

CHART FOR ESTIMATION OF THIRPS AND WHITEFLIES ON STICKY TRAPS

INSTRUCTIONS FOR USE: Use this chart to rapidly estimate numbers of thrips or whiteflies on yellow or blue sticky traps with grids. It is particularly useful for high numbers. There are 54 cells on each trap side¹. For each pest in turn, and for each trap side separately, count *either* (for low pest numbers) the number of cells in the grid that are occupied by any number of that pest, *or* (for high pest numbers) the number of cells that have none of the pest in them. Check the chart below to find an estimate of the number of that pest on the trap side.

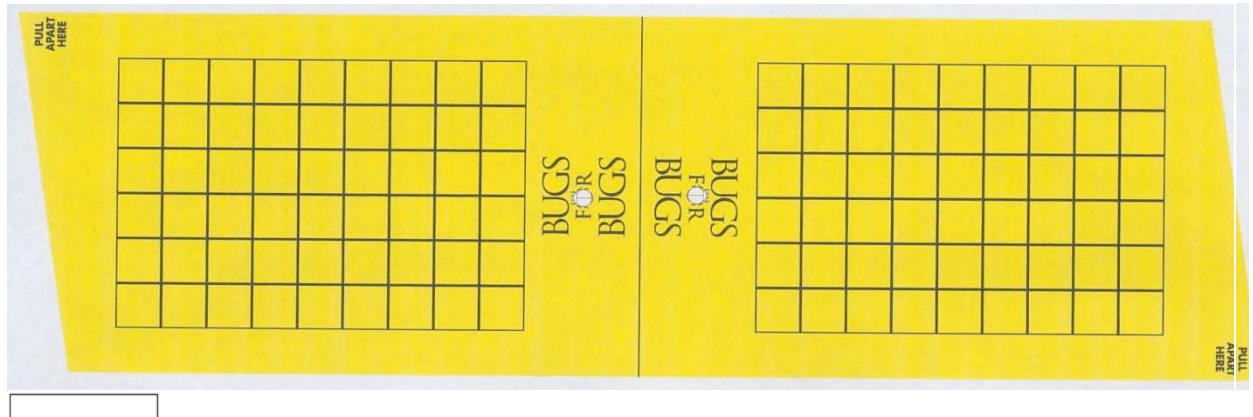
Examples (correct answers in red):

1. You are checking a trap, which clearly has lots of thrips on it. You observe **8** cells in the grid that do not have any thrips in them. Read left from the far right column "# of cells empty" and find an estimate of **149** thrips on that side.
2. A quick scan suggests there are between 10 and 50 whiteflies on the trap side. You count cells with one or more whiteflies in them and find **20** cells containing whiteflies. Read right from the far left column "# of cells occupied" and find an estimate of **28** whiteflies on that side.

You only need to count the number of individuals when there are very few whiteflies/thrips on the trap (when they occur in less than 10 of the cells). The estimates can be used to a maximum of 4 cells left unoccupied by either pest (approximately 192 individuals per side for thrips and 168 for whiteflies). At greater densities than this, count individuals on a horizontal strip across the centre of the card and multiply by an appropriate figure to obtain a whole-side estimate. **Estimate the numbers on both trap sides separately to arrive at a total per trap.**

# of cells occupied	Estimated # of thrips	Estimated # of whitefly	# of cells empty	# of cells occupied	Estimated # of thrips	Estimated # of whitefly	# of cells empty
10	15	15	44	31	58	54	23
11	16	16	43	32	62	57	22
12	17	17	42	33	66	61	21
13	18	18	41	34	70	64	20
14	20	19	40	35	74	68	19
15	21	21	39	36	79	73	18
16	22	22	38	37	84	77	17
17	24	23	37	38	90	82	16
18	25	25	36	39	96	87	15
19	27	26	35	40	102	92	14
20	29	28	34	41	109	98	13
21	31	30	33	42	116	103	12
22	33	31	32	43	123	110	11
23	35	33	31	44	131	117	10
24	37	35	30	45	140	124	9
25	39	38	29	46	149	132	8
26	42	40	28	47	159	140	7
27	45	42	27	48	169	149	6
28	48	45	26	49	180	158	5
29	51	48	25	50	192	168	4
30	54	51	24				

Bugs for Bugs® trap (opened up to show both sides)



Common pests on yellow sticky traps



Greenhouse whitefly



Western flower thrips



Fungus gnat



Green peach aphid



Common brown leafhopper



Shorefly