



### PARASITIC ROUND WORM

Fatima Sharipovna Nazarova  
Samarkand State Medical Institute, Department of Medical Biology and  
Genetics. The Teachers of Nomozova Sevinch.  
Samarkand State Medical University 1 Course Student

#### Abstract

Nematodes in the earth on the face of the most numerous cell animals are, of them than 80 000 more types described, the same including 2500 to close the plant is parasitic. Nematodes of stretching, segment microscopic serpent similar round worms are, are they useful or useless to be can. They are in the soil and the plants root in the tissue live. The majority of the soil to be beneficial is that, because to them organic substances breakdown to help will. Nematodes of the species, only a small a part of the parasite is, crops to be harmful if it is, the plant roots with feeding through damage of ywill deliver. Some nematodes in the soil, which live in insect pests attack will and biocontrol of the body as used be can. Other insect parasitic nematodes of pesticides be applied to the can as, tirtillara topical basis to be applied can.

**Keyword:** Parasite, fitonematoda, segment, pesticides, ektoparazit, endoparazit, disease, climate, infestatsiya, style asset.

#### Introduction

Bit yhere to discuss which nematodes plant parasitic of as classified. The tree fruit gardens to problems lead cause can which is a multiple nematode species there are. The tree of the fruit to the roots of damage which caused by parasitic nematodes of the apple in the tree Root injury, Root nodes , and the Wedge of nematodes, Cherry , and Pear in a tree Root injury are nematodes. Nematodes with infected young apple trees poorly grow and yields gradually decrease that would be shown it can. This other diseases, symptoms, be , can, this , while the sample from and to the stem , despite the diagnosis to put makes it difficult. Nematodes area problem in the trees, water , or nutritional stress subjected to be can which the poor, sandy soil in worse it will be. Apple replantatsiyasi disease, first place, in the soil fungal pathogens because they come is, although nematodes are also involved be can.

Apple (Maluda spp.)-Replant disease

Reason: Mushrooms, oomitsetlar and nematodes complex apple breeding his patient help , allowing biological factors. That is in addition to, the biological the factors, in particular of the soil, bad structure, moisture stress, low or high pH, available phosphorus lack and cold stress of the disease are the main causes unless they are also, in general , to relieve symptoms development and strengthen can. In some of any one geographical area, the reason factors change stand is, although Washington, New York, Maine, Netherlands and South Africa conducted in the research of the disease to the cause in relation consensus to measure achieved. This apple or pear orchards or pitomniklarga previously planted areas installed the apple of the tree bad and the growth serious,



wide - spread is the reason why. The tree's growth the first year and the garden of life for all is put down, and severe illness due to the tree die be can. Healthy trees with in comparison, the yield from 20% to 50% up to reduce the can and the fruit quality also will decrease.

### RESEARCH MATERIALS AND RESULTS

Soil analysis to make feed ingredients ythe determine and ph adjustment for lime for the need to determine to recommended is. Trees, planting since then replantatsiya diseases that effective treatment can be not.

Monoammoniy phosphate fertilizer (11-55-0 or 11-51-0) 1 g / liter of soil, the amount of planting for oil in the soil with the mixing is no longer recommended are not, because of the high salt concentration in the roots and burn it can. The initial growth growth is, although in practice 5 years after the total profit it produces.

Symptoms of apple replantatsiyasi disease transplant being held after the initial a few year within the tree bad, grow from, in addition to the specific symptoms to be able not. The problematic areas planted strong young trees of the summer at the beginning to grow stops. Affected trees every spring leaves grow, but less or, in general, the growth yield does not. The leaves are strong daraxtlardagi leaves than often smaller and light green color it has. A few new lateral or feeder roots harvested will be and available to the roots, the color will change and deterioration.

#### Cultural control

- Apple or pear garden or nursery recently out thrown a sort of in on the ground apples or pears from planting to avoid. Pomegranate is the fruit of 5-8 years during to become recommended are.
- You have too high or low if it is, the soil pH to follow.
- Ancient garden planting - if, the disease pressure minimizing for old in the garden not, but previous garden drive in the range (in the corridor) of trees set. Field observations that shows, this corridor planting method tree growth response to the old row seeding than better, but fumigatsiya as good is not. Seeding before the important operations conduct not sent to for spring possible as early sow.
- 1,78 tons/akr area in a different amounts of yellow mustard (*Brassica juncea*) and white mustard (*Sinapis alba*) seed seeding before the fall seeding before the soil supplement as use, as well as, mefenoksamni seeding after apply with together with this disease against an effective fight the possibility of returns. complicated.
- The plants from feeding irrigation under proper management methods provide to.
- Geneva 30, 41, 210, 214, 890 and 935, such as resistant ildizpoya from use.

