity range.

All Woodleigh expanding bullets use pure lead core material for consistent expansion.

### Full Metal Jacket

The most heavily constructed steel jacketed solids available. Made from extra deep drawing grade steel, clad with 90/10 gilding metal alloy. The jacket is heavy at the nose (0.084") to create extra impact resistance. The base of the bullet is rolled back 90 degrees to provide a double strength heel to prevent core loss on impact.

Woodleigh is the only company worldwide that manufacture a comprehensive range of FMJ bullets suitable for dangerous game.

### Loading Tips - Full Metal Jacket

Woodleigh steel jacketed FMJ's generate more pressure than our soft nose bullets for any given load. To assist the barrel's lead to engrave the rifling on the bullet, most Woodleigh FMJ's are .0005" to .001" under nominal diameter. It is important for the case neck to have a good grip on the bullets, especially when loading for dangerous game. Factors which affect the grip are:-Bullet diameter and inside neck diameter. Inside neck diameter is a product of case neck wall thickness, die neck diameter and neck plug diameter. As a general rule, start with a charge 5% below that used for soft nose bullets, and work up.

# WOODLEIGH BULLETS

## Recommended Usage

### Plains Game

For animals over 50Kg (110lb) use calibres from 6.5mm upwards. Our recommendation is to use 150gr in 270, 160gr in 7mm, 180gr - 220gr in 30 cal, 225gr in 338.

### Large Thin Skinned Game

#### Eland, Kudu, Moose, Elk, Bears

Use medium calibres from 338 upwards. We recommend 250-300gr in 338, 286gr-320gr in 9.3mm, & 300gr in 375.

### Dangerous Thin Skinned Game - Cats

Use good quality soft nose bullets, medium calibres (375) upwards. Large male lions have heavy muscles, again, don't get carried away with light bullet and high velocity. Use a standard calibre (375 300gr or 416 410gr) weight soft nose bullet, or heavier preferably RN type. Woodleigh RN give rapid, controlled expansion and are eminently suitable for this type of game.

The PP's, although a little slower in expanding are also an excellent choice, especially if one bullet is chosen for all round use.

### Large Dangerous Game

#### Elephant, Buffalo, Hippo, Rhino

Use the most powerful cartridge you can shoot confidently, and comfortably handle. For elephant, only use high quality solid bullets for all shots.

For those who prefer homogenous or monolithic solids, we now offer our Hydrostatically Stabilised solid in most popular calibres.

These deliver high shock and excellent deep straight line penetration.

For other heavy dangerous game, we recommend and have proven from much experience, the use of a soft nose bullet for the first shot, followed by solids if needed. Use the heaviest bullets available for your chosen cartridges. Heavy bullets are much more reliable at moderate velocity than light bullets at high velocity.






























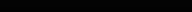
Good quality solids are essential for second and subsequent shots on other heavy dangerous game. In the case of buffalo the bullet may have to penetrate rear end muscles (which will stop most soft nose) and the large grass packed stomach or rumen bag, to finally reach the vitals of the chest cavity.

Similarly, a rear raking shot will necessitate the bullet penetrating the stomach or rumen bag before reaching the vitals. No soft point made can be relied on to penetrate sufficiently for a successful rear end or raking shot. Also, head or spine shots on a charging animal are very risky. Only good quality solids can be relied on for this, such as Woodleigh clad steel FMJ bullets and Hydrostatically Stabilised solid bullets.






























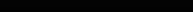


Mr Joshua Mayall and Cape Buffalo taken with his custom 500 Jeffery & Woodleigh 535gr RN SN Recovery 92% R.T.

