

FARM GARDEN

ENGLISH POULTRY METHODS.

Portable Houses and Systematic Killing of Poultry Where Many Are Kept. English methods of managing poultry differ somewhat from our own. An excellent English authority, writing to The Country Gentleman, tells that in the great majority of cases it is found better to have a number of small houses rather than a large one. The expense is perhaps a little more at first, but not when it is taken into account that with portable houses feeding is unnecessary, and disposing with that more than compensates for the greater cost. The advantages of keeping flocks of, say, fifty hens in one house, and placing these houses in different parts of the farm, must be obvious. For some unexplainable reason fowls thrive and lay better in small numbers than when a great many of them are massed together.

The writer referred to says: "I have never yet been able to find a reasonable explanation for this, but the fact is one that cannot be gainsaid. With a house

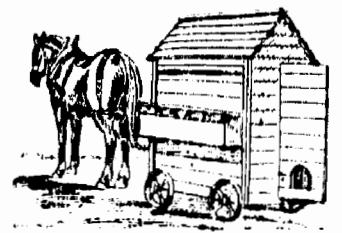


FIG. 1—PORTABLE POULTRY HOUSE.

such as I have mentioned placed in the corner of a field fowls can be kept quite easily, and as it can be moved quickly there is no danger whatever from disease arising from foulness of the ground. I send you herewith illustrations showing some of the portable houses used in this country, and from them you will see what we have found best.

"Some time ago I was at a farm in the north of England, where 2,000 laying hens were kept. These were placed out in flocks of fifty, as suggested, and as the land upon which they were running was also occupied by dairy cattle there was no danger of the ground being contaminated. Around each house was placed a low fence to keep the cattle from rubbing themselves thereon. In this way so large a number of fowls as named are kept in perfect health, and I may say that in places where poultry are reared extensively this is the better plan.

"Of course there is a little more trouble involved, in the direction of feeding, cleaning collection of eggs and general oversight than if the hens were all placed in one house, but I am sure the additional trouble is compensated for by the fact that an attendant can better supervise a small number of fowls, seeing that all are healthy, than if there were several hundreds together. At any rate the additional labor is not found to be any drawback to the method I am advocating.

"One of the great dangers when keeping poultry in large numbers is caused either by great waste of food or starvation of the fowls, and as either is certain to bring evil in its train it is most important that careful attention be paid to these questions. I have been in poultry establishments where the amount of food lying about would have kept all the poultry for several days, and in others where every grain was almost begrimed, and the fowls had certainly at some seasons of the year scarcely enough to eat."

There is a further matter to which Mr. Beale calls attention—viz., the importance of killing off birds regularly. Concerning a place in Sussex, where his method is systematically carried out, he writes: "Here some hundreds of laying hens are kept, and in their second year, so soon as they show the slightest signs of ceasing to lay, they are fed up for a week and killed. The result is that they sell for fair prices, because they are still in good condition, and they make room for young stock."



FIG. 2—PORTABLE POULTRY HOUSE.

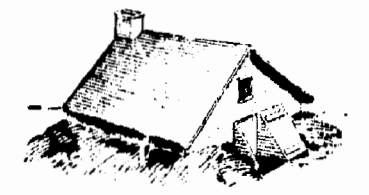
which will be ready to lay later on in the year. In poultry keeping, as in all other departments of industrialism, the great point is to prevent leakage by such methods as to which I have referred. If you feed a fowl three months without any return it is so much against what it has done before or will do again."

Advice to Market Gardeners.
In a lecture on market gardening, Professor Bailey tersely remarks: "Marketing is one-half of success; therefore study your market thoroughly; learn the conditions and demands. Failure is often brought about by ignoring such small differences as the color, size or flavor of certain varieties that please the public taste, or for some other reason, or for no reason, except because it is fashionable, it becomes popular. Boston wants a branched celery, while New York requires a tall, straight stalk; some markets desire red onions, while others prefer white ones. Find your market before the crop is ready. Send the produce to market in the neatest and most attractive condition. Be honest. Secure the same customer every year, so as to establish a reputation. In each city have one reliable dealer to whom you can send your stock."

SWEET POTATOES.

Storing and Keeping—A New Jersey Potato House Illustrated.

In Virginia and farther south sweet potatoes are usually kept over winter in pits covered with earth. In states farther north better protection than is afforded by these earth covered pits is required, and therefore, where large crops of sweet potatoes are to be stored, cellars and sweet potato houses are used for the purpose.



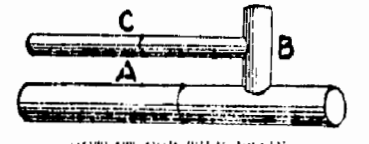
A NEW JERSEY POTATO HOUSE.

The illustration here reproduced from the Philadelphia Farm Journal shows a style of sweet potato house in common use in New Jersey. A dry, well-drained spot is selected, and a cellar about three feet deep is excavated and a wall of rough stone about six feet high is built. On this a roof is put and the earth banked up to the top of the wall. The roof and ends should be double to keep out the cold. It is better also to have double doors, as indicated in cut. The house should front three-fourths and the chimney be put at the cold end. The size of the house will of course depend on the crop to be stored.

Bins are made to hold 20, 30 or 100 barrels. Rough boards and a layer of straw are generally placed in the bottom and against the wall before putting the potatoes in the bin. A small cast iron cylinder coal burning stove is the kind in common use for heating. The fire should be started a few days in advance of storing to dry out the house, and a little be kept burning for a week afterward to dry off the potatoes, as they invariably go through a sweating process. During this time ventilation should be freely given. Afterward just enough fire should be maintained to keep the temperature between 60 and 70 degs. Sweet potatoes to keep well must be stored before heavy frosts kill the vines.

The Draining.
In the draining a good main or outlet is essential to success. Here is an illustration from Ohio Farmer, with a description by one who has tested its efficacy. He says:

"Use either five or six inch tile, according to the amount of water to be carried. Lay the main with the natural flow, if practicable, and a foot deeper than the lateral, so as to make the connection on



OUTLET FOR TILE DRAIN.

top of the main, giving a free flow. Make the connections perfect, so there will be no earth working through. The accompanying cut shows the arrangement—A is the main, B the connecting arm and C the lateral. A flat stone will close the top of the arm all right. I place laterals about two feet deep, more or less, according to soil, etc., and place them three to seven rods apart, and, if possible, across the natural flow, thereby cutting off surface water more quickly.

In the Poultry Yard.

