

Cost Guidelines for Wildlife Water Developments (Revision Date 06-29-2012)

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 Habitat Partnership Committee / Special Big Game License Tag funding proposals.

For Arizona Game and Fish Department staff:

Please coordinate with the Department's Development Branch (Joe Currie 623-236-7867 or Ed Jahrke 623-236-7482) before committing funding or submitting project proposals.

Precipitation Collection Apron

24' x 72' apron \$5,824.10

24' x 96' apron \$7,322.30

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 Piperail Fence (150' x 150') \$3,607.65

Note: Estimate includes enough steel pipe and concrete for 600 linear feet

Plumbing

Pipe, Fittings, Misc. \$1,000.00 – 3,000.00

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

Model L (206), Work \$1,000.00 per Hr (Bell 407), Work \$1,500.00 per Hr

Fuel Truck (per mile, round trip) \$1.30

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 currently out to Bid – last estimate was \$4,325.00

3'd x 4'w Fiberglass Standard Walk-in currently out to Bid – last estimate was \$3,294.00

3'd x 4'w Fiberglass "Elk" Walk-in currently out to Bid – last estimate was \$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)	currently out to Bid – last estimate was \$7,878.00
3'd x 18'dia. (5,777 gallons)	currently out to Bid – last estimate was \$10,010.00
3'd x 20'dia. (7,046 gallons)	currently out to Bid – last estimate was \$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 27'1 (5,000 gallon) for burying Price quote on request

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'long (aprox. 2,370 gallons)	\$ 3,322.30
24"dia. x 120'long (aprox. 2,840 gallons)	\$ 3,882.90

Note: The price is per 100' or 120' 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.