# WOODLEIGH BULLETS

Cat. No.	Calibre	No./Box	SD	BC	Rec. Impact Vel. (fps)	Length inches		
80	<b>6.5mm .264"</b>	140gr PP SN	50	.287	.444	2000-3000	1.240	
80A		160gr PP SN	50	.328	.509	2000-3000	1.381	
80B		160gr RN SN	50	.328	.285	2000-2800	1.250	
72	<b>270 Win .277"</b>	130gr PP SN	50	.242	.409	2000-3000	1.087	
73		150gr PP SN	50	.279	.463	2000-3000	1.209	
73A		180gr PP SN	50	.334	.513	2000-3000	1.391	
74	<b>7mm .284"</b>	140gr PP SN	50	.248	.436	2000-3000	1.112	
75		160gr PP SN	50	.283	.486	2000-3000	1.232	
76		175gr PP SN	50	.310	.510	2000-3000	1.314	
77	<b>275 H&amp;H .287"</b>	160gr PP SN	50	.277	.474	2000-3000	1.223	
78		175gr PP SN	50	.304	.509	2000-3000	1.310	
65I	<b>308 Cal .308"</b>	130gr PP SN	50	.189	.302	2000-3000	.902	
65F		150gr PP SN	50	.226	.310	2000-2900	1.043	
65A		165gr PP SN	50	.248	.320	2000-2900	1.080	
65B		180gr PP SN	50	.271	.376	2000-2900	1.153	
65C		220gr RN SN	50	.331	.367	2000-2400	1.275	
65		220gr FMJ	50	.331	.359		1.388	
65G	<b>30/06 .308"</b>	240gr PP SN	50	.361	.401	2000-2400	1.428	
65H	<b>30-30 .308"</b>	150gr FN SN	50	.226	.246	2000-2400	.916	
65D	<b>300 MAG .308"</b>	180gr PP SN	50	.271	.435	2000-3000	1.220	
65E		200gr PP SN	50	.301	.450	2000-2900	1.278	
68A	<b>303 British .312"</b>	174gr PP SN	50	.255	.362	2000-2600	1.098	
68		215gr RN SN	50	.316	.359	2000-2200	1.235	
68B	<b>303/7.62mm x 39mm .312"</b>	130gr PP SN	50	.180	.295	2000-3000	.914	
64B	<b>8mm .323"</b>	196gr RN SN	50	.268	.315	2000-2700	1.128	
64C		220gr RN SN	50	.301	.355	2000-2700	1.233	
64D		250gr RN SN	50	.343	.403	2000-2700	1.356	
64F		200gr PP SN	50	.274	.406	2000-2900	1.240	
64G		220gr PP SN	50	.301	.448	2000-2900	1.330	
64E	<b>8 x 57 I .318"</b>	200gr RN SN	50	.283	.331	2000-2700	1.152	

# WOODLEIGH BULLETS

Cat. No.	Calibre	No./Box	SD	BC	Rec. Impact Vel. (fps)	Length inches		
63	<b>318 Westly Rich .330"</b>	250gr RN SN	50	.328	.365	2000-2500	1.302	
64		250gr FMJ	50	.328	.364		1.419	
60	<b>333 Jeffery .333"</b>	250gr RN SN	50	.322	.335	2000-2500	1.244	
61		300gr RN SN	50	.386	.418	2000-2500	1.459	
62		300gr FMJ	50	.386	.418		1.577	
56C	<b>338 Fed 338/06 .338"</b>	180gr PP SN	50	.226	.361	2000-2900	1.033	
56D		200gr PP SN	50	.251	.401	2000-2900	1.113	
56A	<b>338 Mag .338"</b>	225gr PP SN	50	.281	.425	2000-2900	1.189	
56		250gr RN SN	50	.313	.290	2000-2500	1.226	
56B		250gr PP SN	50	.313	.431	2000-2900	1.288	
57		250gr FMJ	50	.313	.326		1.334	
58		300gr RN SN	50	.375	.341	2000-2500	1.430	
59		300gr FMJ	50	.375	.340		1.558	
348	<b>348 Win .348"</b>	250gr FN SN	50	.295	.281	2000-2500	1.161	
51	<b>358 Cal .358"</b>	225gr RN SN	50	.251	.263	2000-2500	1.043	
51A		225gr PP SN	50	.251	.372	2000-2600	1.131	
52		225gr FMJ	50	.251	.263		1.090	
53		250gr RN SN	50	.279	.300	2000-2500	1.125	
53A		250gr PP SN	50	.279	.400	2000-2600	1.219	
53B		275gr PP SN	50	.307	.450	2000-2600	1.312	
54		310gr RN SN	50	.346	.458	2000-2200	1.352	
55		310gr FMJ	50	.346	.458		1.443	
47D	<b>9.3 Cal .366"</b>	232gr PP SN	50	.246	.307	2000-2700	1.160	
47A		250gr RN SN	50	.267	.281	2000-2400	1.083	
47C		250gr PP SN	50	.267	.381	2000-2700	1.210	
47		286gr RN SN	50	.305	.321	2000-2400	1.209	
47B		286gr PP SN	50	.305	.396	2000-2600	1.323	
48		286gr FMJ	50	.305	.305		1.273	
49		320gr RN SN	50	.341	.359	2000-2200	1.323	
49A		320gr PP SN	50	.341	.457	2000-2600	1.441	
50		320gr FMJ	50	.341	.341		1.412	























