

## Trichomoniasis Infections - Why infection identification Matters:

- **Trichomoniasis** causes early embryonic loss (EEL) in cows.
- Every infected bull poses a **herd-wide risk** (Wyoming/United States and South Africa have same challenges).
- **Branding/conception rates** can drop by **10–40%**, compounding losses.
- **Bull culling + replacement** creates a **direct cash hit**.
- **Economic impact is exponential** in large herds with higher prevalence.

## Economic Losses from Reduced Branding Rates - Goal is 90% branding

Young cattle valued at 389c/kg, 200kg average = AUD \$778/head

Breeder Herd Size	Branding Rate (%)	Lost Calves	Economic Loss (AUD)
500	80	50	\$38,900
	70	100	\$77,800
	60	150	\$116,700
	50	200	\$155,600
1,000	80	100	\$77,800
	70	200	\$155,600
	60	300	\$233,400
	50	400	\$311,200
5,000	80	500	\$389,000
	70	1,000	\$778,000
	60	1,500	\$1,167,000
	50	2,000	\$1,556,000
10,000	80	1,000	\$778,000
	70	2,000	\$1,556,000
	60	3,000	\$2,334,000
	50	4,000	\$3,112,000

## Trichomoniasis Replacement Cost Summary – Impact by Herd Size

Breeder Herd Size	Bull Herd Size (2%)	Trich Prevalence (%)	Infected Bulls	Replacement Cost (per bull)	Total Replacement Cost (AUD)
500	10	2%	1	\$5,000 – \$20,000	\$5,000 – \$20,000
		5%	1	\$5,000 – \$20,000	\$5,000 – \$20,000
		10%	1	\$5,000 – \$20,000	\$5,000 – \$20,000
		15%	2	\$5,000 – \$20,000	\$10,000 – \$40,000
1,000	20	2%	1	\$5,000 – \$20,000	\$5,000 – \$20,000
		5%	1	\$5,000 – \$20,000	\$5,000 – \$20,000
		10%	2	\$5,000 – \$20,000	\$10,000 – \$40,000
		15%	3	\$5,000 – \$20,000	\$15,000 – \$60,000
5,000	100	2%	2	\$5,000 – \$20,000	\$10,000 – \$40,000
		5%	5	\$5,000 – \$20,000	\$25,000 – \$100,000
		10%	10	\$5,000 – \$20,000	\$50,000 – \$200,000
		15%	15	\$5,000 – \$20,000	\$75,000 – \$300,000
10,000	200	2%	4	\$5,000 – \$20,000	\$20,000 – \$80,000
		5%	10	\$5,000 – \$20,000	\$50,000 – \$200,000
		10%	20	\$5,000 – \$20,000	\$100,000 – \$400,000
		15%	30	\$5,000 – \$20,000	\$150,000 – \$600,000