













## METEOROLOGICAL.

Report for the Dominion Gov't by  
G. A. Blair, Esq.

JANUARY.

DATE.	Time.	Height of Bar.	Thermometer.	Maximum.	Minimum.	Direction.
Sun.	7 40 a.m.	30.1	21.8			
	3 40 p.m.	30.4	21.8			
	11 40 p.m.	30.4	21.8			
Mon.	7 40 a.m.	30.4	21.8			
	3 40 p.m.	30.4	21.8			
	11 40 p.m.	30.4	21.8			
Tue.	7 40 a.m.	30.4	21.8			
	3 40 p.m.	30.4	21.8			
	11 40 p.m.	30.4	21.8			
Wed.	7 40 a.m.	30.4	21.8			
	3 40 p.m.	30.4	21.8			
	11 40 p.m.	30.4	21.8			
Thurs.	7 40 a.m.	30.4	21.8			
	3 40 p.m.	30.4	21.8			
	11 40 p.m.	30.4	21.8			
Fri.	7 40 a.m.	30.4	21.8			
	3 40 p.m.	30.4	21.8			
	11 40 p.m.	30.4	21.8			
Sat.	7 40 a.m.	30.4	21.8			
	3 40 p.m.	30.4	21.8			
	11 40 p.m.	30.4	21.8			

The minus sign thus— at the left hand, denotes below zero, its absence, implies above zero.

The column for Maximum Thermometer shows the highest temperature for every day.

The column for Minimum Thermometer shows the lowest temperature for every day.

## Miscellaneous.

## How Fish Find their Own Rivers.

The long-held and only recently rejected theory, that the shoals of fishes moved in a vast mass along the coast, sending off detachments into the river as they passed its mouth, is to be attributed to John Gilpin and some other authors, who have written flowingly on this subject. The recent careful investigations of naturalists indicate that the anadromous fishes, those entering the rivers and bays fresh from the sea, do not have an extended range in the ocean, and that each river's colony remains, after returning, in the deep waters opposite their river.

The motive for the movement of these shoals of anadromous fishes, or rather how it is effected, has scarcely been explained. The life of fishes has always been a mystery. It is not a search for food, as they do not eat while in salt water; the opening of hundreds of stomachs will fail to find food present. It is an easy disposal of the question as to how each colony recognizes its native river to say that it is instinctive. So it is, also, when the butcher's horse recognizes the familiar gates; but we have some evidence as to what senses he uses. The fishes, probably prompted by functional disturbances, from the tumbly ovaries and spermaties, are incited to movement. The courses of the sea, unmarked, as they are, are within each colony's limit, their habitual pathways. An undulating capacity in the fish for finding its own river may be no more than that which guides the hermit crab to the shell of the nation. The latter goes to hide its sensitive body, with an apparent nervous trepidation at its unprotected condition. The former, with an uneasiness of body from the functional changes it is undergoing, is impelled to activity. The transmitted light of ascending the stream is, as it were, blended and alloyed with the substance of the nerves, and aroused by its condition, carries it, without conscious purpose, into the river of its progenitors and its own. The impulses of the fish are only in a slightly more complicated series than those of the crab. That it should be the instinct for a specific stream, established through inheritance of many generations, it is easier to understand than that it is a sort of memory of the place of its immature life, as the theory of fish-culture makes it, and as observation seems to sustain. In the waters of the Delaware, where there was no salmon originally, the young salmon placed in Backkill Creek returned after five years, and were taken, not only in the Delaware River, but the large number in the neighborhood of Backkill Creek. It is not essential that all the fishes should have this impelling influence, whatever it may be, as like gregarious mammals and birds they flock together following the leadership of whichever for the time takes it. This idea is suggested that the senses may be the guiding agent, that a fish goes nosing along the coast, or fishing the streams, until it recognizes its own. The convexity of the cornea must afford the fishes a very limited range of vision. The supposed distance of several miles of small fish and of large fish might allow dispose of the suggestion that these are employed. The following occurrence, however, would seem to decide the contrary. The Russian River, emptying into the Pacific, north of San Francisco, had its mouth entirely closed by the waves during a storm. The colour of salmon made their yearly migration from the deep waters towards the mouth of the river, and many of them raced through the surf and landed high and dry on the sand that wallied them out from their native river.

The migration of the salmon into some of the Pacific rivers is a frenzied advance over shoals, rapids, and cascades, for into the stream, and brooks, where they arrive battered and weary, to accomplish their reproductive labors, and drop back, the sport of the current, dead and dying, towards the sea.—Harper's Magazine.

## Diphtheria.

The discussion on this subject, which has been going on in our columns having created a lively interest, we are sure that anything that will throw additional light on so obscure a question will be welcome at the present time. The most impor-

tant contribution to diphtheria literature yet made is to be recently issued pamphlet on that subject by Dr. James M. Keer, of Pittsburgh, and which has attracted the attention of the whole country. It contains not only a statement of the morbid condition of the patient, but also a practical treatment and its effects, and the resulting theory of the disease. Dr. Keer rejects the theory that the disease is another form of septicæmia, and that it can be dosed for at random, and turned off in the human system. The doctor says the actual disease of diphtheria is blood poisoning; that this poison is not constantly taken into the system from outside sources, but is actually manufactured by the body from materials existing inside of it, with the addition of one element which is foreign to it, namely the germ. The doctor fortifies his theory by strong and very convincing arguments.

