

WELCOME



FLOWER BIOLOGY OF WHEAT

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INTERODUCTION

- COMMON NAME :- Wheat
- BOTANICAL NAME:- Triticum aestivum
- FAMILY:- Graminae (poaceae)
- ORIGIN:- South West Asia
- CHROMOSOME:- $n=7$, $2n=42$

IMPORTANCE

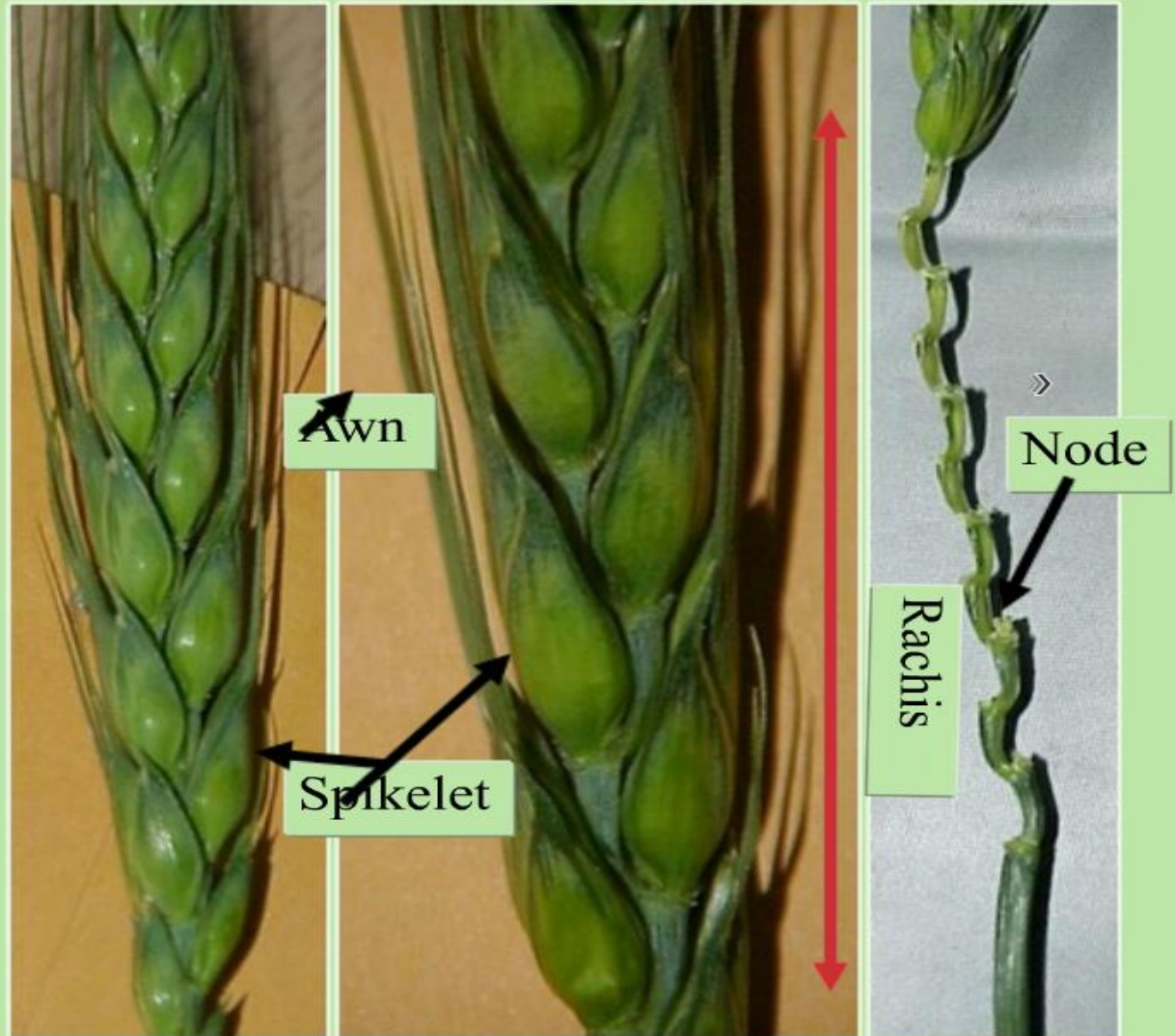
- PROTEIN:- 11-12%
- CARBOHYDRATE:- 67-70%
- TEST WEIGHT:- 40 gm.
- SHELLING:- 60%
- DWARFING GENE:- **Norin**

