Crop Enterprise Budgets For
1,000 Acre Cash Grain Farm – 2006

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 2000 to 2005 average price
3. Yields based on long-term rotation studies in Wisconsin
4. Transport factor (machinery set up, field transport) .10
5. Bulk spread fertilizer – custom hired $7.44/A
6. Grain storage for 116,000 bushels
   The approximate corn production estimate
   - moving/storing all soybeans off farm
7. Long-term interest rate  7.15%
8. Short-term interest rate  7.35%
9. Short-term loan period  6 Months
10. Operator labor $20.00/hour
11. Management charge - 6.0% of gross
12. Crop consultant $5.50/A
13. Land rent $70.00/A
14. Soil test levels equal optimum (UW soil test recommendations)
Crop Enterprise Budgets For
1000 Acre Cash Grain Farm – 2006
Machinery and Equipment Assets

Power Units
40 HP Tractor
75 HP Tractor
100 HP Tractor
140 HP 4WD Tractor
160 HP MFWD Tractor
220 HP Combine
275 HP Combine

Tillage Equipment
15’ disk chisel plow - 160 HP MFWD tractor
28’ field cultivator - 160 HP MFWD tractor
6 row 30” cultivator – 100 HP tractor

Planting Equipment
6 row 30” min-till corn planter – 75 HP tractor
Min-till 15’ grain drill – 140 HP 4WD tractor

Miscellaneous Equipment
30’ boom sprayer - 100 HP tractor
Tandem truck – 2000 gal spray nurse tank

Harvest Equipment/Grain Hauling
6 row 30” corn head
25’ soybean head
Tandem truck w/grain box
2 - 240 Bu gravity boxes with running gears – 75 HP tractor
0.5 ton 300 HP gasoline pickup truck
0.75 ton medium truck

Durables
Hi/low batch grain dryer
Shop building and equipment
Machine shed
116,000 bushels grain storage
Crop Enterprise Budgets For
1,000 Acre Cash Grain Farm – 2006

Budget 1 - Corn Grain Following Corn (200 Acres)

Budget Assumptions:
1. Yield = 176 Bu/A
2. 80,000 seeds/bag x 0.375 bag/A = 30,000 planted population
3. Starter N, P & K 9-23-30 150 lb/A
4. Custom bulk spread fertilizer 0-46-0 76 lb/A
5. Custom bulk spread fertilizer 46-0-0 130 lb/A
6. Spray 28% nitrogen solution pre-emergence 110 lb/A

Total nutrients applied 105 N+70 P2O5+45 K2O

7. Spray Harness pre-emergence 1.8 pt/A = 0.225 gal/A
8. Spray Hornet WDG pre-emergence 1.75 pt/A = 0.2188 gal/A
9. Corn drying $.028/point x 6 pts = $.18/Bu
10. Crop insurance $5.61/A

Operations
1. Fall tillage – 15' disk chisel plow - 160 HP MFWD tractor
2. Spring tillage – 28' field cultivator - 160 HP MFWD tractor
3. Custom bulk spread fertilizer
4. Planting - 75 HP tractor
5. Herbicide/nitrogen spray application - 30' boom sprayer - 100 HP tractor
6. 6 row 30" cultivator - 100 HP tractor
7. Harvest - 220 HP combine with 6 row 30" head
8. Tandem truck - 2000 gal spray nurse tank
9. Harvest - tandem truck w/grain box
10. Two, 240 Bu gravity boxes w/running gears - 75 HP tractor
11. Dealer provided fertilizer nurse box
12. 0.5 ton 300 HP gasoline pickup truck
Crop Enterprise Budgets For
1,000 Acre Cash Grain Farm - 2006

Budget 2 - Corn Following Soybeans (400 Acres)

Budget Assumptions
1. Yield = 203 Bu/A
2. 80,000 seeds/bag x 0.375 bag/A = 30,000 planted population
3. Starter N, P & K 9-23-30 150 lb/A
4. Custom bulk spread fertilizer 0-46-0 87 lb/A
5. Custom bulk spread fertilizer 46-0-0 98 lb/A
6. Spray 28% nitrogen solution pre-emergence 110 lb/A
7. Custom bulk spread fertilizer 0-0-60 17 lb/A

Total nutrients applied 90 N+75 P₂O₅+45 K₂O
8. Spray Harness pre-emergence 1.8 pt/A = 0.225 gal/A
9. Spray Hornet WDG pre-emergence 1.75 pt/A = 0.2188 gal/A
10. Corn drying $.028/point x 6 pts = $.18/Bu
11. Crop insurance $5.61/A

Operations
1. Spring tillage - 28' field cultivator - 160 HP MFWD tractor
2. Custom bulk spread fertilizer
3. Planting - 75 HP tractor
4. Herbicide/nitrogen spray application - 30' boom sprayer - 100 HP tractor
5. 6 row 30" cultivator - 100 HP tractor
6. Harvest - 220 HP combine with 6 row 30" head
7. Tandem truck - 2000 gal spray nurse tank
8. Harvest - tandem truck with grain box
9. Two, 240 Bu gravity boxes w/running gears - 75 HP tractor
10. Dealer provided fertilizer nurse box
11. 0.75 ton medium truck
Crop Enterprise Budgets For 1000 Acre Cash Grain Farm – 2006

Budget 3 - Soybeans Following Corn (400 Acre)

Budget Assumptions
1. Yield = 50 Bu/A
2. Seed - Roundup Ready; 80 lbs/A
   2810 seeds/lbs = 225,000 seeds/A planted population
3. Custom bulk spread fertilizer 0-46-0     109 lb/A
4. Custom bulk spread fertilizer 0-0-60     100 lb/A
   Total nutrients applied 0 N+50 P₂O₅+60 K₂O
5. Herbicide spray - post emergence application
   Roundup WeatherMax 0.1719 gal/A
6. Crop insurance $ 3.71/A

Operations
1. Fall tillage – 15’ disk chisel plow - 160 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 - 275 HP combine with 25’ soybean head
7. Tandem truck - 2000 gal spray nurse tank
8. Harvest - tandem truck with grain box
9. Two, 240 Bu gravity boxes with running gears - 75 HP tractor
10. 3/4 ton medium truck

April 2006