Crop Enterprise Budgets For
1,000 Acre Cash Grain Farm – 2010

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 $6.42/A
6. Long-term interest rate 5.60%
7. Short-term interest rate 4.50%
8. Short-term loan period 6 Months
9. Operator labor $10.00/hour
10. Crop consultant $9.00/A
11. Land rent $89.00/A
12. Soil test levels equal optimum (UW soil test recommendations)
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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
8 row 30” cultivator – 130 HP MFWD 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
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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    220 lb/A

Total nutrients applied 125 N+60 P₂O₅+45 K₂O

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 = $.312/Bu
9. Crop insurance $14.53/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. 8 row 30” cultivator – 130 HP MFWD 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
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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 106 N+71 P₂O₅+51 K₂O

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 = $.312/Bu
10. Crop insurance $15.04/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. 8 row 30” cultivator – 130 HP MFWD 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
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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 P₂O₅+60 K₂O
5. Herbicide spray - post emergence application
   Roundup WeatherMax 0.17 gal/A
6. Crop insurance $ 10.06/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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