



With MAC's Nutrient Management Tool you can plug in numbers that work for your farming operation.  
Shaded cells may be adjusted to reflect current pricing.

Corn Price	\$6.00		<b>Nutrient (Removal ONLY) per acre</b>	<b>In pounds</b>
Corn Yield Goal	150			
Number of acres	600			
Price of 28% per ton	\$395.00		Nitrogen needs based on .9# of "N" per bushel	135
Price of Urea per ton	\$625.00		Phosphate needs based on .35# of "P" per bushel	53
Price of MAP per ton	\$740.00		Potassium needs based on .27# of "K" per bushel	41
Price of Potash per ton	\$625.00			

### Cost per acre.

Recommendation # 1		Cost per acre
Pounds of MAP needed per acre	101	\$37.36
Pounds of Potash needed per acre	68	\$21.09
Gallons of 28% per acre	41.30	\$86.87
		<u>\$145.31</u>

Price per pound of "N" using 28%

\$0.71

Recommendation # 2		Cost per acre
Pounds of MAP needed per acre	101	\$37.36
Pounds of Potash needed per acre	68	\$21.09
Urea pounds per acre	282	\$88.24
		<u>\$146.69</u>

Price per pound of "N" using Urea

\$0.68

### Total number of tons needed for this years production.

Recommendation # 1	Total Tons	Total Fertilizer cost
Total of 28% needed	131.95	\$52,119.21
Total of MAP needed	30.29	\$22,413.46
Total of Potash needed	20.25	\$12,656.25
		<u>\$87,188.92</u>

Recommendation # 2	Total Tons	Total Fertilizer cost
Total of Urea needed	88.04	\$55,027.17
Total of MAP needed	30.29	\$22,413.46
Total of Potash needed	20.25	\$12,656.25
		<u>\$90,096.89</u>

### Production needed to be contracted to cover the cost of this years fertilizer.

Bushels of corn needed for option #1	14531
Acres needed for option #1 at 100% of yield goal	96.88
Percent of yield goal that would be contracted	16.15%

Bushels of corn needed for option #2	15016
Acres needed for option #2 at 100% of yield goal	100.11
Percent of yield goal that would be contracted	16.68%



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Wheat Price	\$7.21	Nutrient <i>[Removal ONLY]</i> per acre	In pounds
Wheat Yield Goal	85	Nitrogen needs based on 1.2# of "N" per bushel	102
Number of acres	300	Phosphate needs based on .62# of "P" per bushel	53
Price of 28% per ton	\$395.00	Potassium needs based on .38# of "K" per bushel	32
Price of 12-00-00 S=26	\$425.00		
Price of Urea per ton	\$625.00		
Price of MAP per ton	\$740.00		
Price of Potash per ton	\$625.00		
Price of 37-00-00 S=8	\$544.00		

### Cost per acre.

Recommendation # 1		Cost per acre
Pounds of MAP needed per acre	101	\$37.50
Pounds of Potash needed per acre	54	\$16.82
Gallons of 28% per acre	30.28	\$63.70
		<u>\$118.02</u>

Price per pound of "N" using 28% \$0.71

Recommendation # 2		Cost per acre
Pounds of MAP needed per acre	101	\$37.50
Pounds of Potash needed per acre	54	\$16.82
Urea pounds per acre	211	\$65.81
		<u>\$120.13</u>

Price per pound of "N" using Urea \$0.68

Recommendation # 3		Cost per acre
Pounds of MAP needed per acre	101	\$37.50
Pounds of Potash needed per acre	54	\$16.82
Gallons of 26-00-00 S=3	33	\$69.62
		<u>\$123.94</u>

Price per pound of "N" using 37-00-00 \$0.63

Recommendation # 4		Cost per acre
Pound of MAP needed per acre	101	\$37.50
Pounds of Potash needed per acre	54	\$16.82
Pounds of 37-00-00 S=8 needed	246	\$66.88
		<u>\$121.20</u>

Price per pound of "N" using 37-00-00 \$0.74

### Total number of tons needed for this years production.

Recommendation # 1	Total Tons	Total Fertilizer cost
Total of 28% needed	48.38	\$19,109.57
Total of MAP needed	15.20	\$11,249.42
Total of Potash needed	8.08	\$5,046.88
		<u>\$35,405.86</u>

Recommendation # 2	Total Tons	Total Fertilizer cost
Total of Urea needed	33.26	\$20,788.04
Total of MAP needed	15.20	\$11,249.42
Total of Potash needed	8.08	\$5,046.88
		<u>\$37,084.34</u>

Recommendation # 3	Total Tons	Total Fertilizer cost
Gallons of 26-00-00 S=3	52.41	\$20,886.16
Total of MAP needed	15.20	\$11,249.42
Total of Potash needed	8.08	\$5,046.88
		<u>\$37,182.46</u>

Recommendation # 4	Total Tons	Total Fertilizer cost
Pounds of 37-00-00 S=8 needed	36.88	\$20,064.78
Total of MAP needed	15.20	\$11,249.42
Total of Potash needed	8.08	\$5,046.88
		<u>\$36,361.08</u>

