## Hail Storm.

The Sacramento, (Cal.) Bee of February 1st says:

Sergeant Barwick, in charge of the Signal Service Office at Sacramento, furnishes the following interesting facts and figures concerning the hail storm yesterday, and also corrects a popular, though erroneous, belief as to how hail is formed. The article will repay a careful perusal:

The hail storm of yesterday was very limited in breadth from west to east, but its length I am unable to say. The storm traveled rapidly from north-northwest to south-southeast. Rain began to fall at 3:20 p. m. and hail at 3:27 p. m., lasting about two minutes. It continued to rain slightly, and at 3:42 p. m. another and a heavier fall of hail occurred, lasting about two and ahalf or three minutes. The rain continued until 3:55 p. m. The total rainfall and melted hail was 0 15 inches. At 3:20 p. m., at the commencement of the squall, the thermometer stood at 51°, at 3:35 p. m. (after the first shower of hail) it fell to 47°, and at 3:45 p. m. (after the last fall of hail) it had dropped to 45°, a fall of 6° in twenty-five minutes; at 4 p. m, five minutes after the rain had ceased and the clouds passed over, the temperature rose to 47°, a rise of 2° in about ten minutes. I gathered a large ball of hail and placed the minimum thermometer in it, and found the temperature to be 31.9°. Hail is most common in the middle latitude.

In Europe hail occurs most frequently near the Atlantic coast, and diminishes in frequency as we proceed eastward. In France hail falls on an average fifteen times in a year; in Germany five times, and in Russia only three times. Hail falls in every part of the United States, but cases of very large hail occur but seldom. Hail falls occasionally, but not often, in the West India Islands.

Within the tropic hail is of rare occurrence at the level of the sea; but when it does occur, the stones are generally of a very great size. Hail storms usually travel rapidly over the country in straight bands of small breadth but considerable length.

The formation of hail is invariably attended by two distinct currents of air, and one of these displaces the other with great violence. The current of air which precedes the approach of a hail storm is warm and highly charged with moisture; that which succeeds the fall of hail has an icy chillness. The warm and humid air is displaced by the cold current, and is thus forced up to a great elevation above the earth, by which means its vapor is suddenly condensed. Upon the front of hail clouds their condensed vapor exists in the form of water, whose temperature is near 32°. In the interior of the hail cloud the vapor is precipitated in the form of snow, whose temperature is sometimes as low as 20°.

The hail which fell here yesterday probably was formed at or near the foothills. The temperature of the air must have been considerably higher there than here, and a lower barometer, caused by the upward tendency of the warm moist air from the southeast; this southwesterly wind when it reached the mountains was forced up to a considerable elevation, its moisture, condensed by the cold, formed itself into cumulus stratus clouds, their presence indicating a hot temperature at the earth's surface. The sudden change in the wind's direction from the southeast to north-northwest, and blowing quite fresh between 11 and 12 o'clock yesterday, was very probably the cause of the hail. The hot and moist southeast wind, and its expansion by heat, and also its coming in contact with the sides of the mountains, would produce an upward current; this cold north wind, by its specific gravity, would produce a downward current; the ascending warm and descending cold currents coming in contact produce a violent whirling motion, something that always occurs before hail can be formed. On the summit of the mountains, observations have shown that, on the front of the hail-cloud, there exists a violent whirling motion about a horizontal axis. This whirling motion causes the snow to collect in small balls, each of which form the nucleus of a hailstone. It was snowing in the mountains yesterday, the north wind brought the cold snow clouds over the valley and coming in contact with the warm, moist air that had been brought up the the valley by the southeast wind caused this violent whirling motion, and this whirling motion caused the snow balls to be forced into the warm current, where it received a layer of water, which is congealed by the cold of the snow ball, thus making the snowy center more compact and adding a shell of transparent ice. By means of this whirling motion, the hailstone covered with a stratum of uncongealed water is hurled into the snow cloud where it receives a layer of snow and again becomes thoroughly chilled. Thus, by this whirling motion, it is plunged alternately into the snow cloud and the water cloud, while each alternation furnishes a layer of transparent ice; the stone grows with immense rapidity, and in a few minutes becomes a large ball. The hailstones are sustained in the air by the violent upward motion caused by the cold current displacing the warm one. A sphere of ice two inches in diameter by falling through a tranquil atmosphere soon acquire a velocity of 90 feet per second. An upward current of air rising with a velocity of 90 feet per second would sustain a sphere of two inches in diameter, and would greatly reduce the velocity of still larger stones. The strong upward movement which always attends the formation of hail is sufficient to sustain hailstones of the largest size as long as they can be kept within the influence of this vortex. After escaping from the influence of this vortex, small stones would fall to the earth from an elevation of 5,000 feet in about two minutes, and very large stones in one minute. The hail that fell here yesterday was formed not over the city, but somewhere to the north of us, because hail clouds advance over the earth's surface with a velocity of 49 or more miles per hour, and the hailstones which fell here are those which were forming when the cloud was many miles to the northwest of this city.

### The Scriptural Seven.

On the seventh day God ended his work.

On the seventh month Noah's ark touched the ground.

In seven days a dove was sent.

Abraham pleaded seven times for Sodom.

Jacob mourned seven days for Joseph.

Jacob served seven years for Rachel.

And yet another seven years more.

Jacob was pursued a seven days' journey by Laban.