In reply to the oft repeated query, "How to obtain winter eggs?" the agricultural editor of the New York World says: "Secure pullets hatched in February and March. Keep them in a warm place. Feed with plenty of animal food, green stuff, sound grain, not too much soft food and do not change their surroundings." The Poultry World advises as follows: "Put the pullets that are to produce the eggs during the winter season in the quarters you intend them to occupy, so that they will become accustomed to the buildings and surroundings before winter. Give them the best of care and feed so that by Nov. 1 they will be in condition to commence laying in dead earnest. Give them free range if possible, and they will pick up the kind of food their systems require much easier than you could supply it for them. The numerous insects that make their appearance this month will prove a luxury for the birds, and will be very beneficial. Give them a good grain diet also each morning and evening; feed oats, wheat, buckwheat and a little corn, varied occasionally by a mash composed of boiled vegetables mixed with bran or shorts."

As the cold weather approaches all growing flocks ought to be killed. It will not pay to feed chickens that do not promise to make well marked pullets and cockerels. The sooner such are disposed of the better the profit will be, says The Farmers' Journal, which gives this advice: "It is well to keep all growing chickens on unlimited range as long as snow is off the ground, and even the quarters at night should be roomy and well supplied with pure air. A tight shed open only to the south is about as good a place for chickens as we know of, but care should be taken to prevent the depredations of skunks and other vermin."

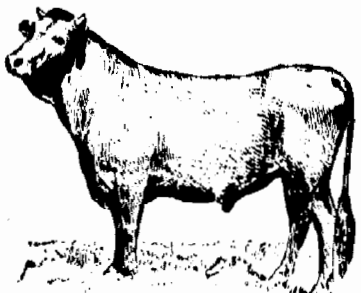
News and Notes.
Colonel James Wood, of Mount Kisco, N. Y., ex-president of the New York State Agricultural Society, will serve as director of the agricultural exhibit of the state of New York at the coming Columbian exposition at Chicago. The British board of agriculture has issued an order to the effect that in future sheep from the United States will be allowed to land without being subject to slaughter or to quarantine. Discouraging accounts are made of the results of the harvest in Great Britain. Dr. Styles, of the bureau of animal industry, describes a new cattle parasite which lives in the follicles of the roots of the hair, and produces disease in the skin of the animal affected. We are rapidly coming to the conclusion that bees need more ventilation in the cellar than many suppose.

THE DAIRY

BUTTER BLOOD.

A Jersey Sire from One of the "First Families."

Three of the great Jersey butter making families of cattle are St. Lambert, Stoke-Pogis and Matilda. The illustration



BUTTER BLOOD.

shows a perfect type of a bull of the Matilda blood.

If you want to get points as to what constitutes a first class American Jersey sire, here they are. Note them.

Aerating Milk.

Professor Henry H. Wing, of the agricultural experiment station of Cornell University, has been making a series of experiments in aerating milk. He tried the various known methods and the patented aerators that have been put on the market. He also compared the cream raising powers of aerated milk and that diluted with hot and cold water. As to cream raising, the sum of the trials is that the best results are to be had from plunging undiluted milk in ice water at 40 degs. When milk is put into water as cold as this there is no advantage to be got from diluting it, and you get the good skim milk besides. The milk was allowed to stand twenty-four hours before skimming. Then he tried aerated and non-aerated milk to see which kept sweet the longer. On this point the professor says:

"The difference in favor of the aeration is considerably less than we had expected to obtain; but there were several conditions that are likely to have made this difference less than it would be under ordinary circumstances. In the first place, the air in which the milk was set was comparatively uniform in temperature and free from contaminating odors; in the second place, only a short time elapsed after milking and aeration, so there was little chance for contamination in the stable. Then again all the surroundings of the cattle were kept as neat and clean as could well be done. We believe that under the conditions that affect most dairies the good effects of aeration would be more pronounced than those we obtained. But we are inclined to regard as extravagant the statement recently made in a leading agricultural paper that 'aerated milk will keep at least three times as long as non-aerated.'"

The question is often raised whether milk that is intended for butter making may be aerated and the cream afterward successfully separated by the gravity process. Four trials were made in which the milk that had been aerated was set in Cooley cans at 40 degs. side by side with milk of the same lot that had not been aerated. In all cases the temperature of the creamer was from 40 to 44, and the milk set twenty-four hours. The results were as follows:

Aerated, av. per cent. of fat in skim milk, 23. Not aerated, av. per cent. of fat in skim milk, 21. It will be seen that while there was some loss in the efficiency of the creaming of the aerated milk it was not very great. What is remarkable is that the aerated milk suffered no fall of temperature after it was placed in the creamer, and was more efficiently creamed than the diluted milk set at 40 degs. This seems to be in direct contradiction to the theory which supposes that the fall of temperature after the milk is set is one of the chief factors in complete creaming by the deep setting gravity process.

Dairy and Creamery.

A correspondent of Hoard's Dairyman finds that salt is a good thing on ensilage when there is not too much of it. To every foot of ensilage he sprinkles salt about as thickly as he would sow grain in a field at three bushels to the acre.

A butter dairyman with a herd of Jerseys in New York the other day tested the milk of ten of his cows just as they came into the stable to be milked, and found it averaged 4.72 butter fat. The richest sample ran 5.8, the poorest 4. The richest milk as well as the poorest, it may be observed, came from cows of the St. Lambert family. Blood does not always tell, but it does nearly always, often enough to bet on anyhow.

A bull may be bred to two generations of cows, mother and daughter; then he should be changed, as involving it should not go further than this.

It will be interesting to know who gets some of that \$1,250 offered by the American Jersey Cattle club in cash prizes for the best fifty essays on Jersey cattle. The essays were all to be in by Sept. 1, and the result will ere long be known.

Whatever breed of dairy cattle fails to be sufficiently advertised and improved in this country, it is certain that the Jerseys will not get left as long as the American Jersey Cattle club is alive.

In localities where it is too cold for Indian corn to ripen it may be grown for ensilage with great profit. A good way to build up a good city milk trade is to give your customers nothing but good milk. Hundreds of city people have concluded they did not like milk and it did not agree with them simply because they were imposed on by the skimmed and adulterated milk furnished by dishonest salesmen. A human being could support life on milk alone and get fat besides if the milk was pure and of rich quality.

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Both Courses Together, \$40

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PRATT'S HORSE AND CATTLE FOOD.

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Cake and Pastry,

Cream Rolls, Napoleons

—AND—

All kinds of Fancy Cakes

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All goods delivered free of cost.

Mince Pies a Specialty.

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DO YOU WANT A WATCH?

You answer, yes? But add that you have no money to spare for one.

Just here we can be of great service to you, and, if you (man or woman) will send us your full name and address, we will put you in the way of getting one at a slight effort and cost to yourself.

E. C. ALLEN & CO., Augusta, Me.

Ripans Tablets cure nausea.

These Timely Topics.

DO YOU WANT A SITUATION? DO YOU WANT HELP? HAVE YOU A HOUSE TO LET? DO YOU WANT ROOMS? BOARDERS ARE PLENTY! NOISE IN BOARDING HOUSES. IF YOU HAVE ANYTHING YOU CAN EXCHANGE IT OR SELL IT.

HERE'S YOUR CHANCE.