### Production needed to be contracted to cover the cost of this years fertilizer.

Recommendation # 1	
Bushels of corn needed for option #1	4,911
Acres needed for option #1 at 100% of yield goal	57.77
Percent of yield goal that would be contracted	19.26%

Recommendation # 2	
Bushels of corn needed for option #2	5,143
Acres needed for option #2 at 100% of yield goal	60.51
Percent of yield goal that would be contracted	20.17%

Recommendation # 3	
Bushels of corn needed for option #3	5,157
Acres needed for option #3 at 100% of yield goal	60.67
Percent of yield goal that would be contracted	20.22%

Recommendation # 4	
Bushels of corn needed for option #4	5,043
Acres needed for option #4 at 100% of yield goal	59.33
Percent of yield goal that would be contracted	19.78%



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Wheat Yield Goal	85	Nitrogen needs based on 1.2# of "N" per bushel	102
Number of acres	300	Phosphate needs based on .62# of "P" per bushel	53
Price of 28% per ton	\$395.00	Potassium needs based on .38# of "K" per bushel	32
Price of 12-00-00 S=26	\$425.00		
Price of Urea per ton	\$625.00		
Price of MAP per ton	\$740.00		
Price of Potash per ton	\$625.00		
Price of 37-00-00 S=8	\$544.00		

### Cost per acre.

Recommendation # 1		Cost per acre
Pounds of MAP needed per acre	101	\$37.50
Pounds of Potash needed per acre	54	\$16.82
Gallons of 28% per acre	30.28	\$63.70
		<u>\$118.02</u>

Price per pound of "N" using 28% \$0.71

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Pounds of Potash needed per acre	54	\$16.82
Urea pounds per acre	211	\$65.81
		<u>\$120.13</u>

Price per pound of "N" using Urea \$0.68

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Pounds of Potash needed per acre	54	\$16.82
Gallons of 26-00-00 S=3	33	\$69.62
		<u>\$123.94</u>

Price per pound of "N" using 37-00-00 \$0.63

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Pound of MAP needed per acre	101	\$37.50
Pounds of Potash needed per acre	54	\$16.82
Pounds of 37-00-00 S=8 needed	246	\$66.88
		<u>\$121.20</u>

Price per pound of "N" using 37-00-00 \$0.74

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Total of 28% needed	48.38	\$19,109.57
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Total of Potash needed	8.08	\$5,046.88
		<u>\$35,405.86</u>

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Total of MAP needed	15.20	\$11,249.42
Total of Potash needed	8.08	\$5,046.88
		<u>\$37,084.34</u>

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Total of Potash needed	8.08	\$5,046.88
		<u>\$37,182.46</u>

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Pounds of 37-00-00 S=8 needed	36.88	\$20,064.78
Total of MAP needed	15.20	\$11,249.42
Total of Potash needed	8.08	\$5,046.88
		<u>\$36,361.08</u>

### Production needed to be contracted to cover the cost of this years fertilizer.

Recommendation # 1	
Bushels of corn needed for option #1	4,911
Acres needed for option #1 at 100% of yield goal	57.77
Percent of yield goal that would be contracted	19.26%

Recommendation # 2	
Bushels of corn needed for option #2	5,143
Acres needed for option #2 at 100% of yield goal	60.51
Percent of yield goal that would be contracted	20.17%

Recommendation # 3	
Bushels of corn needed for option #3	5,157
Acres needed for option #3 at 100% of yield goal	60.67
Percent of yield goal that would be contracted	20.22%

Recommendation # 4	
Bushels of corn needed for option #4	5,043
Acres needed for option #4 at 100% of yield goal	59.33
Percent of yield goal that would be contracted	19.78%



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Soybean Price	\$13.00		<i>Nutrient (Removal ONLY) per acre</i>	<i>In pounds</i>
Soybean Yield Goal	45			
Number of acres	300			
Price of 28% per ton	\$395.00		Nitrogen needs based on 3.8# of "N" per bushel	43
Price of Urea per ton	\$625.00		Phosphate needs based on .88# of "P" per bushel	40
Price of MAP per ton	\$740.00		Potassium needs based on 1.4# of "K" per bushel	63
Price of Potash per ton	\$625.00			

### Cost per acre.

<i>Recommendation # 1</i>		<i>Cost per acre</i>
Pounds of MAP needed per acre	30	\$11.21
Pounds of Potash needed per acre	66	\$20.63
Gallons of 28% per acre	13.14	\$27.64
		<u>\$59.47</u>

Price per pound of "N" using 28% \$0.71

<i>Recommendation # 2</i>		<i>Cost per acre</i>
Pounds of MAP needed per acre	30	\$11.21
Pounds of Potash needed per acre	66	\$20.63
Urea pounds per acre	90	\$28.00
		<u>\$59.83</u>

Price per pound of "N" using Urea \$0.68

### Total number of tons needed for this years production.

<i>Recommendation # 1</i>	<i>Total Tons</i>	<i>Total Fertilizer cost</i>
Total of 28% needed	20.99	\$8,291.14
Total of MAP needed	4.54	\$3,362.02
Total of Potash needed	9.90	\$6,187.50
		<u>\$17,840.66</u>

