

# Success Republican

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DORUS B. SNOW,  
Editor and Publisher.

## AGRICULTURAL.

**Lightning Rods.**—Are they a Protection from Disaster?

Prof. Benjamin Silliman of Yale College furnishes the following article under date of Aug. 20th to the New Haven Journal and Courier.

The striking of two hours by lightning in this town within a short time, both of which were provided with electrical conductors, has had the effect to unsettle the confidence of many people in the value of such means of protection from electrical discharges, while it has given boldness to the unbelief of others who have always been faithless.

Having examined both of these cases with care, permit me to state the facts and my conclusions briefly, for the satisfaction of many who, with reason, feel disquieted by the occurrence of such accidents.

The Stevens House, on the western margin of the town, was struck during a powerful thunder shower on the 23d of July. This house was provided with a rod (known as "Spratt's" rod) of iron, coupled secure with brass screwed couplings, and tipped with a copper point of adequate size. It was placed in the centre of the main house, on a capola or observatory, and led down on the west side of the house, where it entered the ground at a point near the foundation, and where the soil, protected from rain by the broad eaves of the building, was very dry. It appeared by an examination of the house, that the electricity parted company with the rod where the tin gutter offered a better road to the earth down the water leaders, the force of the discharge being evident on the south-east corner of the house, where the weather boarding was slightly damaged and the door casing splintered, but the main force of this portion of the current was spent in glowering up a mole-track in the ground where it was dispersed.

On the north-east angle of the house, a similar diversion of the main discharge happened with rather more damage to the weather boards, the electricity reaching the earth under the front piazza. But the most remarkable feature of this case, as illustrating forcibly the origin of the disaster in an inadequate connection of the main rod, was seen in the descriptive discharge which took place from the buried end of the rod to the lead pipe leading to the well. This discharge took place through about eight feet of comparatively dry sand, fusing a hole through the lead pipe where the electricity struck it. The damage done in the cellar was all secondary to the escape of a portion of the discharge from the pump-handle and floor-adjoining, rending the extreme tension which must have existed from induction at the instant of this terrible disruption through the earth to the lead pipe. The imperfection of the conductors, in virtue of this want of good earth connections, was also evident from the fusion of the copper tip of the rod—a thing which could happen only in consequence of extreme tension consequent on imperfect communication with the earth.

The unavoidable conclusion, in view of all the facts, was that the ground connection in this case was extremely imperfect, owing to the rod terminating in comparatively dry earth (dry sand.) A new rod had been erected before I saw the premises, and I was constrained, in justice to sound principles to pronounce the house safer with it than it had been with the old one, (which was well though it had been properly connected with the earth.) The remedy was easy and obvious, viz. to extend the lower end of the rod to the exterior or well, cutting a piece of the old rod on the bottom to insure its being always wet, and presenting an adequate surface, the whole being well coupled with metallic joints. The new rod was put up by the Escalator Company, whose agent readily admitted the correctness of my criticisms on his work and applied the proper remedy.

In the case of Mr. E. S. Minor's house, (9 Liberty St.) which was struck about seven o'clock on Sunday evening last, the facts are essentially similar. There was a substantial rod on the house, rising on the south side of the kitchen chimney and extending down to the earth on the west side of the house. It was securely connected by screwed joints, and was armed with a copper point of adequate size, etc. It was, however, secured to the chimney in a manner to involve danger by an iron staple driven through to the top, thus passing inwardly until it would key, as large as the rod, lock it in the brick work; the key and staple being coated with soap, which is about as good a conductor as we have beside the metals. The consequence was that the insulation of glass provided for the rod being wholly insufficient when wet, (as of course it always is in a rain storm) a part of the powerful discharge which struck this rod was diverted to the chimney, displaying some of the brick, and communicating by fire to the wood-work, with a leader about five feet distant, forced its way to the earth by the shortest path, of which, more presently. In making this diversion, the sudden expansion of the air in the chimney and in the space between the lathing and weather boarding, consequent to the transit discharge through that confined space, blew off the weather boarding on the gable end of the house and a part of the plastering in the room adjoining, splintering up the studs and scattering fragments in all directions to a considerable distance. When the electricity struck the iron leader, the nearest good conductor, it propagated itself in three places, smacking the wood work, and also at the other end where it discharged into the gutter on the beam.

