



BREEDING FOR TB RESISTANCE



Have you ever wondered..... why only a handful of your cows became TB reactors during a herd breakdown when all cows were managed the same?

ANSWER: GENETIC RESISTANCE

GENETIC RESISTANCE

It is a measure of an animal's ability to fight off infection due to its genetic makeup

WHAT DOES THIS MEAN?

Farmers can breed cattle that are less likely to become TB reactors

WHAT IS IT COSTING?

The overall industry cost of the TB Eradication Programme was €104m in 2021!

ACHIEVING A HEALTHY HERD

Select cows and bulls for breeding that have the highest overall index as well as the lowest breeding value for TB resistance

WHAT FIGURE SHOULD I USE?

To improve TB resistance, herds should aim to use bulls with a breeding value of less than 8%. For more rapid improvement, use bulls less than 6.5%.

Bull	TB Ranking	TB Resistance	TB Resistance Reliability	No. of Herds	No. of Progeny	No. of Herdmates	Progeny Prevalence	Herdmate Prevalence	EBI
Bull A	Worst 1%	11.70%	87%	46	124	6059	9.68%	3.80%	€350
Bull B	Best 5%	5.40%	93%	86	254	16870	1.58%	2.40%	€327

High EBI does not guarantee favourable genetic resistance to TB. Bull A above has a high EBI, but ranks as one of the worst bulls available for TB resistance. Bull B has a similar (but lower EBI) which produces progeny with more favourable genetic resistance to TB.

Select high EBI bulls with a lower TB PTA to improve genetic resistance in your herd.