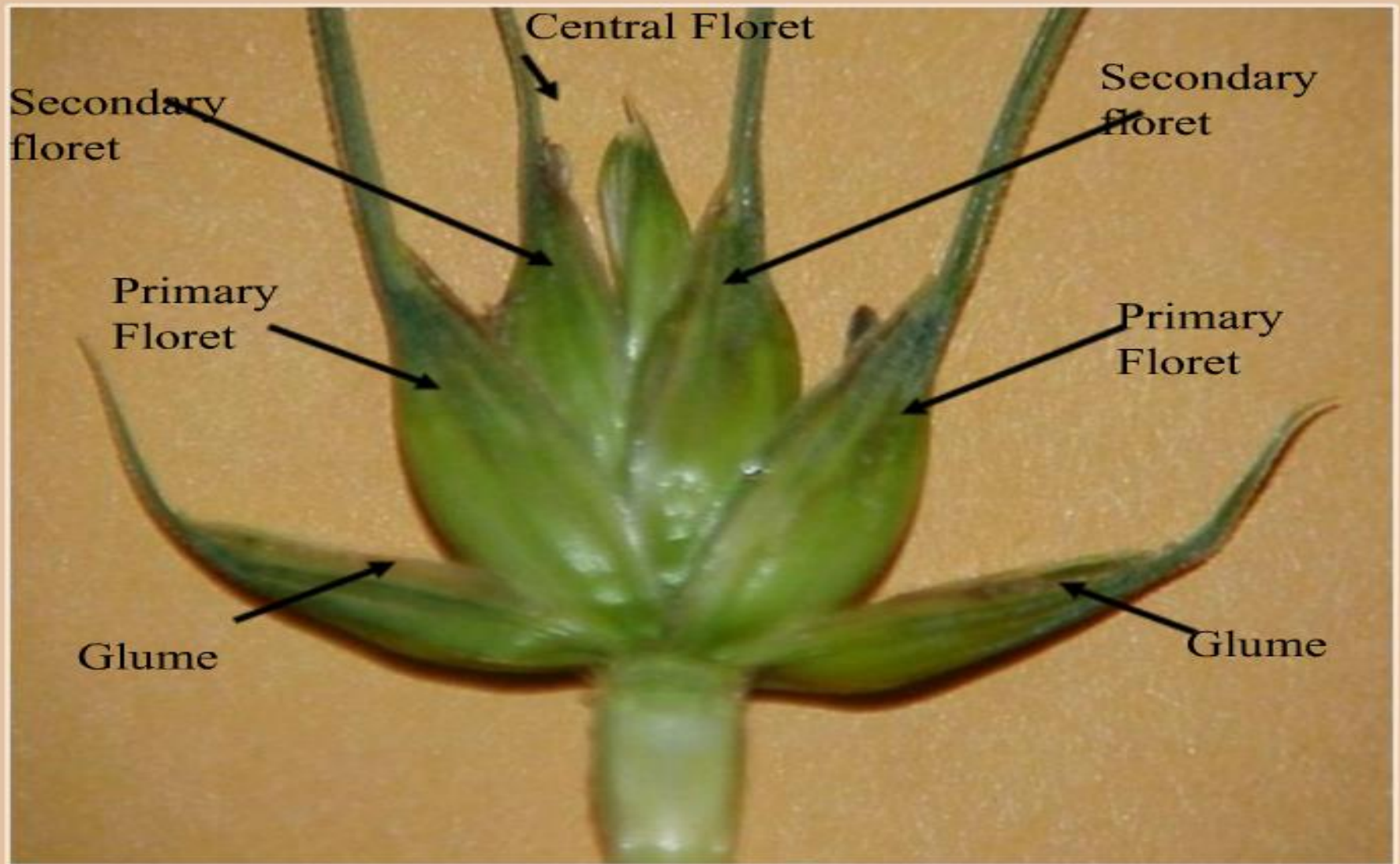
CLASSIFICATION

KINGDOM	PLANTAE
ORDER	POALES
FAMILY	POACEAE (GRAMINAE)
SUB FAMILY	POOIDEAE
GENUS	<i>Triticum</i>
SPECIES	<i>aestivum</i>

