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Report 247

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MEMORANDUM TO THE U. S. FOREST SERVICE RE PUMPS FOR JETTING STAKES IN STREAM IMPROVEMENT WORK IN MICHIGAN

One of the most important points in the installation of stream improvement devices is proper anchorage, to prevent damage by flood and ice action. This usually involves driving stakes. If this is done by hand, much time is consumed that could better be spent in construction of additional deflectors, dams and covers. Furthermore there is always a tendency, when driving is hard, to stop driving before the stake is down as far as it should be put. The boys when not watched will stop driving and cut off the stakes. Hand driving of stakes is inefficient, tends to lower the spirits of the men and lessens the permanency of the work. Power jetting is efficient, and greatly enhances the emcunt of work done and its permanence.

The four accompanying pictures illustrate the use of stakes in stream improvement devices. Additional pictures and descriptive matter are given in Bulletin No. 1 of the Institute for Fisheries Research, entitled "Methods for the Improvement of Michigan Trout Streams".

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