



King Saud University

College of Food and Agriculture Sciences

Department of Agricultural Extension and Rural Society

Assessing farmers' knowledge of Red Palm Weevil symptoms and their adoption of integrated pest management

October 2019

-Questionnaire-

First: Personal information

1- Age (years).

2- Education (years).

3- Main occupation:

Farming () Trader () Employee () Craftsman ()

4- Farming experience (years).

5- Farm size (hectares).

6- The number of palm trees in your farm ().

7- Intercropping Yes () No ()

8- Regular contact with extension workers: Yes () No ()

9- Membership in agricultural associations: Yes () No ()

Second: Knowledge of Red Palm Weevil symptoms

Could you please describe the visual symptoms of RPW or the type of damage it causes on palm trees?

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Third: Adoption of integrated pest management for RPW control

Please indicate your level of adoption regarding the following practices:

Practice	Adoption level				
	Always	Frequently	Sometimes	Seldom	Never
Prevention					
P1- Checking trees at regular intervals to detect early infestation					
P2- Removing offshoots as a protective measure					
P3- Removing fronds by applying pruning in the winter					
P4- Using pheromone traps to detect early infestation					
P5- Treating wounds resulted from removing frond bases and offshoots by using contact pesticides					
Legislative control					
L1- Adhering to not transferring infested trees or offshoots to non-infested areas					
L2- Burning and burying the infested palm far away after cutting it into small portions					
L3- Adhering to not transferring infested palm waste to other areas					
L4- Surveying RPW-infested palms and informing authorities when necessary					
L5- Not allowing anyone to transfer infested offshoots from an infested farm					
Cultural practices					
C1- Adhering to the time and depth specified for planting offshoots					
C2- Applying moderate irrigation to reduce humidity on farms					
C3- Adhering to good plowing before planting					
C4- Maintaining the recommended distance between trees					

Practice	Adoption level				
	Always	Frequently	Sometimes	Seldom	Never
Mechanical control					
M1- Covering roots of small trees with soil to a height of 20 cm to prevent insect attacks					
M2- Removing weeds and dry trunks and disposing of them in the recommended way					
M3- Eradicating infested palms					
M4- Removing infested or dead trees and the pruning products on neglected farms					
M5- Closing all openings on the trunks of palms					
M6- Scraping infested areas until healthy tissue is exposed					
Chemical control					
CH1- Spraying according to extension recommendations					
CH2- Spraying pesticides of a proper quantity and quality and within the specified time frame					
CH3- Dusting farms					

Thank you very much for taking the time to complete our survey. Your participation will help us to understand the adoption of integrated pest management for RPW control.