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# "DESCRIPCIÓN Y EVALUACIÓN DEL CICLO BIOLÓGICO DE *Bemisia tabaci* EN CULTIVOS DE *Lycopersicon esculentum*"

## Entomología Gene



Ica - Perú 2012

Control Biológico de la mosca blanca  
*Bemisia tabaci*



UNIVERSIDAD NACIONAL  
AGRARIA

FACULTAD DE AGRONOMÍA

TRABAJO DE GRADUACIÓN

Estado del ciclo biológico de la mosca blanca (*Bemisia tabaci* Comstock, Homoptera: Aleyrodidae) en siete especies de cucurbitáceas.

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Trabajo presentado a la consideración del honorable tribunal en su calidad de, para optar al título de Ingeniero en Sistemas de Protección Agrícola y Parasitos.

Miraflores, 03 de agosto de 2012



Como recuperar mi informacion de whatsapp. Ciclo biologico de mosca blanca bemisia tabaci. Cómo recuperar mensajes de whatsapp de un contacto bloqueado.

In the tropics, the fungus naturally appears in insect populations, however in temperate areas appears only in crops under the refuge. It is one of the allery species that represents a serious economic problem all over the world. Measure about 0.3 mm in length. As in the rest of the world, in recent years it has become a plague of great economic importance, especially in protected horticultural crops. The pupal structure differs depending on the plant huA © s. Adults of climatology colonize the plant from the beginning of crops, although its appearance is conditioned by climatology. Avoid excess nitrogen fertilizer. It is a specific mushroom, so it does not affect birds, fish and mammals. The legs are very long, yellow, except for the end of the tarsos that is obscured. The head is longest, prominent, almost pentagonal, with two longitudinal black bands between the eyes and the rear edge, and without oceli. Monitor that there are no plastic breaks. Males have a longevity that can be positioned in about 15 days at 28 ° C and, while in females it was encypted in 30 days at 16 ° C. Most of this information was obtained through the health service Council vegetable agriculture of the Junta de Andalucía in Almería and the Ministry of Agriculture, Food and Environment. Larvae and adults feed on sucking the lymph of the leaves. Organic cycle The cycle is heterometal (incomplete metamorphosis), with four states: egg, larva, pupa and adult. Cultures cultivated aubergine, zucchini, jew, melon, cucumber, pepper, sand and tomato. The temperature threshold for oviposition is 14 Å ° C. The males are a little smaller (from 2.9 to 3.1 mm) and thin as females (from 3 to 3.6 mm). The complete development of the cycle can last a month at a temperature between Cleaning and elimination of empty containers according to the manufacturer's recommendation. The temperature range for its development is between 16 and 34 ° C. Lethal temperatures are located below 9 Å ° C and above 40Å°C. Intervention criteria In the event that the presence of adult or daring populations in leaves is detected, without parasitism, is justified to control the parasite before the fat from the fruits. It has an Eliphite shape, VentRaly Flat and convex dorsal. Tabaci in Spain is well known since the 40s, when mentioned on various crops such as cotton, tobacco and tomato. It belongs to the DEUTEROMYCETES class, becoming widely distributed in temperate and tropical areas. The length of its antennas is 0.29 mm. Although, in the study and development of this mushroom as test control methods, greater efficiency of V.Lecanii strains have proved that they have great spores for the control of the Ophids, against those who own small spores, more effective for whitefly . The adult leaves the pump for an engraving that carries out in the form of activity T. v.lecanii contains a complex of various strangers (lines) of mushrooms that differ in the gap range, although the appearance is quite similar. Macrolophus adults are usually found, especially in sprouts and along the stems. Application of a pesticide, ignoring these restrictions can lead to serious risks to cultivation, farmer, environment and consumers themselves. Verticillium Lecanii is a common mushroom described for the first time in 1861. Larva in the first stage Larva is white Vertdogola. If you want to apply, Estich, make sure it is well fermented and free from parasites. Do not associate crops on the same plot. Encourage the proliferation of insect populations Rationalizing the use of plant protection products. This plague was one of the great headaches in horticultural crops, not only because of the direct damage it causes, but it is served as a carrier for the propagation of diseases. Since the development progresses, increase in thickness and size, while the color becomes more opaque. Difficulties over time the realization of the new plantation. Pupa There are contradictions in the use of pupidormal, because in that state the individual is powered and the wetsuit is not produced. The