As it rolled very powerfully at the time, the leader and gutter became consequently full of water, the electricity had the shortest and best path to the earth by the leader,

which terminated in a stone cover to a chimney. Here, however, was an arrest of motion, as the metallic tube only entered the stone. Owing to its universal law, however, of seeking always—the shortest and best path to the great common reservoir of electricity—the earth—it struck through the foundation wall and escaped by the pump pipe to the well. A sickle which lay on the shelf adjoining the pump, bears marks of the powerful electrical induction prevailing at the instant of transit, as a place on its edge is completely fused, a drop of the molten oxide of iron resulting from the fusion having fallen on and stained a broom handle over which the instrument lay. On withdrawing the tin leader from the stone, its lower edge also presents a like appearance of fusion where the discharge left it.

In this case also, as at the Stevens' house, the insufficiency of the ground connection is shown, not only by the facts mentioned, but also by the most remarkable fact that the portion of the shock which followed the rod to the earth found its mode of exit by penetrating also the ceiling wall, ripping up about ten feet of the surface of the floor, as if with a carpenter's plough plane, and tipping with the well pipe, by which also the other branch, directed by the water leader, had gone to the earth via the well. Singular to state, and most providentially, one of the ladies of the family, who was standing at the moment over the pump and under whose feet the discharge passed across the floor, was entirely uninjured, though rendered painfully conscious of the accident by a feeling of numbness, and the brilliant electrical light which pervaded the apartment. The copper point of the rod was also in this case fused, as in the Stevens' house.

It will be observed that there were neither gas nor water pipes in either of these houses. Had there been, no doubt, as has happened in many other cases, the electricity would have found its shortest way to the earth through these pipes; which of course present the best possible ground circuit. In the absence of these, and in any case, the real security of a building provided with a lightning conductor otherwise good, consists in carrying the rod to a water cistern, a well or a cesspool, or to permanent water in the earth when near surface, making sure that the rod goes to the bottom, and if possible is coiled on the bottom of these, so as in any case to remain always immersed in water. I am quite of opinion that a majority of rods put up by vendors of lightning rods have no adequate ground connection. Moist earth alone, even at some considerable depth is certainly not sufficient.—Mr. Minor's house is an evidence of that. The earth was quite moist where we opened it about the rod, to a depth of four feet. What then will secure a good ground connection in the absence of wells, cisterns, water-pipes, &c.? The answer is, in a good quantity of recently ignited charcoal, in which the end of the rod should be coiled. Common charcoal is not a conductor of electricity, or is an very imperfect. But the charcoal which has been heated to full redness, by being kindled in a heap, and is then quenched by water, or by throwing into the hole on top of the coaled end of the rod and buried up there, subsequently a sudden furor for mechaumau pipes, sized upon the people, and now there is hardly a smoker who does not possess a cherished mechaumau, the changing complexion of which is an object of greater solicitude to him than the infant's first tooth to a mother.

**Mechumau and Amber.**

Less than twenty years ago, mechaumau was practically unknown in this country. The specimens that existed were in the hands of scientific men, or in the cabinets of travelers, who had gathered knick-knacks from every place they visited. Subsequently a sudden furor for mechaumau pipes, sized upon the people, and now there is hardly a smoker who does not possess a cherished mechaumau, the changing complexion of which is an object of greater solicitude to him than the infant's first tooth to a mother.

**Mechumau—German for sea-foam—is a hydrous silicate of magnesia, the composition represented by the formula:**

Mg O, Si O<sub>3</sub>·2 H<sub>2</sub>O.

It is of soft, porous texture, very light, but of varying specific gravity, and has a greenish tint. It is found in various parts of South Europe, in veins of serpentine and in tertiary deposits. It occurs also in Asia Minor. It is easily cut, and when first removed from the bed is of a cheese-like consistency. Frequently the mechaumau is too porous for manufacture into pipes, therefore a process to which it is applied, it is capable of receiving a fine polish, and can be easily carved. The ornamentation of mechaumau pipes, in Europe, a distinct branch of business, or rather a distinct department of art; for there is no substance, nor article of use or ornament, which receives more artistic finish than the mechaumau pipe.

Pouillet demonstrated, however, long before (about thirty years ago) that the vapors of saline water are always positive-electric, thus conclusively settling the question that the vapors continually arising from the surface of the earth, of which three-fourths are saline, must be positive-electric, and, consequently, the earth's surface negative. It is true that Faraday has made some counter experiments, to disprove Pouillet's theory, but when we fairly compare and repeat the series of experiments of both these eminent savants on this subject, we are compelled to adopt Pouillet's ideas.

