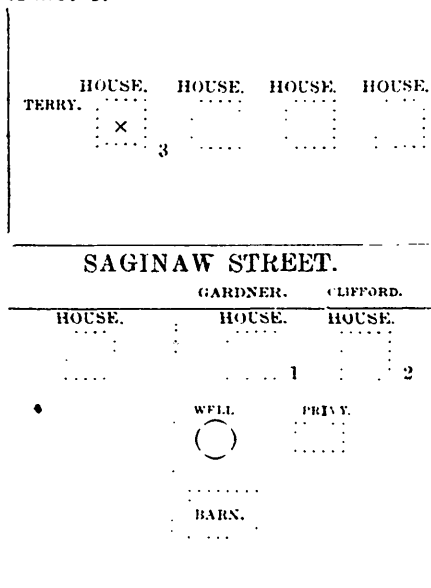


## HOW TYPHOID IS SPREAD.

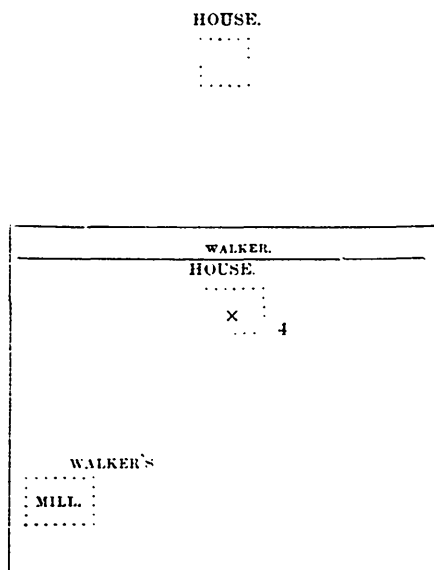
**D**R. H. McCall, of Lapeer, Mich., thus reports to the Michigan State Board of Health: Enclosed find a short report of typhoid cases occurring in the southern part of our town. Houses marked x are the ones in which cases occurred. Nos. 1, 2, 3 and 4, order of outbreak. Cases in 2, 3 and 4, traceable to water from well in rear of No. 1.



About September 1st, 1887, Myron Gardner, railroad employee, came from the south sick with fever to his father's home, No. 1 on diagram. His case was supposed to be malarial.

No care was exercised with stools in the way of disinfection, but they were thrown into privy vault in rear of house, and in close proximity to well. Wash water was thrown on the surface of the ground, which was very dry at the time. About the 7th or 8th of September, a copious rain fell, and soaked the sandy soil; and on the 14th, William Gardner and wife, father and mother of Myron, and E. D.

Gardner, a brother (who was a student at my office), and who boarded at home, were attacked with fever. On this day I got home from Washington, and found four of them down with a severe type of typhoid fever; and in two weeks Myron's wife and child were attacked. Also, a child across the street, at Terry's, who had used water from the Gardner well. About the



same time, three cases occurred in Clifford's house, south of Gardner's, who all used water from the Gardner well. None of the people from either of these houses were in the Gardner house. In the Walker house, still further south, one case has occurred, and I was at a loss to account for this case till a few days ago, when the young man said that at the mill where he was working they had used the Gardner water for a few days, owing to disarrangement of the pump at the mill. Two others of the mill-hands, Anderson and Lester, who used the same water, were attacked about the same time. Lester is now