Chemical control. From the plant earlier fumigatsiya very effective and expensive it is, although usually the fruit of the garden of life for himself pays. Safe and effective performance confidence, ensure to for professional aplikator with consult or either 'don't Ila.

- My meta CLR (42%), Sectagon 42 or Vapam HL like my meta-sodium products. Vapam HL 75 56/time pm will be used can. Only 3 feet into go to y, a sufficient amount of water use. Applying before possible as well as many more trees ild residues take awaysh should. Treatment place adjacent trees of injuries can be. 5 - day re - entry. Restricted use of pesticides.



- Mitragynine telo c-17 soil type and penetratsiya depth depending on 32,4 42/time from A pm.Mitragynine telo-from alone do not use;Eastern Washington effective it would be. 5 - day re - entry.Restricted use of pesticides.

Biological control of soil with new soil or well prepared, see the planting soil mixture with replacement or peat 1 part 2 part a planting hole soil ratio with the soil and replace , you should.The data that shows, 6 feet square , or from him a lot and 3 feet in depth of holes most good long - term management provides.

#### **Special nematodes and their loss**

- **Root to infected nematodes**( first place,apple proliferation disease with associated) their teshuvchi-sucking mouth parts (asset-style) with root access, kort tissue feeding and transition through damage of ywill deliver.The same reason they migration endoparazitlari as classified.They are the roots of the fed and the tunnel makes and nutrition for more root find to the soil will return.They in the roots live , and will multiply, this while affected tissue in the soil, the fungus to more easy to access out - comes.Severely infected roots feeder roots and lack of it can be.Apple trees, especially P. pentrans with infected young trees weaker grow and the yield gradually decreased it is going to.Feeding the actual damage clear be can.Root lezyonlari of nematodes see out it washere you can.
- **Root tugunli nematodes**(Meloidogyne spp .) sit endoparazitlardir, i.e. they fed of where to find to root will take.Feeding areas after set up, they root the leave does not.However, their growth with from the root out going can.Their feeding roots in live for some reason feed ingredients and water shortages , such as root function upset get to come.They affected the plants ildizlarida that galls who called himself the specific tumor appearance to lead cause can.
- **Wedge of nematodes**(Xiphinema american drum ) move walk which ektoparazitlar if, external side from the root to attack will , and their length stiletlari with epiderma cml cells with fed.They are usually of the virus vector, for example, apples are a combination of necrosis and decline of the out come of tomato ringspot virus (especially, M106 ildizpoya in red delicious for) , and Cherry rasp leaf virus (CRLV).

- **Common symptoms**

Nematodes your injury and symptoms to identify problematic be can.Nematode populations , type and density, the tree of sensitive affairs and the environment on the conditions of depending, that you have been infected with signs to identify you will not be able.Otherwise without healthy is, many trees working out in a significant loss taking come without, on average , at the level parazitlanishga tolerate , I will.However, nematodes are a problem be, the fruit in the garden poorly growing trees circular of the group you will see, them healthy seems to be. This population density, high cho'ntaklar with associated.Treatment does not make, these patches spread can.Nematodes damage the main land with signs - power lack, of twigs built remain, growth and the crop decline.Ancient trees to become infected xloroz, orange bark, fruit, skin disorders, high sensitivity , and the fruit is the size of the reduction of its own into taking can. The land under the symptoms of feeder roots and the main root of weak growth and roots sticking up from the soil its own into gets.Root knot nematodes infestatsiyasi that galls who called roots of the characteristic swelling



out comes.Observed symptoms nematodes by an indication that has been enforced upon the approval of the only way the soil and / or root tissue of attention with check in.