The tips or points of lightning rods ought to be gilded by electricity (electroplated with gold,) the ordinary mode of gilding by gold leaf, but with gilders sizes, not being worth a pin, as it all washes off in few weeks.

It is difficult to put this to say; that in every case which I have had an opportunity of examining of bolts struck by lightning on which electrical conductors have been erected, there is ample evidence that the accident has been due to the want of a good earth conductor. Entire confidence may be repose in the security afforded by proper electrical defences, but if they are not put up with more care and more respect to established natural law than is often the case, they may become rather sources of danger than of safety. The outcry of some ill-informed persons against the use of the rod, looked it in the brick work; the key and staple being coated with soap, which is about as good a conductor as we have beside the metals.

The consequence was that the insulation of glass provided for the rod being wholly insufficient when wet, (as of course it always is in a rain storm) a part of the powerful discharge which struck this rod was diverted to the chimney, displaying some of the brick, and communicating by fire to the wood-work, with a leader about five feet distant, forced its way to the earth by the shortest path, of which, more presently. In making this diversion,

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(Applause.) The mighty triumph of Hammonton and its citizens before the City of Nassau, contemporaneous with the wonderful march of Sherman with his hosts to the sea, perhaps in the military eye might have been designated as the turning point of the Rebellion, from which it went down and disappeared. But to the eye of the astute, to the eye of this political philosopher, an event which occurred six weeks previous, on the 6th day of November, by which the millions of the American people declared, without appeal, that the United States should live and should not die, gave power and effect to the military achievement. It is the re-election of Abraham Lincoln (immense and continued applause,) accompanied by the unmistakable demonstration that the war should go on, and never cease as long as there was an armed Rebel in the land. That crushed the spirit of the Rebellion; it was that which inspired speedy success to our arms, because under our blessed form of Government strength does not lie in bristling bayonets and thundering cannon; but there is a power behind back above and around that effects much more than the will of the frequent expressed at the ballot-box. That is far more effective. Another contest we are entered upon. Already its results are foreseen, and so far as results have been accomplished, the facts are most apparent. It is well for us to inquire, as we pass on, what is the exact issue now before the American people? what is it that we are called upon to decide? what the question is, whether it be settled as we go to the ballot-box again? For if it be a mere question of the dancing figures—light woods or paper objects placed on a brass plate, connected with the earth, are lifted up, thrown down, projected indifferently around, or piled up, by the attraction of an isolated brass plate, charged with electricity, and placed at a short distance above them.

If we now imagine the surface of the water at the mouth of the Susquehanna River, or rather the Chesapeake Bay, to represent the lower plate, a layer of clouds charged with electricity, the upper isolated plate, and the timber of the bridge in all directions. The rule of the bridge is illustrated, on an immensely large scale, what we see on a small scale in the lecture room experiments about electric attraction and repulsion. Almost everybody knows the experiment of the dancing figures—light woods or paper objects placed on a brass plate, connected with the earth, are lifted up, thrown down, projected indifferently around, or piled up, by the attraction of an isolated brass plate, charged with electricity, and placed at a short distance above them.

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# HAMMONTON!

A  
Rare Opportunity to Secure  
A HOME  
To All Wanting Farms.

In the great Hammonton Fruit Settlement, the best inducements are offered to all wanting farms in the most delightful and healthy climate, with a good productive soil, being among the best in the garden State of New Jersey; only thirty miles from Philadelphia on the Camden and Atlantic Railroad, and but few miles to the New York Railroad, and but few miles to the New York Railroad. These lands are sold to the actual settlers at low prices and easy terms, in five, ten, twenty acres and upwards to suit. The title perfect; warranties deeds, clear of all incumbrance, given when all the purchase money is paid.

## The Soil

is a fine sandy and clay loam, suitable for all grains and grasses, and is pronounced the finest quality for gardening and fruit raising. It is a marine deposit, with a marly substance mixed all through it in a very commuted form, and in the exact condition to support plants with proper farming; it is very productive and profitable, worked, and warm and early. The lay of the land is slightly undulating, and is called level; it is free from stones or rocks.

It is the best fruit soil in the Union. Pears, Peaches, Apples, Quinces, Cherries, Blackberries, Raspberries, Grapes of all kinds, and all other fruits are raised here in immense quantities, and they are sought after by the dealers and command the best prices in the markets.