THE LOWEST ADVERTISING RATES FOR SATISFACTORY RESULTS. Advertise in the STANDARD AT ONE CENT A WORD.

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Healthful Happiness

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There is no exercise so healthful, so joyful, with so much of Nature's exhilaration—so sensible, so fascinating—so popular—Cycling is the monarch of sports—the Columbia, the king of strengthful lightness—the accumulation of bicycled everything—All about Columbias free on application to

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9—Suppressed or Painful Periods, etc.	25
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11—Croup, Laryngitis, Hoarseness, etc.	25
12—Salt Rheum, Erysipelas, Eruptions, etc.	25
13—Rheumatism, Rheumatic Pains, etc.	25
14—Stomachic, Chills, Fever and Ague, etc.	25
15—Piles, Hemorrhoids, etc.	25
16—Catarrh, Influenza, Cold in the Head, etc.	25
17—Whooping Cough, etc.	25
18—Kidney Diseases, etc.	25
19—Nervous Debility, etc.	1.00
20—Primary Weakness, Wasting Habit, etc.	25

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THE UNION COUNTY STANDARD
WESTFIELD, NEW JERSEY.

WESTFIELD, N. J., OCT. 22, 1892.

ALFRED E. PEARSON, Editor.
J. I. COLLINS, Printing Department.
C. E. PEARSON, Business Manager.



Pen Points.

Rough on rats—cats.

LOOKING glasses—spectacles.

A SPARKING pair—mamma's slip-pers.

When a man's hair begins to fall out he considers it a wigged slance.

How modest the demand when the lover asks for a girl's hand when it is the entire girl that he wants.

EACH addition to the family multiplies the cares, divides the attention and subtracts the income.

MARRIAGE is a lottery but has the peculiarity that those who draw blanks don't keep the fact to themselves.

If a woman's face is her fortune some of them show their poverty dreadfully.

It seems queer that those who apply for passes are invariably abundantly able to buy tickets.

The man who suggests a better plan is a genius; any lunkhead can find fault.

The trolley railroad? Yes! And the sooner the better.

Westfield has the required 3,000 population. Now let us bring on the sewer, and be quick about it.

Another presentation of that excellent Patience performance, please! Do you hear? Everybody says so; we roar for it, and rah for it.

That was a Red letter day for the Nation; yesterday was! Patriotism got a boom that thrilled and filled the land, and impressions were made that will be repeated and multiplied for Ages.

S. W. Reese is delivering speeches throughout the State, for Harrison, Reid and Protection, under the management of the Republican State Committee. It is needless to add that he keeps his audience wide-awake. Of the many admirable qualities of "Sam" Reese one that commands great respect is his intense earnestness and honesty.

The Thanksgiving Number of the STANDARD promises to be a most interesting special number. We have considerable copy for it already in hand and several novel and attractive literary and illustrative features are in course of preparation. We can safely promise the handsomest and most interesting Thanksgiving issue of the STANDARD, ever published. The extra large circulation of the Thanksgiving number makes it an especially desirable medium for advertisers with the holidays at hand.

There is no measure on the face of the earth by which to comprehend or determine the results set in motion for time and eternity by some very good women of Westfield in the establishment of the Children's Country Home which is being so nobly supported by our people at large. A report published elsewhere concerning the status of this most worthy institution is the basis of widespread congratulation and gratitude. The Board of Managers, after their good work of the summer, find themselves with \$500 in cash to their credit and ready to reopen the Home next season, in the meantime putting their plant, so to speak, in better form. It occurs to us to say that the sight of feeble-minded children, even the cripples, and almost sick, enjoying a vacation in the country provided by the Westfield Children's Country Home the past summer has been no more touching and instructive than the sight of little children of happy Westfield families saving their pennies, doing little chores for pay and holding their funds in order to be able to contribute to the happiness of less fortunate children, thus learning to think and do for others, not only as an emotion only, but from principle, and with discriminating intelligence. It was Tiny Tim, who breathed the big prayer, "God Bless us All."

TOWN NOTES.

A dancing school was opened in Etta Hall Tuesday afternoon.

Miss Lillian Hall of Syracuse, N. Y. is visiting relatives in town.

A. E. Pearson and A. C. Fitch spent last Sunday in Washington, D. C.

A local union of the W. C. T. U. met in Etta Hall Thursday afternoon.

The North New Jersey Baptists met at Bloomfield, Wednesday and Thursday.

L. V. Clark has had a new board walk in front of his property on Clark street occupied by Mr. Irwin.

Mrs. George Terry, of Brooklyn, spent last Sunday with Mrs. Anderson of South avenue.

Miss Lillian Moffett, of Camden, N. J. is visiting her cousin, Miss Grace C. Moffett.

An enthusiastic Democrat has lost a Cleveland flag in front of his residence on Central avenue.

Over 1,000 lbs. of crushed stone has been used in building new stone roads in Westfield during the past year.

Rev. W. W. Moffett, of Camden, N. J. was in town last Saturday. He preached in Whitehouse, N. J. on Sunday.

Rev. N. W. Caldwell was one of the principal speakers at the Union County Sunday School convention last week.

The extension of Westfield avenue to Broad street is finished and the gutter boxes have been built.

Among other positions held by the late Town Clerk Charles R. Clark was that of postmaster.

Both political headquarters are open every night now and sidewalk arguments are in order.

A campaign document entitled "The Tariff is a Tax," has been issued by Theodore McGarrath.

Mr. and Mrs. Charles Forster spent the past week in Vermont, N. Y. They attended at the wedding ceremonies of Mrs. Forster's cousin.

The Plainfield Press says, Mrs. M. H. Kayvan of Westfield advertises to cure insomnia and nervous diseases by sympathetic massage.

The members of Hook and Ladder Co. No. 1 were invited to attend the parade of the Bound Brook firemen yesterday but were unable to do so.

No new roads will be built until next year. During the past twelve months the township committee has built two miles of new stone road.

The Sentinel of Freedom, of New York is now a six page, seven column paper. A new press and new dyes make an attractive appearance.

A Democratic meeting will be held to-night at Etta Hall. George L. Record, of Jersey City, is announced as speaker of the evening.

A new contract for the building of foundations has been given out at Garwood. It is for the machinery room of the American Steel Wheel Company.

The culvert across North avenue from the corner in front of the STANDARD building and under the Fire Department buildings is being put into thorough repair.

This is remarkable weather for this time of the year. Last year the temperature was down in the neighborhood of 40 while for several days past the extremes have been from 51.3 degrees to 68.3 degrees.

S. W. Reese is working hard in the interests of the Republican party. He is kept busy making speeches in all parts of the country. To night he will speak at Plainfield under the direction of the State committee.

In the parade of the original thirteen states at Chicago on Thursday thirteen young women, descendants of our Revolutionary fathers, New Jersey was represented by Mrs. Emily C. Stevens, of Orange.

