

HAIL FORMED BY TORNADOES.

The Result of Whirlwinds in the Atmosphere Far Above the Earth.

The fact that hail is formed at an indefinite but, in most cases, a great height above the surface of the earth, and that it is commonly precipitated when storms are raging, has prevented any direct observation of the process of freezing the vapor of the atmosphere into ice pellets or large masses, and what has been decided regarding the phenomena of hailstorms is almost wholly the work of theory and logic. Nevertheless some points are pretty clearly established.

In the first place, hail is the result, as a rule, of whirling or tornado-like storms. There may be no whirling on the surface of the earth but, according to the Cleveland Leader, it seems certain that in the higher regions of the air, where hail is formed, there is always an atmospheric disturbance resembling what is commonly called a cyclone when it sweeps the ground. A curious indication of the soundness of this conclusion was to be noted the other afternoon, when the storm which wrought such havoc with skylights had passed by. Out over the lake there was a great mass of cloud, very high and dark, which had the form of an oval race track of enormous proportions. It might easily have been fifty miles in length and two-thirds that distance in width. The formation of the cloud mass was noticeably such as might have resulted from the violent whirling around a moving center of the whole bulk of cloud vapor. The appearance of the sky was thoroughly in harmony with the accepted theory of the formation of hail. It is believed that the nucleus of a large hailstone is usually a bit of snow or snow-like ice, which falls from the snow strata, or level, above the rain level, into the latter, and is caught up with a cloud of raindrops and mists into the higher freezing regions of the atmosphere by the force of a whirlwind. The rain and water in the form of mist, which clings to the snow nucleus, or touches it as it is whirled swiftly up into the intense cold, freezes around it as clear and solid ice.

HOOKED A BEE MARTEN.

He Was Fishing for Trout, But Got a Bite of Another Sort.

"A strange thing happened to me when I was trout fishing last year up in northern New York," said Andrew Bishop, of Bridgeport, Conn., to a Washington Star man. "The fish were very wary, the stream was narrow, and the pools were but lightly bordered with bushes or cover of any kind, consequently when I would reach a promising looking spot I would get as far from the bank as possible, and at the same time be able to drop my fly over in the water. I had followed this plan with poor success, getting only one or two strikes in as many hours, when suddenly my line began to run out with a whirr. No trout had ever carried off a fly for me in such a way before, and I was nonplussed, but in a moment I saw that it was not a fish that was making my reel sing. Rising from the surface of the stream and flying above it was a bee marten which had gobbled my fly as I cast it over the bank, and he was making away with it. The bird soon had nearly all my line out, and not caring to lose it, I began to play him as I would play a fish. He struggled gamely. I tell you, but the hook had caught in his beak and held him firmly. At last, after a full hour of fighting, the bird fluttered helplessly to the ground, and I released him. You may think that's a fish story, but it's true."

HE TAUGHT HER A LESSON.

One Wife Will Not Again Trouble Anybody for a Spool of Silk.

One summer the wife of a Chicago man went to one of the resorts. At the end of a week she found that her black silk had given out, so she wrote her husband to "find a spool of it in the lower drawer of the bureau" and send it on. The dutiful husband spent three solid hours one hot day before he found the missing spool. Of course, it was not where his wife had said it was. After he had changed his saturated linen the man went down and sent the spool by registered mail to his wife. That night it struck him absurd that she should have put him to all that trouble, and he resolved to teach her a lesson. He thought that with a little effort she might have found some silk at the summer resort that would have answered her purpose. Well, he bought a gross of spool silk and put it in a drawer of his desk. The next time she left town she found a spool of black silk under her plate at the place where she took her first meal, and ever since then she has been followed by a spool of silk, even to Europe. Wherever she may stop she finds the spool at her plate or on her dresser. She has learned the lesson.

ECHOES OF THE FAIR.

The firemen of Walla Walla, Wash., have elected as "honorary members" the firemen who perished in the cold storage fire in Chicago.

Chicago street cars carried 94,000,000 persons during the six months of the existence of the world's fair. On October 9, Chicago day, they carried 702,000 people.

The temple which was such a conspicuous part of the Ceylon exhibit at the world's fair, was recently sold at auction for \$2,500. Its value is estimated at \$25,000. It will be fitted up as a summer cottage at Lake Geneva, Wis.

COLUMBIA RIVER SALMON.

How the Chinese Workmen Cut Up, Prepare and Can the Fish.

