# Grass Physiology O Grazing Management

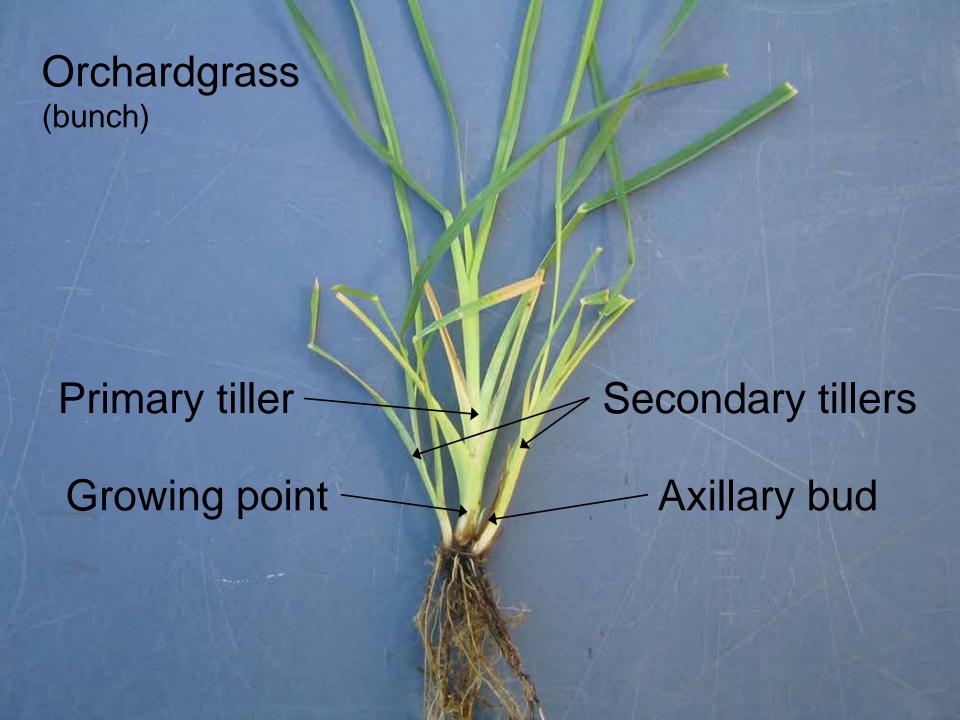


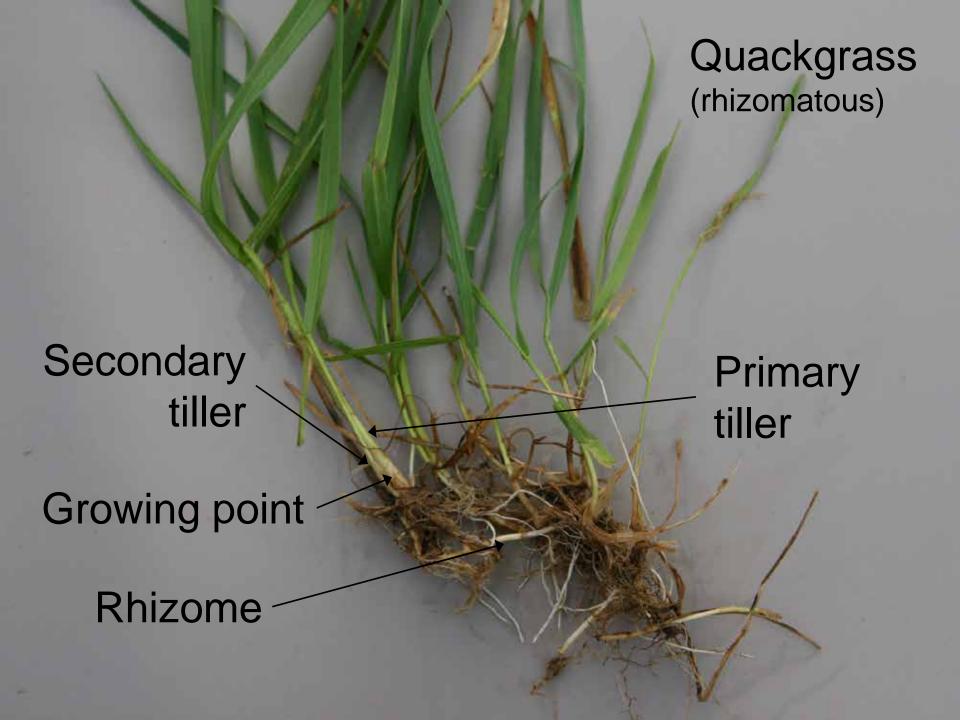






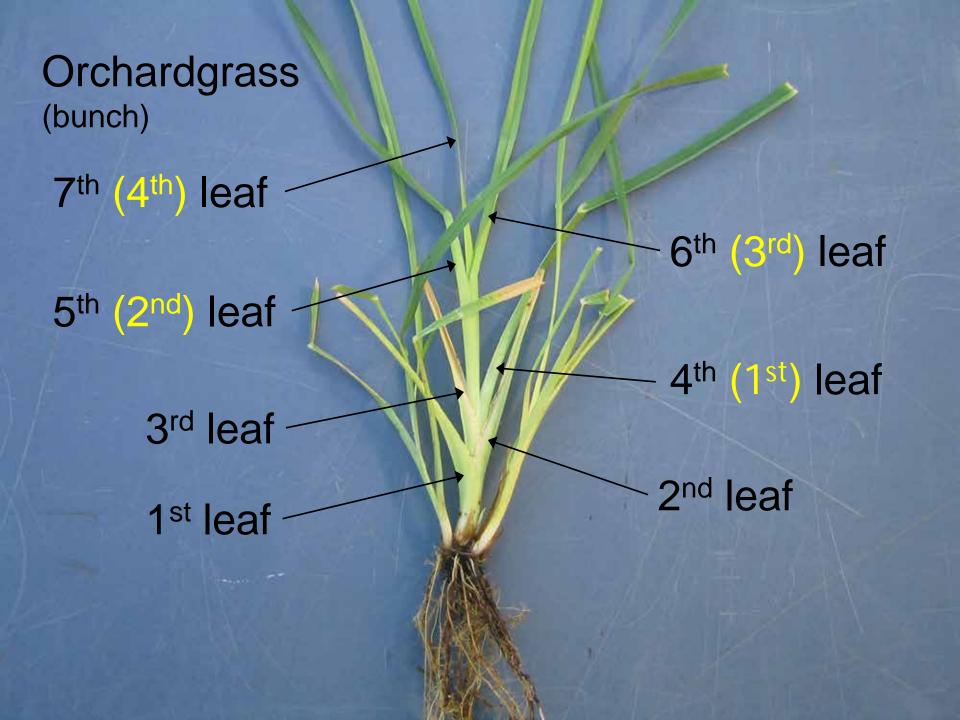
Bunch	Rhizomatous
Orchardgrass	Reed canarygrass
