

TECHNICAL NOTES

U. S. DEPARTMENT OF AGRICULTURE

NEVADA

SOIL CONSERVATION SERVICE

TN - BIOLOGY - NV-18

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SARAN MONOFILAMENT FILTER-SOCK

Attached is information concerning the use of a Saran Monofilament Screen.



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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ARIZONA-NEVADA

ANIMAL GUIDE

SARAN MONOFILAMENT FILTER-SOCK

Where any kind of undesirable fish exists in the water supply to a fish-pond, some positive means is needed to keep wild fish, fish eggs, and related external parasites and diseases from entering the pond. A synthetic cloth-like material called "Saran," sewed to form a long sock-like bag, is the best (and only known) method to prevent the fish and eggs from entering the pond. Water flows freely through the fine meshes (52 meshes per inch). The longer the sock, the less often it will need to be disconnected and cleaned. The length of sock needed (probably 6 to 9 feet) depends on its diameter, and the volume of water it must accommodate. A 6-foot long, 6-inch diameter sock has successfully passed as much as 1200 gpm; however, a safer quantity for all conditions is 600 gpm (2 sq. in. per gal. per minute).

The sock is fitted to the discharge pipe and is slightly larger so it slips over the end of the pipe. A wide board or a shallow "V" trough usually is placed under the sock to support it horizontally. Water passes through the sock, falls onto the board and into the pond. Some aeration takes place in this manner. A heavy duck, canvas, or muslin collar, placed between the pipe and clamp, will save wear and tear of the saran, especially if a large volume of water (several hundred gallons per minute) is pumped through the filter. The collar is also worthwhile if water is piped to the pond by gravity. The socks have an average lifetime of 12 to 24 months.

This device has been tested successfully at Auburn University, the Arkansas Fish Farming Experiment Station, and by SCD cooperators in Arkansas. (A hole or snag in the cloth will, of course, allow small fish and eggs to enter the pond).

Specify "Saran Monofilament Screen, 144-004-99, 36-inch width." The cost is about \$4.30 a linear yard (fabricated to specifications at a slight extra cost) and may be obtained from National Filter Media Corporation, Western Division, P. O. Box 156, 691 North Third West, Salt Lake City, Utah 84110. (This is the only manufacturer we know of.)