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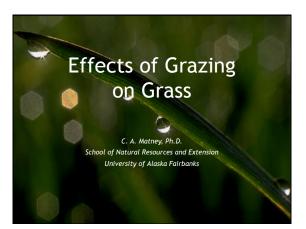
Effects of Grazing on Grass

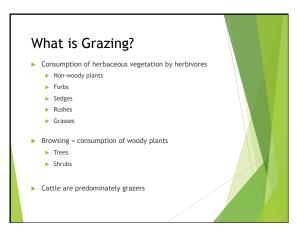
Casey A. Matney University of Alaska, Fairbanks

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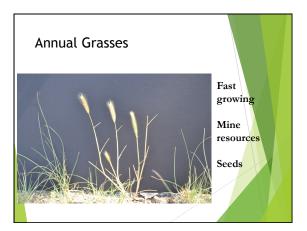
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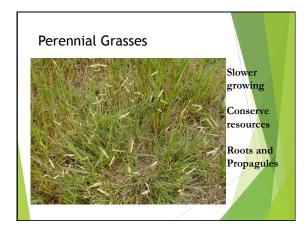
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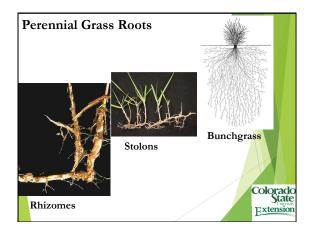


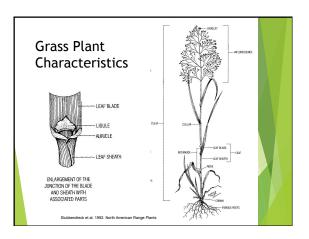


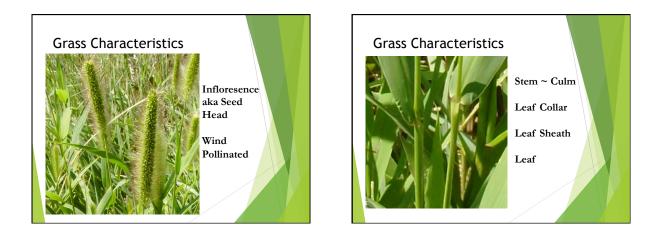


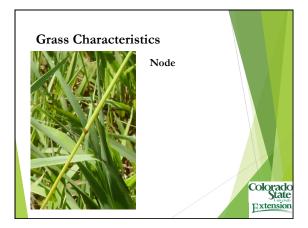


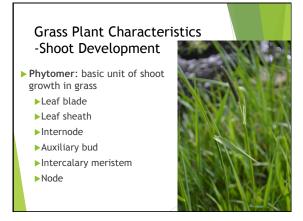


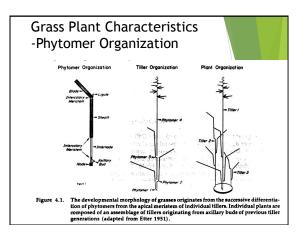








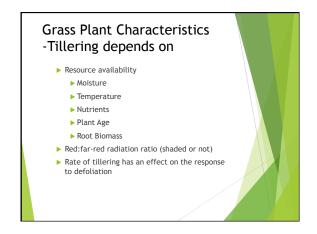


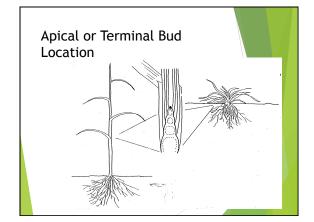


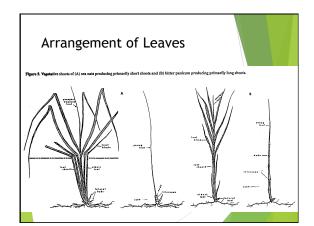
Grass Plant Characteristics -Intercalary Meristems Intercalary meristem is meristem at the base of the internode in monocot stems (particularly grass stems). If the tip of the stem is removed, the uppermost intact intercalary meristem becomes the apical meristem and starts intercalary growth. Intercalary Meristem (only in mo nocot stem)

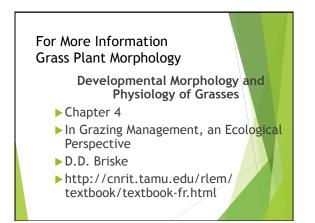
Grass Plant Characteristics -Crown

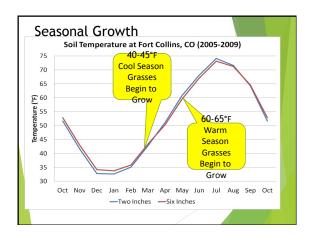
- 2. Crown
 - Stem tissue comprised of compressed nodes and internodes
 - Located at the base of the plant, just above the roots
 - Lower portion of the crown gives rise to the roots, the upper to the stems
 - Buds give rise to tillers