Hammonton is already celebrated for its fine fruits and wine. From two hundred to five hundred dollars is cleared, free from expense, per acre, in the fine fruit culture. Sweet Potatoes, Melons, and all the finer Vegetables delight in this soil; this branch of farming pays much better than grain raising, and is much easier work.

## The Market

is unsurpassed; direct communication twice a day to Philadelphia, New York, and Atlantic City. The Railroad Company leaves cars here to be filled with fruit every day in the season; they are filled in the afternoon, and the same night or next morning by daylight are in the market, where the highest cash prices are obtained, without any other trouble to the producer than delivering the produce to the car. None of the land now offered is over one and a half miles from the Railroad.

## The Climate

is mild and delightful the winters being short and open, out-door work can be carried on nearly all winter, whilst the summer is no warmer than in the north. Persons wanting a change for health will be satisfied here—the mildness of the climate is soon beneficially felt by delicate persons and those suffering from Dyspepsia, Pulmonary affections, or General Debility, as hundreds here will testify. This section has long been known for its health, and during the summer months tens of thousands flock for health. No Miasma, Chills and Favers in this section.

## The Water

is pure and soft, of the best quality. It abounds in streams and is found dredging from ten to thirty feet. Wells are cheaply made here, as there is no rock to go through. We have the best stores in the country, where goods are sold as cheap as they are in Philadelphia or New York—Good schools with competent teachers.—Clergymen of all denominations reside here, some of them in charge of congregations, others cultivating the fruits; also a number of retired physicians. The Methodists, Presbyterians, Baptists, Universalists, Spiritualists have their services regularly.— Mills convenient.

Reliable practical nurseymen who furnish all kinds of trees, plants, and vines at the lowest prices.

The population of the settlement is large and rapidly increasing; it is composed of the best classes from New England, the Middle, and Western States,—intelligent, industrious and moral. The buildings are neat and handsome, and some of them fine. All materials for building, improving, &c., at hand; also reliable mechanics who will give satisfaction. Every convenience to be had that can be found at any other place. Persons owning property here obtain tickets of the Railroad company to and from the city at a discount of twenty-five percent on the regular fare.

The lands have been examined by some of the best agriculturists and fruit growers in the country, who pronounce them the best in the U. S. for fruit growing. Mr. Salom Robinson, the agricultural editor of the New York Tribune; Dr. L. P. Trimble, the Statistician; Mr. John G. Bergen, member of the American Institute of New York; and others, reported that they never saw a finer growth of fruit, grain, and grass, than they saw here, and recommend this settlement to persons desiring to till the soil, for pleasure or profit.

These lands are being rapidly sold, and from the rapid and extensive improvements property will certainly increase in value. Inquiry for R. J. BYRNE, the founder of the settlement, who will show the lands free of expense. For further information inquire or address,

**R. J. BYRNES,  
Hammonton, N. J.**

All letters unanswered.

Several very desirable improved fruit farms for sale.

# ELWOOD!

NEW JERSEY LANDS  
FOR SALE.  
IN TRACTS TO SUIT PURCHASERS.  
21,000 Acres  
Of Superior Soil  
IN ONE BODY.

on Camden & Atlantic Rail Road,  
IN THE BEST LOCATION.

IN SOUTH JERSEY.  
LANDS SHOWN FREE OF EXPENSE.

Apply to  
**E. WRIGHT.**  
Elwood,  
Atlantic Co., N. J.

Also many thousand acres of Cranberry lands. Circulars or other information cheerfully forwarded.

**CONSUMPTIVES,**  
READ WHAT DR. SCHEFCK IS DOING.

DR. J. H. SCHENK.

DEAR SIR:—I feel it a duty to write to you, and to all who are suffering under the disease known as Consumption and Liver Complaint, to let them know what great benefits I have received from your Pulmonic Syrup and Seaweed Tonic in so short a time. By the blessing of God it was cured in less than six weeks.

Dr. Schenk will now make his statement to you all:—About eighteen months ago I was attacked by a severe cough, and it settled on my lungs; I could not retain anything I ate, and suffered with evening fevers and night sweats. I was very much reduced. The whites of my eyes were very yellow; likewise my skin my appetite all gone, and unable to digest food.

I was very spiritless, and had such violent spells of coughing when I laid down at night, and when I arose in the morning that they would last one or two hours.