Tall fescue	Smooth bromegrass
Meadow fescue	Kentucky bluegrass
Timothy	Quackgrass
Festulolium	Meadow bromegrass
Ryegrasses	



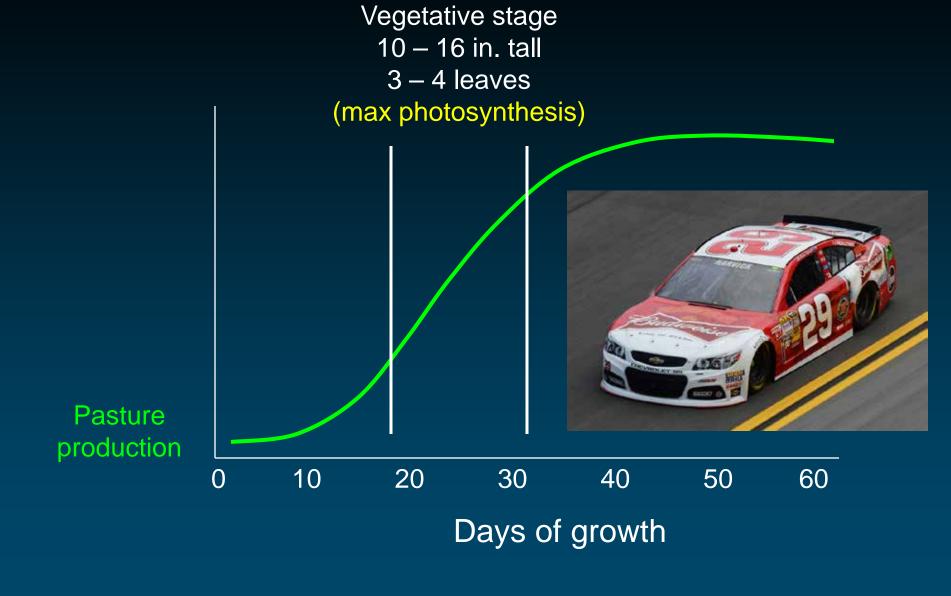


Growing point – the leaf producing "engine"

