

3/ Purpose of fertilizer is to supply nutrients  
soils basically acid, low in nutrients, no  
organic matter

Leaf: genotype x environment

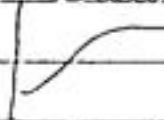
Fertilizers are a commodity

Right form at right time at right price

Want to know:

- 1) What nutrients are needed
- 2) How much
- 3) Quality of the nutrient (form, source)
- 4) When to apply
- 5) Method of application
- 6) Economics

Growth curve



First month - root development

Second month - foliage development & N runs out

2-3 weeks - sidedressing

maximum N absorption - second month

Too little N - pale color, weak smoking, little texture

Too much N - cures poorly, "brawn"

N about to give out by topping time

excess N - leaves bigger, thinner, delayed maturity,  
more suckers, more insects, more disease  
60-75 lbs/A not including leaching  
buyers want heavier body

"lardy" tobacco - 1) shortage of N (top leaves)  
2) variety  
3) topping high

11. close range to optimum  $\pm 15$  lbs.  
Best rotation w/ tobacco is nothing

BEST  
COPY