### **Samples get**

Management decisions take to for available nematode species and their populations, the density of know it is. You before the garden or crop fruit of the trees of pests to the list included a different type of nematodes cause that is the problem , if it is, populations to the level of young trees to damage caused can. If nematodes species previously not detected if, soil samples take and identification for a diagnostic laboratory to send should.The summer of the end or is autumn at the beginning of populations most high zichlikda and make it easier to identify when samples to take better it is.Soil and root samples feeder roots are there that point , depending on, 6 inches to 36 inches, the depth, the tree tomchilagida is taken.General procedures in a single container into a handful of the soil and other one of a handful of feeder roots in.Thin feeder roots from samples to take is important, because nematodes larger roots than them with feeding preferred to see.Given the area from from 10 to 20 pm small sample take, the soil thoroughly mix and a single sample into combined to obtain.One tree from the sample to obtain, tree size , depending on, two life - five a small sample to take.Damage 100 g soil in 50 from 20 pm to nematodes out lead can; however, that of numbers the range is only recommended the damage is the extent of.Numbers are repeated studies are based, however , the local soil types, climate, humidity and other factors of very large difference it makes, so for us a number of our representation not make can.Nematodes also determine and test the transfer services that provide laboratories with a list of for thisin the linkto visit get ordered . The sample removing before the test in the lab to appeal to the making and filing and trial of the price get to contact you should.

### **Control condition**

Nematodes are usually infected soil or plants that are new places are introduced and them gardenmechanisms with a field from a man had two sons, the two get to the switch , you can.Re - seeding before the old roots get to to remove and resistant to root stems and certified clean plants, to choose the nematodes control make to good preventive measures are.Soil nematodes (for example, root nodes) the plant remnants remain, fumigatorlar effective will not be.Trees whole vegetation period to decrease signs monitor can and the nematodes with infected doubts if, management decisions for the available type and their populations, the density of know it is. The plant grown plants from planting previous fumigantlardan, from the plant to the next nematsidlardan, short - term biological control (for example, marigoldlar), green manure cover crops from or biofumigantlardan use. Brassica and the mustard - like bio-nematisidlar organic and conventional growers by be used can. Bio-nematisidlar useful microorganisms and nematodes to exposure without, nematodes and other pathogens to toxic be can that chemical compounds production through plant parasitic nematodes of the reduce ability to have .

### **Fumigatsiya**

Gardens, usually, re - seeding before the soil body killing for methyl bromine or other treatments with seeding before fumigatsiya is.Fumigantlar - these beneficial organisms killing by the soil health on negative effects display can which broad - spectrum biotsidlar.Fumigantlar so long continue will, then the nematodes populations be back in may. Methyl bromine now the



international ban under suspension, so to an alternative fumigantlar and treatments required. In us rural economy research station at Washington state university with the collaboration out go and studies of methyl bromine fumigatsiyasiga an alternative method is directed. This alternative methodan some of below listed.

### Research Methods

Cultural and alternative control methods

To nematodes against the fight of the various methods used are:

- Harvest - this field for 3 years from 5 years to sensitive to be or resistant plants planted in practice. Do this to seeding before the old roots to get to remove you need.
- Green mustard manure like soil attachments nematodes and soil with transmitted diseases suppress and soil quality improve to be used can.
- Resistant nematodlarsizcertified the stem of the stem or from seedlings of use , you should.
- Cover crops planted If root nematodes *P. vulnes* available if it is, that type for low taller what fes, red fescue or many annual rye , such as fruit garden in ground cover as it will be covered. However, this *P. penetrans* to host and this type is available if it is, work should. Mustard roots of nematodes and the host is, if these nematodes are there if, it avoid you should. In the soil mikrobial shifts causing out who or pathogen suppression for antibiotic , the function of which was to some a tin crops (e.g., wheat and Sudan grass) the soil quality to help to give with along nematodes and soil with transmitted diseases is also effective in case of treatment, the vis a known area of mul lezyon of nematode populations decrease determines.
- The soil solarizatsiya to fumigatsiyaga alternative as used method. The soil do not naml and transparent plastic with a close. Summer is the most hot in the period 4-6 weeks for in-place to leave. The soil temperature 30 minutes for 125 ° f when it reaches, root knot nematodes, this particular eggs die will. This about a year for works, because only the soil of the upper foot is heated.

### References

1. Nazarova F.Sh. Matkarimova G.M. "I ZABOLEVANIYA NEYROMISHECHNIE MOLECULAR IX-GENETICHESKIY PRINCIPLE" Data publikasi 2019 please. Materials konferentsii "INTERNATIONAL INNOVATIVE RESEARCH", Stranisi 180-182.
2. Nazarova F.Sh. Matkarimova G.M. "PRIDE DIXANIE VIPOLNENII SILOVIX UPRAJNENIY" data publikasi 2019 g., materials konferentsii "NAUKA INTEGRATION, OBTSHESTVA, PROMISHLENNOSTI I PROIZVODSTVA", Stranisi 22-25.
3. Matkarimova Gulnaz Maksudzhanovna, Nazarova Fatima sharipov has the features "USEFUL properties of medicinal plant materials" Data publikasi of 2020/6/11, Magazine "Archive of conferences", Tom 1, Number 1, Stranisi 125-127.
4. Nazarova Fatima has the features sharipov, the "ecological bear filets of your group of phytonematodes plan", Data publikasi of 2021/8/30, Magazine "ResearchJet journal of analysis and Inventions", Tom 2, Number 08, Stranisi 64-69.
5. Nazarova Fatima has the features sharipov, Soatov Oybek Farhodovich "Use of montmorillonite mineral group mineral bento balanced Nutrition.", Data publikasi of 2022/4/18 g. Magazine, "Texas journal of Multidisciplinary Studies", Track 7, Stranisi 234-237.



