

## Nitrogen Rate Determination for Wheat at GS 30

Tissue sampling with corresponding biomass at GS 30 (Feekes 5) is used to determine optimum spring N rates.

After receiving the NCDA&CS plant tissue report (Fig. 1), find the N % and biomass values. Biomass is reported as dry weight (DW) on the report.

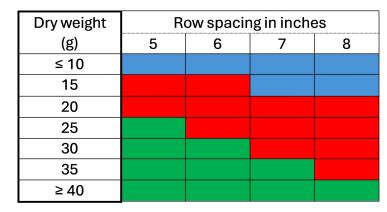
N (%)	P (%)	K (%)	Ca (%)
2.21	0.24	2.57	0.25
Ν	Р	К	Ca
28-L	54-S	51-S	52-S
Other Results			
Na (%)	Cl (%)	C (%)	DW (g)
0.00	-	-	21.1
	2.21 N 	2.21 0.24 N P 28-L 54-S Other F Na (%) Cl (%)	2.21 0.24 2.57 N P K 28-L 54-S 51-S Other Results Na (%) Cl (%) C (%)

Determine the biomass density of your wheat stand using the DW and planted row spacing (Fig. 2).

- Blue = Low biomass field
- Red = Medium biomass field
- Green = High biomass field

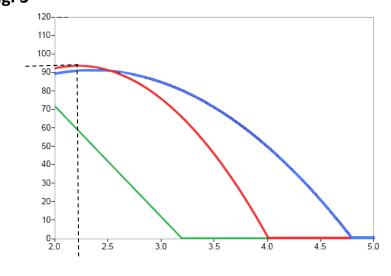
In this example, the biomass density of 21 g is Medium and you should use the **Red** curve in Figure 3.

Fig.2.



Use the N % of 2.2 from the NCDA&CS plant tissue report and the Red curve to determine the optimum application rate of  $\sim$  90 lb/acre.

Fig. 3



Adapted from Ch. 6 of the NCSU Small Grains Production Guide.