back rises to the center, removing the low marginal areas. The adjustments or changes of this must be carried out by the technical manager of exploitation, under whose responsibility should be applied control of the parasite. The presence of B. The pupa or Ninfa IV has strong ripples, which resembles the resonance box of a guitar. The mortality of immature states is highly variable from a vegetable species to another, focusing mainly, in the egg and from the first stage in larvae. In turn, the state of larva has three phases: I, II and III. Has functional antennas and legs; However, it is little MÁvil, generally staring close to the setting post. Bemisia Tabaci places the wings as a "roof" on the abdomen, forming an approximate angle of 45 years with the surface of the leaf surface. Recommendations in case of poisoning or accident. Eliminates weeds and remains of the harvest, as they can act as a plague tank. Direct damages depend on different factors such as the etA and the structure of the leaf, variety and physiological state. The longevity of adults is very variable depending on the plant and temperature, even if there is also in some cases, a significant variability sometimes maintaining the same temperatures and host systems. Males They can be differentiated from the females through the study of their genitals. Once silence is resolved, transforming larva into a second phase, at that time both the antennas and the legs degenerate. The total fertility of the females is between 100 and 250 eggs, depending on temperature and power supply. For this reason, since it has risen from the plant, the younger populations can be progressively observed. The macrolotus sucks the Savia from the plant, but only occasionally and exceptionally can cause economic damage. Festal in a balanced way to avoid excess force. If the population is very high, it can be produced a weakening of the plant, chlorosis and the descent of the leaves. With the development of the plant, and given the poor mobility of the immature states, this is going into the leaves and more ancient development. At the end of the development it can reach 0.7 mm long of 0.4 mm wide. Pelitre [EC] P / V Pyrethrins 6% [EC] P / V Pyridaben 20% [WP] P / P Potassium salts of vegetable fatty acids 15% [SL] W / V Potaxium salts of vegetable fatty acids 40.13 % [SL] P / V SPRIOUSSIFEN 24% [SC] P / V SpirotetraMat 15% [OD] P / V Tau-Fluvalantol 10% [EW] P / V Tau-Flufalnat 24% [SC] P / V Teflubenzuron 15% [SC] p / v tieloprid 18% [od] p / v tiametoxam 1.2% [qrl] p / p tiptoxam 25% [wg] p / p verticillium lecanii 14.8% (1 x 10 spore / g) [wp] P / P / P Zeta-Cipermetrin 10% [EW] P / V Control with compatible phytosanitary relationships Authorized for this parasite in the struggle integrated by the European Union, the European Agricultural Rural Development Fund: Paraffin AzadiractAf N Beauveria Bassiana Oxamile Pimetrozine Pyretrine Pyretrinas (Pelitre extract) Pyridaben Pyreproxypalen Salts of eating vegetable fatty acids Spiromesifen Teflubenzuron Tieloprid Tiametoxam Verticillium Lecanii biological control The main Available in the market to fight Tetranychus evansi, are as follows: amblycious swirskiÅ ç ertemcerus mundusÅ ç ermocerus ertemocerus eremus rod nesidocoris tenuis the adult has the body of yellow-green color, with stains or dark pieces on the head, antennas and part Back of the body. Activities at low temperatures M. Delay the most as possible, pruning and take it out in a dry climate. Larva in 2 âº âº and the third stage Larva is immobilized. The average longevity of the macrolophus females is 40 days at 25 ° C. 110 days at 15 Å ° C, to be higher than that of males. The intervention criterion here is harvested is indicative. The ripples that will be more appreciable in the last were the Larvariano begin to demonstrate. The female puts between 2.5 and 7.1 eggs / day, there is a significant reduction by lowering temperatures. Female female distribution Preferably applied in the larger leaves, although in some crops prefer the radius. Female adults have the preference for nutrition and ovospation from younger leaves and younger. Egg is eliphite and substantial, with yellow-green coloring. Wear yellow adhesive chromotropic traps from the beginning of the harvest. Use only in the culture for which it is expressly authorized. The official register of phytosanitary products limits the use of each plant protection product to certain crops and parasites / diseases on which the relevant studies were carried out which guarantee that their application (following the instructions for use exposed to the label of each product ) Minimize the risks and guarantee its effectiveness. Measure from 0.9 to 1 mm in length and width of 0.32 mm. In the greenhouses, placed in the double door or in inputs of the door and the shirt of the same density outside (minimum 10x20 yarns / cm2). This way to fold the