

Blast in Paddy

Pyricularia oryzae Vernacular Name: Kulai Noi



Damaged leaf (Photo source: MSSRF, Thiruvaiyaru)



symptom (Photo source: MSSRF, Thiruvaiyaru)



Nodal blast (Photo source: MSSRF, Thiruvaiyaru)

Prevention	Monitoring	Direct Control	Direct Control	Restrictions
<ul style="list-style-type: none"> Decompose the straw and stubbles after the harvest. Use a tolerant variety such as CO 47, CO 50, ADT 36, ADT 37, ASD 16, ASD 20, ADT 39, ASD 19, TPS 3, White ponni, ADT 44, CORH, Palghuna, Swarnamukhi, Swathi, Prabhat, IR-64 and IR – 36. Avoid planting of susceptible varieties like BPT-5204. Avoid dry nursery management. Avoid late season planting (November month). Apply recommended level of Nitrogenous fertilizer in three split doses 50% basal, 25% in tillering and 25% in panicle initiation stage. Avoid excess application of Nitrogen fertilizer. 	<ul style="list-style-type: none"> Cloudy skies, frequent rain, drizzles, high relative humidity (90% and higher) and temperatures of 25-28°C Carry out regular observation from nursery to active tillering stage. Initial symptoms are white to gray-green lesions or spots with brown borders. Small specks originate on leaves surface -subsequently enlarge into spindle shaped spots with ashy center. It affects all the parts leaf, neck and nodal portions. 5% ETL disease severity noticed in the field. 	<ul style="list-style-type: none"> Seed treatment with <i>Pseudomonas fluorescens</i> talc formulation @10g/kg of seed. Root dipping of seedlings in <i>Pseudomonas fluorescens</i> @ 2.5kg, dipped for 30 minutes. Spray <i>Pseudomonas fluorescens</i> talc formulation @ 10gm/ litre of water from 45 days after transplanting at 10 days intervals, three times of application. 	<ul style="list-style-type: none"> Avoid spraying during the neck stage of crop damage. Kasugamycin 3% SL @ 3.5ml/ litre of water. Azoxystrobin 23% SC @ 2 ml/ litre of water. Tebuconazole 25.9% m/m EC @ 2ml/litre of water. Tricyclazole 75% WP @ 2.5gm/ litre of water. 	<ul style="list-style-type: none"> WHO Class U (IV) (Unlikely to present acute hazard), Antibiotic, Systemic with translocation action. WHO Class U (IV) (Unlikely to present acute hazard), Methoxyacrylate Strobilurin, Systemic fungicide. WHO Class II (Moderately hazardous), Conazole (triazole group), Systemic fungicide. WHO Class II, Chemical group unclassified, Systemic fungicide

India

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