FLOWER PARTS :-

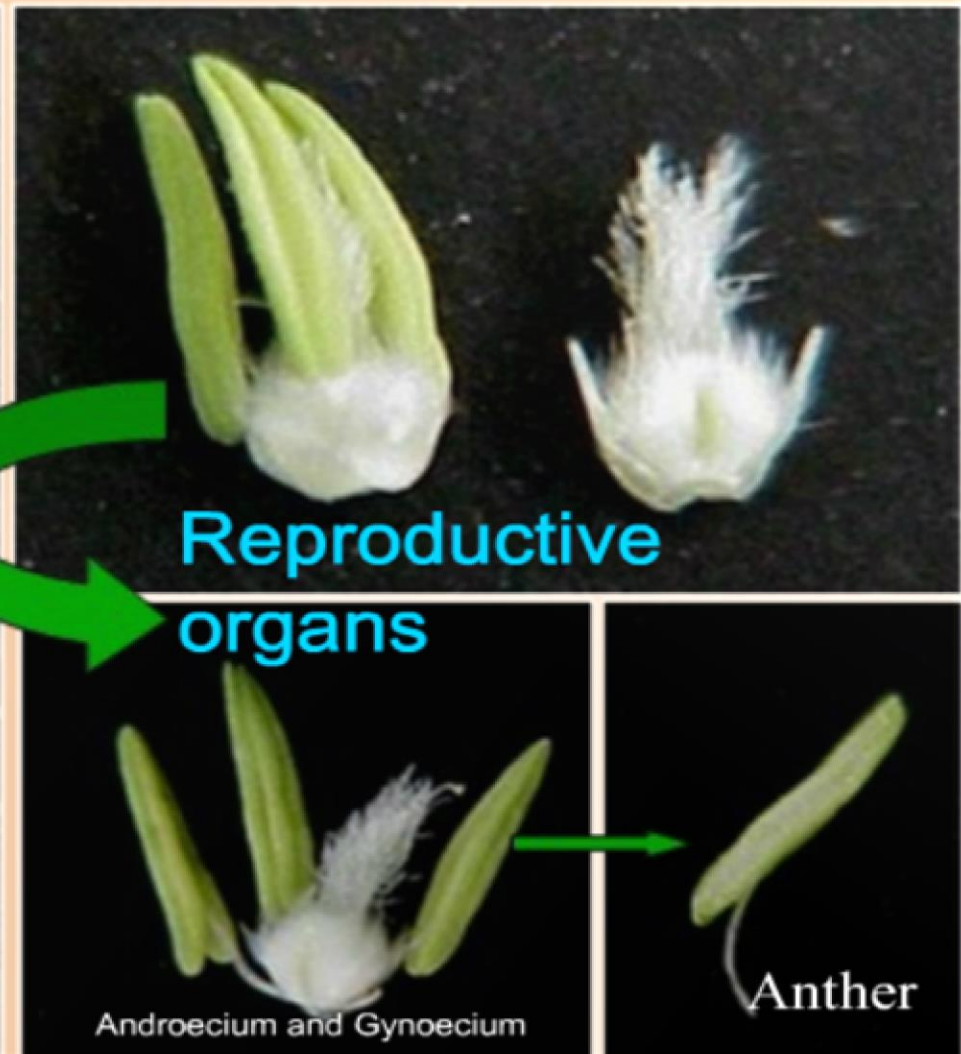
- Wheat inflorescence is known as **Spike**.
- **Awn** is the extended part of **lemma**.
- Spikelet is composed of flowers called florets.
- **CONT.**



