

Crop Enterprise Budgets For 2200 Acre Cash Grain Farm – 2009

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 price estimates
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 \$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
2200 Acre Cash Grain Farm – 2009
Machinery and Equipment Assets**

Power Units

140 HP 4WD Tractor
160 HP MFWD Tractor
200 HP MFWD Tractor
225 HP MFWD Tractor
Combine 305 HP

Tillage Equipment

16.3 ft. disk chisel plow - 200 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 - 1600 gal sprayer nurse tank

Harvest Equipment/Grain Hauling

8 row 30" corn head
25' soybean head
0.75 ton medium truck
Semi tractor with 42 foot hopper trailer
600 Bu grain cart
Header cart

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Budget 1 - Corn Grain Following Corn (440 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 55 lb/A
5. Custom bulk spread fertilizer 46-0-0 210 lb/A

Total nutrients applied 121 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 = \$.282/Bu
9. Crop insurance \$19.82/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 application
6. Harvest combine - 305 HP with 8 row 30" head
7. 600 Bu grain cart - 225 HP MFWD tractor
8. Tandem truck – 1600 gal sprayer nurse tank
9. Harvest - tandem truck
10. Harvest - semi tractor with 42 foot hopper trailer
11. Dealer provided fertilizer nurse box
12. Header cart – 3/4 ton medium truck

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Budget 2 - Corn Following Soybeans (880 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 55 lb/A
5. Custom bulk spread fertilizer 46-0-0 210 lb/A

Total nutrients applied 121 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 = \$.282/Bu
9. Crop insurance \$19.82/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 application
5. Harvest combine - 305 HP with 8 row 30" head
6. 600 Bu grain cart - 225 HP MFWD tractor
7. Tandem truck – 1600 gal sprayer nurse tank
8. Harvest - semi tractor 42 foot hopper trailer
9. Dealer provided fertilizer nurse box
10. Header cart – 3/4 ton medium truck

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Budget 3 - Soybeans Following Corn (880 Acres)

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 \$ 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 - 140 HP 4WD tractor
4. Custom bulk spread fertilizer
5. Post emergence spray application
6. Harvest combine - 265 HP with 25' soybean head
7. Header cart - 3/4 ton medium truck
8. Tandem truck – 1600 gal sprayer nurse tank
9. Harvest - semi tractor with 42 foot hopper trailer
10. Harvest - 600 Bu grain cart - 225 HP MFWD tractor

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