# Session Title: pratylenchus india

**Pest:** Pratylenchus loosi (root lesion nematode)

**Country/area at risk:** India

**Date created:** 08 February 2021

**Last modified:** 08 February 2021

**PRA Session:** P05104

|  |
| --- |
| **Scope of PRA** |
| Airlines |
| **PRA Area** |
| UK |
| **Reason for PRA** |
| Demo or test PRA |
| **Do previous PRAs exist for this pest?** |
| No |
| **Details of previous PRAs for the pest in the PRA area** |
| Not applicable |
| **Details of other previous PRAs for the pest** |
| Not applicable |

This form was exported from [www.cabi.org/PRA-Tool](https://www.cabi.org/pra-tool) on 08 Feb 2021 to edit offline. The PRA account holder can import the new content back into the tool by opening the matching PRA in the online tool, going to the pathway pest list entry for the pest and selecting Import from Word from the User action menu.

The content in this form will replace any risk assessment and risk management ratings and text that have been entered online; the new references will be appended to the PRA. The PRA can then be completed in the online tool.

A pdf version of the pest datasheet has been downloaded from the Crop Protection Compendium. If you have access, you can view the datasheet online [here](https://www.cabi.org/cpc/datasheet/43898)

**Contents**

Pest categorization

Risk assessment

Probability of entry

Probability of establishment

Probability of spread

Potential economic, environmental and social consequences

Risk assessment summary

Risk management

At place of production

Etc.

Conclusion of pest risk management

PRA summary

Next steps

References

# Pest Categorization

**Identity**

identity  
*Taxonomic*  
**Preferred Scientific Name:** Pratylenchus loosi Loof, 1960  
**Preferred Common Name:** root lesion nematode  
**International Common Names:**  
       **English:** Loos' root lesion nematode; meadow nematode; nematode, Loos' root lesion  
       **French:** anguillule de racines du theier  
**Phylum**: Nematoda; **Family**: Pratylenchidae;

**Presence or absence in the PRA area**

xyz

**Regulatory status of the pest in the country/area at risk**

Regulated non-quarantine pest, present in the country/area but whose presence in plants for planting affects its intended use

**Regulatory status of the pest elsewhere**

xyz

**Distribution summary**

xyz  
Distribution from the Crop Protection Compendium (08/02/2021)  
**Africa:** Senegal  
**Asia:** Bangladesh, China (Sichuan), India (Delhi, Himachal Pradesh, Kerala, Rajasthan, Sikkim, West Bengal), Iran, Japan (Honshu, Kyushu, Ryukyu Islands, Shikoku), South Korea, Sri Lanka, Taiwan, Turkey  
**Europe:** Bulgaria  
**North America:** Guadeloupe, United States (Florida)  
**Oceania:** American Samoa, Australia (New South Wales), Cook Islands  
**South America:** Brazil (Mato Grosso), Chile

**Association with host plants**

xyz

**Potential for establishment in the PRA area**

xyz

**Potential for economic, environmental and social consequences in the PRA area**

xyz

**Summary of categorization of Pratylenchus loosi (root lesion nematode)**

Does the pest have the potential to qualify as a quarantine pest? Yes

# Risk Assessment

## Probability of entry

### Pathway: Plants for planting

abc

|  |  |
| --- | --- |
| **1. What is the probability of the pest being associated with the pathway at origin?** | Add rating: |
| Medium |
| Add confidence level: |
| High |
| Notes: | |
| xyz | |

|  |  |
| --- | --- |
| **2. What is the probability of the pest surviving during transport?** | Add rating: |
| Medium |
| Add confidence level: |
| High |
| Notes: | |
| xyz | |

|  |  |
| --- | --- |
| **3. What is the probability of the pest surviving or evading existing pest management procedures?** | Add rating: |
| Medium |
| Add confidence level: |
| High |
| Notes: | |
| xyz | |

|  |  |
| --- | --- |
| **4. What is the probability of transfer to a suitable host or, in the case of potential weeds, habitat?** | Add rating: |
| Medium |
| Add confidence level: |
| High |
| Notes: | |
| xyz | |

