

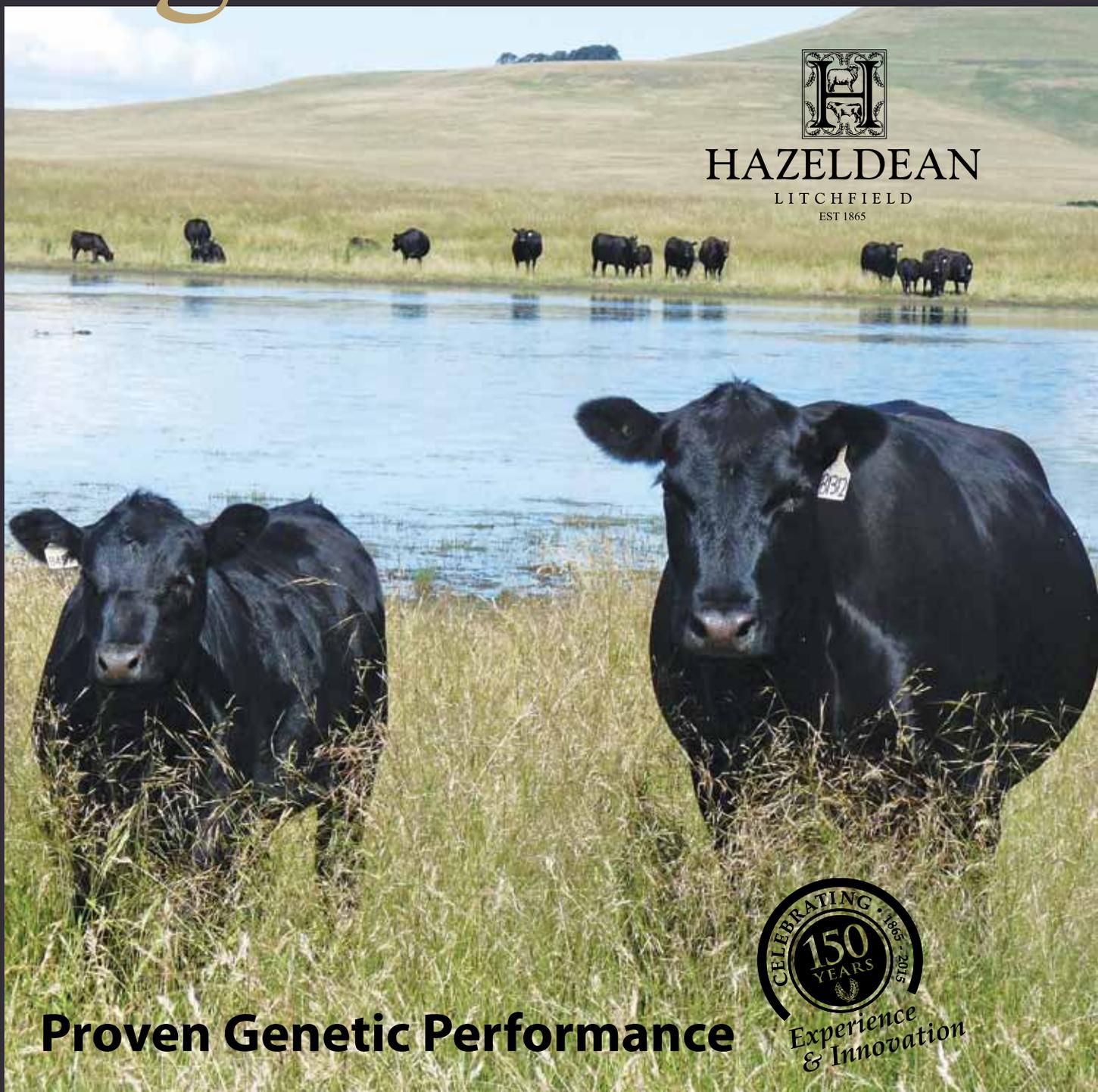
HAZELDEAN

angus



HAZELDEAN

LITCHFIELD
EST 1865



Proven Genetic Performance



hazeldean.com.au

**Easy calving
females =
more live calves
= more profits**

The bulls bred at Hazeldean come from a 3500 strong female herd with depth of breeding over more than 60 years. Every female at Hazeldean must get in calf at 2 years of age and give birth to a live calf, then get back in calf again at 3 years. At Hazeldean we have had virtually no heifers with calving problems. Calving ease of the Hazeldean herd is far above the average for the angus breed.