W. Toney complained to the township committee of a number of dogs on Elm street that frightened his horse. The town clerk promised to notify the owners to abate the nuisance. The board of health will also be notified.

A case of malicious destruction of property has been reported. A house on Jerusalem road owned by Mrs. Doris of this place had been vacant but two weeks when a gang of miscreants riddled it with shot and broke every door and window. There is no way of capturing the miscreants.

Prof. A. R. Walsh of Brooklyn has opened dancing classes at Etta Hall. The classes meet every Tuesday afternoon. Prof. Walsh has a large class at Cranford and will no doubt meet with success in Westfield as he now has fifteen pupils here. Parents are invited to attend any of the classes.

Mr. Campbell of Summit, is figuring on plans for the new hotel which is to be erected on the mountain near Bald Hill Road. Dr. Seward Webb, J. D. Pletcher and other wealthy men are interested in the scheme by which that section is to be transformed into a fashionable resort.

The statistic given at the Union County Sunday School convention last week give number of schools reporting 36; representing officers 549; teachers 1,591; scholars 15,239. The benevolent contribution aggregated \$7,264.41, and the money raised for the State and county work, \$10,098, only 32 schools contributed.

The practice of riding on coal trains is a dangerous one. It is no unusual sight, that of half a dozen boys clinging to the brake rods. Bayonne turns out the largest number of ride stealers along the line of the Central railroad. Many of them think it not out of the ordinary to make trips to Pennsylvania and back.

Chaplain Robert Edwards of the naval veterans of the United States attended the M. E. church last Sunday and heard the eloquent discourse delivered by Rev. Jacob Frohman, pastor of the Hebrew Church, of New York City. He was recognized by several members of the congregation and invited to take part in the evening service. He related some of his experiences and sang some of his own compositions. Mr. Edwards is a cousin of the late John Lind, famous as the "Swedish nightingale." His lecture "Around the World in two hours" whenever given is sure to be interesting. It abounds in shipwrecks, battle scenes and torpedoes in which he has participated in his years of service in both the English and American navies.

FUN FROM OUR OWN FACTORY.

Bill Peaseley says that the man who will invent a self tying shoe string will be several knots ahead in the race for fame.

Bill Peaseley stuck his head in our sunken door the other day and called out "I thought of an awful bright thing for the STRAITS the other day but I've forgotten it."

Bill Peaseley says some of the Columbus portraits look like Cleveland and some look a little like Harrison but he doesn't know yet which one really discovered America.

Bill Peaseley discovered a number of small boys smoking glass Thursday afternoon. They wanted to see the eclipse. He says that is better than the cigarette habit.

Bill Peaseley says he went to see the Columbus parade in New York and that there were a good many people there and the show was not a patch to the Westfield Firemen's parade.

Bill Peaseley believes in light food. He has invented a new match for the use of soldiers and explorers. When not needed to light a fire the head of the match can be eaten. It tastes like a cabbage, he says.

The township committee will meet Monday night.

The annual teachers institute will be held Nov. 18th and 19th.

C. T. Bingham occupied the pulpit at William Grove Chapel last Sunday.

The Court of Appeals will meet Nov. 29th to hear objections of tax payers.

From all accounts wedding bells will ring at a lively rate during the next two weeks.

The firemen's parade in Plainfield attracted a number of spectators from Westfield.

By special order from the Pope, Catholics were released from abstinence yesterday.

Dr. Lewis took Columbus for his subject at the Congregational church last Sunday night.

A number of Westfield people went to Elizabeth last night to witness the Columbus celebration in that city.

The Central's pay car passed up the road on Wednesday to pay the men on the upper end of the line.

Rev. Dr. Miner of the Baptist Home assisted Rev. J. G. Dyer at the services in the Baptist church last Sunday.

The unusual dryness of the past two months has caused several wells in this town to become low. Rain is wanted.

The marriage of Miss Marie Morton DeMott to Frederick W. Crouch is announced to take place next Wednesday.

Water connection with the new W. A. C. house from the Broad street main has been made by means of a surface pipe.

Rev. N. W. Caldwell will deliver an address at the Presbyterian church, Oct. 24th. His subject is an interesting one "Across the Continent."

See what the United Tea & Coffee Growers Association, of Plainfield have to say in their large display ad. in another column of the STANDARD.

The appointment of a town clerk to fill the unexpired term of Charles R. Clark deceased will take place next Monday night.

Rev. J. G. Dyer will preach on "The Providence of God" at the Baptist church to-morrow morning and of "The Heart Demanded" in the evening.

W. A. Woodruff has put in a bill to the Board of Freeholders amounting to \$26.63 for damages to horse and buggy by the breaking of a bridge in Fairwood township.

Lawn-tennis is completed from Mountain avenue to Kimball avenue. This road was built under the direction of Township Committee man C. E. Conant and is well built.

The township committee has ordered these bills paid. To Craig A. Marsh for one-half year's service as township attorney \$30. W. Huffman for stone \$65.18 and S. D. Winter for work done \$10.21.

Summit avenue and Academy Place were built in telford style by contract. Beebe Hill on Dudley avenue has been built in the same way under direction of Township Committee man Charles F. Conant. The work is as well done and money has been saved to the township.

Martin Pickell and George Chamberlin, two employees of C. A. Smith & Co's mill attended the parade and unveiling of the Washington monument which was presented to the city of Trenton, N. J. by the Jr. O. U. A. M. of the State on Tuesday.

The two gentlemen on the two public crossings here of late have something to look forward to. They have a day off every two weeks which makes them feel glad to know that there are at least two days in each month when they can do as they please.

Rev. C. S. Ryan now pastor of the First M. E. Church, of Bayonne, who has been appointed presiding elder for the Elizabeth district succeeded Rev. A. Price deceased, was pastor of the M. E. church in Westfield seventeen years ago.

The Republicans have arranged to have two good speakers at the meeting to-night. Colonel Charles W. Fuller, estate superintendent of schools, a prominent lawyer and one of the best platform speakers in the State and Richard T. Greener, a colored orator will speak on the issues of the campaign.

One of the teachers in the Prospect street school has had a great deal of trouble with one of her pupils this week. The boy is named Donaldson and has spent some time at the State Reform School. On Monday while the teacher was punishing him for misbehavior he seized her by the throat and attempted to choke her. The teacher is muscular and determined woman. She succeeded in breaking his hold. On Wednesday she had another encounter with the same boy.

The township committee met Monday night in the town rooms. President, Addison S. Clark, N. B. Gardner and C. F. Conant present. Township attorney Craig A. Marsh reported that under the law the township committee could appoint a town clerk to fill the unexpired term of Charles R. Clark deceased. Mr. Conant has been acting as clerk for several weeks past.

—A. E. Pearson will assist Rev. Mr. Caldwell in his lecture Thursday evening.