**Summary**

|  |  |
| --- | --- |
| Add summary rating: | Add summary confidence level: |
| Medium | High |
| Add a summary note: | |
| xyz | |
| Do you consider this pathway a major or a minor pathway? Yes | |
| Does this pathway require management measures?Yes | |

### Pathway: Seeds for planting

abc

|  |  |
| --- | --- |
| **1. What is the probability of the pest being associated with the pathway at origin?** | Add rating: |
| Medium |
| Add confidence level: |
| High |
| Notes: | |
| xyz | |

|  |  |
| --- | --- |
| **2. What is the probability of the pest surviving during transport?** | Add rating: |
| Medium |
| Add confidence level: |
| High |
| Notes: | |
| xyz | |

|  |  |
| --- | --- |
| **3. What is the probability of the pest surviving or evading existing pest management procedures?** | Add rating: |
| Medium |
| Add confidence level: |
| High |
| Notes: | |
| xyz | |

|  |  |
| --- | --- |
| **4. What is the probability of transfer to a suitable host or, in the case of potential weeds, habitat?** | Add rating: |
| Medium |
| Add confidence level: |
| High |
| Notes: | |
| xyz | |

**Summary**

|  |  |
| --- | --- |
| Add summary rating: | Add summary confidence level: |
| Medium | High |
| Add a summary note: | |
| xyz | |
| Do you consider this pathway a major or a minor pathway? Yes | |
| Does this pathway require management measures?No | |

|  |
| --- |
|  |
| **Summary note for probability of entry** |
|  | |

## Probability of establishment

|  |  |
| --- | --- |
| **1. What is the probability that suitable hosts or, in the case of potential weeds, habitats are available in the PRA area?**  **Factors to consider**   * abundance of main hosts and alternate hosts and how they are distributed * geographic proximity of hosts/habitats to pathway destinations * presence of other suitable plants that could be new hosts | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **2. If transmitted by vectors, what is the probability that suitable vectors are available in the PRA area?** | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **3. What is the probability that climatic conditions and other abiotic factors will allow the pest to establish in the PRA area?**  **Factors to consider**   * compare the known distribution of the pest with ecoclimatic zones in the PRA area * whether hosts are grown in protected cultivation * soil factors for soilborne pests | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **4. What is the probability that existing control measures for other pests in the PRA area are unable to prevent establishment?**  **Factors to consider**   * cultural practices e.g. irrigation, planting, harvesting methods etc. * pest control programmes | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **5. What is the probability that existing natural enemies in the PRA area are unable to prevent establishment?** | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **6. What is the probability that other biological characteristics of the pest will enable establishment?**  **Factors to consider**   * reproductive and survival strategies * genetic adaptability * minimum population needed for establishment | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **7. What is the probability of establishment under foreseeable climate change conditions?**  **Factors to consider**   * climate change projection * climate change factors that affect the pest’s reproduction and survival * climate change factors that affect the pest’s hosts, vectors or habitats | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

**Summary**

|  |  |
| --- | --- |
| Add summary rating: | Add summary confidence level: |
| None | None |
| Add a summary note: | |
|  | |

## Probability of spread

|  |  |
| --- | --- |
| **1. What is the expected rate of natural spread in the PRA area?**  **Factors to consider**   * rate and distance of spread elsewhere * natural barriers in PRA area | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **2. If transmitted by vectors, what is the expected rate of spread by vectors in the PRA area?**  **Factors to consider**   * rate and distance of spread elsewhere | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **3. What is the expected rate of spread with commodities or conveyances in the PRA area?** | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **4. What is the probability of the pest spreading to an area of higher economic importance than the area of introduction?** | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **5. If a commodity pathway has been identified as one of the pathways of entry, what is the probability that the intended use of the commodity increases the rate of spread?**  **Factors to consider**   * whether intended for planting, processing or consumption * disposal of waste, by-products * number and location of expected destinations | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **6. What is the potential rate of spread under foreseeable climate change conditions?**  **Factors to consider**   * climate change projection * climate change factors that affect the dispersal of the pest | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

**Summary**

|  |  |
| --- | --- |
| Add summary rating: | Add summary confidence level: |
| None | None |
| Add a summary note: | |
|  | |