BOOST your herd's fertility

Hazeldean Angus are renowned for their high fertility and we continue to select sires with high fertility EBV's. Selection pressure on females to breed a live calf every year is strict and any female who fails to do so for whatever reason is "out".

SELECT from a herd bred in tough conditions

Our cattle are bred under commercial conditions and share their paddocks with sheep. The main breeding herd is located in the foothills of the Snowy Mountains with long cold winters, severe frost and a late spring. Hazeldean females are expected to re-breed before the Spring flush and as such are selected for high fertility under static nutrition levels. They are well-known for their hardiness and ability to thrive.

Their hardiness suits northern conditions also where animals must work in the heat, are capable of storing energy quickly as body fat (when seasons permit) and do not fall in a heap after calving. With our experience in the south and the north we know these are the sort of cattle that will perform in both environments.

ACCEPT higher prices at the saleyards

Hazeldean blood animals command higher prices at market and are sought after by feedlotter and backgrounders.

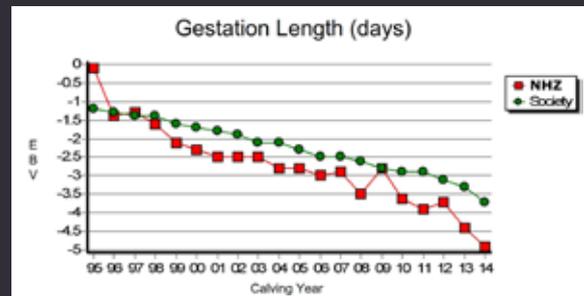
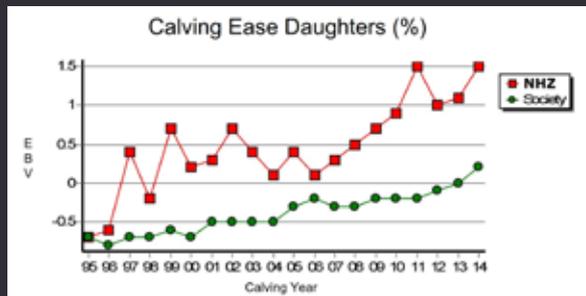
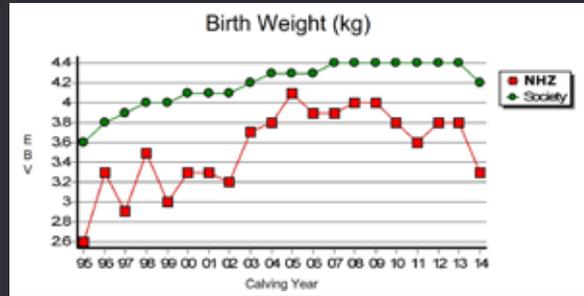
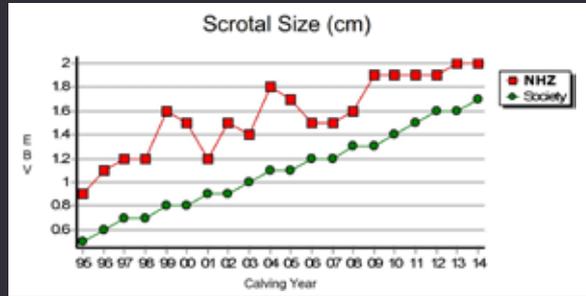
At the recent Weaner Sales around the country, Hazeldean clients were at the top end of the sales, a Queensland client receiving \$1032 for weaner steers weighing 374kg at Stanthorpe and clients at the Cooma Weaner Sales selling weaner steers up to \$945.

INVEST from a cow herd with true depth of breeding.



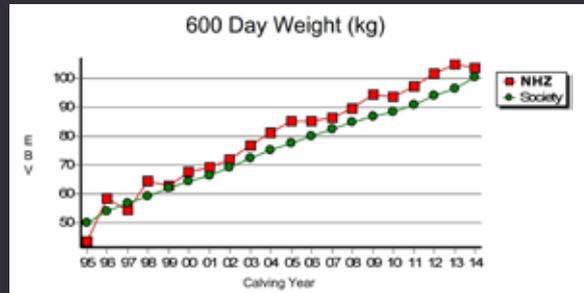
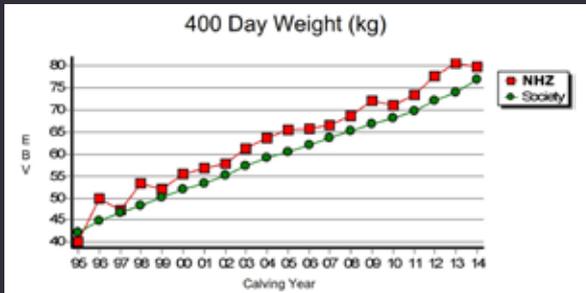
Hazeldean Herd Compared with Breed Genetic Trends over the past 20 years. Our genetic worth is proven - we continue to be leaders in the traits that make the difference - fertility, calving ease, low birth weight and high growth. All giving you higher returns per hectare.