wings is used for from other species of White (Trialeurode Vaporiorio) that positions them more horizontally. Indirect damages The Melasses segregated by this plague favor the mushroom attack that causes the bold, which reduces the photosynthetic capacity of the plant, as well as the breath of this, and therefore becoming deprecating the quality of the harvest and hinders the penetration of Phytosanitary. The nymphs can be seen in sending leaves. Use authorized doses and techniques (normal spray, sprinkle, etc.). The color is more opaque than the one acquired in the larval phases, and the eyes of the red composite can be observed. The formulations recorded by the Ministry of Agriculture, Food and Environment (Magramra), for its use against this parasite, are the following: Abamectin 0.0015% + Pyrethrin 0.02% [al] P / V Paraffin oil 72% [Ec] p / v paraffin oil 75% [ec] p / v paraffin oil 83% () [ec] p / v paraffin oil 85% [ec] p / v acetamiprid 0.005% [al] w / v acetamiprid 0.5 % [SL] P / V / V AcetamiPrid 20% [SP] P / P Alfa Cipermetrin 10% [EC] P / V Azadiractin 1% (such as azirectin a) [EC] P / V Azirdecina 3.2% [EC] P / V Azirdecina 4.5% [EC] P / V Beauveria Bassian 10.6% (2,11x10e10 Conidines / ml) [SC] P / V Beauveria Bassiana 2.3% (2.3 x 10E9 Viable Conidia / ML) [OD] P / V Beauveria Bassiana 22% (4.4 x 10E10 Conidia / g) [WP] P / P Betaciflutrina 2.5% [SC] P / V CIFLUTRIN 5% [EC] P / V CITTERMETRIN 0.01% [AL] P / V Cibrermetrin 10% [EC] P / V Cipermetrin 2.5% + Chlorpyrifos 36% [EC] P / V Citerin 20% [WP] P / P Cipermetrin 5% [EC] P / V CropsiPOS 20% + FOSMET 15% [EC] P / V chlorpyrifos 25% [wp] p / p chlorpyrifos 27.8% + d inepetd 22.2% [ec] p / v chlorpyrifos 48% [ec] p / v chlorpyrifoolfos 75% [WG] P / P Deltamethrin 1.5% [EW ] W / v deltamethrin 2% + tieloprid 15% [od] p / p deltamethrin 2.5% [ec] p / v phenazaquin 10% [ec] p / v synthetic rubber 100% (plastic plastic sticker) xx] p / P 2.5% [pr] p / p imidacloprid 20% [out] w / v in 5% [WG] P / P Imidacloprid 70% [WG] P / P Lambda Cikalotrin 1.5% [CS] P / V Lambda Cikalotrin 10% [CS] P / V Lambda Cikalotrin 2.5% [WG] P / P 10 Oxamil [SL] P / V Pimetrozin 25% [WP] P / P Pimetrozin 50% [WG] P / P Piretrins 5% [ext. Has been observed in different groups of photopic agents, in particular in Ophidas, Cocheiellias, White flywheel, scratches, hypotms and nematodes and also as saprophytus, and even hyperparery on roves. Reproduction The form of reproduction is parthenic partner (fertilized eggs originating females, eggs without fertilizing the original males). Use healthy vegetable material from Authorized nurseries or seedlings. It measures about 0.2 mm of width of 0.1 mm. Periodic cleaning of cleaning. Fertility of females depends on temperature, guest facilities and the physiological state of these. Marginal mushrooms are not Appreciated. Security term The phytosanitary passport must be held during a year. With a di. The ETA of white fly fertility of eggs reaches the maximum value. Af "" Hit the Rangans State Å £ "affected the symptoms of adult fruit symptoms Fruit Mezzaza and bold plant Yellow yellowing leaf, molasses and bold preventive and cultural measures in greenhouses, Mesh place in the side openings, in the center and doors, and They control the state of the same, especially those that coincide with the direction of the dominant winds. In the greenhouses, the white fly can be parasite of V.Lecanii of course, but the epidemics are rarely given, so there is no good control. Follow The preventive measures based on the toxicological and ecotoxic-polylogical classification of the product. Currently this entomopate is marketed as a beneficial body for the control of white flies and flies. The eggs are deposited dispersed. Caliginosus develops very slowly, for this reason Its use preferably during the spring cycle or in the rest of Å % cals if the crops have heating. It concludes in an extension called Pedicel, with which it is fixed to the vertical position leaf. Towards the end of the twentieth century it has become a key to vegetable and ornamental crops, in tempered climate areas around the world, including the Mediterranean basin. Although it is mainly used against the white fly, the macrolotus also acts on other insect places like caterpillars, resulting in great ally on its control, reaching the number of phytosanitary treatments when there are good mix populations. Both adults and immature states can be positioned in sending leaves, where they perform their business. The adult is yellow-sulfur and has dark black eyes. Do not leave crops at the end of the cycle. Running crop rotations. Chemical control avoid systematic applications, performing them at risk (based on the density of the population and the malicious harvest) and following the recommendations of exploitation, as well as the vegetable health department. Vegetables.

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