"On a recent trip to the Pacific coast," said Walter Stedman, a New York drummer, to the St. Louis Globe-Democrat. "I paid a visit to one of the large canning factories in Oregon, where the Columbia river salmon are packed and shipped all over the country. It was a novel sight to me, and one in which I took a great deal of interest. The fish are caught in nets and carried in boats to the factory, where they are thrown upon a stage and lie in heaps, a thousand or so in a pile. You can see huge fish among them that weigh from thirty to sixty pounds. One Chinaman will seize a salmon, and, with a dextrous blow of a big knife, sever its head with one stroke; another workman then grabs it and slashes off the fins and disembowels it. It is then thrown into a vat, where the blood soaks out, and I tell you they bleed like a stuck pig. After repeated washings the fish is cut into chunks, plunged into brine and stuffed into cans, the bones first being removed. The tops of the cans, which have a small hole in them, are then soldered on, and five or six hundred of them at a time are plunged into boiling water, where they remain until the heat has expelled all the air. Then the little airhole in the top of the lid is soldered up and the salmon is ready for market."

BRITISH "DRUMMERS."

Some Minor Differences from the American Commercial Traveler.

The commercial traveler in England is little different from his American brother, pursuing the same line of policy in "getting there" so far as securing trade is concerned, says Hardware. His invariable rule, however, is that his first price given to a local merchant is his last and only one. There is no going in the morning with an offer, and then in the afternoon with an extra inducement to make the trade. This being the invariable rule, it saves much labor and apprehension in the mind of the buyer that he has not done so well as he could have done with more diplomacy.

Everything is done for the comfort of the traveler, and at the hotels a special department called the commercial room is set apart for his exclusive use. In this room smoking is prohibited until nine p. m., a place being devoted to that purpose at other times. The traveler takes his meals in the commercial room, the dinner being a set affair in which all travelers in the house generally participate. The oldest man is at the head of the table, and is called the president; while at the foot is the youngest man, and he is termed vice president.

Wilhelm's Title.

The actual title of Wilhelm II. is "German Emperor," and not "Emperor of Germany." The German empire is a confederacy consisting of four kingdoms, five grand duchies, five duchies, seven principalities and four free cities. Within its own limits each state is a sovereign, except as to its army and its power of coining money and imposing duties, in which matters the imperial government controls, as well as in all international matters.

BRIEF, VALUABLE HINTS.

It is said that cucumber peels will kill cockroaches.

Wood ashes are excellent to clean discolored table ware.

To remove egg stains on silver, rub with salt on a damp cloth.

WATER standing in a room is a good disinfectant, as it absorbs all impurities.

BLEACHED sponges are the safest to use, as the bleaching process disinfects them.

POTATOES cooked in the skins contain more nutriment than if peeled before boiling.

STEEL knives may be cleansed by rubbing with a raw potato dipped in fine brickdust.

For nausea searh some rice, pour boiling water over it and drink as hot as possible.

LIBRARIES OF THE WORLD.

THERE are 1,700,000 volumes credited to the British museum, giving it second place.

FIRST on the list in point of size is the Bibliotheque Nationale in Paris, with 2,225,000 volumes.

The Berlin library and the Imperial library of Russia are about equal, each owning 1,000,000 volumes.

The library of congress contains 685,000 bound volumes and 230,000 pamphlets, being the fifth largest in the world.

The new national library building at Washington, to be completed in three years, will cost \$6,000,000. Forty miles of shelves of steel, costing \$90,000, will be used.

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Impairment of nerves, offensive breath.

It does these great cures because it physics from the blood, liver and tissues all the impurities, "ashes and debris" as it were,

Without weakening but all the while strengthening instead.

It causes the Liver to throw off its Bile.

It cleans out the entire alimentary canal, stomach and bowels alike, ridding them of all effete, offensive and slimy mucus, worms and other vermin,

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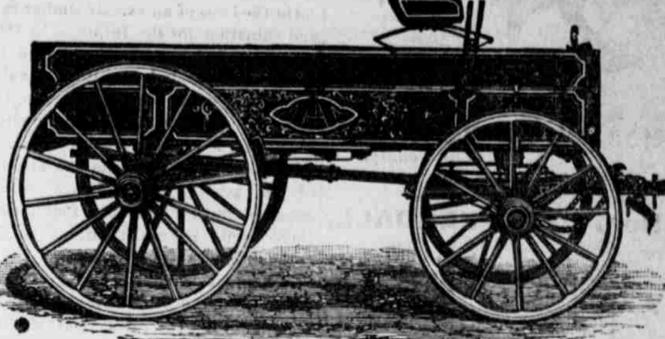
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