

#### .....Indian scenario

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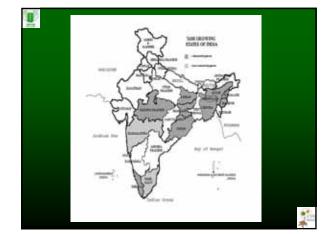
In India Yams are cultivated practically in all the states

 Major yam producing states are, Andhra Pradesh, Assam, Bihar, Gujarat, Kerala, Maharashtra, Orissa and West Bengal.

• *D. alata* is the main species cultivated commercially followed by D. esculenta in some places

 Consumption is relatively more in Orissa, West Bengal and Kerala.

• In India it is mostly peeled, boiled and consumed .



### .....At Central Tuber Crops Research Institute

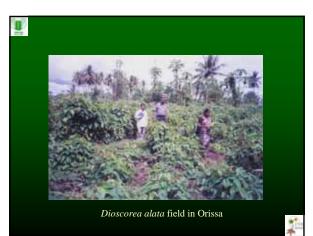
### Survey revealed

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- -the incidence of mosaic in Thiruvananthapuram, Pathanamthitta, Kollam and Alapuzha districts of Kerala,
- -East Godavari and West Godavari districts of Andhra Pradesh, -Khurdha and Ganjam districts of Orissa.
- $\ensuremath{\bigstar}\xspace$  The incidence varies between 0 to 100 % depends on the varieties .







### .....Disease incidence in the world

### ➤Nearly ten different viruses have been reported to infect yams (*Dioscorea* sp) around the world ≻Seven are important

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- Dioscorea alata badnavirus (DABV),
- Dioscorea alata ring mottle virus (DARMV),
- Dioscorea trifida virus (DTV),
- Dioscorea dumeratum virus (DDV)
- Chinese yam necrotic mosaic virus (CYNMV)

## SYMPTOMS OBSERVED IN INDIA











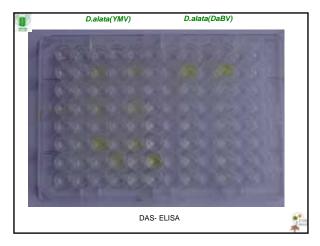


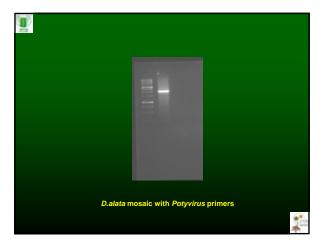


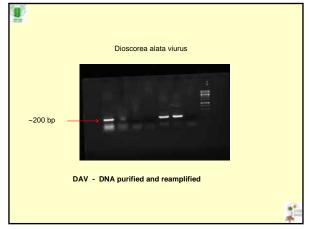


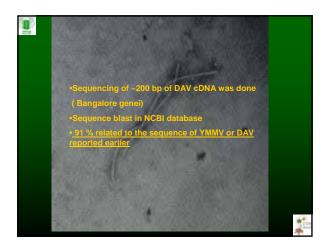














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# CONCLUSION

- Virus diseases are common in all the yam growing areas of India
- Four different viruses have been identified through Serological and Nucleic acid based techniques
- DAV was found all the three edible species, YMV in *D.alata* and *D. rotundata* and DABV only in *D.alata*
- Dioscorea alata virus(DAV) or Yam mild mosaic virus (YMMV) is severe at present
  Incidence varies between varieties

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