I then would be nearly exhausted, and was entirely unable to lie on my left side; I cannot describe my wretched suffering as I would wish to do. Every organ in my body was diseased or damaged. Such was my situation at this time, and I was confined to my bed for three months. I was confined to my bed for three months, and was not able to sit up. I had no medical attendance while the whole of the disease.

My cough was so very bad that it hacked me very much. I at this time raised a large quantity of thick, yellow, offensive matter, sometimes with blood, and it was generally accompanied by nausea, and a feverish and thick coated tongue. At the time of coughing so loudly I would have sharp, shooting pain in my chest, which was almost constant, and increased all through my whole chest; had much inward fever, pain in my back and under my shoulder blades and in the small of my back, and at times so severe that it would throw me into spasms. Now my physician gave me up to die. Others had, and the best of them, but they could do nothing for me, and at that time I was nothing but skin and bones. I was then in the weakest part of New Jersey. In January, 1863, I left for Elwood, and in April last we came to New York, and I was so reduced that I could only walk a little with my husband's help. After I had been here a short time the salt water breeze made me feel much better for a time and then I had again to call a physician for aid. We had four of the best physicians of New York on the disease of the lungs, and doctors of all kinds, but of no avail. They said I was past cure, and that there were no ways to cure me. But at this time I was on my feet about the house, not able to do much of anything. In November last I grew worse, and the consumption diarrhoea set in and lasted about eight weeks. We had tried all and everything that I could grasp at like a dying person for my disease—consumption and liver complaint—but of no avail.

In January, 1864, I was brought down again on my feet, and was not expected to live the night. My husband stayed at my side, and other friends, and they all gave me up to die. At this time every one who saw me did not think I would ever leave my bed a living woman. The first night I was attacked with spasms, and was dragged most of the time. A friend, Mrs. Harris, came to our side, and had a few drops of Dr. Schenk's Tonic, and after taking it would not let me leave my bed. I asked my husband to go and see him for me. At this time I had given up all hopes of ever getting well again, and made my peace with God, to be ready whenever he called for me.

On the 25th of January, 1865, my husband called on Dr. Schenk, Bond Street, New York, to call on him, and my wife requested him to speak to him in full and say what he did, and I consulted with the respiration. When he was about to go I asked him if he could cure me? His reply was: "I cannot tell, both lungs are diseased, and the bronchial tubes are affected on both sides." And yet he seemed to think there were lungs enough left to cure if the disease could be stopped. He said in order to do this, he would have to get me to recover, to be in the air, first, to carry off the bad air, and then, with antiseptics, he hoped to check it, which he did, but the constant coughing, night-sweats and diarrhea had prostrated me so that he was afraid my vital powers were too much prostrated over to rally, and yet he seemed to think if I could live to get enough Pulmonic Syrup through my system to cause excretion there were lungs enough left for me to recover. He wished me to try the new Seaweed Tonic and Seaweed Tonic, and say if it would do me any good. The first week it would do no harm, but it did me no good. The first week it seemed to give me strength, so that on Sunday after I sat up in bed and ate hearty for a sick woman but the next week I lost all hope and wished my husband not to give me any more medicine. The doctor had warned him of this, and when the medicine was清淡ing out systemically it made them sit up in bed, and when I got up I was not able to stand on my feet again, and now I feel the benefit of it. For after eight days I began to gain my strength, and with the exception of a cold that put me back some, I have been gaining strength of body, my cough is going away, and all my pains are gone; no surfeits of the body, my bowels are regular, and my breath is sweet, and I thank God that I am now going about, and not only regaining as well as I did, but also having a good appetite and eat well at night my cough does not trouble me in getting up or lying down. I would have any one who is afflicted with consumption or liver complaint, that Dr. Schenk is no humbug. You can rely on what he says. Delay not; it is dangerous to trifl with these diseases. If you would be cured, go at once and own who is to know the facts of the railroad company to and from the city at a discount of twenty-five percent on the regular fare.

The lands have been examined by some of the best agriculturists and fruit growers in the country, who pronounce them the best in the U. S. for fruit growing. Mr. Salom

Robinson, the agricultural editor of the New York Tribune; Dr. L. P. Trimble, the Statistician; Mr. John G. Bergen, member of the American Institute of New York; and others, reported that they never saw a finer growth of fruit, grain, and grass, than they saw here, and recommend this settlement to persons desiring to till the soil, for pleasure or profit.

These lands are being rapidly sold, and from the rapid and extensive improvements property will certainly increase in value.

