

that quantity, and if the organic matter is apparently of animal origin it should not exceed one grain per gallon. The small amount of mineral salts it may contain should consist of a class of salts which do no injury to the human system such as alkaline carbonates, alkaline chlorides, chloride of sodium and chloride of potassium in less quantity, and possibly a small amount of carbonate of lime also. I would exclude all sewage throughout.

The third class would be what I would call suspicious water, which would be any water with much matter suspended. Such water as that would in all probability contain mineral matters in fine particles which are harmful, such as clay or organic matters very finely divided and not very easily separated by filtration, or if it contains any indication of nitrites, nitrates, ammonia, etc., showing that organic matters had passed into the water and had then been oxidized. Any indications of that kind I consider would bring the class under the head of suspicious water.

The fourth class would be impure water, which would include any turbid and bad smelling water, with suspended matters not easily separated by coarse filtration, also dissolved organic matters above two grains per gallon especially if of animal origin, or large indications of fatty acids, ammonia, etc., all of which indicate the passage of organic matters, animal in all probability, into such waters.

To sum up I would propose as a popular division:

1st—Pure and wholesome waters, such as are found at West Bountiful in our largest and best flowing artesian wells.

2nd—Usable waters, such as our City Creek and Emigration Canyon waters from which our city supply is largely taken.

3rd—Suspicious, waters as the Salt Lake and Jordan Canal and the Jordan River water above the sewer outlet.

4th—Impure waters, such as we find in the Jordan River below the sewer outlet. This latter meets all the indications of the 4th class, turbid and bad smelling, for this water, as we gathered a sample below the sewer outlet, showed a dark and turbid condition and smelled so badly that the operation of taking the water from the stream was anything but a pleasant one, and the appearance of the stream, at best a sluggish one, thickly studded through all its perceptible parts with large and small fecal masses so plentifully that in dipping for the specimens for analytical purposes we could not secure a dipper full without these masses being largely apparent in each part taken.

You state in your paper on the analysis of this water from the Jordan, that in your opinion a human being would be greatly exposing himself to take a drink of the Jordan water below the sewer outlet, and while this will be readily taken for granted, I may state here that the stench from this sewer-polluted river will endanger the health of all people living contiguous to it and not only these but the entire city will be made to suffer if this menace to life and health is not in some manner abated.

You further ask my opinion as to the effect it would have upon milk

taken from cows who constantly drink this sewer impregnated water. I will give my opinion in the following statement, and I make the statement without fear of successful contradiction: There is not a civilized community in the world that would knowingly permit such milk to be brought into the city limits, much less allow it to be sold daily for consumption among its community. To what extent this same milk may be diseased would belong to the field of the bacteriologist to determine, and the nature of the bacilli there found.

Very truly and fraternally yours,
SEYMOUR B. YOUNG.

DROWNED WHILE BATHING.

There was another mysterious drowning at Beck's Hot Springs about 5 o'clock last evening. The victim was George Shuster, a locomotive engineer and a recent arrival from Chicago, Ill. He has a mother and sister living at Danville, Ill.

Shuster met a man here named Charles Spence. Both men were members of the Brotherhood of Locomotive Engineers and friendship soon sprang up between them. Yesterday afternoon, about 3 o'clock, they went out to the Springs. They had been drinking, though it is said neither was intoxicated. In the pool the men became separated. Spence declares that the last he saw of Shuster he was teaching a lady how to swim. About an hour after he missed him, he became alarmed and at once instituted a search for him and found his body lying on the bottom of the pool dead. The coroner was notified and the remains brought to this city.

The spring employees say that Shuster was exceedingly reckless and that he dived frequently from the top railing around the upper tier of bath-rooms, though warned that such pastime was dangerous.

The general accepted theory is that he struck his head against the bottom while diving and was rendered unconscious thereby and straggled while in that condition. There were several letters on his person. Among others the following:

DANVILLE, Ill., Aug. 3, 1902.

Dear Brother—I received your welcome letter yesterday and was so glad to hear from you. We were nearly worried to death last week, and ma was sick, and you might know how I felt until Will came home Saturday. It was mean in him not to tell you about coming home, but he took homesick and picked up and came, and we were awful glad, too, that he did come, as we had heard that he had left Muskingum and didn't know where he was and couldn't hear anything from either of you. I guess that was most of ma's sickness, and now I don't want either one of you to wait so long again. I sent you two letters last week. It is a wonder you wouldn't answer some of them, but of course it has been so warm that a person didn't feel like writing, I know, but I couldn't help wondering.

I hope Will arrived safe and do hope he has a job now. George, if he gets a job and you both are working, stick to it and do good and then we will all be all right. Will has promised to do his part and I know you will do yours. I suppose Will has told you all about the trouble, and so it won't be necessary for me to write it. * * * I hope you will come home soon, as Will said that if he got work you

could take turn abouts in coming home and then we wouldn't be so lonesome. Now, George, you look after Will, as you know he hasn't been away from home any. I will close, hoping to hear from you both soon. Our love and a kiss for you both from ma and myself, and I remain ever, your affectionate sister,
ANNA.

Another bearing no date is as follows:

DANVILLE, Ill.

Dear brother—What in the name of seuse is the matter, that you don't write? You and Will, put together, will drive us crazy worrying ourselves to death about you. We have been looking for a letter from you from one mail to the next one. No letters come. Now, imagine how we feel. Ma is sick, and I am alone to content with all. You said that you were going to answer my letters right away, and you haven't done it. What is the matter? Now, George, I want you to answer right away. I got one letter from Will, and that is all. We heard, through Mrs. Swift, that he was awfully homesick. I must stop, so good-bye. From your sister,
ANNA.

Now, do let this be the last short letter I have to write to you. Answer right away.
ANNA.

I will look for an answer Saturday.

The body was brought to this city by Coroner Harris and the inquest set for this afternoon.

WESTERN NEWS ITEMS.

The police force organized by the Union Pacific at Cheyenne some months ago has put a stop entirely to the operations of box car thieves.

The honey crop is going to be short this fall, according to reports from Pysnon and other localities. It is claimed that the bees have hardly been able to store enough to keep themselves over winter.

A gang of petty thieves and burglars are at the present time "working" Boise. The fellows are said to be adepts at their trade, and thus far the municipal police have failed to capture any of them.

The outlook for an extension of a railroad to Richfield from Salina is reported to be excellent, as the railroad company and the Richfield people seem to agree well and the company have a large amount of steel rails at Thistle.

Jack Guy, manager of the cattle ranch of Sam's Commam, of Chicago, and one of his cow-boys, whose name was not learned, have been drowned in the Yellowstone while attempting to cross a herd of cattle near Custer station. Guy leaves a widow and four small children.

Says the Lehi Banner: Dr. Park has just finished a trip through Cache, Box Elder, Weber, Salt Lake, Utah, Morgan, Juab and Summit counties in the interest of the educational department. He has received encouragement all along the line and will receive exhibits from most of the schools.

Postmaster Butler of Laramie, Wyo., has received a communication from the Department, stating that the free postal delivery system will be inaugurated in that city the first of December, if the law is complied with in the numbering of streets and residences and in other respects.