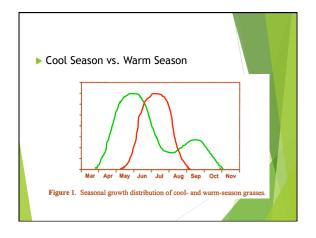


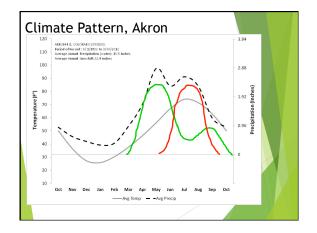


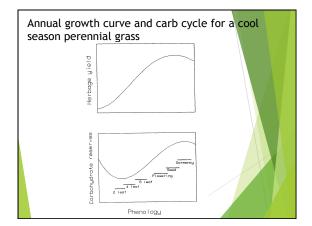


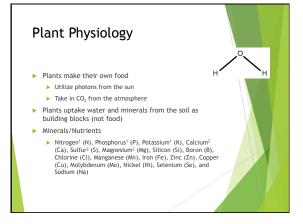




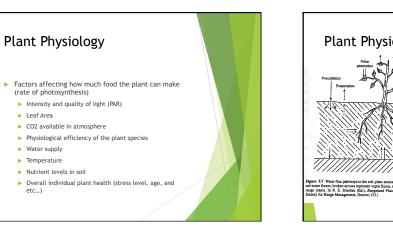


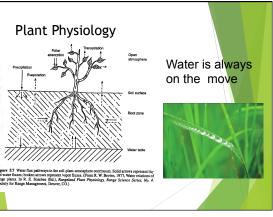


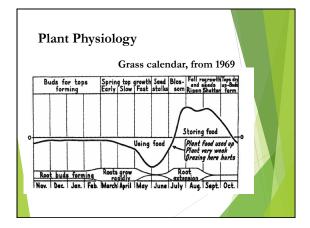


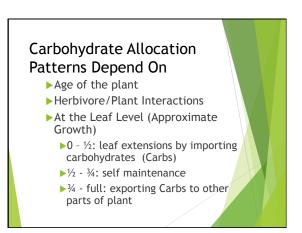




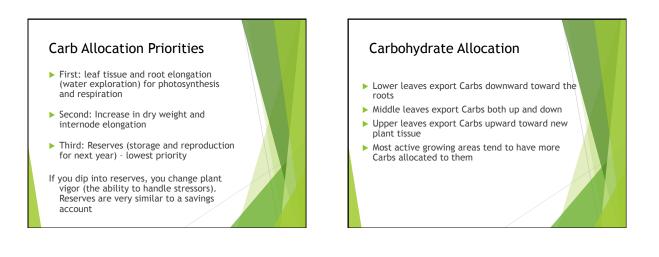




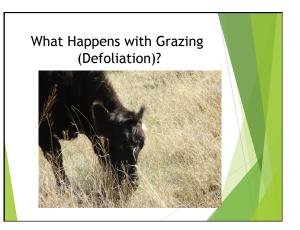


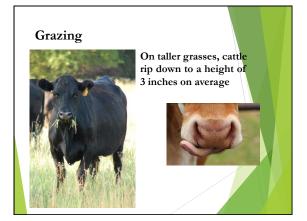


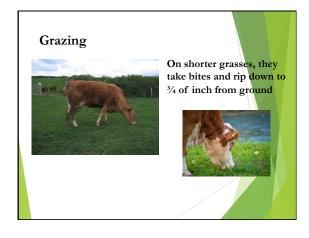
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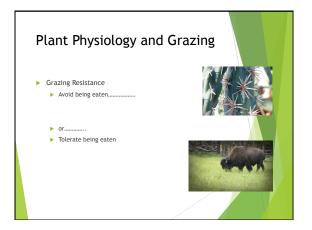


