

CORN FOR GRAIN (NO-TILL)

Crop Code: 1044

Lime and Magnesium Recommendation:

pH Goal: 6.5

See Table 1 for lime recommendations based on target pH

Opt soil test Mg (ppm): 60

See Table 2 for MgO recommendations based on optimum soil test Mg

Standard Nitrogen Recommendation (lb N/A):

Corn Yield Goal (Bu/A)				
100	130	160	190	220
100	130	160	190	220

Nitrogen Credit (lb N/A) for Previous Legume:

Legume and percent stand	Corn Yield Goal (Bu/A)				
	100	130	160	190	220
Alfalfa < 25% stand	40	40	40	80	120
Alfalfa 25-50% stand	60	80	80	120	160
Alfalfa > 50% stand	80	110	120	160	200
Clover < 25% stand	40	40	40	80	120
Clover 25-50% stand	60	80	80	120	160
Clover > 50% stand	80	110	120	160	200
Trefoil < 25% stand	40	40	40	80	120
Trefoil 25-50% stand	60	80	80	120	160
Trefoil > 50% stand	80	110	120	160	200
Soybeans	30	40	50	60	70

Phosphorus Recommendation (lb P2O5/A):

(Optimum soil test P: 30 -50 ppm)

Soil test P (ppm)	Corn Yield Goal (Bu/A)				
	100	130	160	190	220
0	110	120	130	140	150
5	100	110	120	130	140
10	90	100	110	120	130
15	80	90	100	110	120
20	60	70	90	100	110
25	50	60	80	90	100
30	40	50	60	80	90
35	30	40	50	60	70
40	20	30	30	40	40
45	10	10	20	20	20
50	0	0	0	0	0

Phosphorus Message(s) :

When soil test P is less than 50 ppm:

Use a starter fertilizer.

When soil test P is greater than or equal to 50 ppm P and less than 300 ppm P:

A starter fertilizer is probably not necessary.

When soil test P is greater than or equal to 300 ppm P:

A starter fertilizer is probably not necessary.

Very high P may lead to crop production or feed quality problems and may result in P loss to the environment.

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Potassium Recommendation (lb K₂O/A):

(Optimum soil test K: 100 - 150 ppm)

Soil test K (ppm)	Corn Yield Goal (Bu/A)				
	100	130	160	190	220
0	160	170	180	190	200
10	150	160	170	180	190
20	130	140	150	160	170
30	120	130	140	150	160
40	110	120	130	140	150
50	100	100	110	120	130
60	80	90	100	110	120
70	70	80	90	100	110
80	60	70	70	80	90
90	40	50	60	70	80
100	30	40	50	60	70
110	20	30	40	50	50
120	20	20	30	30	40
130	10	20	20	20	30
140	10	10	10	10	10
150	0	0	0	0	0
160					
170					
180					
190					
200					

Potassium Message(s) :

When soil test K is greater than 200 ppm:

Very high K may lead to crop production or feed quality problems for the current crop or other crops in the rotation. (See Back).

Revised: 12/5/2008