

## Irrigation Crop Budget Assumptions

- Projected crop prices and fertilizer prices in 2010 are estimated for the purposes of budgeting based on February 1 price indications. Use the latest available fertilizer costs and crop prices to calculate returns.
- Saskatchewan Crop Insurance Corporation rates are for 70% coverage.
- Seed costs are taken from the Saskatchewan Ministry of Agriculture Crop Planning Guides 2010 where applicable and also from industry. Refer to Appendix A for more details.
- Seed treatment/inoculation information from dealers and Saskatchewan Ministry of Agriculture 2010 Guide to Crop Protection. Cereals are treated with Dividend at high rate. Canola is treated with Helix. Flax is treated with Vitaflo.
- Fertilizer price from industry February 1, 2010;
  - o Nitrogen based on 46-0-0 at \$450/tonne (\$0.44/lb)
  - o Phosphorus based on 12-51-0 at \$525/tonne (\$0.40/lb)
  - o Potassium based on 0-0-62 at \$550/tonne (\$0.40/lb)
- Herbicide, insecticide, and fungicide costs are based on dealer information. Refer to Appendix A for more details on herbicides.
- Equipment fuel and repair based on Saskatchewan Ministry of Agriculture Crop Planning Guides 2010 numbers for conventionally-tilled grain crops where applicable. Equipment fuel and repair for other crops estimated based on producer experience. Fuel cost based on \$0.72/L of diesel.
- Custom work and hired labour based on industry information (\$15/hour). Refer to Appendix A for more details on custom work.
- Irrigation application rates used for calculation of pumping costs and water service costs are based on stored soil moisture and precipitation of 8.5 inches for normal season crops (cereals, oilseeds, pulses, potatoes) and 9.5 inches for perennial and long-season crops (perennial forages, corn), which is the long-term average for the Outlook area.
- Irrigation pumping costs/power based on 40 hp pump on a 7 tower low pressure pivot with an annual cost of about \$1860 for 133 acres.
- Irrigation repair based on 1.5% of \$90,000 (pivot cost) over 130 acres.
- Irrigation service charge based on projected 2010 rate for SSRID (base \$19.40, with a water usage adjustment; \$3.50 for 12 inches).
- Crop insurance based on 2009 rates at 70% for soil class E in Risk Area 12. See Generic Insurance Cost Calculator at [www.saskcropinsurance.com](http://www.saskcropinsurance.com) for 2010 rates released in March.
- Hail insurance is based on \$150.00/ac coverage at 5.2% premium for crops insured at the basic rate.
- Other is a catch-call category for expenses not covered above. Refer to Appendix A for more details.
- Farm overhead includes property tax, auto expenses, building repairs and insurance, small tools.
- Operating interest is 3.1% for 6 months (consistent with Saskatchewan Ministry of Agriculture Crop Planning Guides).

- Farm equipment and buildings is an expense based on the payment equivalent of each piece's current value at 5.5% interest for the given life of the item.
- Irrigation system cost is equal to a payment at 5.5% interest based on a system value of \$45,000 (50% of new cost \$90,000) over 25 years and 133 acres.
- Special Crop Equipment
  - o Row crop equipment used in dry bean and corn budgets (planter, cultivator, etc.) had 600 acres use annually for 10 years.
  - o Grain corn header used on 300 acres for 10 years.
  - o Side knife (canola, mustards and fababeans) used on 600 acres annually for 10 years.
  - o Pulse equipment (flex header, roller) used on 600 acres annually for 10 years.
  - o Hay equipment: baler and swath inverter are used on 500 ac annually for 10 years; shed, mower and bale mover used on 500 ac annually for 15 years.
  - o Cross fencing (10 year life); permanent fencing (15 year life); water supply for grazing corn and perennial pasture (15 year life).
  - o Potato field equipment (10 year life), storage / handling equipment (10 year life), and storage facility (15 year life) are used on 500 acres.
- Land investment cost based on a return of 4.5% of a quarter of land valued at \$70,000 over 160 acres.
- Freight and marketing costs have not been included in these budgets. These costs are area and situation specific. Rail freight and elevation costs have been included for board grains.
- Prices for board non-feed grains are based on the January 28, 2010 PRO ([www.cwb.ca](http://www.cwb.ca))
- **High, medium and low yields are based on producer experience. Variations can occur due to environmental conditions, management and soil productivity.**

## Appendix A

<i>CROP</i>	<i>Seed Cost</i>	<i>Herbicide</i>	<i>Fungicide</i>	<i>Custom Costs</i>	<i>Other Costs</i>
Hard Wheat	\$0.13/lb	Clodinafop / Bromoxynil 2,4-D Ester	Dividend XL		
Durum	\$0.15/lb	Clodinafop / Bromoxynil 2,4-D Ester	Dividend XL / Folicur		
CPS Wheat	\$0.11/lb	Clodinafop / Bromoxynil 2,4-D Ester	Dividend XL		
Soft Wheat	\$0.11 /lb	Clodinafop / Bromoxynil 2,4-D Ester	Dividend XL / Folicur		
Malt Barley	\$0.15/lb	Achieve Liquid Gold	Dividend XL		
Feed Barley	\$0.10 /lb	Achieve Liquid Gold	Dividend XL		
Canola	\$7.25lb *	Glyphosate (2 applications – Burn-off and In-crop)	Helix / Proline		
Brown/Oriental Mustard	\$2.01/lb	Select / Centurion			
Yellow Mustard	\$2.30/lb	Select / Centurion			
Flax	\$0.28/lb	FlaxMax			
Pea	\$0.11/lb	Viper	Headline		
Fababean	\$0.20 /lb	Treflan EC; Sencor; Reglone			
Red Lentil	\$0.39/lb	Edge; Reglone	Headline		
Dry Bean	\$0.55/lb	Edge; Basagran	Lance (2 applications)		
Grain Corn	\$2.24 / 1000 seeds *	Glyphosate (2 applications – Burn-off and In-crop)	Poncho	Grain drying	
Corn Grazing	\$2.24 / 1000 seeds *	Glyphosate (2 applications – Burn-off and In-crop)	Poncho		
Corn Silage	\$2.24 / 1000 seeds *	Glyphosate (2 applications – Burn-off and In-crop)	Poncho	Silage	
Barley Silage	\$0.10/lb	Achieve Liquid Gold		Silage	
Seedling Alfalfa	\$3.75/lb	Glyphosate 0.5 L			Twine
Alfalfa (2 or 3 cut)	\$0.13/lb				Twine
Seedling Pasture with greenfeed cover	\$0.18/lb \$2.50/lb	Glyphosate 0.5 L			Twine
Pasture	\$2.63/lb				
Timothy	\$1.70/lb	Glyphosate; 2(2,4D+Banvel)			Twine, ground sheets
Ryegrass	\$1.25/lb	Glyphosate; MCPA		<i>variable</i>	<i>variable</i>
Seed Potato	\$495/.90ton	Eptam 8-E; Poast Ultra;	Maxim; Bravo; Quadris	7 aerial spray	Inspection
Table Potato	\$385.70/ton	Reglone	Maxim; Dithane; Quadris	6 aerial spray	

\* Seed price includes the Technology User Agreement for Round-Up Ready corn and canola.

**For more information:**

Irrigation in Saskatchewan website:

[www.irrigationsaskatchewan.com](http://www.irrigationsaskatchewan.com)

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Canada-Saskatchewan Irrigation Diversification Centre  
(306) 867-5400  
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