Treeless grassland predominate the temperate regions & it comprises about 24% of the world vegetation.

The temperate forages is classified into

- Temperate grasses
- Temperate legumes
- 1. Temperate grasses:
 - Most of the grasses found in temperate region belongs to festucoid (Poaoid)group.
 - Growth of temperate grasses start at the onset of spring season varying from april to june depending upon the altitude.
 - Their growth rate vary from zero in winter to the full genetic potential in spring.
 - Example. Crested wheat grass, Intermediate wheat grass, Drooping wheat grass, Common bent grass, Meadow fox-tail grass, false oat grass, false brome grass, rescue grass, smooth brome grass, bush grass, rice grass, Timothy grass, muhly grass, perennial rye grass etc....

Some important temperate grasses are

Agropyron intermedium (Intermediate wheat grass)

- A long lived rhizomatous turf forming temperate perennial grass native of Europe &asia.
- Adapted to temperate dry region having<500mm annual rain fall &requires well drained and good soil.
- Starts growth in spring &provides palatable herbage till early flowering stage.
- Yield-4-6t DM/ha in 3-4 cuttings.
- It is less drought &frost resistant than crested wheat grass, but stays green longer.
- Suitable for planting in dry temperate regions of Himalayas.
- Superior varieties: Slate, Ree, Amur, Chief, Clarke, Tegmar etc...

Alopecurus pratensis (Meadow fox-tail grass)

- Along-lived ,tufted perennial temperate grass native of europe& asia.
- Adapted tocool, moist temperate climates, very resistant to cold & also withstands high summer temperature.
- Grows best on deep, moist, fertile soils
- Grows well under shade too.
- Yield-5-6t DM/ha in 3-4 cuttings.

Bromus catharticus (Rescue grass or prairie grass)

- A tufted, short lived, perennial grass native of south America.
- Adapted to a wide range of soils in temperate &sub-temperate regions.
- A good pasture grass in the subtropical winter rainfall region during the cool season,&in tropical highlands.

- Yield-5-6tDM/ha.
- Satisfactory quality of herbage with 4.1 to 4.3%D.C.P(digestible crude protein)&highly palatable.
- Superior varieties:lamont,nakuru,chapelhill,grassland matua etc...

Calamagostis epigejos (bushgrass or small reed)

- A tuft or tussock forming temperate perennial grass, native of asia&Europe.
- A coarse grass of open places found in dry habitats such as sandy shores, rocky slopes or onheavy clay soil.
- Herbage is not considered to be very palatable but is grazed by hill cattle, sheep&goats.
- Yield-4-5t/ha/yr.

Pennisetum flaccidum (pennisetum grass)

- A tufted perennial grass of temperate & alpine region, having creeping rootstock.
- It is common in higher alpine slope areas in Himalayas grazed by sheep & goats & is considered as good fodder.
- DM of 3-4t/ha/yr.

Phleum pratense(Timothy grass)

- It is shallow rooting growing best on moist heavy soils.
- Adapted to cool, humid climates.
- Available for hay making as it is not so regenerative.
- High palatability with DM of 3.2 to 6.9t/ha&crude protein of 7.2 to 14.5%.
- Superior varieties:kamot, bounty, pecora, champs, AberystwythS 352, S 48,etc...

2. Temperate legumes:

- In general, temperate legumes are frost resistant& low temperature damages their foliage donot.
- They are generally long day plants.
- Legumes of temperate region in general, are more specific in their Rhizobium requirements than tropical species.
- Example: Cicer milk vetch, crown vetch, birds foot trefoil, Lucerne, sweet clover white flowered, yellowflowered, sainfoin,honey clover, straw-berry clover, crimson clover, red clover etc...

Some important temperate legumes are seen below

Medicago sativa (Lucerne or alfalfa)

• Al ready discussed above

Coronilla varia (crown vetch)

- A long-lived, deep rooted, frost & drought tolerant, herbaceous perennial legume native of asia.
- New shoots arise from creeping rootstock or underground rhizomes.
- Yield-3-4t/ha&it's regeneration is slower than alfalfa.
- Best suited to permeable, well drained calcareous soil.
- It's digestibility is higher than Lucerne&it's seed production in crown vetch is 100kg/ha.

• Superior varieties:penngift,Emerald,chmungetc.....

Trifolium ambiguum (Honey clover)

- A drought tolerant temperate legume found in temperate& alpine regions of western Himalayas &near east center of origin.
- Has deep, strong &dense mat of roots & rhizome making it for erosion control.
- It is winter hardy, persistent & resistant to drought & pests.
- It is better adapted to humid region & forage is palatable to cattle.
- Yield-3-4t/ha/yr.
- Superior varieties:Frostline,Summit.

Trifolium incarnatun (crimson clover)

- It's annual in growth habit & well adapted to temperate region of the world.
- It is grown as important pasture & soil improvement crop.
- Herbage dry matter yield varies from 3 to 4t/ha/yr
- Varieties: Auburn, Dixie, chief, Talledaga etc