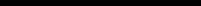
# WOODLEIGH BULLETS

Cat. No.	Calibre	No./Box	SD	BC	Rec. Impact Vel. (fps)	Length inches	
42A	<b>375 Mag .375"</b>	235gr PP SN	50	.239	.310	1900-2800	1.013
42		270gr RN SN	50	.274	.250	1900-2400	1.088
43A		270gr PP SN	50	.274	.370	1900-2700	1.130
44HD	Heavy Duty	300gr RN SN	50	.305	.277	1900-2550	1.218
44		300gr RN SN	50	.305	.277	1900-2400	1.184
45A		300gr PP SN	50	.305	.380	1900-2600	1.232
46		300gr FMJ	50	.305	.275		1.253
46BHD	Heavy Duty	350gr RN SN	50	.356	.323	1900-2500	1.378
46C		350gr PP SN	50	.356	.400	1900-2500	1.408
46D		350gr FMJ	50	.356	.307		1.447
81	<b>400 Purdey .405"</b>	230gr RN SN	50	.200	.181	2050	.810
40A	<b>450/400 Nitro .408"</b>	400gr RN SN	50	.344	.307	1800-2200	1.308
40	<b>.411"</b>	400gr RN SN	50	.338	.307	1800-2200	1.298
40HD	<b>400 H&amp;H .411"</b>	400gr RNSN	50	.338	.307	1800-2400	1.330
40B	<b>450/400 3" .410"</b>	400gr RN SN	50	.338	.307	1800-2200	1.305
41A	<b>.408"</b>	400gr FMJ	50	.344	.300		1.412
41	<b>.410"</b>	400gr FMJ	50	.338	.300		1.412
71	<b>405 Win .412"</b>	300gr RN SN	50	.252	.194	1800-2200	0.985
39	<b>416 Rigby .416"</b>	340gr PP SN	50	.281	.330	1900-2600	1.197
37A		410gr RN SN	50	.338	.307	1900-2400	1.334
38		410gr FMJ	50	.338	.300		1.399
37B		450gr RN SN	50	.371	.338	1900-2400	1.437
38B		450gr FMJ	50	.371	.330		1.510
37C	<b>416 Remington .416"</b>	400gr RN SN	50	.330	.305	1900-2400	1.303
38C		400gr FMJ	50	.330	.300		1.370
37N		450gr RN SN	50	.371	.338	1900-2400	1.437
38N		450gr FMJ	50	.371	.330		1.510
36	<b>10.75 x 68mm .423"</b>	347gr RN SN	50	.277	.290	1800-2300	1.116
36A		347gr FMJ	50	.277	.288		1.188
35	<b>404 Jeffery .422"</b>	350gr RN SN	50	.281	.293	1800-2600	1.128









# WOODLEIGH BULLETS

Cat. No.	Calibre	No./Box	SD	BC	Rec. Impact Vel. (fps)	Length inches	
33A	<b>404 Jeffery .422"</b>	400gr RN SN	50	.321	.335	1900-2400	1.282
34		400gr FMJ	50	.321	.330		1.347
33B		450gr RN SN	50	.361	.360	1800-2300	1.416
34B		450gr FMJ	50	.361	.355		1.491
444	<b>444 Marlin &amp; 44 Magnum .430"</b>	280gr FN SN	50	.216	.186	1800-2200	.828
31	<b>425 Westly Rich .435"</b>	410gr RN SN	50	.310	.222	1800-2250	1.177
32		410gr FMJ	50	.310	.221		1.263
67	<b>11.2 Schuler .440"</b>	401gr RN SN	50	.296	.325	1800-2250	1.167
30	<b>458 Mag .458"</b>	400gr PP SN	50	.272	.340	1900-2500	1.152
24A		480gr RN SN	50	.327	.310	1800-2200	1.261
25A		480gr FMJ	50	.327	.308		1.340
26		500gr RN SN	50	.341	.328	1800-2200	1.305
26A		500gr PP SN	50	.341	.378	1800-2300	1.394
28		500gr FMJ	50	.341	.325		1.388
27		550gr RN SN	50	.375	.340	1800-2200	1.414
29		550gr FMJ	50	.375	.326		1.521
30A	<b>450 BPE .458"</b>	350gr RN SN	50	.238	.250	1800-2100	0.949
30C	<b>45/70 .458"</b>	300gr FN SN	50	.205	.196	1700-2200	.792
30B		405gr FN SN	50	.276	.204	1700-2000	1.020
24	<b>450 Nitro .458"</b>	480gr RN SN	50	.327	.310	1800-2200	1.261
25		480gr FMJ	50	.327	.308		1.340
22	<b>465 Nitro .468"</b>	480gr RN SN	50	.313	.315	1800-2200	1.225
23		480gr FMJ	50	.313	.310		1.316
20	<b>470 Nitro .474"</b>	500gr RN SN	50	.318	.374	1800-2200	1.247

