

TERMINATING REPORT

PROJECT NO: 13C-3343-3743
TITLE: Traps for Cherry Fruit Fly

PERSONNEL:

Project Leader: D. F. Mayer, WSU-Prosser
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REPORTING PERIOD: 1997/98

ACCOMPLISHMENTS:

Red spheres combined with a combination of the 2 odor attractants, ammonium carbonate + putrescine appeared to be the most attractive trap for cherry fruit fly adults (Tables 1 & 2). Red spheres with the odor attractant ammonium carbonate was the second most attractive trap (Tables 1 & 2). The data from the 4 areas is fairly consistent although at Rufus more flies were caught on the red spheres with no odor.

Yellow panels alone and with the different odors were used only at Buena and Rufus. The data is not very consistent and doesn't show any obvious trends.

Cherry Fruit Fly Sampling Data-1997

Table 1. Cherry Fruit Fly Totals -RED SPHERES

Trap	Buena	Willamette	Wenatchee	Rufus	Total
Ammonium acetate	0	245	200	13	= 458
Putrescine	8	136	287	5	= 436
Ammonium acetate + Putrescine	11	256	370	10	= 647
Ammonium carbonate	59	946	846	33	= 1,884
Ammonium carbonate + Putrescine	84	1210	994	54	= 2,342
Enterobacter	2	356	--	15	= 373
Ammonium acetate + Enterobacter	14	265	--	18	= 297
Ammonium acetate + Enterobacter + Putrescine	12	251	--	11	= 274
No odor	12	69	413	76	
Total	202	3,734	3,110	235	

Table 2. Percent of Total Cherry Fruit Flies -RED SPHERES

Trap	Buena	Willamette	Wenatchee	Rufus
Ammonium acetate	0	7	6	6
Putrescine	4	4	9	2
Ammonium acetate + Putrescine	5	7	12	4
Ammonium carbonate	29	25	27	14
Ammonium carbonate + Putrescine	42	32	32	23
Enterobacter	1	10	--	6
Ammonium acetate + Enterobacter	7	7	--	8
Ammonium acetate + Enterobacter + Putrescine	6	7	--	5
No odor	6	2	13	32

Table 3. Cherry Fruit Fly Totals -YELLOW PANELS

<u>Trap</u>	<u>Buena</u>	<u>Rufus</u>
Ammonium acetate	34	13
Putrescine	22	5
Ammonium acetate + Putrescine	28	21
Ammonium carbonate	36	43
Ammonium carbonate + Putrescine	39	4
Enterobacter	8	33
Ammonium acetate + Enterobacter	6	2
Ammonium acetate + Enterobacter + Putrescine	18	0
No odor	2	1