

Cost Guidelines for Wildlife Water Developments (Revision Date 07-20-2011)

Listed below are cost estimates for components commonly used to rebuild, or construct new, wildlife water developments. These estimates are provided to assist you in developing budgets for Special Big Game License Tag funding proposals. *Please note that these are current estimates only and may be subject to change.* It is not a substitution for coordinating with Joe Currie (ext. 7867) or Ed Jahrke (ext. 7482) before committing funding or submitting project proposals.

Precipitation Collection Apron

24' x 72' apron	\$5,925.00
24' x 96' apron	\$7,580.00

Note: Estimate includes metal studs, channel, cold rolled, R-panel, screws, minimal support steel, concrete, and a fiberglass gutter. Elevated, larger, or wider aprons are more expensive.

Wildlife "Friendly" Livestock Enclosure Fence

Standard Pipersail Fence (150' x 150')	\$3,390.00
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Note: Estimate includes enough steel pipe and concrete for 600 linear feet

Plumbing

Pipe, Fittings, Misc.	\$1,000.00 – 3,000.00
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Note: actual cost of plumbing is highly variable, depending on distance, size, fittings, manifold complexity, and types of piping used. Piping is commonly needed between the apron and tank, tank to trough, collection point, and overflows.

Helicopter Time

Model L (206), Ferry	\$ 850.00 per Hr	(Bell 407), Ferry	\$ 950.00 per Hr
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Model L (206), Work	\$1,000.00 per Hr	(Bell 407), Work	\$1,500.00 per Hr
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Fuel Truck (per mile, round trip)	\$1.30
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Note: Ferry time is round trip, measured from the Grand Canyon Airport to the project site. Working time includes moving people, water, materials, and tools to and from the project site. Costs typically range from \$15,000.00 to \$20,000.00 or more, depending on the: amount of people, materials, equipment moved, elevation, weather and distance from the staging area to project site. There also exists a possibility of a fuel surcharge based on the price of aviation fuel in any excess use of fuel above 38 gallons per flight hour.

Troughs (Water tank and trough selection will depend on target species, needed capacity, crew and equipment access, digging conditions, topography, and average precipitation.

5'6" or 6' Fiberglass Walk-in	\$4,325.00
3'd x 4'w Fiberglass Standard Walk-in	\$3,294.00
3'd x 4'w Fiberglass "Elk" Walk-in	\$3,934.00

Note: Please add \$500.00 to troughs that are placed either partially or completely above ground for a protective block wall, rebar, and concrete grout.

Fiberglass Water Storage Ring Tanks

3'd x 16'dia. (4,509 gallons)	\$7,878.00
3'd x 18'dia. (5,777 gallons)	\$10,010.00
3'd x 20'dia. (7,046 gallons)	\$10,650.00
5'd x 16'dia. (7,575 gallons)	Price quote on request
5'd x 20'dia. (11,700 gallons)	Price quote on request

Note: Price does not include any materials needed to create a bedding pad, sub-liner, or retention walls. In rocky conditions, add \$700.00 per tank for a 2" foam pad.

Fiberglass Water Storage Xerxes Sausage Tanks

6'dia. x 27'l (5,000 gallon) for burying	Price quote on request
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Note: Xerxes tanks are only for sites with good ground travel access (NO FLYING). Prices include tax and delivery.

PVC Water Storage Pipe Tanks (Buried Only)

24"dia. x 100'l (aprox. 2,500 gallons)	\$3,250.00
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Note: The price is per 100' run, the number of runs utilized will depend upon desired storage capacity. Price includes one end cap, one outlet end cap, vent pipe, glue, primer, and lubricant. This system requires a 3' Fiberglass Walk-in Trough.