

## **Crop Enterprise Budgets For 1,000 Acre Cash Grain Farm – 2009**

### **Farm and Rotation Assumptions**

Farm Sizes 1000 Crop Acres (600 acres corn, 400 acres soybean)  
Budget 1 200 Acres Corn Following Corn  
Budget 2 400 Acres Corn Following Soybean  
Budget 3 400 Acres Soybeans Following Corn

### **General Assumptions**

1. Reasons for more corn than soybean acres
  - A. Usually some land not well suited to soybeans
  - B. Shorter harvest window for soybeans
  - C. Disease management necessitates fewer soybean acres
2. Crop prices based on price estimates
3. Yields based on long-term rotation studies in Wisconsin
4. Transport factor (machinery set up, field transport) 0.10
5. Bulk spread fertilizer – custom hired \$6.34/A
6. Long-term interest rate 5.45%
7. Short-term interest rate 3.99%
8. Short-term loan period 6 Months
9. Operator labor \$10.00/hour
10. Crop consultant \$8.00/A
11. Land rent \$85.00/A
12. Soil test levels equal optimum (UW soil test recommendations)

**Crop Enterprise Budgets For  
1000 Acre Cash Grain Farm – 2009  
Machinery and Equipment Assets**

**Power Units**

40 HP Tractor  
75 HP Tractor  
100 HP Tractor  
140 HP 4WD Tractor  
160 HP MFWD Tractor  
265 HP Combine

**Tillage Equipment**

16.3' disk chisel plow - 200 HP MFWD tractor  
28' field cultivator - 160 HP MFWD tractor  
6 row 30" cultivator – 100 HP tractor

**Planting Equipment**

12 row 30" min-till corn planter – 160 MFWD HP tractor  
Min-till 15' grain drill – 140 HP 4WD tractor

**Miscellaneous Equipment**

60' boom sprayer - 60 HP tractor  
Tandem truck – 1600 gal spray nurse tank

**Harvest Equipment/Grain Hauling**

6 row 30" corn head  
25' soybean head  
2 - 260 Bu gravity boxes with running gears – 75 HP tractor

## Crop Enterprise Budgets For 1,000 Acre Cash Grain Farm – 2009

### Budget 1 - Corn Grain Following Corn (200 Acres)

#### Budget Assumptions:

1. Yield = 155 Bu/A
2. 80,000 seeds/bag x 0.394 bag/A = 31,520 planted population
3. Starter N, P & K 9-23-30 150 lb/A
4. Custom bulk spread fertilizer 18-46-0 55 lb/A
5. Custom bulk spread fertilizer 46-0-0 210 lb/A

Total nutrients applied 121 N+60 P<sub>2</sub>O<sub>5</sub>+45 K<sub>2</sub>O

6. Spray Harness pre-emergence 2.0 pt/A
7. Spray Hornet WDG pre-emergence 4.0 oz/A
8. Corn drying \$.047/point x 6 pts = \$.282/Bu
9. Crop insurance \$19.82/A

#### Operations

1. Fall tillage – 16.3' disk chisel plow - 200 HP MFWD tractor
2. Spring tillage – 28' field cultivator - 160 HP MFWD tractor
3. Custom bulk spread fertilizer
4. Planting - 12 row 30" min-till corn planter - 160 HP MFWD tractor
5. Herbicide application - 60' boom sprayer - 60 HP tractor
6. 6 row 30" cultivator - 100 HP tractor
7. Harvest - 265 HP combine with 6 row 30" head
8. Tandem truck - 1600 gal spray nurse tank
9. Two, 260 Bu gravity boxes w/running gears - 75 HP tractor
10. Dealer provided fertilizer nurse box

## **Crop Enterprise Budgets For 1,000 Acre Cash Grain Farm - 2009**

### **Budget 2 - Corn Following Soybeans (400 Acres)**

#### **Budget Assumptions**

1. Yield = 181 Bu/A
2. 80,000 seeds/bag x 0.394 bag/A = 31,520 planted population
3. Starter N, P & K 9-23-30 150 lb/A
4. Custom bulk spread fertilizer 18-46-0 80 lb/A
5. Custom bulk spread fertilizer 46-0-0 210 lb/A
6. Custom bulk spread fertilizer 0-0-60 10 lb/A

Total nutrients applied 102 N+71 P<sub>2</sub>O<sub>5</sub>+51 K<sub>2</sub>O

7. Spray Harness pre-emergence 2.0 pt/A
8. Spray Hornet WDG pre-emergence 4.0 oz/A
9. Corn drying \$.047/point x 6 pts = \$.282/Bu
10. Crop insurance \$20.68/A

#### **Operations**

1. Spring tillage - 28' field cultivator - 160 HP MFWD tractor
2. Custom bulk spread fertilizer
3. Planting - 12 row 30" min-till corn planter - 160 HP MFWD tractor
4. Herbicide application - 60' boom sprayer - 60 HP tractor
5. 6 row 30" cultivator - 100 HP tractor
6. Harvest - 275 HP combine with 6 row 30" head
7. Tandem truck - 1600 gal spray nurse tank
8. Two, 260 Bu gravity boxes w/running gears - 75 HP tractor
9. Dealer provided fertilizer nurse box

## **Crop Enterprise Budgets For 1000 Acre Cash Grain Farm – 2009**

### **Budget 3 - Soybeans Following Corn (400 Acre)**

#### **Budget Assumptions**

1. Yield = 55 Bu/A
2. Seed - Roundup Ready; 80 lbs/A  
2810 seeds/lbs = 225,000 seeds/A planted population
3. Custom bulk spread fertilizer 18-46-0                      109 lb/A
4. Custom bulk spread fertilizer 0-0-60                      100 lb/A

Total nutrients applied 20 N+50 P<sub>2</sub>O<sub>5</sub>+60 K<sub>2</sub>O

5. Herbicide spray - post emergence application  
Roundup WeatherMax      0.17 gal/A
6. Crop insurance \$ 13.16/A

#### **Operations**

1. Fall tillage – 16.3' disk chisel plow - 200 HP MFWD tractor
2. Spring tillage – 28' field cultivator - 160 HP MFWD tractor
3. Planting - min-till 15' drill - 140 HP 4WD tractor
4. Custom bulk spread fertilizer
5. Post emergence spray application - 100 HP tractor
6. Harvest - 265 HP combine with 25' soybean head
7. Tandem truck - 1600 gal spray nurse tank
8. Two, 260 Bu gravity boxes with running gears - 75 HP tractor
9. Dealer provided fertilizer nurse box

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