—Addison S. Clark asks the STANDARD to express his thanks to the firemen for their energy at the fire Thursday night.

—Rev. J. B. Judd, of Cranford, will address the missionary meeting at Lo-cust Grove chapel Sunday afternoon at 3.15.

—Miss Mary Joseph aged 87 years, an aunt of Joseph Crosby died this morning at the residence of B. J. Crosby on Westfield avenue.

—Willard Union will meet next Tuesday afternoon at the residence of Mrs. Joseph Clark on Central avenue.

—Rev. Mr. Caldwell was re-elected President of the Union County Sunday School association at Rahway, last week.

—The Fire Department will have prepared a set of resolutions on the death of the late secretary, Charles R. Clark. The resolutions will be handsomely gotten up and framed.

—Judge Collins returned Thursday evening from 14 exploring tour in Northern Canada. He says that it is owing to E. E. Gorman, the guide who accompanied him, that Westfield is not another voter short.

—Letters remaining uncollected for at P. O. Westfield, N. J. Persons calling for the same please mention, advertised, Mrs. Margaret, Mrs. Marie Lorraine, Miss A. Creghan, Miss Mary Brown, Mary Henri, James Parks, B. S. Alder, Edmond Ninger.

L. M. Whitaker, P. M.

—George E. Scheffer has lost an English setter dog which strayed from the house of Wilson Fiske, of Plainfield. The dog has white body, and the head is nearly all black. It was seen near Ash Brook October 9th. Mr. Scheffer offers a reward for her return.

—The two young men who painted the high poles of the Long Distance Telephone Co. through town a few days ago, were watched by a number of people who were astonished to see how easily and quickly the work could be done. The company expects to put up another crossarm on each pole with more wires attached.

—Mr. Ellis, who occupied the Cottrell Cottage on the mountain during the summer has decided to "cast his lot" with us, and is having a mansion erected on the "Fairwood Plateau" adjoining Quality Hill. The lot fronts on Forest avenue and is one of the finest on the tract. It is rumored another house will be located on same street soon, fronting the "Triangle" recently completed by Mr. Young. There is room left for a few more of the same sort.

V. P. S. C. E. Notes.

The society connected with the Presbyterian church, of Roselle, held its second anniversary at the church, Monday evening. The speaker of the evening was the Rev. Mr. Dyott.

The Bethlehem society holds its prayer meetings on Thursday evenings. This was the night of the meeting of the Local Union, but instead of abandoning the meeting for that week, it was held on Friday evening instead.

The Roselle Baptist Christian Endeavorers have taken up the C. E. Chautauqua reading course and arranged a schedule of the readings for each month of the year, that all may read systematically. The required books are published in cheap form, as well as in cloth binding, so that the expense is very small.

The meeting of the local C. E. Union at Cranford, on Thursday night was a very pleasant and profitable one. Miss Herron, president of the Cranford society welcomed the various societies. J. L. Clayton who presided, read from scripture and Rev. Mr. Greene led in prayer. The secretary read a paper on "The Chautauqua C. E. Reading Circle" showing how easily and profitably this could be introduced in our societies, and urging the good literature committees to take up the work. Rev. Horace R. Goodfield, of Roselle, made an address on one of the principle Christian Endeavor themes, "Denominational Loyalty," which was thoroughly appreciated by the audience.

The Branch Mills society was received into the Union and reported 21 members already enrolled.

All of the nine societies gave very encouraging reports of work done.

The officers elected for the ensuing year are president, Mr. Chas. T. Bingham; vice president, Mr. J. Warren Brown; secretary, J. E. Folsom; treasurer, Miss S. E. Allen.

The Cranford C. E. Quartette sang. Mr. James Rodgers led the congregational singing. After the benediction, nearly all present adjourned to the chapel and spent a half hour with the social committee.

All the visiting societies declare that no one can entertain like the Cranford Endeavorers.

THE CHILDREN'S HOME.

It Closes With \$500 in The Treasury For Next Year's Work.

The active work of the Children's Home for this season was brought to a close last week. The Board of Managers, not feeling prepared at this time to continue the work into the Winter months, after the return to the city of the last party of children the home was cleaned and everything put away in thorough order until another Spring.

The Home has entertained this season nearly sixty children many of whom were sick and miserable when they came. All were greatly improved by their stay here and seemed to appreciate the kindness and care given to them. The managers are satisfied that much good has been accomplished this year and believe that with the experience gained much more can be accomplished in the years to come.

The Board of Managers appreciates the generous support given this beautiful charity and believing it wise to consider this a permanent undertaking, has decided to put aside as a "Permanent Fund" the sum of five hundred dollars. As this is nearly all the money remaining in the treasury the treasurer requests the prompt payment of all dues and pledges given for the season that funds may be in hand to pay the rent of the house for the unexpired lease.

The thanks of the managers are hereby extended to all who have in any way, helped to carry on the work and at the annual meeting, which will be made as public as possible, a full account will be given of all that has been done in connection with the "Children's Country Home."

THINGS SAID BY OUR NEIGHBORS.

Warren Republican: The cranberry crop is being gathered. It is time for all prudent turkeys to take warning and hie to the woods.

Metuchen Inquirer: A new pipe line from the Pennsylvania oil regions to some convenient point on Staten Island Sound, is one of the things you may see in the near future.

The Beacon: The still baiting blue fish record was smashed on Tuesday when Samuel Worth and partner came ashore with over one thousand pounds in their boat.

Asbury Park Journal: A big flock of wild ducks passed southward on Tuesday a few miles off shore. They flew low and seemed in an awful hurry to get back before the polls closed.

Coast Echo: The girl of the period is to inhabit another article of more wear this season. It is known as the vest, but whether she will pull it down inside of outside her suspenders is a matter of uncertainty as yet.

BUSINESS NOTES.

Laire Bros. keep a full line of brooms, whisks and brushes cheap.

Good buckskin driving gloves, war-ranted at Cranes.

Picture frames made to order at Welch Bros. All work guaranteed to give satisfaction.

Rainy weather goods: rubber coats and umbrellas at Cranes.

150 test water white oil 40c. per 5 gal. lens, 10c. per single gallon, at the New York Grocery Store.

Honest goods at honest prices at the New York Grocery Store.

Fine stationery and fine confection-ery at Shore & Goff's.

"Tuxedo" shirts for 50c. at Cranes. These shirts at 50c. are a bargain.

Go to John Ingham's for tinware, cutleryware, hardware and stoves, ranges and heaters, at bottom prices.

If you want to save 15 per cent. trade at the New York Grocery Store.

Prescriptions carefully compounded at Shore & Goff's.

Sugar cured hams 14c. per pound, at the New York Grocery Store.

Possibly Last Spring You Considered The Question of Painting.

But finally decided that you would put it over until Fall, and perhaps until another Spring. Of course, it is poor economy to let the building go unprotected, and you should at once consider the question of colors and make up your mind when you are going to paint, then engage the best painter you know of.

