

Tribe, J. and I.R. Bock. La Trobe University, Melbourne, Australia. *Drosophila* collections in southeastern Australia.

Collections were made during December 1979 at several wineries and orchard areas in inland southeastern Australia. The localities sampled are shown in Fig. 1; the numbers represent

Mourquong orchard (1), flies swept over fresh fruit; Mildura winery (2), flies collected on old filters outside the winery; Mildara winery (3); Ettiwanda fruit juice factory (4), flies swept from orange skins; Sarnia fruit juice factory (5), flies swept from mixed fruit skins; Lake Boga winery (6); Best's winery (7); and Bridgewater winery (8). Flies collected at localities 3, 6, 7 and 8 were aspirated directly from fermentation vats. Ambient maximum temperatures on all collection days exceeded 30°C.

Results are given in Table 1. Only cosmopolitan species were found, and indeed only two of the eight cosmopolitan *Drosophila* species (*anassae* and *repleta*) were not collected. *D. anassae* occurs in Australia but is restricted to the Northern Territory and northern Queensland, while *D. repleta*, although known from southern localities, is very rare. The large numbers of *melanogaster* collected in the wineries are not surprising; the ability of this species to utilize ethanol is well known and widely documented.



Fig. 1. *Drosophila* collection areas in southeastern Australia.

Table 1. *Drosophila* collections in southeastern Australia. Species numbers are given as males, females.

Locality	<i>melanogaster</i>	<i>simulans</i>	<i>busckii</i>	<i>immigrans</i>	<i>hydei</i>	<i>funnebris</i>
1	4, 2				70, 3	
2	0, 2				6, 3	
3	65, 65				48, 21	
4	31, 76	3, 1			44, 52	
5	36, 21			0, 1	15, 26	
6	15, 27		1, 0	0, 1	8, 2	
7	7, 2					
8	67, 48			1, 0		2, 0

Perhaps of greater interest is the collection of large numbers of *hydei* in one of the wineries (3) as well as at several other sites. *D. funnebris* has previously only been recorded within Australia from Sydney.

Acknowledgments: The assistance of Ms. Lesley Anderson and the wine and fruit producers at the localities sampled is gratefully acknowledged.