

WESTERN REGION TECHNICAL ATTACHMENT

NO. 87-50

December 15, 1987

COMMENT ON WALLS OF WATER -- DEADLY FENCES

The following comment from Chris Hill, DMIC at WSFO Boise, makes a good point about another way that a "wall of water" can be released and cause a flash flood problem.



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL WEATHER SERVICE

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TO:

Director, Western Region G 19/9

FROM:

his type D. Hill

SUBJ:

WRTA 87-48

I read with great interest the latest Western Region Technical Attachment, WRTA 87-48, which is a reproduction of a Southern Region Tech Attachment.

The article is very well written. It does an excellent job of sensitizing field forecasters to the problem and proposed a possible way which "walls of water" can develop. I am concerned, however, that the article's failure to mention the phenomenum of "debris-loading" may result in erroneous conclusions by some readers. This is especially true in light of the article's statement that "They (walls of water) can only occur with intense and copious rainfalls over a drainage".

Even light to moderate precipitation can carry considerable debris in a normally dry channel. In some cases the debris may produce a temporary natural dam. Subsequent run-off or precipitation above this obstruction can cause the dam to break and release a "wall of water".

A few years ago, such a debris dam, aided by the prior work of a few industrious beavers, developed near one of Idaho's state highways. assessment of the situation by county Disaster Services officials helped WSFO Boise issue a flash flood warning nearly one hour prior to the "dam failing and a "wall of water" washing across the highway.