A few hints may be of service to you. Use nothing but pure Linseed Oil Paint.

If two coats are to be applied to the house, have the first one liberally thinned with Raw Linseed Oil.

Be careful to see that the building is dry, and never let the paint be applied over wet wood.

Get the best and most durable paint, regardless of first cost, it is the cheapest in the end.

Investigate thoroughly the quality of the Chilton Paints.

Probably you can find a color card of some dealer in your town, but if you have difficulty, send direct to the Chilton Paint Co., New York or Boston, and one will be sent to you by mail.

W. C. T. C. Notes.

In her brilliant lecture on "The fate of republics," Rev. Anna Shaw gave to a very large audience at Roselleville on Thursday evening, Oct. 13th, some reasons why temperance is "dragged into politics" and also some telling points up on the suffrage question. Her keen logic and genuine wit proved alike irresistible to friend and foe of the cause, and the enthusiasm manifested is declared by some Westfielders to have been really refreshing.

ALCOHOL IS SWEET CIDER.

"The juice of perfectly sound apples begins to ferment twenty-four hours after it is pressed, and the juice of apples that are more or less decayed has cider apples usually are has begun to ferment even before it runs from the press—the head on the cider in the tub being proof of the presence of alcohol." Thus testifies Dr. Hayes, of Massachusetts, a noted chemist and indisputable authority.

Two Barns Burned.

About 8:30 o'clock Tuesday night flames were noticed issuing from the rear of a large barn on the property of Addison S. Clark on Broad street. The alarm was given and in a short time the fire companies were on hand. The fire had gained considerable headway. As soon as the door was opened, the flames burst from every part of the building. A sleigh and a quantity of harness and farm implements were saved. James T. Pierson's horse, Newton, which was in the stable was burned. A phaeton belonging to Mr. Pierson was also destroyed. A smaller barn was also destroyed. The building stood on the property leased by Thomas W. Varnick and was valued at \$600. The horse and phaeton were valued at \$125. A number of chickens were also burned in the fire.

LUCKY TICKET HOLDERS.

Persons Who Were Winners at The W. A. C. Fair.

The W. A. C. Fair closed last Saturday night. It was very successful financially and socially. The piano was won by G. Bayard with ticket number 637 which he had given to Mrs. Matthias Clark. A. J. Calkins won the bicycle and Percy Dubois the pumpkin. The gravel offered in a poverty contest to the judges is the property of the Royal Arcanum which defeated the Jr. O. U. A. M. its closest opponent by 161 votes. Mrs. J. R. Douglas, the opera glasses; Miss J. Crittenden, the doll and A. Deunam, candy. Mrs. Arkell won the cake. The trophy bowling ball is now the property of the Elizabeth Wheelmen as it was won by Fleming of that club. He also won the gold watch. Other bowling prizes were: Hows, silver lamp, score 220; Cox, silver smoking set, score 191; Worth, gold headed cane, score 175.

SPOT CASH!

Don't be the victims for other people's credits, but spend your hard earned cash where they will go the farthest.

GREAT SPECIAL SALE

TO TAKE PLACE

OF Teas, Coffees, Spices and a full line of Finest Imported and Domestic Groceries

SATURDAY OCT. 22, and continuing until SATURDAY, OCT. 23, AT THE

United Tea and Coffee Growers' Association

The Original Strictly Cheap Cash Grocers,

29 West Front Street, Plainfield, N. J.

XXXXX Pilbury's Best Flour, 20 bags, \$5.00; 10 bags, \$2.50; 5 bags, \$1.25. White Velvet Flour, 20 bags, \$4.00; 10 bags, \$2.00; 5 bags, \$1.00. New Boston Baking Powder, 20 lbs., \$1.00; 10 lbs., \$0.50; 5 lbs., \$0.25. Best prepared buckwheat, 20 lbs., \$1.00; 10 lbs., \$0.50; 5 lbs., \$0.25. New York Baking Powder, 20 lbs., \$1.00; 10 lbs., \$0.50; 5 lbs., \$0.25. Extra creamery butter, superior to that sold in most stores for 1c. Choice creamery butter, 20 lbs., \$2.00; 10 lbs., \$1.00; 5 lbs., \$0.50. Sugar, all kinds, 100 lbs., \$1.00; 50 lbs., \$0.50; 25 lbs., \$0.25. Best New York Layer Raisins, 20 lbs., \$1.00; 10 lbs., \$0.50; 5 lbs., \$0.25. Best seedling raisins, 20 lbs., \$1.00; 10 lbs., \$0.50; 5 lbs., \$0.25. Fine cooking raisins, 20 lbs., \$1.00; 10 lbs., \$0.50; 5 lbs., \$0.25. 10 new currants, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. Extra New Flax, 20 lbs., \$1.00; 10 lbs., \$0.50; 5 lbs., \$0.25. 10 new apples, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new oranges, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new lemons, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new limes, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new pineapples, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new coconuts, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new cashews, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new almonds, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new pecans, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new walnuts, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new chestnuts, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new hazelnuts, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new macadamia nuts, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new pineapples, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new coconuts, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new cashews, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new almonds, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new pecans, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new walnuts, 10 lbs., \$1.00; 5 lbs., \$0.50; 2 lbs., \$0.25. 10 new chestnuts, 10 lbs., \$

AN OLD SAILOR'S YARN

A STORY OF HARDSHIP AND DEATH IN THE ANTARCTIC OCEAN.

A Boat Crew of Seven Men Left on an Island and Not Called For Six of the Fortieth Years Finally Lost Their Lives Some Idea of the Place.

Captain Eldridge, of the steamer Catharine Whiting, is one of those breezy old time tars who used to start off from some New England port in a sailing vessel which would return only after a voyage of two or three years. During those lengthy and tempestuous voyages with the sea Captain Eldridge saw much that was of interest. Some of this he has told with a quaint marine cadence worthy of being exactly reproduced. He says:

I saw in The World where three men were left on an island in the Arctic. This reminds me of a boat crew that was left on an island in the Antarctic ocean in 1871 by the schooner Franklin, of New London. Captain James Holmes, master. They were landed on Cape Sherrell to kill what seals they could while the schooner went on a prospecting voyage—that is, to look for rookeries or places where seals travel upon the beach to rear their young.

Well, they were to stay there until the schooner returned, which would be in ten days at most. So ten days' provisions were given them, and when ten days had expired the men did not know but the vessel was lost. So they took in their boat the carcasses of seals and started for Potter's cove, 250 miles away, where they expected to find the bark Nile, for it was expected she would sail on the 15th day of March for New London. They arrived there on the 14th, and she had sailed on the 13th as it appeared. Now what were they to do without clothes or fuel, no provisions or shelter, and a very cold winter of nine long, dark months. As it is so far south the summer is short—say three months, and winter nine months—and summer as cold as our winter here, but less the advantage of being all day, while the winter is all night. They were in 60 days' latitude, you see.