# WOODLEIGH BULLETS

Cat. No.	Calibre	No./Box	SD	BC	Rec. Impact Vel. (fps)	Length inches		
21	<b>470 Nitro .474"</b>	500gr FMJ	50	.318	.370	1.341		
18	<b>476 Westly Rich .476"</b>	520gr RN SN	50	.328	.385	1800-2200	1.287	
19		520gr FMJ	50	.328	.380		1.385	
15	<b>475 No. 2 .483"</b>	480gr RN SN	50	.294	.309	1800-2200	1.156	
16		480gr FMJ	50	.294	.300		1.258	
13	<b>475 No. 2 Jeffery .488"</b>	500gr RN SN	50	.300	.315	1800-2200	1.184	
14		500gr FMJ	50	.300	.300		1.284	
11	<b>505 Gibbs .505"</b>	525gr RN SN	25	.294	.345	1800-2200	1.197	
12		525gr FMJ	25	.294	.340		1.271	
11A		600gr PP SN	25	.336	.360	1800-2200	1.289	
12A		600gr FMJ	25	.336	.360		1.411	
83	<b>500 S&amp;W MAG .500"</b>	400gr FN SN	25	.229	.182	1500-2000	.816	
9	<b>500 Jeffery .510"</b>	535gr RN SN	25	.294	.350	1800-2200	1.199	
9A		535gr PP SN	25	.294	.310	1800-2200	1.158	
10		535gr FMJ	25	.294	.340		1.267	
10B		600gr PP SN	25	.330	.350	1800-2200	1.268	
10A		600gr FMJ	25	.330	.355		1.396	
8	<b>500 BP .510"</b>	440gr RN SN	25	.242	.255	1700-2000	0.991	
82	<b>50 Alaskan &amp; 50/110 WIN .510"</b>	500gr FN SN	25	.275	.219	1700-2200	.986	
06A	<b>500 Nitro .510"</b>	450gr RN SN	25	.247	.257	1800-2200	.984	
6		570gr RN SN	25	.313	.368	1800-2200	1.258	
7		570gr FMJ	25	.313	.350		1.336	
5	<b>577 BP Express .585"</b>	650gr RN SN	25	.271	.292	1700-2000	1.084	

# WOODLEIGH BULLETS

Cat. No.	Calibre	No./Box	SD	BC	Rec. Impact Vel. (fps)	Length inches		
3A	<b>577 Nitro .585"</b>	650gr RN SN	25	.271	.292	1800-2100	1.112	
4A	<b>.584"</b>	650gr FMJ	25	.272	.292		1.155	
3	<b>.585"</b>	750gr RN SN	25	.313	.346	1800-2100	1.249	
4	<b>.584"</b>	750gr FMJ	25	.314	.351		1.307	
1	<b>600 Nitro .620"</b>	900gr RN SN	25	.334	.371	1700-2000	1.292	
2		900gr FMJ	25	.334	.334		1.282	
A	<b>700 Nitro .700"</b>	1000gr RN SN	25	.292	.340	1700-2000	1.172	
B		1000gr FMJ	25	.292	.340		1.223	

PP SN = Protected Point Soft Nose FMJ = Full Metal Jacket FN SN = Flat Nose Soft Nose RN SN = Round Nose Soft Nose

## Hydrostatically Stabilised Bullets

Code	Calibre	Diameter in inches	Weight in grains	No per pack	Bullet Length in inches
H7mm	7mm	.284"	140	20	1.170
H308A	308	.308"	150	20	1.060
H308	308	.308"	180	20	1.250
H8mm	8mm	.323"	170	20	1.090
H338	338	.338"	225	20	1.279
H358	358	.358"	225	20	1.146
H9.3	9.3	.366"	286	20	1.376
H375	375	.375"	300	20	1.390
H450/400	450/400 3"	.410"	400	10	1.523
H416	416	.416"	400	10	1.514
H404	404 Jeffery	.422"	400	10	1.467
H45/70	45/70	.458"	400	10	1.239
H458A	458	.458"	450	10	1.377
H458	458	.458"	480	10	1.466
H465	465	.468"	480	10	1.412
H470	470	.474"	500	10	1.438
H500	500	.510"	570	10	1.426
H50Alaskan	50 Alaskan	.510"	400	10	1.006
H505	505	.505"	525	10	1.322
H577	577	.585"	750	10	1.424
<b>Woodleigh Match VLD Brass Solids - For Competition</b>					
VLD375	375	.375"	350	10	2.184
VLD416	416	.416"	395	10	2.083
VLD50BMG	50BMG	.510"	700	10	2.475





Mr Peter Mayall and cape buffalo taken using his Custom 500 Jeffery rifle & Woodleigh 535gr RN SN. Recovery 98% R.T.



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