A plenty of seven years and a famine of seven years were foretold in Pharaoh's dream by seven fat and seven lean beast, and seven ears of full and seven ears of blasted corn.

On the the seventh day of the seventh month the children of Israel fasted seven days and remained seven days in their tents.

Every seventh year the law was read to the people.

In the destruction of Jericho seven persons bore seven trumpets seven days; on the seventh day they surrounded the walls seven times, and at the end of the seventh round the walls fell.

Solomon was seven years building the temple, and fasted seven days at the dedication.

In the tabernacle were seven lamps. The golden candlestick had seven branches.

Naaman washed seven times in the river Jordan.

Job's friends sat with him seven days and seven nights, and offered seven bullocks and seven rams for an atonement.

Our Saviour spoke seven times from the cross, on which he hung seven hours, and after his resurrection appeared seven times.

In the Revelations we read of seven churches, seven candlesticks, seven stars, seven, trumpets, seven plagues, seven thunders, seven vials, seven angels and a seven-headed monster.

PROVERBS AS THEY MIGHT BE.—It is easier to run in debt than to crawl out again.

Always judge a man by his depth instead of his length.

No man can afford to put on airs unless he can raise the wind.

The wheel of fortune runs slow, because its fellows are tired.

Few men are aware they possess a conscience until caught commiting a crime.

A half loaf it better than a whole loafer.

A man never swears vengeance on his neighbor's dog only when his own canine cannot lick him.

Many a man owes his success in life to the hisses of his enemies, instead of the plaudits of his friends.

A ruralist seated himself at a restaurant table, recently, and began upon the bill of fare. After keeping three waiters nearly an hour employed in bringing dishes to him, he called one of them to him, heaved a sigh, and whispers, as he spread the bill of fare before him, and pointed with his finger:

"Mister, I've et to thar, and"—moving his finger down to the bottom of the page—"ef it ain't agin the rule, I'd like to skip from thar to thar."

[Manchester, (Mich.) Enterprise.]

Messrs. Haeussler & Kingsly, Druggists, Manchester, say: We handle St. Jacobs Oil with abundant success, and it has given excellent satisfaction to our customers.


## Diphtheria.

A cold or sore throat may not seem to amount to much, and if promptly attended to can easily be cured, but neglect is often followed by diphtheria, for which no medicine has ever been discovered which acts so quickly and surely in such cases as PERRY DAVIS' PAIN KILLER. The prompt use of this invaluable remedy has saved thousands of lives.

PERRY DAVIS' PAIN KILLER is not an experiment. It has been before the public for forty years, and is most valued where it is best known.

A few extracts from voluntary testimonials read as follows:

PAIN KILLER has been my household remedy for colds for the past twenty-seven years, and have never found it to fail in effecting a cure.—L. S. CROCKER, Williamsville, N. Y.

For thirty years I have used PAIN KILLER, and found it a speedy and sure remedy for colds and sore throat.—BARTON SHEAR.

Have received immediate relief from colds and pain in the side by using PAIN KILLER an invaluable remedy.—Geo. S. FYFFERT, Dickinson, Pa.

I have just recovered from a very severe cold, which I have had for more than I could get relief until I tried your PAIN KILLER, which gave me immediate relief. I will never again be without it.—J. C. FORCE, Lowndes, Ga.

Have used PAIN KILLER in my family for forty years, and have never known it to fail.—RANSOM LEWIS, Wapakoneta, Ohio.

I began using PAIN KILLER in my family twenty-five years ago and have used it ever since, for we found it sufficient to take its place.—R. W. DYER, Dunnell, Oneida, N. Y.

For years I have used it, and prove it to the best results in cases of colds, etc., and consider it the best family medicine extant.—GEO. HOOPER, Washington, D. C.

I was suffering severely with bronchitis, and my friend was so hoarse I could scarcely understand any word. I was advised to try your PAIN KILLER, and after taking a few doses was completely cured.—T. WALTON, Milton, Va.

DR. WALTON writes from Coshocton: Your PAIN KILLER cures diphtheria and sore throat, as almost a specific, and I have used it in my family for years, as a family medicine, and have never been without it. It is a family medicine, and the only one I know of that deserves the name.

Pain Killer has been in my family for years, and I know it to be a good medicine. My son was taken violently sick with cramp colic, and could not obtain relief from any medicine I have ever used, I gave him a dose of your PAIN KILLER, and within one hour he was on his feet, and was able to go to his work. It is a good medicine, and I wish it could be known to the world, that it might be used by those who know not its value.

For Chills and Fever PAIN KILLER has no equal. Remove when everything else fails.

Delays are often dangerous. A bottle of PAIN KILLER in the house is a safeguard that no family should be without.

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Having leased the property known as Moore's Hotel, Leonardtown, Md., for two years, commencing the 1st of January, 1882, I respectfully inform the public that its management will now be under my exclusive direction and that no pains or expense will be spared to maintain the high reputation as a public resort it has obtained in the past and to increase it in the future. Thankful for the liberal patronage which has heretofore been extended to the House, I respectfully solicit a continuance and increase of the favors of the traveling public. All parties indebted to Mrs. M J. Moore on Hotel account are reminded that the accounts due from them to her have been placed in my hands for settlement and that no further indulgence can be allowed them.

HERBERT F. MOORE,
Leonardtown, Md.

Jan 12, 1882—tf.

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