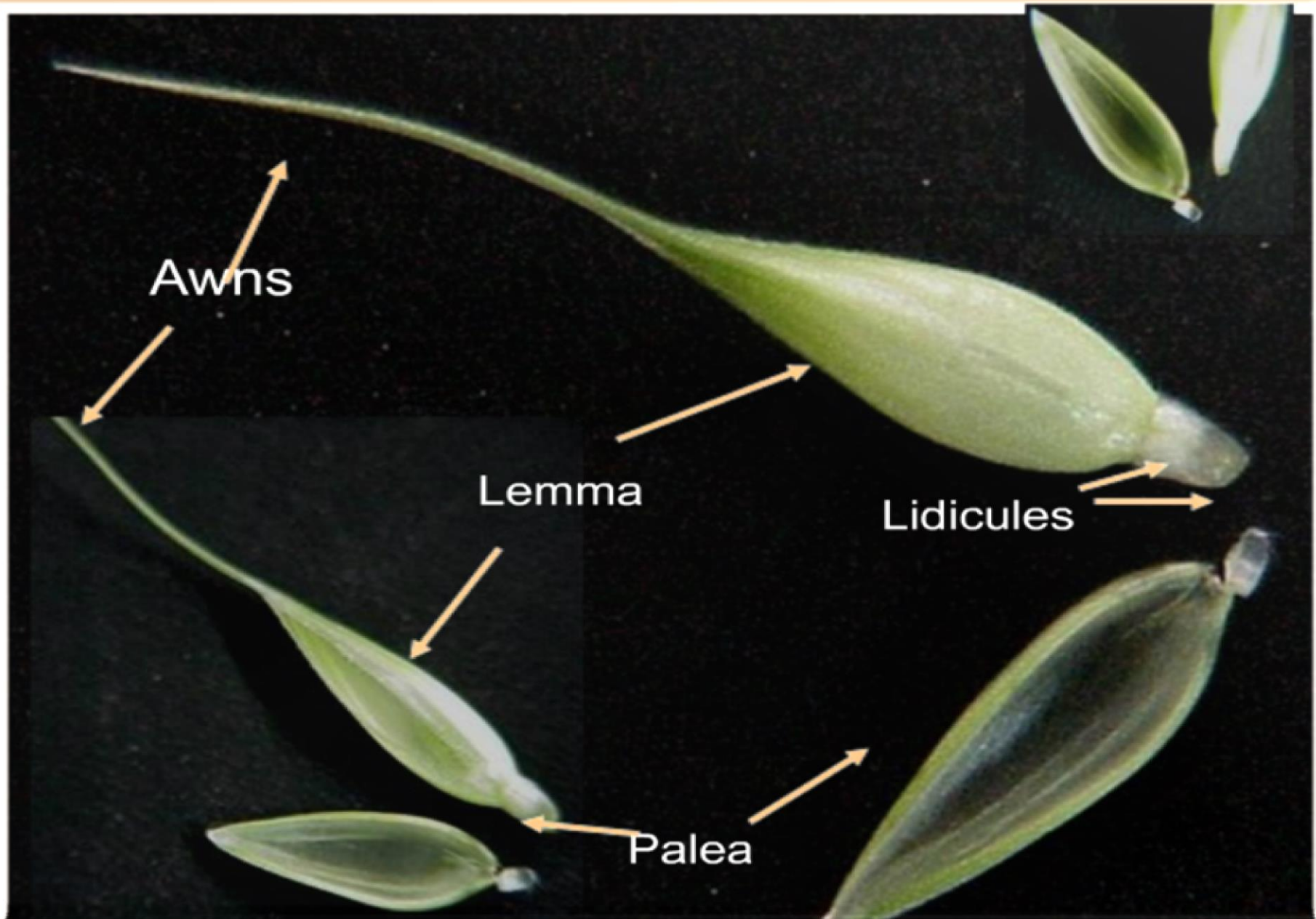


Opened Spikelet of Wheat

REPRODUCTIVE ORGANS



PERIANTH



Area & Production

- Area : **UP** > MP > Punjab
- Production : **UP** > Punjab > Haryana
- Productivity : **Punjab** > Haryana

VARIETIES

- Lok-1 - Suitable for late sowing.
- Sujata - Suitable for unirrigated area.
- RAJ-3765 - Late sowing variety, resistant to lodging.
- RAJ-4037 - Suitable for warm climate.
- RAJ-3077 - Suitable for saline soil.
- RAJ-4120 – Resistant to UG-99 race of rust.

Other varieties

1. Single gene dwarf :

- Lerma Rojo 64-A
- Sonalika
- Sujata

2 Double gene dwarf :

- Kalyan Sona
- Sonaro-64
- Chhoti Lerma
- HD-2009 (Arjun)
- HD-2329



Thank you