Crop Enterprise Budgets For
2200 Acre Cash Grain Farm – 2006

Farm and Rotation Assumptions
Farm Size  2200 Crop Acres (1320 acres corn, 880 acres soybeans)
Budget 1   440 Acres Corn Following Corn
Budget 2   880 Acres Corn Following Soybeans
Budget 3   880 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 256,000 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)
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Machinery and Equipment Assets

**Power Units**
- 140 HP 4WD Tractor
- 160 HP MFWD Tractor
- 200 HP MFWD Tractor
- 225 HP MFWD Tractor
- Combine #1 275 HP
- Combine #2 220 HP

**Tillage Equipment**
- 15 ft. disk chisel plow - 225 HP MFWD tractor
- 28 ft. field cultivator - 225 HP MFWD tractor

**Planting Equipment**
- 16 row, 30" min-till corn planter - 200 HP MFWD tractor
- 15 ft. min-till grain drill - 140 HP 4WD tractor

**Miscellaneous Equipment**
- 60 ft. self-propelled boom sprayer
- Tandem truck - 2000 gal sprayer nurse tank

**Harvest Equipment/Grain Hauling**
- 8 row 30" corn head
- 6 row 30" corn head
- 25' soybean head
- 18' soybean head
- 0.75 ton medium truck
- Semi tractor with 42 foot hopper trailer
- Tandem truck with grain box
- 500 Bu grain cart
- Header cart

**Durables**
- High temperature continuous flow grain dryer
- Shop building and equipment
- Machine shed
- 256,000 Bu grain storage
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Budget 1 - Corn Grain Following Corn (440 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 - 225 HP MFWD tractor
2. Spring tillage – 28’ field cultivator - 225 HP MFWD tractor
3. Custom bulk spread fertilizer
4. Planting - 200 HP MFWD tractor
5. Herbicide/nitrogen spray application
6. Harvest combine #1 - 220 HP with 8 row 30” head
7. 500 Bu grain cart - 225 HP MFWD tractor
8. Harvest combine #2 - 220 HP with 6 row 30” head
9. Tandem truck – 2000 gal sprayer nurse tank
10. Harvest - tandem truck
11. Harvest - semi tractor with 42 foot hopper trailer
12. Dealer provided fertilizer nurse box
13. Header cart – 3/4 ton medium truck
Budget 2 - Corn Following Soybeans (880 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 - 225 HP MFWD tractor
2. Custom bulk spread fertilizer
3. Planting - 200 HP MFWD tractor
4. Herbicide/nitrogen spray application
5. Harvest combine #1 - 220 HP with 8 row 30" head
6. Harvest combine #2 - 220 HP with 6 row 30" head
7. 500 Bu grain cart - 225 HP MFWD tractor
8. Tandem truck – 2000 gal sprayer nurse tank
9. Harvest - tandem truck
10. Harvest - semi tractor 42 foot hopper trailer
11. Dealer provided fertilizer nurse box
12. Header cart – 3/4 ton medium truck
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Budget 3 - Soybeans Following Corn (880 Acres)

Budget Assumptions:
1. Yield = 50 Bu/A
2. Seed = Roundup Ready; 80 lbs/A
   \[ \text{2810 seeds/lbs} = \text{225,000 seeds/A planted population} \]
3. Custom bulk spread fertilizer  \(0-46-0\) 100 lb/A
4. Custom bulk spread fertilizer  \(0-0-60\) 85 lb/A

   Total nutrients applied \(0 \text{ N}+46 \text{ P}_2\text{O}_5+51 \text{ K}_2\text{O}\)

5. Herbicide spray - post emergence application
   Roundup WeatherMax  \(0.1719\) gal/A
6. Crop insurance  $3.55/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 - 140 HP 4WD tractor
4. Custom bulk spread fertilizer
5. Post emergence spray application
6. Harvest combine #1 - 275 HP with 25’ soybean head
7. Harvest combine #2 - 275 HP with 18’ soybean head
8. Header cart - 3/4 ton medium truck
9. Tandem truck – 2000 gal sprayer nurse tank
10. Harvest - tandem truck
11. Harvest - semi tractor with 42 foot hopper trailer
12. Harvest - 500 Bu grain cart - 225 HP MFWD tractor

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