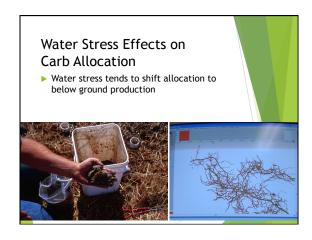
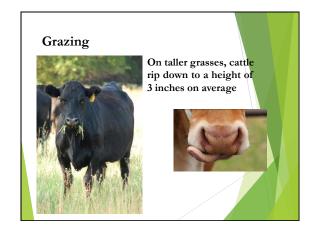


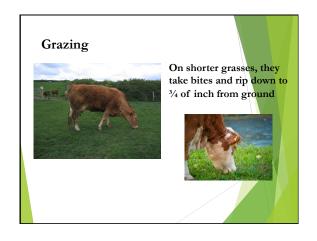
Carb Allocation Priorities First: leaf tissue and root elongation (water exploration) for photosynthesis and respiration Second: Increase in dry weight and internode elongation Third: Reserves (storage and reproduction for next year) - lowest priority If you dip into reserves, you change plant vigor (the ability to handle stressors). Reserves are very similar to a savings

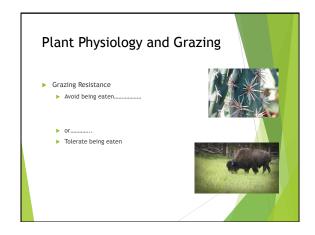
Carbohydrate Allocation Lower leaves export Carbs downward toward the roots Middle leaves export Carbs both up and down Upper leaves export Carbs upward toward new plant tissue Most active growing areas tend to have more Carbs allocated to them

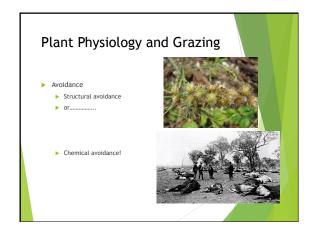


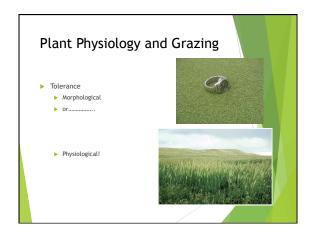


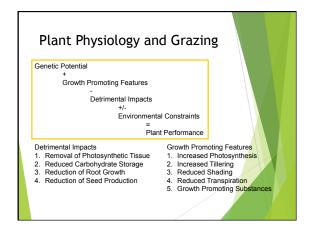




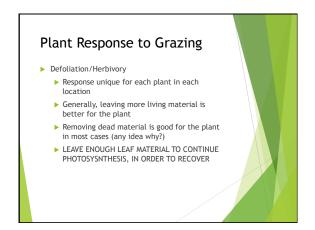


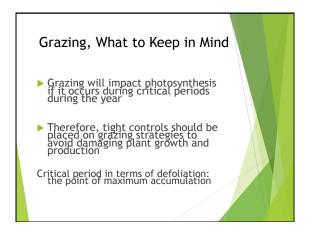






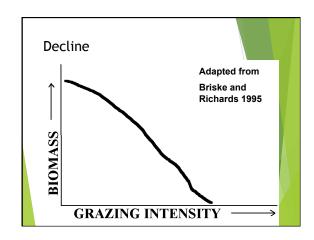


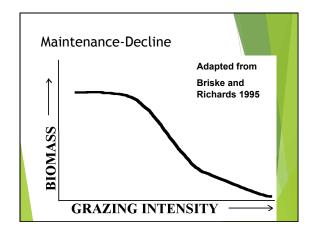


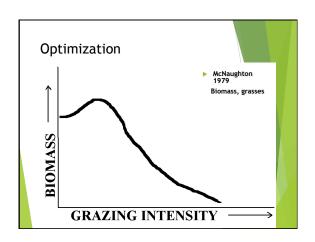


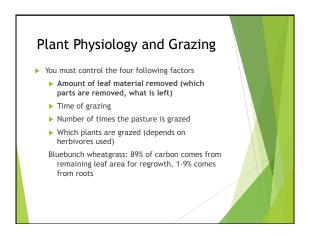
Defoliation and Plant Vigor Multiple events are much more stressful on plants than single events A safe time is when the environment can support plant regrowth Optimal defoliation is at peak of seed shatter (although forage quality may be low) or during winter

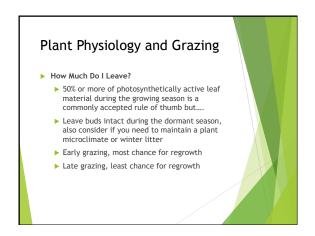


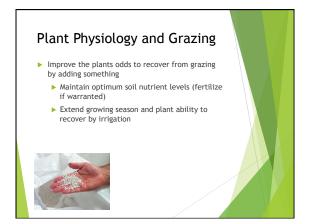


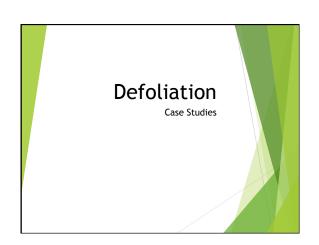


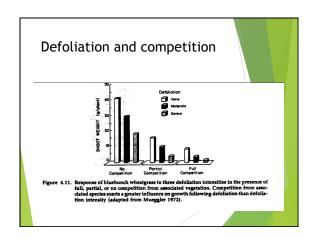


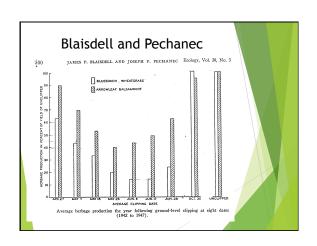


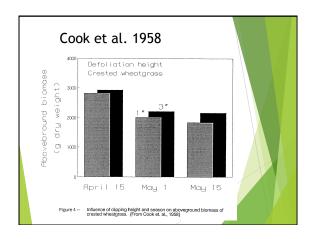


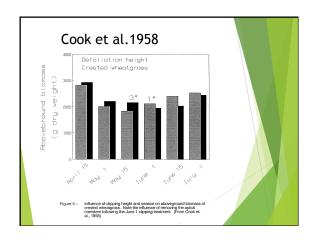


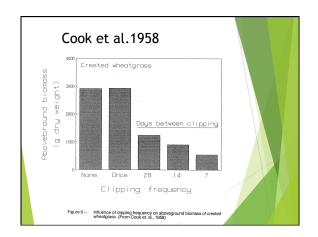


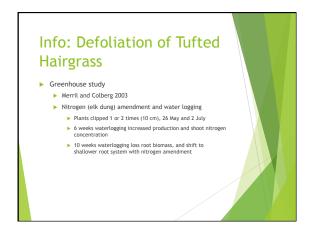


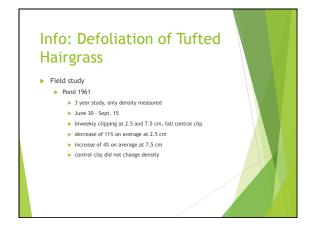


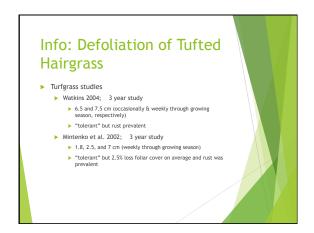












Defoliation Studies	
Clipping	Grazing
Uniform leaf area removed	Variable leaf area removed
Unselective removal	Palatability selected
Poor trampling effect	Trampling impacts
No pulling	Pulling of vegetation
No spit	Spit influence

