

# 2018 MRTN Suggested N Rates for Corn

Soil Productivity Potential <sup>1</sup>	Previous Crop	N:Corn Price Ratio			
		0.05	0.10	0.15	0.20
		Suggested N Rate (lbs. N/acre)			
High/Very High	Corn	<b>185</b> 170-200 <sup>2</sup>	<b>170</b> 160-185	<b>155</b> 145-170	<b>145</b> 135-160
	Soybean <sup>3</sup> and small grains <sup>4</sup>	<b>160</b> 145-175	<b>145</b> 135-160	<b>130</b> 120-145	<b>120</b> 110-135
Medium/Low	Corn	<b>155</b> 140-170	<b>145</b> 135-160	<b>135</b> 125-150	<b>120</b> 110-135
	Soybean <sup>3</sup> and small grains <sup>4</sup>	<b>130</b> 115-145	<b>120</b> 110-135	<b>110</b> 100-125	<b>100</b> 90-115
Loamy Sands and Sands (CEC < 8.0)	Irrigated – all crops	<b>215</b> 200-230	<b>195</b> 180-210	<b>180</b> 165-195	<b>170</b> 155-185

Kurt Steinke, Plant Soil & Microbial Sciences Dept., Michigan State University.

<sup>1</sup> **Low**: average yield = < 135 bu/A; **Medium**: average yield = 136 to 165 bu/A; **High**: average yield = 166 to 195 bu/A; **Very High** = more than 196 bu/A; (average yield is the five-year running average disregarding unusual highs and lows).

<sup>2</sup> Range approximates  $\pm$  \$1 of the maximum return to N (MRTN) rate.

<sup>3</sup> When the previous crop is soybean, the nitrogen credit is built into the recommendation. Do not take any additional nitrogen credit. Nitrogen credits for previously applied manure need to be subtracted from the N recommendations listed in the table.

<sup>4</sup> Refers to small grains interseeded with leguminous cover crop species. Small grains not interseeded with leguminous cover crop species should default to previous crop corn.