

Dry Food* Storage Container Comparisons

ContainerType	Cost Each **	Capacity in Lbs. of Wheat	Container Cost/Lb. of Wheat	Strengths	Limitations	Availability
Containers for Longer-Term Storage of Dry Food						
#10 Can (.83 gallon) With oxygen absorber	\$ 1.20	5.8 lbs 35 lbs per cu ft	\$.21	Durable Stackable Rodent proof Long-term oxygen barrier	Not reusable Requires sealer Not rust proof	Cans: Industrial Container-SLC, Walton Feed online, LDS home storage centers, search online Can sealers: www.geringandson.com
Foil Pouch (1 gallon) With oxygen absorber	\$.62	7 lbs 32 lbs per cu ft	\$.09	Reusable one or two times Long-term oxygen barrier Rust proof	Easily punctured Limited stacking Requires sealer Not rodent proof	LDS home storage centers Church Distribution Centers: www.store.lds.org Search online
Containers for Shorter-Term Storage of Dry Food						
Used PETE Bottle (1 gallon) With oxygen absorber	\$.08	7 lbs 28 lbs per cu ft	\$.01	No sealer required Reusable May be used as a canister Sufficient oxygen barrier for insect control	Requires washing Moderate puncture risk Limited stacking Not all are suitable	No limitations
New PETE Bottle (1 gallon) with gasketed, wide-mouth, metal lid and oxygen absorber	\$2.51	7 lbs 41 lbs per cu ft	\$.36	Same as listed for used PETE bottles Excellent canister Wide mouth allows scooping	Moderate puncture risk Limited stacking Lid may rust	Industrial Container- SLC Search online
Plastic Bucket (5 gallon) Fumigated with CO ₂ ***	\$5.00	35 lbs 26 lbs per cu ft	\$.14	Reusable Rodent proof No sealer required Rust proof	Limited stacking Not an oxygen barrier Not a long-term moisture barrier	Buckets and dry ice are readily available from a number of stores Yellow Pages under Plastics-Containers

*Package only products that are low in moisture (about 10% or less) and oil content. Refer to:

http://providentliving.org/pfw/multimedia/files/pfw/pdf/113951_DryProductsLongerTermStorage_Jun_08_pdf.pdf

Caution: Botulism poisoning may result if moist products are stored in barrier containers, such as: cans, foil pouches, or bottles, with oxygen absorber packets.

** 2010 costs estimated for #10 cans, foil pouches and new PETE bottles include containers, lids, oxygen absorber packets and boxes. Used PETE bottles are oxygen absorber cost only. Plastic bucket cost includes 5 oz. of dry ice per 5 gallon bucket. Costs for new PETE bottles and plastic buckets will vary somewhat, depending on supplier.

***Dry ice is frozen carbon dioxide and is used to fumigate stored granular dry foods such as wheat and beans in plastic buckets to help prevent insect infestation. Treatment methods that depend on the absence of oxygen to kill insects, such as oxygen absorbers and nitrogen gas flushing, are not effective in plastic buckets due to oxygen leakage.