

Sorghum midge in sorghum

Potential yield loss

Midge rating of hybrid	Estimated yield loss (t/ha)*	Economic value of yield loss at a varying sorghum prices			
		\$160/t	\$200/t	\$250/t	\$300/t
1 midge per panicle					
Susceptible (rating 1)	0.52	42	104	130	156
3 Rating	0.18	14	36	45	54
5 Rating	0.10	8	20	25	30
7 Rating	0.08	6	16	20	24
8+ Rating	0.05	4	10	13	15
3 midge per panicle					
Susceptible (rating 1)	1.58	252	315	394	473
3 Rating	0.53	84	105	131	158
5 Rating	0.32	50	63	79	95
7 Rating	0.23	36	45	56	68
8+ Rating	0.12	25	24	30	36

Assumptions made in calculations: A crop of 75,000 heads/ha; damage over 4-5 days; all heads exposed to midge over the 4-5 days.

Estimate of potential yield loss per midge per panicle = 1.4g.