What is fructan overload?

Fructan is a type of sugar found in cool-season grasses.

When horses consume more fructan than they can digest in their foregut, it escapes into the hindgut where it can cause harmful imbalances.

Undigested fructan Horse ingests too Once in the escapes into the hindgut fructan many fructans. hindgut. auickly ferments. resulting in lactic acid buildup. Too many fructans Lactic Hindgut acid Foregut Hindgut COLIC **LAMINITIS**

Hindgut pH drops, making the environment more acidic.

4

Beneficial bacteria die off as harmful bacteria flourish.

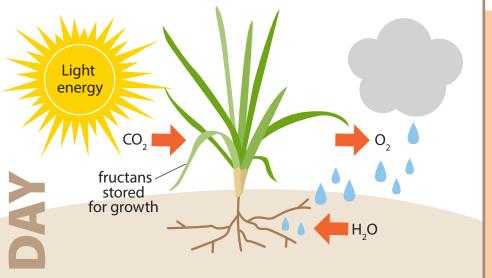
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The resulting imbalances in pH and the microbial population lead to colic and laminitis.

Temperature and sunlight affect fructans.

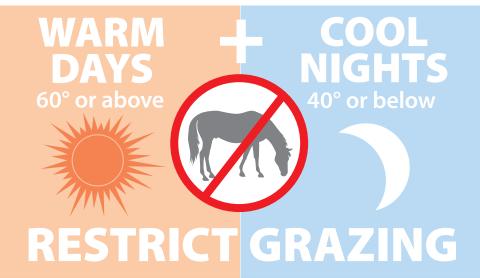
In plants, a process known as photosynthesis produces fructan.

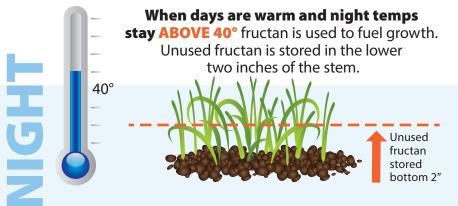
Photosynthesis occurs only during daylight hours. The sunnier the day, the more fructan is produced in a plant.



Spring and fall pastures hold hidden dangers.

Overweight horses and horses suffering from metabolic disease are at risk for fructan overload. Grazing should be restricted or stopped completely when days are warm and nights are cool.





When days are warm and night temps
drop BELOW 40° growth does not occur and
fructan remains in the leaves where horses
can readily consume it.

40°
Fructan stored in leaves

Horses
restricted from
grazing fresh
grass are at risk
for developing
vitamin E
deficiencies

Elevate® Maintenance Powder

Supplementation with natural vitamin E is essential for horses and ponies that don't consume substantial green grass. Elevate is a highly available source of natural vitamin E.





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