The operation of the disease, however, is easily traced. The doctor asserts that, whatever its nature—a floating germ in the air, or a tendency to the formation of a false membrane in the throat—in its early stages the disease is purely local. The membrane can be removed by local applications. For this a rather powerful solution of hydrochloric acid and glycerine is recommended. But the patient is threatened with another and far more dangerous malady. While this process is going on in the throat, a virulent poison is distilled in the neighborhood of a very small portion of which if it passes into the stomach produces acute gastritis and thus poisons the blood. The patient becomes much depressed, the action of the heart and brain is lowered, and the patient dies, not, as is supposed from septicæmia, but from the presence of virulent poison of the blood.

Dr. Keer's treatment is simple and it is asserted, efficacious. He detaches the false membrane by using the solution above named; puts into the stomach simple chemical preparations, containing magnesia, to combine and neutralize the diphtheritic poisons, and gently remove them through the proper channels. Meantime he supports the patient with nutritive, efficient food, and the crisis is over, when wine or, if necessary, whiskey and brandy are copiously used to aid in throwing off the clutch that threatens to choke the life out of the heart and brain.—Free Press.

MAX ADLER INDIGNANT.—In speaking of the Massachusetts law making it necessary that a "dozen eggs" be laid on one and one-half pounds, Max Adler says: "We approve of this. The hens have too long had their own way in this business of laying eggs, and they have constantly defrauded the public. It is high time this outrage was crushed, and we are glad that the Legislature of Massachusetts is going to do it. If free American citizens are to be imposed upon with impunity by debauched and corrupt chickens, the government, for which William Penn fought and John Hancock died, is a disgraceful failure. Hereafter, Massachusetts hens will either have to lay two ounces eggs or emigrate. The people will submit to their tyranny no longer. They have borne the yoke until it has become a snare, a snare, a snare. They denounce present prices for present eggs as eggrotten and hence, they demand a reform with the determination to draw up this chicken bill, and pullet through the Legislature."

A CURE FOR RINGBONES IN HORSES.—Fifty-one parts of tamarind, half a pint of turpentine, two ounces of castor oil, and one ounce of oil of sweet almond, are to be mixed in a pint of vinegar, and two ounces of oil of spike. Mix them well together and once in two days anoint the ringbone with a sponge full of this compound, and bathe it well in with a hot iron, or pan of coals, 12 or 15 minutes, as hot as the horse will stand it. This continues until the ringbone is sufficiently cast away, after which rub it over occasionally with motion till well healed. This cures in a few months. Warning will not be necessary in warm weather.

## Deferred Matter.

(Crowded out last week.)

## Sad Shipwreck and Loss of Life.

Our Yarmouth correspondent telegraphs the particulars of one of the most melancholy marine disasters that has occurred on that section of the Nova Scotia coast for many years. Three lives were lost after the vessel struck—that of the captain's wife, his daughter, a girl of only nine years, and the cook, all of whom perished from cold and exhaustion while lashed to the rail. The ill-fated vessel was the bark "Happy Home," 881 tons, of Hantsport, Capt. J. H. Smith, bound from Hamburg to St. John, N. B., in ballast. She struck on Trinity Ledge, about 7 miles distant from Yarmouth at 6 o'clock Monday evening, when the captain, thinking to clear the unbroken rock, ordered on more sail. This proved unsuccessful, and after sounding on the rocks for about two hours, and after having a hole ground in her bottom, the vessel capsized. As the vessel went over, the sea broke in the cabin, rushed upon deck. The cook made his escape out of the galley. The ladies had to be rescued by the crew. The captain's wife and daughter were rescued, but the girl, who was more than in a portion of their clothing, and in this condition they were lashed to the rail to face the billows of a night in mid-ocean, where sea breaking over them almost constantly. The cook, strange to say, was the first to succumb to the cold, dying in a few hours after the ship was wrecked. At midnight the captain's wife died, but her little daughter survived for two hours longer. It was a terrible night to the survivors, soundly on the rocks for about two hours, and after having a hole ground in her bottom, the vessel capsized. As the vessel went over, the sea broke in the cabin, rushed upon deck. The cook made his escape out of the galley. The ladies had to be rescued by the crew. 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## This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some minor discoloration and small dark spots, possibly due to age or handling. A vertical crease is visible near the center of the page. The right edge of the page is slightly irregular, and there is a dark, possibly black, strip along the bottom edge, which might be the binding or the edge of the book block.







which have been urged against this proposition. I am told that the standard is too low, that the standard of the Union Pacific Railway is a very unfavorable standard, and that we ought to have selected something higher. Well, it is very well to enter into the opportunity of making a contract, to make some stipulations, but when I have stated to the House the terms under which these gentlemen have undertaken to construct this road, I think you will agree with me that they were entitled to as favorable consideration as we could give them. I should like to know the position the Government of Canada would have been in who, after having offered \$84,000,000 in 1873 to the company of which Sir Hugh Allan was the president should ask the gentlemen who were undertaking to do the same work for \$78,000,000, to make the same terms.