## Potential economic, environmental and social consequences

|  |  |
| --- | --- |
| **1. What is the level of economic loss to agriculture, forestry or horticulture associated with this pest in its existing geographic range?**  **Factors to consider**   * reduction in crop yield or quality * reduction in prices or demand, including export markets * increase in production costs (including costs of control) * vectoring of other pests of economic importance | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **2. What is the level of potential economic loss to agriculture, forestry or horticulture in the PRA area?**  **Factors to consider**   * reduction in crop yield or quality * reduction in prices or demand, including export markets * increase in production costs (including costs of control) * vectoring of other pests of economic importance | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **3. What is the level of negative impact on native biodiversity associated with this pest in its existing geographic range?**  **Factors to consider**   * threat to native species, with special focus on threatened and keystone species * changed community structure * hybridization with native species | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **4. What is the level of potential negative impact on native biodiversity in the PRA area?**  **Factors to consider**   * threat to native species, with special focus on threatened and keystone species * changed community structure * hybridization with native species | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **5. What is the level of negative impact on ecosystem patterns and processes associated with this pest in its existing geographic range?**  **Factors to consider**   * physical modifications of habitats * changes in nutrient cycling and availability * modifications of natural successions * changes in trophic and mutualistic interactions | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **6. What is the level of potential negative impact on ecosystem patterns and processes in the PRA area?**  **Factors to consider**   * physical modifications of habitats * changes in nutrient cycling and availability * modifications of natural successions * changes in trophic and mutualistic interactions | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **7. What is the level of negative social impact associated with this pest in its existing geographic range?**  **Factors to consider**   * unemployment * health effects * recreation, tourism, education or spiritual impacts * aesthetics | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **8. What is the level of potential negative social impact in the PRA area?**  **Factors to consider**   * unemployment * health effects * recreation, tourism, education or spiritual impacts * aesthetics | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

|  |  |
| --- | --- |
| **9. What is the level of potential negative impact in the PRA area (for all sectors) under foreseeable climate change conditions?**  **Factors to consider**   * climate change projection * climate change factors that affect the pest’s reproduction and feeding habits * number of generations per year | Add rating: |
| None |
| Add confidence level: |
| None |
| Notes: | |
|  | |

**Summary**

|  |  |
| --- | --- |
| Add summary rating: | Add summary confidence level: |
| None | None |
| Add a summary note: | |
|  | |

## Risk assessment summary

Does the pest require phytosanitary measures? --Select--

|  |  |
| --- | --- |
| Add a summary note: | |
|  | |

# Pest risk management

This section will only be uploaded into the Risk Management section in the PRA Tool if you have answered 'Yes' to the question 'Does the pest require phytosanitary measures?'. Please check the management option you wish to select and provide details in the text box below it.

## Pathway of Entry

|  |  |  |
| --- | --- | --- |
| |  | | --- | | Plants for planting | |  | |

## After entry

|  |  |  |
| --- | --- | --- |
| |  | | --- | | Inspection or testing in post-entry quarantine | |  | |
| |  | | --- | | Surveillance, containment and eradication | |  | |
| |  | | --- | | Restriction on end use or distribution | |  | |

## Other

|  |  |  |
| --- | --- | --- |
| |  | | --- | | Add the pest to the official list of regulated pests | |  | |
| |  | | --- | | Add pest to alert list | |  | |
| |  | | --- | | Initiate risk communication | |  | |
| |  | | --- | | Data deficient, further research needed | |  | |
| |  | | --- | | Appropriate measures have not been identified | |  | |
| |  | | --- | | Not assessed | |  | |

# Conclusion of pest risk management

Add a summary note:

|  |
| --- |
|  |
| Are management options for Pratylenchus loosi (root lesion nematode) complete? --Select-- |

# PRA summary

|  |
| --- |
|  |
|  |

# Next steps

# Contact Details

|  |
| --- |
|  |
| Change PRA status to complete? --Select-- |
|  |

# References

|  |
| --- |
|  |
|  |

**References already saved in the PRA Tool** (this is provided for information only and will be uneditable in Word; new references will be added in separate section)

Text entered -First reference

Please add references to the 'New references' text box above.