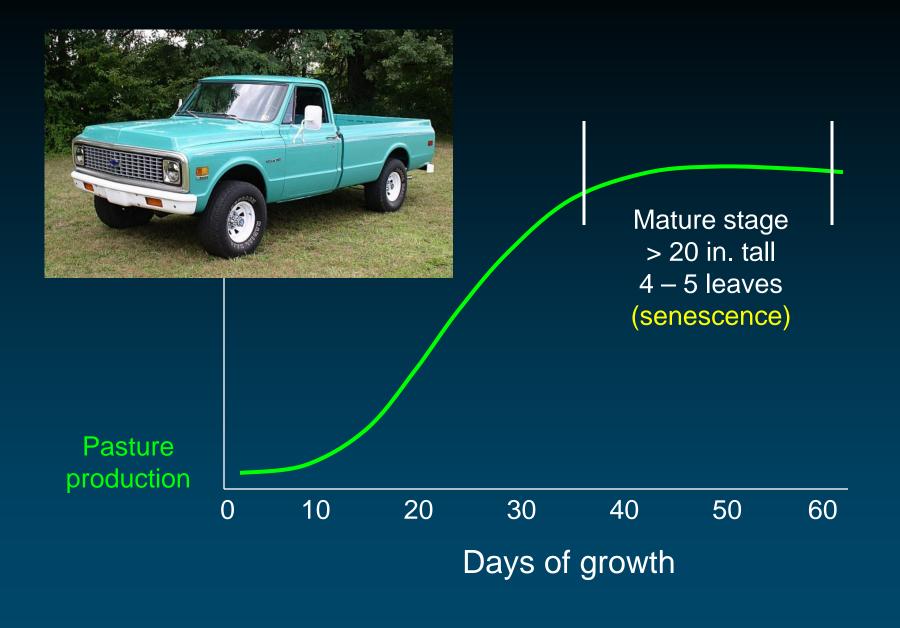


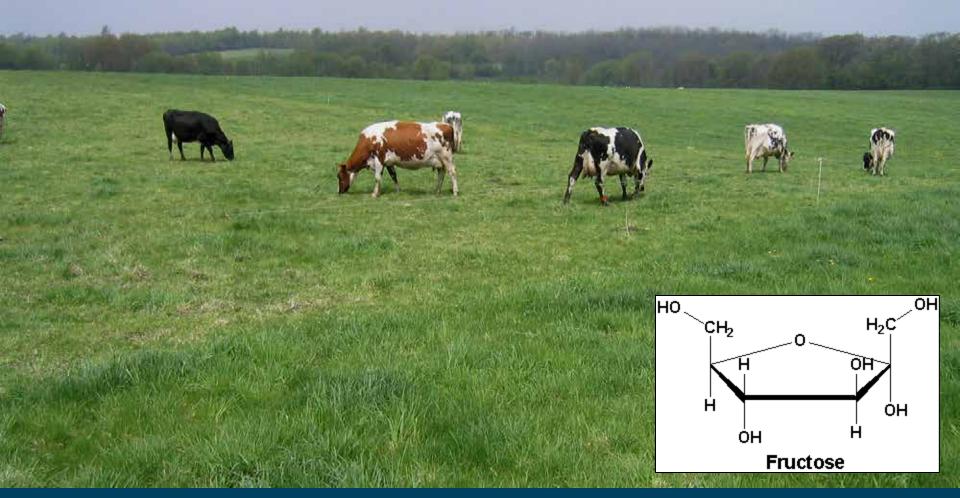










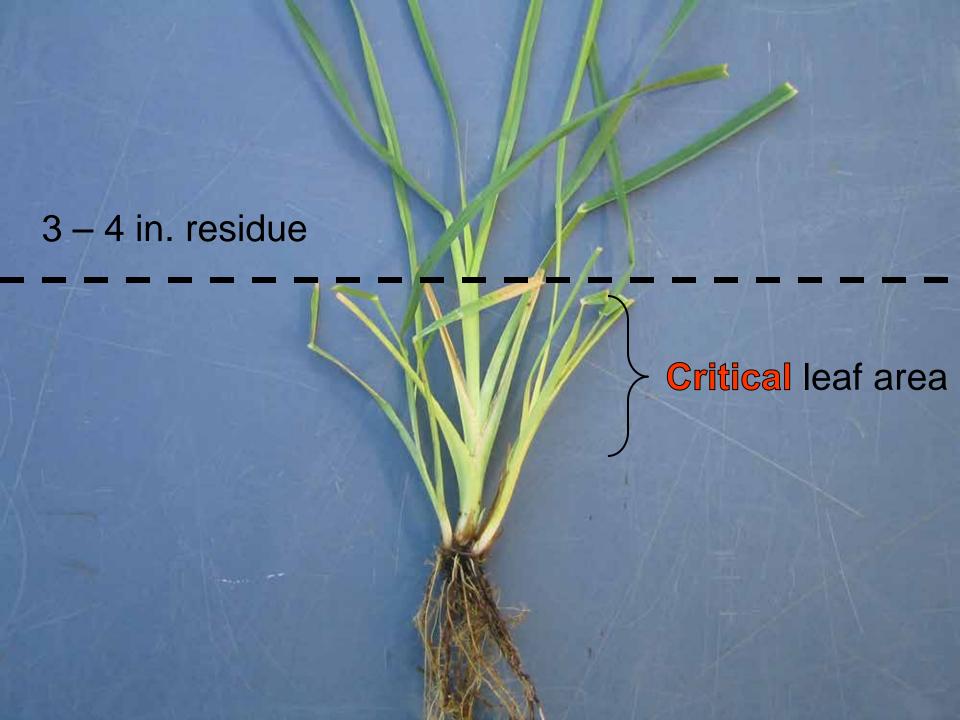


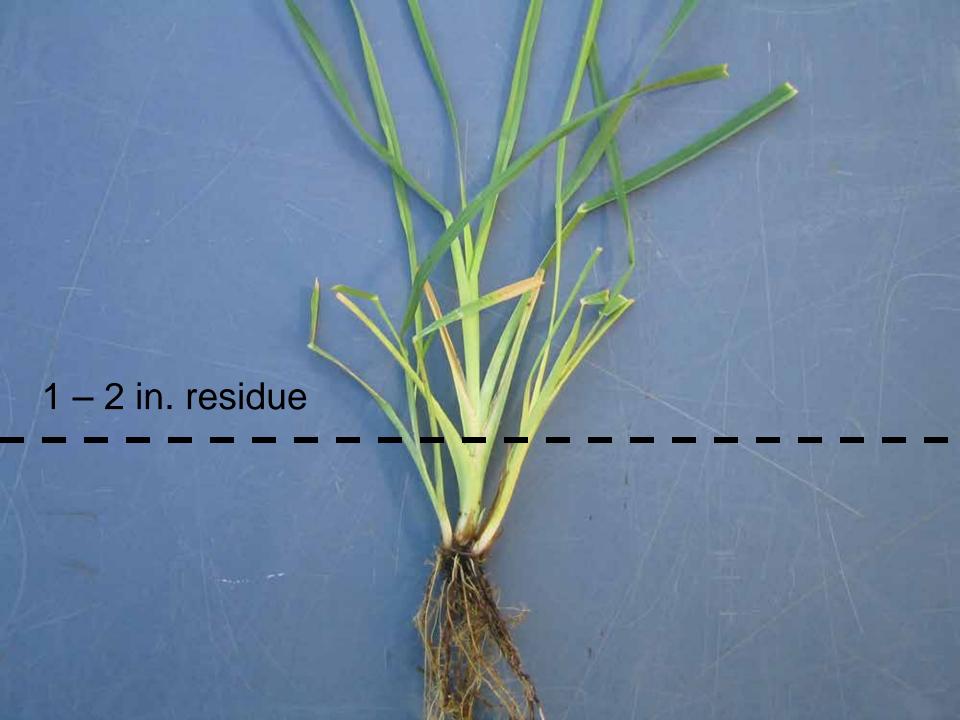
### Carbohydrates

Produced by leaves; stored in stem bases, rhizomes, and roots.

- Keep plant alive during stress (after grazing, night, drought, winter).
- Needed to grow new leaves, tillers, roots.



