

WormSTAR™

Working While You Sleep

✓ Lower Faecal Egg Count

WormSTAR™ identifies animals that shed fewer eggs onto pasture.

✓ Growth

WormSTAR™ identifies animals that grow well in the presence of parasite challenge.

✓ Sustainable

WormSTAR™ genes permanently improve your flock's natural resistance to parasites.



WormSTAR™ Value

- ★ Drenches are no longer fully effective. Two out of every three farms in New Zealand have resistance to at least one drench family.
- ★ A genetic solution draws on the animal's natural ability to counter parasites. WormSTAR™ is an environmentally sustainable solution.
- ★ WormSTAR™ identifies animals that can resist parasites and produce higher yields of meat and wool. A double benefit.
- ★ Buy the best ram you can. The difference to your bottom line of the best to the worst ram identified by WormSTAR™ is \$1,205¹ for each ram.
- ★ Genetics take time – the sooner you start the sooner you will get the benefit. Once you start the benefit compounds through your flock every year.
- ★ If you ignore FEC in your breeding programme your flock's susceptibility to parasites can increase by up to 2% per year.

¹ The additional value of the best class of rams identified by WormSTAR™ compared to the worst class of rams calculated as the sum of the trait effects and index weightings multiplied by an average lifetime use of ram.

For more information on using WormSTAR™ in your breeding flock contact Pfizer Animal Genetics Customer Service 03 477 5920.
For a list of breeders using WormSTAR™ in their breeding programme go to: www.pfizeranimalgenetics.co.nz/wormstar.cfm

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WormSTAR™

World leading DNA test for
parasite resistance in sheep.
It's all in the DNA.

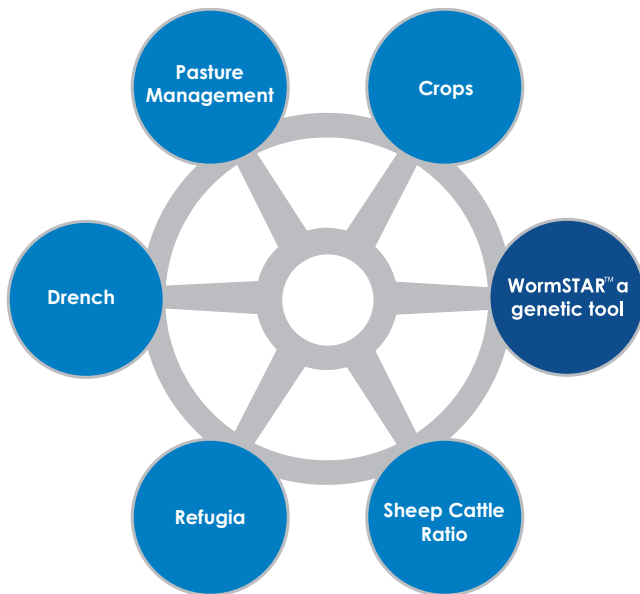


Pfizer Animal Health
Animal Genetics

WormSTAR™ Management

WormSTAR™ is a new tool to use in your overall Parasite Management Strategy.

Bringing WormSTAR™ rams into your flock complements other tools for managing parasites and helps slow the development of drench resistance.



WormSTAR™ Results

What does the star mean?

Each star represents a gene which gives the animal both greater parasite resistance and productivity.

Star Rating	Reduction in FEC ²	WormSTAR™ gene inheritance
★ ★	-7% to -12%	100% of progeny
★ ☆	-2% to -9%	50% of progeny
☆ ☆	Standard ram	None

For every ram the breeder receives FEC and production index estimates. A detailed breakdown of estimates is available including FEC, weaning weight, carcass yield and fleece weight. The units are equivalent to SIL breeding values enabling them to be combined with SIL and WormFEC™ data to calculate an overall value for every ram. The WormSTAR™ value adjustment equates to a range in value per ram of -\$383 to +\$822!

² Typical range in reduction in the adult FEC value of a STAR ram compared to a Standard ram.

The WormSTAR™ Story

WormSTAR™ is the result of research investment by Ovita and Meat and Wool New Zealand. The research was undertaken by AgResearch, New Zealand's largest Crown Research Institute, in association with WormFEC™.

The WormSTAR™ test has been developed by taking measurements from over 100,000 sheep throughout New Zealand over three years. All major sheep breeds were included in the development and samples were taken from farms in all major sheep regions through the country. The scale of the test development enabled sufficient data to be collected and analysed to determine that there are animals in the New Zealand sheep flock that shed less eggs and have higher hogget fleece weights, higher weaning weights and higher carcass yields.

Pfizer Animal Genetics have been bringing DNA technology to New Zealand farmers since 2002. WormSTAR™ is the latest DNA-marker test developed and is now available alongside Shepherd®, MyoMAX®, LoinMax® and i-SCAN® for sheep and the GeneSTAR® suite of tests for cattle.

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