

Nitrogen Rate Guidelines – Maximizing the Rate of Return

Nitrogen Application Rate Guidelines for Wheat

(For more info, see <http://www.soils.wisc.edu/extension/pubs/A2809.pdf>)

SUGGESTED N APPLICATION RATES FOR WHEAT AT DIFFERENT N:WHEAT PRICE RATIOS								
Loamy Soil and Previous Crop	N: Wheat Price Ratio (\$/lb N:\$/bu)							
	0.05		0.075		0.10		0.125	
	Rate	Range	Rate	Range	Rate	Range	Rate	Range
	lb N/a (Total to Apply) ^{*1}							
Corn ^{*2} : < 50 or no PPNT	75	65-85	70	55-80	60	50-70	55	40-65
Corn : 51 to 100	45	35-55	40	30-50	35	25-40	30	20-35
Corn : > 100	0	0-0	0	0-0	0	0-0	0	0-0
Soybean, Small grains : All ^{*3}	55	45-65	50	40-60	45	35-50	40	35-45

*1 On loamy soils with < 2% organic matter, add 30 lb N/a to all rates. On soils with more than 10% organic matter, reduce rates by 30 lb N/a.

Reduce N rates by 10 lb N/a for spring wheat on all soils. No N is required on organic soils. Manure N credits must be subtracted from these values.

*2 If wheat follows a forage legume or leguminous vegetable, use the MRTN rate for wheat following corn with PPNT < 50 and take the legume credit.

*3 Previous crop soybean or small grain: If a PPNT is taken and the PPNT is < 50 lb N/a, use the top end of the profitable range; if the PPNT is 51 to 100 lb N/a, use the bottom end of the profitable range; if the PPNT is > 100 lb N/a, no additional N is needed.

Do not take a soybean legume credit.