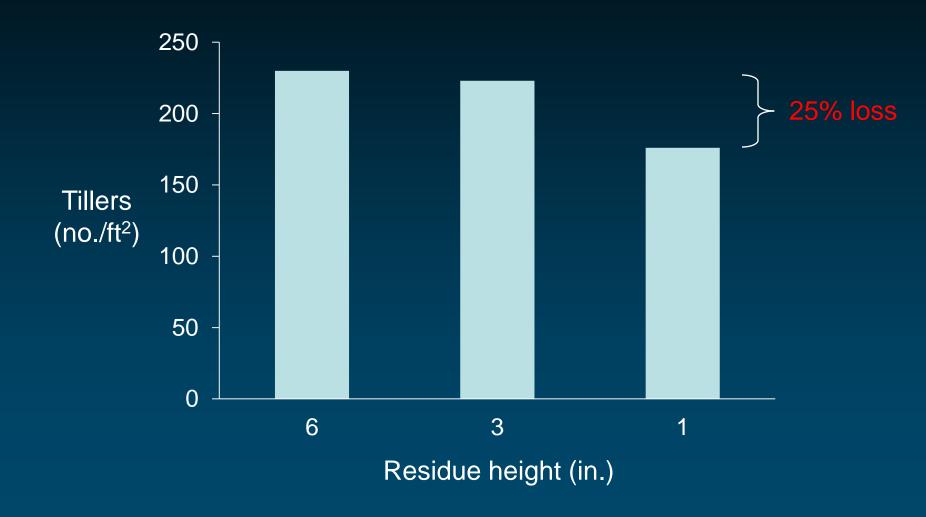




## Residue effects on vegetative orchardgrass

Residue (in.)	No. grazing events	Average rotation time (days)	Average rotation yield (lb/acre)	Annual yield (lb/acre)	Date grass reached 12 in. next year
11/2	4	44	1250	5000	May 11
3	6	32	900	5400	May 4
6	6	24	750	4500	April 28

### Residue effects on meadow fescue survival











### Residue effects on mature orchardgrass.

Residue (in.)	No. grazing events	Average rotation (days)	Annual yield (lb/acre)
3	3	73	6400
6	3	62	5700
12	3	60	5500



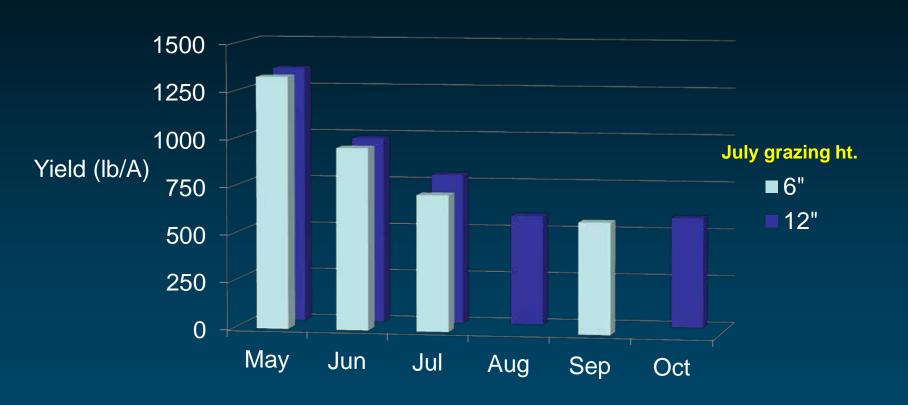
# Residue height and hay harvest



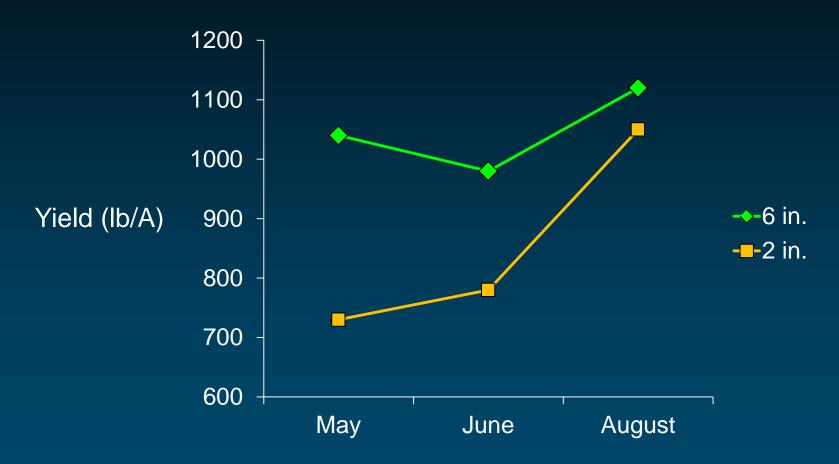




### Grazing frequency effects on orchardgrass yield



Residue height of last grazing (October) and orchardgrass yield in 2012.





# A prescription for grazing:

- Pasture productivity and persistence of vegetative grass will likely be reduced in the current season and/or the next by grazing to a short residue.
- The negative effects of grazing vegetative grass to a short residue will be amplified when grass is stressed (previous grazing, drought, winter).