

AB-9 Future Farm Summary

	Off-source Watering System with a New Well	Off-source Watering System with a New Well, Cost-shared
Description	Increase calf average daily gain through adding an off-source watering system.	Increase calf average daily gain through adding an off-source watering system, with cost-share with the Canadian Agricultural Partnership.
Assumptions	<ul style="list-style-type: none"> Add a solar-powered pump system and a new well, initial cost at \$20,500 Maintenance cost of the water system at \$100 per year Additional average daily gain of 0.1 lb per calf Heifer weaning weight up from 484 to 502 lbs, steer weaning weight up from 512 to 530 lb 	<ul style="list-style-type: none"> Add a solar-powered pump system and a new well, initial cost at \$20,500 25% cost-shared up to a maximum of \$5,000 with the Water Program of the Canadian Agricultural Partnership (CAP)* Maintenance cost of the water system at \$100 per year Additional average daily gain of 0.1 lb per calf Heifer weaning weight up from 484 to 502 lbs, steer weaning weight up from 512 to 530 lb <p>* Assumption only. Actual application must meet program requirements.</p>
Trade-Off Considerations	<ul style="list-style-type: none"> Upfront capital required to invest in new watering system Water system cost on a per head basis affected by herd size (higher \$/head cost for smaller herd) Cattle price per lb may decrease due to price slide on heavier sale weight 	<ul style="list-style-type: none"> Upfront capital required to invest in new watering system Water system cost on a per head basis affected by herd size (higher \$/head cost for smaller herd) Cattle price per lb may decrease due to price slide on heavier sale weight
5-year average vs. baseline year*		
Estimated Change at Whole Farm Level (\$/year)		
Net Income	+\$12,300	+\$13,309
Net Cash Farm Income	+\$12,298	+\$13,307
Estimated Change at Cow-calf Enterprise (\$/cow)		
Short-term Profits	+\$11	+\$14
Medium-term Profits	+\$12	+\$14
Long-term Profits	+\$11	+\$13



Swath Grazing, Reduce Rented Land		Swath Grazing, Sell Hay
Description	Add two weeks of swath grazing period to reduce full winter-feeding days and rented land for hay production.	Add two weeks of swath grazing period to reduce full winter-feeding day and sell surplus hay.
Assumptions	<ul style="list-style-type: none"> Add 14 days of fall oats swath grazing from mid to late-November for cows Assume 110 cow-days per acre for oat swath grazing, 48 acres are needed Reduce full winter-feeding days by 14 days, land for hay production reduce by 87 acres, 48 acres of which are used for swath grazing Total rented crop land reduces by 39 acres Production cost for oats swath at \$202/ac \$49/ac to break and plow hay field prior to seeding oats Reduce labour cost for winter feeding by 21 hours (1.5 hr for 14 days at \$13/hr) Additional cost \$12,208 to set up fencing for swath grazing (\$7/meter) 	<ul style="list-style-type: none"> Add 14 days of fall oats swath grazing from mid to late-November for cows Assume 110 cow-days per acre for oat swath grazing, 48 acres are needed Reduce full winter-feeding days by 14 days, equivalent to 87 acres, 48 acres of which are used for swath grazing Sell hay produced in the rest of 39 acres at \$168/tonne Production cost for oats swath at \$202/ac \$49/ac to break and plow hay field prior to seeding oats Reduce labour cost for winter feeding by 21 hours (1.5 hr for 14 days at \$13/hr) Additional cost \$12,208 to set up fencing for swath grazing (\$7/meter)
Trade-Off Considerations	<ul style="list-style-type: none"> Potential crop failure Potential use by wildlife Extreme weather conditions that could require supplementing Higher cost of crop inputs, especially in 2021-2022 	<ul style="list-style-type: none"> Potential crop failure Potential use by wildlife Extreme weather conditions that could require supplementing Higher cost of crop inputs, especially in 2021-2022
5-year average vs. baseline year*		
Estimated Change at Whole Farm Level (\$/year)		
Net Income	-\$5,913	+\$265
Net Cash Farm Income	-\$5,914	+\$263
Estimated Change at Cow-calf Enterprise (\$/cow)		
Short-term Profits	-\$22	-\$23
Medium-term Profits	-\$22	-\$23
Long-term Profits	-\$23	-\$20



Barley Silage, Reduce Rented Land		Barley Silage, Sell Hay
Description	Turn part of hay land to barley silage production, reduce rented land.	Turn part of hay land to barley silage production, sell surplus hay.
Assumptions	<ul style="list-style-type: none"> Change cow and heifer rations to 50% barley silage and 50% hay (as fed) Change backgrounding rations to 11 lbs of hay, 7-7.5 lbs of barley silage, and 3-4 lbs of oats Land for hay production reduce by 519 acres, 185 acres of which are used for barley silage Reduce rented cropland by 334 acres Barley silage production cost at \$267/ac Invest \$9,600 in 24 new 20-foot bunks in year-one Invest \$45,000 in a mixer wagon in year-one 	<ul style="list-style-type: none"> Change cow and heifer rations to 50% barley silage and 50% hay (as fed) Change backgrounding rations to 11 lbs of hay, 7-7.5 lbs of barley silage, and 3-4 lbs of oats 185 acres of hay land are turned into barley silage Sell surplus hay production from 334 acres at \$168/tonne Reduce rented cropland by 334 acres Barley silage production cost at \$267/ac Invest \$9,600 in 24 new 20-foot bunks in year-one Invest \$45,000 in a mixer wagon in year-one
Trade-Off Considerations	<ul style="list-style-type: none"> May need to try growing silage on annual crop land first before plowing hay land into annual crop in case of a crop failure, so still have hay as a backup plan. Higher cost of crop inputs, especially in 2021-2022 	<ul style="list-style-type: none"> May need to try growing silage on annual crop land first before plowing hay land into annual crop in case of a crop failure, so still have hay as a backup plan. Higher cost of crop inputs, especially in 2021-2022
5-year average vs. baseline year*		
Estimated Change at Whole Farm Level (\$/year)		
Net Income	-\$66,411	-\$30,400
Net Cash Farm Income	-\$66,411	-\$30,400
Estimated Change at Cow-calf Enterprise (\$/cow)		
Short-term Profits	-\$123	-\$162
Medium-term Profits	-\$123	-\$162
Long-term Profits	-\$122	-\$137

* Changes in profitability come from the practice change as well as debt servicing

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