**Stripe (Yellow) Rust of Wheat:**

**Description and Importance:**

* Generally occur throughout wheat production areas at low temperature
* Losses due to this are 50-55% with some field destroyed completely

**Etiology:**

Causal organism: *Puccinia striformis* f.sp. *tritici*

Order: Uredinales

Family: Puccinaceae

**Symptoms:**

* Small yellowish uredia appear in narrow linear rows on the leaf.
* Uredia can also be seen on spikes.
* Yellow spore mass is exposed for wind dispersal.
* Plants show poorly developed root system

**Disease cycle:**

* Uredospores are single source of inoculum
* Inoculum comes from volunteer plants
* Fungus survive between crop seasons by dormant mycelium & uredia
* Windblown uredospores are secondary source

**Epidemiology:**

* Free water on leaves & temp 0-25°C required for spore germination
* Appear in Dec, Jan, opt temp 12.8-18.3°C

**Management:**

* Resistant varieties (Anaj 2017, Akbar 2019)
* Cultivation of early sowing and early maturing varieties.
* Avoiding thick sowing and heavy irrigation.
* Avoiding heavy doses of nitrogenous fertilizers.
* Judicious use of potassic fertilizer help in minimizing the susceptibility of plants
* Use fungicides i.e. Nativo, Bayleton, Tilt