<i>Recommendation # 2</i>	<i>Total Tons</i>	<i>Total Fertilizer cost</i>
Total of Urea needed	13.94	\$8,712.64
Total of MAP needed	4.54	\$3,362.02
Total of Potash needed	9.90	\$6,187.50
		<u>\$18,262.16</u>

### Production needed to be contracted to cover the cost of this years fertilizer.

<b>Bushels of Soybeans needed for option #1</b>	1372
<b>Acres needed for option #1 at 100% of yield goal</b>	30.50
<b>Percent of yield goal that would be contracted</b>	10.17%

<b>Bushels of Soybeans needed for option #2</b>	1405
<b>Acres needed for option #2 at 100% of yield goal</b>	31.22
<b>Percent of yield goal that would be contracted</b>	10.41%



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Dry Bean Price in 100 weight	\$40.00		<b>Nutrient (Removal ONLY) per acre</b>	<b>In pounds</b>
Dry Bean Yield Goal in 100 weight	20			
Number of acres	300			
Price of 28% per ton	\$395.00		Nitrogen needs based on 3.6# of "N" per bushel	72
Price of Urea per ton	\$625.00		Phosphate needs based on 1.2# of "P" per bushel	24
Price of MAP per ton	\$740.00		Potassium needs based on 1.6# of "K" per bushel	32
Price of Potash per ton	\$625.00			

### Cost per acre.

Recommendation # 1		Cost per acre
Pounds of MAP needed per acre	13	\$4.98
Pounds of Potash needed per acre	29	\$9.17
Gallons of 28% per acre	23.51	\$49.44
		<u>\$63.59</u>

Price per pound of "N" using 28% \$0.71

Recommendation # 2		Cost per acre
Pounds of MAP needed per acre	13	\$4.98
Pounds of Potash needed per acre	29	\$9.17
Urea pounds per acre	155	\$48.45
		<u>\$62.60</u>

Price per pound of "N" using Urea \$0.68

### Total number of tons needed for this years production.

Recommendation # 1	Total Tons	Total Fertilizer cost
Total of 28% needed	37.55	\$14,832.84
Total of MAP needed	2.02	\$1,494.23
Total of Potash needed	4.40	\$2,750.00
		<u>\$19,077.07</u>

Recommendation # 2	Total Tons	Total Fertilizer cost
Total of Urea needed	23.48	\$14,673.91
Total of MAP needed	2.02	\$1,494.23
Total of Potash needed	4.40	\$2,750.00
		<u>\$18,918.14</u>

### Production needed to be contracted to cover the cost of this years fertilizer.

Bags of Soybeans needed for option #1	477
Acres needed for option #1 at 100% of yield goal	23.85
Percent of yield goal that would be contracted	7.95%

Bags of Soybeans needed for option #2	473
Acres needed for option #2 at 100% of yield goal	23.65
Percent of yield goal that would be contracted	7.88%

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Sugar Beet Price in tons	\$40.00		<i>Nutrient (Removal ONLY) per acre</i>	<i>In pounds</i>
Sugar Beet Yield Goal in tons	20			
Number of acres	300			
Price of 28% per ton	\$395.00		Nitrogen needs based on 4# of "N" per bushel	80
Price of Urea per ton	\$625.00		Phosphate needs based on 1.3# of "P" per bushel	26
Price of MAP per ton	\$740.00		Potassium needs based on 3.3# of "K" per bushel	66
Price of Potash per ton	\$625.00			

### Cost per acre.

<i>Recommendation # 1</i>		<i>Cost per acre</i>
Pounds of MAP needed per acre	13	\$4.98
Pounds of Potash needed per acre	29	\$9.17
Gallons of 28% per acre	26.17	\$55.05
		<u>\$69.20</u>

Price per pound of "N" using 28%

\$0.71

<i>Recommendation # 2</i>		<i>Cost per acre</i>
Pounds of MAP needed per acre	13	\$4.98
Pounds of Potash needed per acre	29	\$9.17
Urea pounds per acre	172	\$53.89
		<u>\$68.03</u>

Price per pound of "N" using Urea

\$0.68

### Total number of tons needed for this years production.

<i>Recommendation # 1</i>	<i>Total Tons</i>	<i>Total Fertilizer cost</i>
Total of 28% needed	41.81	\$16,515.54
Total of MAP needed	2.02	\$1,494.23
Total of Potash needed	4.40	\$2,750.00
		<u>\$20,759.77</u>

<i>Recommendation # 2</i>	<i>Total Tons</i>	<i>Total Fertilizer cost</i>
Total of Urea needed	26.09	\$16,304.35
Total of MAP needed	2.02	\$1,494.23
Total of Potash needed	4.40	\$2,750.00
		<u>\$20,548.58</u>

### Production needed to be contracted to cover the cost of this years fertilizer.

Tons of Sugar Beets needed for option #1	519
Acres needed for option #1 at 100% of yield goal	25.95
Percent of yield goal that would be contracted	8.65%

Tons of Sugar Beets needed for option #2	514
Acres needed for option #2 at 100% of yield goal	25.69
Percent of yield goal that would be contracted	8.56%