FERTILITY & CALVING EASE



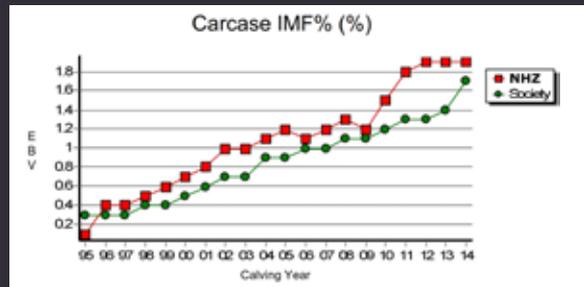
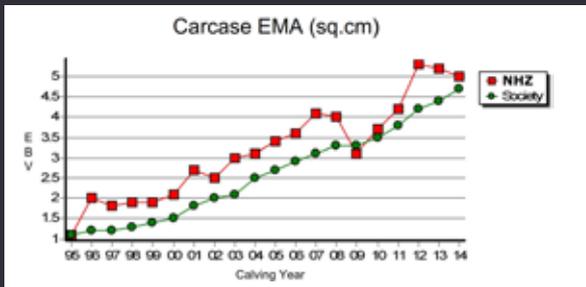
Our cattle are very fertile and have lower birth weight meaning more live calves and less stress on females. Our bulls sire calves with less calving problems and also sire daughters that have less calving trouble too. Our cattle have shorter Gestation Length meaning calves are born early and cows have more time to get back in calf for next year.

GROWTH



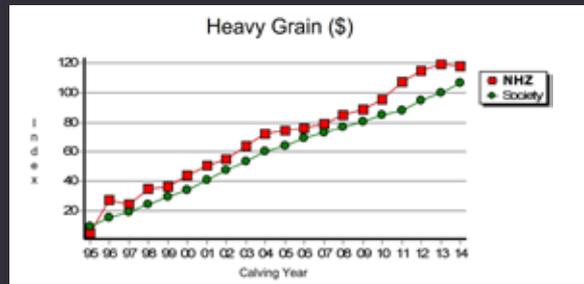
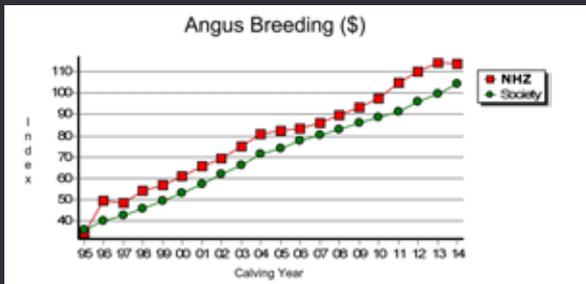
Yet growth is above average giving you heavier steers...

CARCASE



That have above average muscle content and above average marbling...

MARKETS



To hit key markets ahead of the pack.

HAZELDEAN angus

Hazeldean Bulls

The provision of bulls by a seedstock breeder to a commercial breeder must do five things. They are, in order of importance, as follows:

1. Serve cows effectively and efficiently so that the number of pregnancies in your herd is as high as it can be over a 6 week joining.
2. Produce daughters that are fertile at an early age, able to calve unassisted at 2 years of age and breed back every year thereafter.
3. Sire calves that grow quickly to reach targeted turnoff weight earlier.
4. Have sufficient constitution and athleticism to survive and breed effectively for a number of years.
5. Sire calves with valuable carcasses that maximise returns to the breeder and the processor for each kilogram of beef produced.

It is vital that these targets are met in this order for beef producers to make money out of beef cattle. This is the focus of the Hazeldean program.

Not all of these goals are covered by Breedplan and EBV's but perhaps if you look at the selection of AI sires for 2015 sale bulls and their average EBV's and Indexes relative to Angus breed average will help demonstrate where we are heading.

Breeding to Reduce t

CE Calving Ease

The amount of calving difficulty you can expect from a bull is called CE Direct and the amount from the bulls daughters CE Maternal. Live calves on the ground is of utmost importance to profitability. We have used sires where the expected number of unassisted calves is much greater than breed average.

GL Gestation Length (length of pregnancy).