Well, the season was so far gone that the few seals, or elephants, or other animals that inhabit this part of the globe had gone into the sea for winter. But, however, they did manage to get a few seals and elephants and secured their oil, and on this they lived until spring. For a shelter they got a old dry works which had been left there by some ship, and covered this with snow to keep on when cold possible, and with snow for blankets they lived the winter through.

In the spring they concluded to go back to Cape Sherrell and kill all the seals they could before the vessels began to arrive. Then they would make some bargain to take home the skins. So, without any provisions, they started back, but on going out the straits they got jammed in the ice and had to go back over the ice to Potter's cove. They would haul their boat from one cake or block of ice to another, and launch when necessary. Well, they got back at last where they started from nearly dead from cold and exposure.

But, however, another trial. Four refused to go, but three of them took another boat which had been left by some other ship and started again without any food, for there was none to be got at so early in the spring. Nevertheless they arrived then at Cape Sherrell. Afterward they killed the seals and spread their skins on the snow to keep them from freezing, but what to come of them will never be known. It was supposed that they had tried to cross the straits, but could not make the boat. However, they were lost. Now about those four that stayed in the Cape—I remember two of their names, but have forgotten the others. One was an Indian from Long Island, some place near Algonk—his last name was Garry—and one by the name of James King, who was eventually the only survivor of the seven, and his tale of suffering was terrible. He had to kill and eat the other three men. They were nothing but skin and bones anyway, and he could not have survived more than one day more had we not found him as we did.

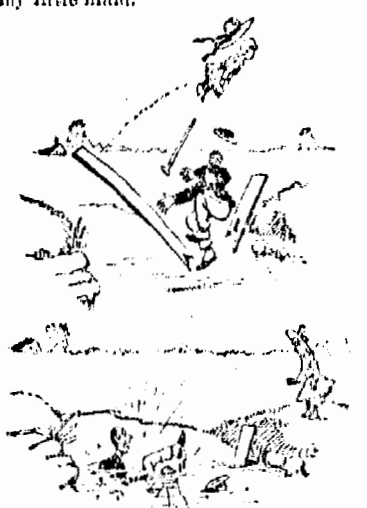
We buried the remains of the others in the snow. King then went on board of the bark Nile, and from her he went on board of the schooner Z. P. Shuman and came to New London, where he sailed from. He sued the company, but finally gave it up and cleared out—no one knows where.

Now, I will give you all the information I can as to why they were left there. It was late in the season and the winds would not permit of the schooner getting back to them. So she sailed for home. What are seven men's lives to me now? Now, I will give you some idea of the place. It is in from 61 to 65 degrees south latitude and the land is of volcanic origin, spung up out of lava water and hiding in the clouds with thousands of feet of snow on top. The rocks are of soapstone appearance. There is not the first sign of vegetation on them—not even moss will grow on the rocks.

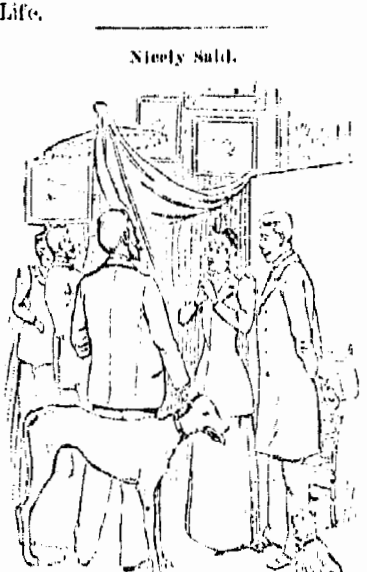
Yes, there is a sign of vegetation what is known as crinon snow. But if you take a handful and look at it without the aid of a microscope you will see nothing but a little red on the snow, but with the aid of a microscope you can see the fine roots in the snow. So it is a vegetable. There are no shells on the rocks—it is perfect desolation. But in the summer the birds of all kinds—that is, birds of high latitudes—are here to breed their young. There are three species of Murrelets, City's chicken, which is found all over the world, and penguin, several species of them. And to see these perching the march from their nests to the sea and back in single file and stand so erect. They do not fly. They have just a redly small fan to swim with while in the water. They just make a hole in the snow, lay two eggs and sit on them as any bird, right in the snow. But, as we provided any way out of all these sermons, as it were. Their eggs are a good substitute for hen's eggs.—New York World.



"Don't be afraid! I'll help you across, my little maid."



"Thank you, kind sir," she said.—Life.



Lady to famous animal painter—it is a great pleasure to meet you. Failure animals.—Harper's Bazar.



—Life.



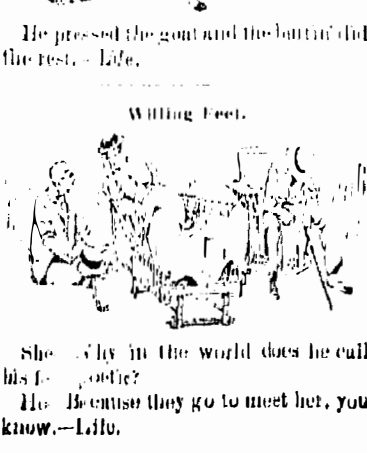
Willie—I don't want these artist things around here, so I'll just give this fellow a lesson.



—Life.



"Oh, well, one or two of them around won't make much difference."—Harper's Bazar.



Continued from first page.

The first convention of the Republican party, then called the Free Soil party, put the language into its platform: "Resolved, that a due regard to the Federal Constitution and a sound administrative policy require that no more revenue should be raised than is required to defray the strictly necessary expenses of public service and to pay of the public debt." Free Soil platform, 1847, 1854 resolution.

That is substantially the language of the Democratic platform of 92. THE OLD REPUBLICAN STATES. Iowa, Massachusetts, Pennsylvania, Ohio, Rhode Island and Connecticut, originally the most Republican of all the States, are wavering. Three of them have Democratic governors today and the other three elected Democratic governors by a popular majority at the last election. Under such circumstances, who is the old-fashioned Republican most at home?

On the other hand, a new-fashioned Republican James P. Foster, President of the "The Republican League of the United States," issued a circular letter to manufacturers in 1888, saying among other things: "The manufacturers of the United States who are most benefited by our tariff laws. . . . The manufacturers of Pennsylvania, who are more highly protected than anybody else, and who make large fortunes every year, protesting every morning toward the maintenance of the tariff of the Republican party. . . . If I had my way, I would put the manufacturers of Pennsylvania under the fire and try all the fat out of them. . . . It is said that Senator Quay handled the druppings and thus elected Harrison with the use of vast money. . . . So Mr. Hackett, Chairman of the New York State Republican Committee, this year sent out a secret circular asking for the name of a Republican in each township who would do 'good' work, so as not to be found out."

