



Deciding which grain storage system, or combination of systems, to use on your operation can be challenging. You should consider several factors besides price before making your purchase decision.

Essential factors to consider:

- Operational requirements
- Depreciation
- Repair & maintenance
- · Existing systems

- Set-up costs
- Required site preparation
- Financing interest & opportunity costs
- Labour availability

- Required or desired storage system
- Potential spoilage
- Farms future plans



PROs

Grain Bag Storage

Quick availability in times of excess production

Typically a minimal investment

The ability to be placed in any location

Grain Bin Storage

The assurance that product will be relatively unspoiled (solid protection and adequate aeration)

An investment into overall operation value

Future re-sale opportunity

Ease of use

Multi-purpose functionality (e.g. fertilizer or grain storage in smoothwall bins)

CONs

Grain Bag Storage

Reduced moisture management

No ability to mitigate heat

Material wastage (grain and plastic)

No re-sale value

A risk of pest, wildlife, moisture and contamination damage

Short storage periods (six to eight months)

Equipment that must be purchased, leased or custom sourced

Grain Bin Storage

A longer set-up time and site preparation

A fixed location

Maintenance requirements

Cleaning required between uses

A larger investment requirement



In order to arrive at the best solution for your farm, ensure that you are evaluating the entire cost of the storage options under consideration and the temporary or permanent nature of your storage needs. Review the questions below to help simplify the decision making process.

Consider your operation's needs when making a grain-storage decision:	Yes	No
Do you need to store grain for less than eight months?	\bigcirc	\bigcirc
Is your land rented or leased, and investment in permanent storage is not desirable?	\bigcirc	\bigcirc
Is labour and trucking limited during harvest?	\bigcirc	\bigcirc
Is your land located far from your bin system(s)	\bigcirc	\bigcirc
Do you plan to leave the business in the near future?	\bigcirc	\bigcirc
Is there an agricultural plastic recycling site within reasonable travel distance?	\bigcirc	\bigcirc
Are you storing lower-quality grains that don't require close monitoring?	\bigcirc	\bigcirc

If you've answered "No" to most of these questions permanent grain storage might be the right solution for your farm.

Grain Bins and Bags: Estimated Price Comparison*

Description	Corrugated	Corrugated	Smoothwall	Grain Bagging System		
Base type	Hopper on gravel	Flat bottom on concrete	Hopper bottom on concrete	N/A		
Size (25,000 bushels)	5 bins at 5,000 bushels/bin		25,000 bushels bagged			
Years of use	25	25	25	15		
Cost/bushel (includes equipment, site preparation	\$3.35	\$3.75	\$5.25	\$80,00	Bagger and Extractor	
and set-up)				\$0.07	cost of bag/bushel	
Storage cost of purchase including, base, site prep and set-up	\$83,750	\$93,750	\$131,250	\$80,000	Bagger and Extractor	
				\$1,750	cost of bags/year	
Depreciation	10%	4%	4%	20%	For Bagger	
	\$77,404	\$59,259	\$82,962	\$76,833		
Salvage value	40%	30%	60%	10%		
	\$33,500	\$28,125	\$78,750	\$8,000		
Repairs and maintenance (bins 2%, equipment 5%)	\$1,675	\$1,875	\$2,625	\$4,000	and Extractor	
Interest on investment (loan rate 5% at 60 months)	\$11,078	\$12,401	\$17,361	\$10,582		
Spoilage 0.5% at \$5/bushel	\$0	\$0	\$0	\$9,375	-	
Total investment cost over lifespan to store	\$140,407	\$139,160	\$155,448	\$172,790 \$26,250	Bagger and Extractor Bags	
25,000 bushels/year				\$199,040	-	
Total annual cost for 25,000 bushels of storage	\$5,616	\$5,566	\$6,218	\$13,269.33		
Cost/bushel/year	\$0.22	\$0.22	\$0.25	\$0.53	- <u> </u>	

Visit your local CO-OP® Agro Centre to talk about the optimal grain storage choices for you.

^{*}This example is an excerpt from the Alberta Agriculture and Forestry's *Grain Storage: Considerations* report and is based on the assumptions specified therein. This example has been modified to include only grain bin and bag considerations. Read the full report and view full example here: http://www1.agric.gov.ab.ca/\$Department/deptdocs.nsf/all/sig15016