

Euphorbiaceae Poaceae

Classification

Kingdom :-	- Plantae
Division -	- Angiosperm
Class -	- Monocots
Order -	- Urumaceae
Family -	- Poaceae

Habit :- Herbs, annuals or perennial or shrubs, sometimes tree like (Bambusa, Dendrocalamus).

Root :- Adventitious, fibrous, branched, fascicled or stilt (Zea mays).

Stem :- Underground rhizome in all perennial grasses cylindrical, culm with conspicuous nodes and internodes, internodes hollow, herbaceous or woody, glabrous or glaucous vegetative shoots are arising from the base of aerial stem or from underground stems are called tillers.

Leaves :- Alternate, simple, disichous, crispulate, sessile, ligulate, leaf base forming tubular sheath, sheath open, surrounding internode incompletely, ligule is present at the junction of the lamina and sheath, entire, hairy or rough, linear, parallel venation.

Floral characters :-

Inflorescence :- Compound spike which may be sessile or stalked.

A Compound inflorescence may be spike of spikelets (Triticum), panicle of spikelets (Avena).

Flower :- Bracteate and bracteolate, sessile, incomplete, hermaphrodite, or unisexual (zea mays), irregular zygomorphic, hypogynous, cyclic.

Perianth :- Represented by membranous scales called the leodicules. The leodicules are situated above and opposite the superior palea or may be absent or many, or 2 or 3.

Androecium :- Usually stamens 3, rarely 6 (Bambusa, oryza) and one in various species of Anrostis. Lepturus, polyandrous, filaments long, anthers ditheous.

Gynoecium :- Monocarpellary, according to some authers carpels 3, of which 2 are abortive, ovary superior, unilocular with single ovule, basal placentation, style short or absent.

Fruit :- Caryopsis

Seed :- Endospermic

Floral formula :-

$\% \quad \uparrow \quad P_{\text{or } 2} (\text{leodicules}) \quad A_{\text{or } 6} \quad \underline{G_1}$

Economic importance :-

Food :- Triticum aestivum, Oryza sativ, zea mays, Hordeum Vulgare, Sorghum Vulgare.

Fooder: - *Cynodon dactylon*,

Panicum

Cymbopogon

Agrostis

Sugar: - *Saccharum officinarum* (sugarcane - *Crane*)

Floral diagram

