



Agricultural & Rural Development Ministry
Plant Protection Department

Fall Armyworm Control

SHARING SWEET AND SOUR BAIT TRAP (Molasses bait trap) TO CONTROL FALL ARMYWORM

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Method of making sweet and sour baits (Molasses bait trap)

Ingredients:

1. Molasses from sugar cane: 40%
2. Vinegar (preferably fruit vinegar): 40%
3. Alcohol : 10%
4. Water: 10%.



Soaking incubation:

1. Mix the above ingredients
2. Incubate in a large plastic bottles, or other device with a lid for 3-4 days
3. Use when the solution smells Aromatic.

40%



40%



10%



10%



Mix-up together



and soak incubation



Method of making sweet and sour baits

Preparation of bait:

- Mixing poisonous baits: Mix 5ml of pesticide (orally toxic pesticides should be used) with 1.5 litres of sweet and sour solution (doubling the dose rate recommended on the label for spraying purpose).
- Making baits: Soak pieces of cloth with the bait solution or put this solution in plates, cups, plastic large-opening bottles (adults can come in, get the solution and come out of the bottles).

Placement of traps:

- Place traps before sowing maize, during the crop cycle and even after harvesting maize to kill adults.
- The more traps are arranged the more effective the result will be. Normally, place 40-60 traps/ha. Place the traps on the ground after sowing maize, and at the height of leaves when maize plants grow high.





Amount of adult FAW into Molasses bait trap

Date	Amount of adult FAW/ trap		
	Thấp nhất	Nhiều nhất	Trung bình
28/6/2019	0	2	1.40
2/7/2019	3	20	7.93
16/7/2019	0	5	1.00

Date	Amount of adult FAW/ trap		
	Thấp nhất	Nhiều nhất	Trung bình
1/7/2019	0	5	1.87
5/7/2019	0	32	6.47
8/7/2019	0	6	2.13
11/7/2019	0	0	0.00
15/7/2019	0	2	0.40

Amount of adult FAW into Molasses bait trap

Date	Amount of adult FAW/ trap		
	Min	Max	Average
11/7/2019	1	5	2.00
16/7/2019	0	6	1.80

Used Fipronil pesticide

Date	Amount of adult FAW/ trap		
	Thấp nhất	Nhiều nhất	Trung bình
11/7/2019	1	28	14.20
16/7/2019	0	13	6.00

Used Chlorfenapyr pesticide

Amount of adult FAW into Pheromone trap and Molasses bait trap

On sweet maize, at 4-10 leaves stage

Date	Amount of adult (adult/trap/2 night)					
	Min		Everage		Max	
	Molasses bait trap	Pheromone bait trap	Molasses bait trap	Pheromone bait trap	Molasses bait trap	Pheromone bait trap
24.09.2019	0	8	3,0	10,0	8	11
26.09.2019	0	3	2,6	4,0	7	5
28.09.2019	0	2	2,0	3,0	5	4
30.09.2019	0	2	2,3	3,5	6	5
01.10.2019	0	1	1,2	2,0	5	3
03.10.2019	0	2	0,4	3,5	3	5
05.10.2019	0	2	0,8	4,0	3	6
07.10.2019	1	2	1,47	3,0	5	4
Everage all	0,13	2,75	1,72	4,13	5,25	5,38

Farmers are very creative



Control by stage of FAW

**Molasses bait trap
& Pheromone trap**



Parasitoid



Destroy egg



Natural enemies



Apply pesticide