Cows that have shorter GL have more time to recover from calving to get in calf again for next year. Short GL cows will also generally have smaller calves meaning less calving trouble. Importantly, short GL does not impact on growth so we can reduce GL and still get high growth. The sires we have used are 50% better than breed average for GL.

2013 HAZ AI Sire Average	CE DIR	CE DTRS	GL	Bwt	200	400	600
	0.7	1.0	-4.7	3.6	51	94	100
Angus Breed Ave 2013 Calves	-0.2	+0.0	-3.3	+4.4	+40	+74	+100

BWT Birth Weight.

The main reason for calving problems is high birthweight. Dead calves don't grow and therefore reduce profit. The sires we have used are 25% less for birthweight than breed average.

200,400 and 600 Day EBV's

The more weight in your steers the more you get paid. However, as growth starts from conception, generally high growth means higher birthweights and more risk of dead calves. Dead calves mean the total number of kilos you produce will go down. The sires we have used are not only well above breed av. for growth but also well below breed av. for birth weight.

So What Does This All Mean To You?

Breeding for Performance and the Cost of Production (COP)

As a beef producer it is important to understand the impact of the Cost of Production on the beef cattle business. The EBV's of our

sires described above are all about lowering the cost of production in your herd.

Some beef producers turnoff many more kilos of beef per dollar spent and it is important to know how they do this.

The Cost of Production

PROVEN
geneticpower

Milk

Obviously cows need to provide enough milk to their calves for them to grow well but too much can lead to poor reproductive performance. We keep this EBV in balance and avoid extremes.

SS - Scrotal Size

Large testicle size is correlated to higher fertility in bulls and they pass this improved fertility on to their daughters. The sires we have used are 35% better than breed average for scrotal size.

CW - Carcase Weight, EMA - Eye Muscle Area, RBY - Retail Beef Yield, IMF - Intra Muscular Fat (Marbling)

All these EBV's refer to carcase value and although carcase does not have as much impact on profitability as the hype would indicate, the bulls we use are well above breed average for these traits. Importantly, the sires we have used are more than twice breed average for EMA and IMF.

00	Mcw	Milk	SS	DC	CW	EMA	Rump	Rib	RBY	IMF	DOC	ANGUS INDEX
21	103	20	2.3	-5.3	70.0	7.8	0.5	0.2	0.6	2.2	4.3	132
96	+86	+14	+1.6	-3.4	+53	+4.3	-0.1	-0.1	+0.4	+1.4	+3	\$99

MCW Mature Cow Weight

Large cows have larger maintenance requirements than small cows. So ideally we would like to have very small cows producing very big steers to maximise profit. Genetically, however, this is not realistic as low MCW is correlated with low growth and can also be counter productive as, among other things, calving ease can go the wrong way. Nevertheless it is important to keep mature weight under control. The sires we have used have MCW below their 600 day wt EBV.

DC - Days to Calving

Some cows take more time to return to heat after calving and some take less. Those that take less time are more valuable as they will produce steers that will have more time to reach target turnoff weights earlier and heifers that will reach joining weights sooner. The sires we have used will sire daughters that on average return to oestrus 1.7 days earlier than breed average

DOC - Docility

This is a new EBV still under trial status and refers to temperament. Quiet cattle are easier to handle, pose far less danger to humans, have higher weight gain and generally perform better. We have long selected cattle on temperament and the sires we have used are on average very positive for this trait.

Cutting costs is obviously one way but this can only be pursued so far. Producing more kilos per dollar spent is the other, and much more sustainable way of reducing COP. Genetics can play a significant part in this and it is what drives the breeding program at Hazeldean.

Costs always go up whereas prices received sometimes go up, sometimes stay the same and sometimes go down. It is therefore important to reduce the cost of production in your business as part of your overall strategy to improve profitability in your beef cattle enterprise.



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A selection of AI Sires of the Hazeldean Angus Sale Bulls for 2015



G A R PROPHET USA16295688

Sire: C R A BEXTOR 872 5205 608

Dam: G A R OBJECTIVE 1885

From the great US Gardner Angus herd, Prophet is a true curve-bender, going from a low +3.3 EBV for birth weight to +139 for 600 day growth, as well as being in the top 1% of the breed for IMF and Angus index and the top 5% for EMA. Widely used, he is in 132 herds with over 5000 progeny analysed.