In the newspapers of today, October 15th, can be read the speeches of Rev. Dr. Rainford and of Republican Ex. Attorney General McVey, in which they denounce the present tariff as calculated to deluge the government by corruption, and to rob the poor at the expense of the rich. Attorney General McVey in eloquent language tells of the immense corruption funds contributed by J. Gould and Wanamaker and the monopolists, based and maintained more, and Quay to every election of 1888 for Harrison, and say a word of special interest to our farmers, when he shows how farmers and mechanics are ruined by the present tariff, and how the very money wrongfully made by the manufacturers is used to bribe the farmers and other poor voters to vote for their own ruin. . . . Is the place of an old-fashioned Republican with Hackett, Foster and Quay, and Wanamaker and David Manning, or shall an old Republican vote as all his old leaders are voting?

The Division of Time.

At the poles, where all meridians converge, there can be no natural standard time, for it is every hour of the day at once; but the regulation of time at these singular points has not yet become a burning question. Were the system of time reckoning recommended by the prime meridian conference carried out in its entirety, the minutes indicated on all well regulated clock dials throughout the world would be the same at a given instant, but the hours would differ at each 15 degrees of longitude by steps of one twenty-fourth standard meridian of the globe. Thus, for example, at twenty-five minutes past noon of the prime (or rather the zero) meridian, clocks at 30 degrees E. would show twenty-five minutes past 1 p. m. (30 deg. 20 deg. W. 10 deg. W. 20 deg. W. 30 deg. W. 40 deg. W. 50 deg. W. 60 deg. W. 70 deg. W. 80 deg. W. 90 deg. W. 100 deg. W. 110 deg. W. 120 deg. W. 130 deg. W. 140 deg. W. 150 deg. W. 160 deg. W. 170 deg. W. 180 deg. W. 190 deg. W. 200 deg. W. 210 deg. W. 220 deg. W. 230 deg. W. 240 deg. W. 250 deg. W. 260 deg. W. 270 deg. W. 280 deg. W. 290 deg. W. 300 deg. W. 310 deg. W. 320 deg. W. 330 deg. W. 340 deg. W. 350 deg. W. 360 deg. W. 370 deg. W. 380 deg. W. 390 deg. W. 400 deg. W. 410 deg. W. 420 deg. W. 430 deg. W. 440 deg. W. 450 deg. W. 460 deg. W. 470 deg. W. 480 deg. W. 490 deg. W. 500 deg. W. 510 deg. W. 520 deg. W. 530 deg. W. 540 deg. W. 550 deg. W. 560 deg. W. 570 deg. W. 580 deg. W. 590 deg. W. 600 deg. W. 610 deg. W. 620 deg. W. 630 deg. W. 640 deg. W. 650 deg. W. 660 deg. W. 670 deg. W. 680 deg. W. 690 deg. W. 700 deg. W. 710 deg. W. 720 deg. W. 730 deg. W. 740 deg. W. 750 deg. W. 760 deg. W. 770 deg. W. 780 deg. W. 790 deg. W. 800 deg. W. 810 deg. W. 820 deg. W. 830 deg. W. 840 deg. W. 850 deg. W. 860 deg. W. 870 deg. W. 880 deg. W. 890 deg. W. 900 deg. W. 910 deg. W. 920 deg. W. 930 deg. W. 940 deg. W. 950 deg. W. 960 deg. W. 970 deg. W. 980 deg. W. 990 deg. W. 1000 deg. W. 1010 deg. W. 1020 deg. W. 1030 deg. W. 1040 deg. W. 1050 deg. W. 1060 deg. W. 1070 deg. W. 1080 deg. W. 1090 deg. W. 1100 deg. W. 1110 deg. W. 1120 deg. W. 1130 deg. W. 1140 deg. W. 1150 deg. W. 1160 deg. W. 1170 deg. W. 1180 deg. W. 1190 deg. W. 1200 deg. W. 1210 deg. W. 1220 deg. W. 1230 deg. W. 1240 deg. W. 1250 deg. W. 1260 deg. W. 1270 deg. W. 1280 deg. W. 1290 deg. W. 1300 deg. W. 1310 deg. W. 1320 deg. W. 1330 deg. W. 1340 deg. W. 1350 deg. W. 1360 deg. W. 1370 deg. W. 1380 deg. W. 1390 deg. W. 1400 deg. W. 1410 deg. W. 1420 deg. W. 1430 deg. W. 1440 deg. W. 1450 deg. W. 1460 deg. W. 1470 deg. W. 1480 deg. W. 1490 deg. W. 1500 deg. W. 1510 deg. W. 1520 deg. W. 1530 deg. W. 1540 deg. W. 1550 deg. W. 1560 deg. W. 1570 deg. W. 1580 deg. W. 1590 deg. W. 1600 deg. W. 1610 deg. W. 1620 deg. W. 1630 deg. W. 1640 deg. W. 1650 deg. W. 1660 deg. W. 1670 deg. W. 1680 deg. W. 1690 deg. W. 1700 deg. W. 1710 deg. W. 1720 deg. W. 1730 deg. W. 1740 deg. W. 1750 deg. W. 1760 deg. W. 1770 deg. W. 1780 deg. W. 1790 deg. W. 1800 deg. W. 1810 deg. W. 1820 deg. W. 1830 deg. W. 1840 deg. W. 1850 deg. W. 1860 deg. W. 1870 deg. W. 1880 deg. W. 1890 deg. W. 1900 deg. W. 1910 deg. W. 1920 deg. W. 1930 deg. W. 1940 deg. W. 1950 deg. W. 1960 deg. W. 1970 deg. W. 1980 deg. W. 1990 deg. W. 2000 deg. W. 2010 deg. W. 2020 deg. W. 2030 deg. W. 2040 deg. W. 2050 deg. W. 2060 deg. W. 2070 deg. W. 2080 deg. W. 2090 deg. W. 2100 deg. W. 2110 deg. W. 2120 deg. W. 2130 deg. W. 2140 deg. W. 2150 deg. W. 2160 deg. W. 2170 deg. W. 2180 deg. W. 2190 deg. W. 2200 deg. W. 2210 deg. W. 2220 deg. W. 2230 deg. W. 2240 deg. W. 2250 deg. W. 2260 deg. W. 2270 deg. W. 2280 deg. W. 2290 deg. W. 2300 deg. W. 2310 deg. W. 2320 deg. W. 2330 deg. W. 2340 deg. W. 2350 deg. W. 2360 deg. W. 2370 deg. W. 2380 deg. W. 2390 deg. W. 2400 deg. W. 2410 deg. W. 2420 deg. W. 2430 deg. W. 2440 deg. W. 2450 deg. W. 2460 deg. W. 2470 deg. W. 2480 deg. W. 2490 deg. W. 2500 deg. W. 2510 deg. W. 2520 deg. W. 2530 deg. W. 2540 deg. W. 2550 deg. W. 2560 deg. 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