6. F. Nazarova, N. Djumanova, Murodullayeva B., "PROPERTIES OF MORPHO-physiological and biochemical SPECIALIZATION OF HELMINTHS", Data publikasi of 2023. yes, please. The journal "science and innovative", Tom 2, Number D2, Stranisi 283-286.
7. The hump sharipov be Nazarova, Nargiza eshmamatovna Djumanova, Parizoda husanov be Doniyorova, "karbonsuv galaktozemiya irsiylanish metabolism disorder and disease, symptoms, diagnosis", Data publikasi of 2023/3/1, Journal "Innovations in technology and science education", Tom 2, Number 7, Stranisi 438-445.
8. The hump sharipov be Nazarova, Nargiza Eshmamatovna Djumanova, Parizoda xusanov be Doniyorova, "DIAGNOSTIC SIMPTOMOV UGLEVODNOGO OBMENA I NARUSHENIYA I NASLEDSTVENNOSTI GALAKTOZEMII", 2023/3/1 of data publikasi, Journal "Innovations in Technology and Science Education", Tom 2, number 7, Stranisi 446-454.
9. Fatima sharipov be Nazarova, Istamova Zarina, "BILHARZIELLIDAE Properties of trematodes of the family", Data publikasi of 2023/5/15, the journal "INTERNATIONAL journal of health systems and medical science", Tom 2, Number 5, Stranisi 136-139.
10. Fatima sharipov be NAZAROVA, Rukhshona Nurbekovna Kuvondikova, "and its importance in stem cell medicine", Data publikasi of 2023/11/11, the magazine "Ethiopian international journal of multidisciplinary research", Track 10, Number 11, Stranisi 126-129.
11. Fatima sharipov be Nazarova, Gulnoza Maksudjanovna Matkarimova, Gulchexra Xamrokulovna Nazarova, "Lechebnie bento svoystva" Data publikasi 2020, Magazine "nauka I obrazovaniya Dostijeniya", Number 5 (59), 93-97 Stranisi, Izdatel OOO "Olimp".
12. Fatima sharipov be Nazarova, Gulnaz Maksudjanovna Matkarimova, "Morfo-fiziologicheskie I svoystva bioximicheskie prisposobleniya gelmintov" Data publikasi of 2019, the magazine "Issue nauka", number 4 (40), Stranisi 26-27, Izdatel OOO "Olimp".
13. Fatima sharipov be Nazarova, Gulnaz Maksudjanovna Matkarimova, "ix Gelmintozni cheloveka I morfo-fiziologicheskie svoystva prisposobleniya" Data publikasi 2020, Magazine "nauka I obrazovaniya Dostijeniya", Number 5 (59), Stranisi 89-92, Izdatel OOO "Olimp".
14. Fatima sharipov be Nazarova, NE Djumanova, "Biologicheskaya I mikroelementov v ix sodержanie role epidermalnix obrazovaniyax", publikasi data of 2022, the magazine "Ekonomika I sosium", Number 1-2 (92), 94-102 Stranisi, OOO Izdatel "I upravleniya sosial-Institute-ekonomicheskogo razvitiya".
15. Fatima sharipov be Nazarova, Nargiza Eshmamatovna Djumanova, "Ispolzovanie bento azkamarskogo mestorojdeniya beginning balansirovaniya mineralnogo pitaniya", publikasi data of 2021, "Journalof academic research in educational science", Tom 2, number 9, 672-679 Stranisi, OOO Izdatel "Academic Research".
16. HA Xudayberdieva, fb to Nazarova, NE Djumanova, "sostav ekologicheskogo sravnitelniy analysis in fitonematod", publikasi data of 2021, magazine "forum molodix uchenix", number 4 (56), 381-385 Stranisi, OOO Izdatel "I upravleniya sosial-Institute-ekonomicheskogo razvitiya".
17. Nazarova to fb, GX Nazarova, ZB Islamova, "BIOLOGICHESKIE I FIZIKO-ego ispolzovanie kak istochnika I svoystva ximicheskie azkamarskogo bento MINERALNOGO