BROKEN BOW 002 USA16764044

Sire: SUMMITCREST COMPLETE 1P55

Dam: SUMMITCREST PRINCESS 0P12M

A genuine calving ease sire combining tremendous birth to 600 day growth and an EMA in the top 5% of the breed. An outcross pedigree in many herds, Broken Bow produces moderate framed progeny with length and vigour. He has been used in 43 herds and has had 500+ progeny analysed



CARABAR DOCKLANDS D62(AI) QHED62

Sire: KAROO W109 DIRECTION Z181

Dam: CARABAR BLACKCAP MARY B12(AI)(ET)

In over 100 herds, Docklands now has 1872 progeny analysed and has an exceptional birth to growth EBV spread along with excellent carcase and index values. He is in the top 1% for Scrotal size and Angus index and top 5% for EMA.



A A R TEN X 7008 S A(ET)

Sire: MYTTY IN FOCUS

Dam: A A R LADY KELTON 5551

An exceptional sire for calving ease, TEN X has a low birth weight EBV but at the same time outstanding growth and carcase. Top 1% for 200, 400 & 600 day growth.



TE MANIA BERKLEY B1(AI) VTMB1

Sire: TE MANIA YORKSHIRE Y437(AI)

Dam: TE MANIA LOWAN Z53(AI)(ET)

Berkley continues to dominate the Australian breeding values with 9 traits in the top 5% of the breed. He combines excellent growth and carcase with increased eye muscle and marbling whilst maintaining trait leading calving ease. Progeny tested extensively throughout Australia Berkley now has over 4800 progeny in 141 herds.



ARDROSSAN EQUATOR A241(AI)(ET) NAQA241

Sire: PAPA EQUATOR 2928

Dam: ARDROSSAN PRINCESS W38(AI)(ET)

With over 6000 progeny in 250 herds, A241 continues to produce the type of cattle that breeders throughout the country are chasing. His sons are moderate framed with added length and muscle and his daughters are proving to be impressive, feminine cows with good feet.



LAWSONS TANK B1155(AI)

Sire: LAWSONS TANK X1235(AI)

Dam: LAWSONS NEW DESIGN 1407 Z1393(AI)

Hazeldean purchased a half share in this bull in 2011 who is now in 21 herds with over 1000 progeny analysed. Tank is bred from a cow family that has produced many AI sires. He is a bull that stamps his progeny with natural thickness and muscularity and is a sire that increases EMA and adds weight to his calves. Part of the Angus sire benchmarking programme.



RITO 7065 OF RITA 5M46 OBJ USA15796904

Sire: S S OBJECTIVE T510 0T26

Dam: RITA 5M46 OF 2536 PRED

7065 is another outcross sire who has great carcase attributes being a trait leader for EMA – in the top 1% and IMF in the top 1%.



RITO 9M25 OF RITA 5F56 PRED USA16340278

Sire: G A R PREDESTINED

Dam: RITA 5F56 OF 1198 FD

9M25 is a Terrific Predestined son, positive for calving ease, yet great growth and top 1% of the breed for EMA at +9.7, top 5% for Angus Breeding Index and sires calves with quiet temperament.

SITZ JACKSON 431T

Sire: SITZ NEW DESIGN 458N

Dam: SITZ EPPIONIA 105P

Another low birth sire that we value, with added excellent growth and fertility. We really like his positive fat EBV's which are in the top 1%.



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HAZELDEAN

Northern Performance Bull Sale

150 Angus & Senegus Bulls

Thursday August 13th

Pinora, Jackson, QLD

Spring Bull Sale

80 Angus Bulls

Tuesday September 1st

Hazeldean, Cooma NSW

What Does Hazeldean Offer YOU?

Hazeldean's number one priority is quality and this extends through the entire operation. We produce large lines of cattle through AI and ET programmes and quality is never compromised. Our focus is the commercial cattleman wanting to continually lift genetic progress of their herd.

As a Hazeldean client, you are joining a group of beef producers that value superior genetics, that will increase your profits and give you access to premium markets. Buyer demand for Hazeldean blood cattle is strong, with steers and weaners selling to premiums, and feedlots seeking Hazeldean bred cattle.

Hazeldean sells over 400 bulls a year through our auction sales in NSW, SA and QLD, as well as through our contract breeding programme. We invite you to inspect our herd at any of our locations.

Hazeldean cattle have earned a reputation over the past 60+ years, from commercial producers throughout Australia for their superior fertility, calving ease, above average growth and carcass. The success of our clients is testament to our goal of maximising profits.

Hazeldean Pty Ltd, is a pastoral enterprise owned and operated by the Litchfield family of Cooma since 1865. The company specializes in the production of superior seedstock for the beef and wool industries and is one of the oldest and largest merino and angus cattle studs in Australia. Hazeldean is a world leader in the use of measured performance.

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