Inquiry for R. J. BYRNE, the founder of the settlement, who will show the lands free of expense. For further information inquire or address,

**R. J. BYRNES,  
Hammonton, N. J.**

All letters unanswered.

Several very desirable improved fruit farms for sale.

# MASON & HAMILIN'S CABINET ORGANS.

Also, Guitars, Banjos, Harmonicas, &c.

PIANOS.

MELODIUMS of all descriptions.

Prices greatly reduced at the Warehouses of

J. E. GOULD,  
Cor. of Seventh and Chestnut sts.  
Philadelphia.

JOHN DOWLING, D. D.,  
Pastor of Bedford St. Baptist Church, N. Y.  
Nov. 23, 1865.

Dr. Schenk will be professionally at his principal office, 15 South Broad Street, Philadelphia, Pennsylvania, on the 1st of November, from 12 A. M. until 4 P. M., No. 32 Broad Street, New York, every Tuesday from 9 to 3; No. 38 Nassau street, Boston, Mass., every Wednesday, from 9 to 12, and every Friday at 108 Baltimore street, Baltimore, Md. All advice free, but for a thorough examination of the lungs with his Rxpectrometer, the charge is three dollars.

The Pulmonic Syrup and Seaweed Tonic each \$10 per bottle, or \$7.50 per half dozen. Remakes \$1.50 per bottle.

W. M. A. ELVINS,  
Hammonton, N. J.

# Peruvian Guano Substitute.

BAUGH'S  
RAW BONE  
SUPER-PHOSPHATE  
OF LIME.



After more than twelve years of constant use, this highly concentrated manure has attained a wide spread reputation as a

SUBSTITUTE FOR

**PERUVIAN GUANO,**

Being found active in its operations, and of great durability. It does not exhaust the soil, but on the contrary, permanently improves it. The increasing sales annually, abundantly prove the high popular value of this manure, and establish the fact of its being relied upon by a wide circle of agriculturists to supply all wants in the direction of manures for every crop.

**BAUGH & SONS,**

Sole Manufacturers and Proprietors,  
Office, No. 20 So. Delaware Av.,  
PHILADELPHIA.

**BAUGH BROTHERS & CO.,**

General Wholesale Agents,  
No. 181 Pearl St., cor. of Cedar,  
NEW YORK.

Price \$56 per 200 lbs. Cash

20 South Delaware Avenue.  
2x21-y.

Philadelphia.

**EXAMINE THE BRAND.**

200 lbs.  
IMPROVED  
SUPER  
PHOSPHATE OF LIME  
MANUFACTURED  
ONLY  
BY THEM, AT THEIR  
AGRICULTURAL WORKS,  
PHILADELPHIA.

FOR SALE BY DEALERS GENERALLY

Throughout the Country.

(Received according to Act of Congress, in the year 1860, by Allen & Sons, in the Office of the Register of the United States, and for the Eastern District of Philadelphia.)

\$55 per 2000 lbs.

NO ADVANCE IN PRICE.

and we continue to furnish it."

200 lbs. of 2000 lbs.

ALLEN & NEEDLES,  
Sole Manufacturers.

4x21-y.

MR. MARY F. FAIRFAX.

We, the undersigned, residents of New York, are acquainted with Mrs. Fairfax, and know her to be true. We also know that she is a member of the A. S. C. in the City of New York, and others, who have reason to believe that she is a member of the railroad company to and from the city at a discount of twenty-five percent on the regular fare.

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Several very desirable improved fruit farms for sale.

# Gaillard.

Camden and Atlantic R. R.  
FOR AND AFTER.

Saturday, September 18, 1868.

DOWN TRAIN.

Mail. Freight. Goods.

LEAVES. A. M. A. M. P. M.

Vine Street. 8:30 9:15 3:15

Cooper's Point. 7:45 8:30 4:40

Bordentown. 8:34 9:15 4:41

Ashland. 8:35 9:16 4:42

White Horse. 8:36 9:16 4:43

Long-a-Crossing. 8:37 9:17 4:44

Junction. 8:38 9:17 4:45

Waterford. 8:39 9:17 4:46

Spring Garden. 8:40 9:17 4:47

Winetka. 8:41 9:17 4:48

Woodbury. 8:42 9:17 4:49

Elwood. 8:43 9:17 4:50

Woodstock. 8:44 9:17 4:51

Woodbury. 8:45 9:17 4:52

UP TRAINS.

Accom. Freight. Goods.