- PITANIYA", publikasi data of 2021, Magazine "I Ekonomika sosium", number 4-2 (83), 244-251 Stranisi, OOO Izdatel "I upravleniya sosial-Institute-ekonomicheskogo razvitiya".
18. Fatima sharipov be Nazarova, "EPIDERMALNIE ZAGRYAZNENIYA I OBRAZOVANIYA KAK OKRUJAYUTSHEY SR INDICATOR of anthropogenic GEOXIMICHESKIMI ISTOCHNIKAMI", 2023/11/1 of data publikasi, Journal "Innovations in Technology and Science Education", Tom 2, number 15, Stranisi 680-690.
  19. SS Abdurakhimova FS Nazarova, "putin pochi mochevivodyatshie zabolevaniya I I ix", 2024/4/8 of data publikasi, Magazine "Nauka I Obrazovanie XXI vek" the Number 49-1, 131-138 Stranisi, Izdatel: Nauchno-obrazovatelnyy the electronic journal.
  20. Fatima sharipov be Nazarova, Joy salimov be Abdurakhimova, "and track their attempt and kidney DISEASES", Data publikasi of 2024/4/6, Journal: Western european journal of medicine and medical Science, Tom 2, Number 4, Stranisi 32-36.
  21. The hump sharipov be Nazarova, Rukhshona Nurbekovna Kuvondikova, "TOKSOPLAZMOSIS GON", Data publikasi of 2024/3/22, Journal: British journal of global ecology and sustainable development, the roof 26, Stranisi 56-59.
  22. Fatima sharipov be NAZAROVA, "your plan ecological group of PHYTONEMATODES.", Data publikasi of 2024/3/5.
  23. The hump sharipov be Nazarova, Khidirnazarov Mohammed, "Parasitic phytonematodes", Data publikasi of 2024/2/23, Journal: a global scientific review, Tom 24, Stranisi 63-68.
  24. The hump sharipov be Nazarova, Jasmine Khalimova, "PARASITIC HELMINTHS and their BIOCHEMICAL and physiological characteristics", Data publikasi of 2024/2/22, Journal: web of Teachers: Inderscience Research, Track 2, Number 2, Stranisi 137-140.
  25. Fatima sharipov be Nazarova, Jasmine in xalimov, "ix I I helminth parasite bioximicheskaya CHARACTERISTIC FIZIOLOGICHESKAYA", publikasi city dannix 2024 god Journal: Vostochniy renaissance: innovative, obrazovatelnie, nauka I estestvennie sosial, Tom 4, Chislo 3, 656-660 Stranisi, OOO Izdatel "Vostochniy Renaissance".
  26. Fatima sharipov be Nazarova, Shaxzod Aslanov, "biological significance of biologically active substances in the body, DISEASES of the lack of biologically active substances from your aris", Data publikasi of 2023/12/21, Journal: web of Medicine: journal of medicine and practice in the light of, Tom 1, Number 9, Stranisi 32-35.
  27. Fatima sharipov be Nazarova, Nargiza Eshmamatovna Djumanova, "Ekologicheskoe Gruppyrovaniye Fitonematod Rasteniy", 2023/6/6 of data publikasi, Journal: Miasto Przyszłości, Tom, 36, 24-30 Stranisi.
  28. The hump sharipov be Nazarova, Rukhshona Nurbekovna in quvondiqov, "On the cells and its in medicine, the importance of"Data publikasi 2023 Journal: Science and Education, Tom 4, number 11, 28-32 Stranisi, OOO Izdatel "Open science".
  29. Matkarimova Gulnaz Maksudzhanovna, Nazarova Fatima has the features sharipov, "PARASITES found in fish and their PROPERTIES", Data publikasi of 2020/6/11, Journal: Archive of conferences, Tom 1, Number 1, Stranisi 130-131.
  30. Fatima sharipov be Nazarova, Gulnoza Maksudjanovna Matkarimova, Gulchexra Xamrokulovna Nazarova, Gulnora Normuratovna Mamurova, Nargiza Eshmamatovna Djumanova, "ZNACHENIE KAK ISTOCHNIKA BENTO MIKROELEMENTOV", Data will publikasi 2019, Materials konferentsii: International scientific review of the problem of natural science and medicine, Stranisi 331-343.