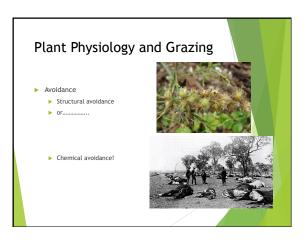


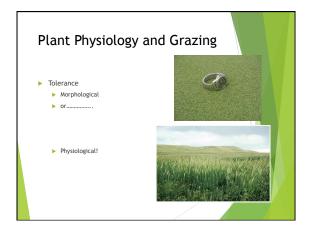


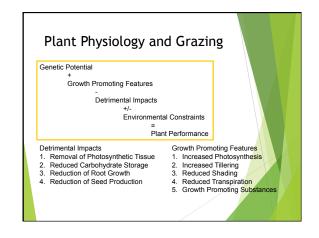


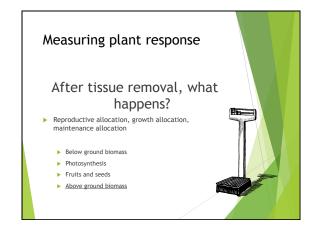


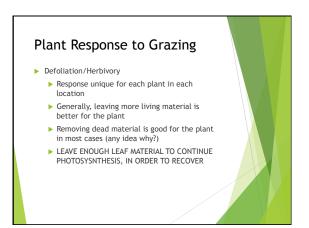




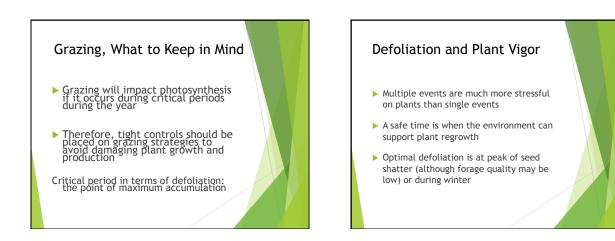




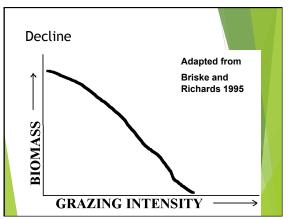


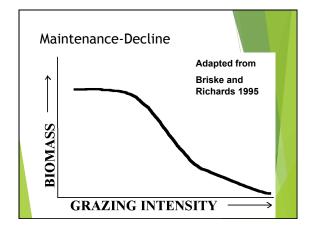


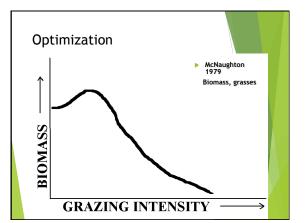
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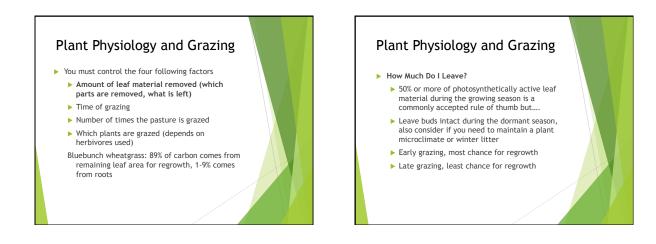


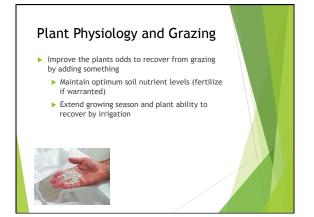


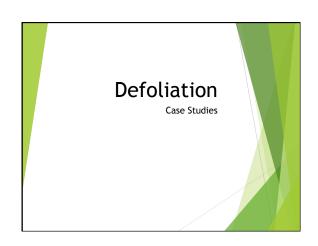


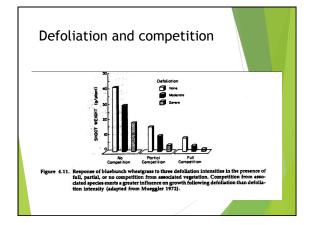


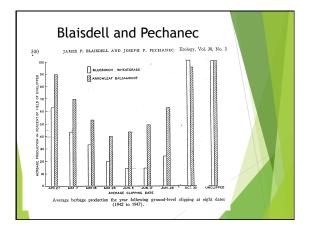
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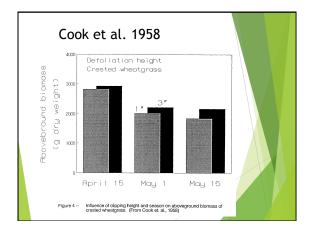


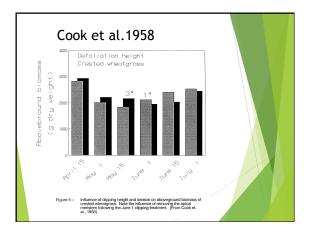


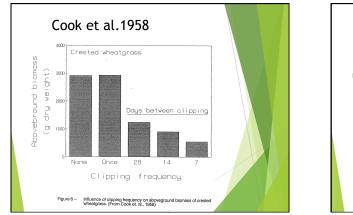








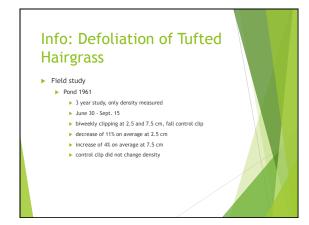


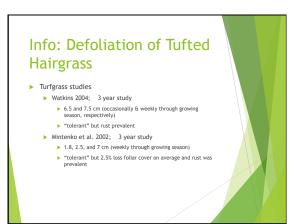




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 Greenhouse study
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- Merril and Colberg 2003
 Nitrogen (elk dung) amendment and water logging
- Plants clipped 1 or 2 times (10 cm), 26 May and 2 July
- 6 weeks waterlogging increased production and shoot nitrogen concentration
- 10 weeks waterlogging loss root biomass, and shift to shallower root system with nitrogen amendment





Defoliation Studies	
Clipping	Grazing
Uniform leaf area removed	Variable leaf area removed
Unselective removal	Palatability selected
Poor trampling effect	Trampling impacts
No pulling	Pulling of vegetation
No spit	Spit influence

