FARM AND GARDEN.

OBSERVATIONS WORTHY OF NOTE IN RURAL AFFAIRS.

The Cabbage Aphis, Which Was So Destructive Last Season to the Young Cabbages, Turnips and Radishes—Remedies Suggested.

The cabbage aphis, or louse, was very abundant last year, appearing early in the season and proving especially destructive to young cabbage plants grown for transplanting. Turnips and radishes also suffered from this pest. In the cut it is shown, greatly enlarged, one of the wingless cabbage lice. The small lines at right of the cabbage louse show the natural length and breadth. When badly infested the plants are so covered with the lice that it is almost impossible to see the leaves. Like the grain louse, this species has its natural enemies. We can also do much more with the insecticides when it comes to fighting the cabbage louse.

One of the best remedies is the whale oil soap of commerce. It is equally effective, and, according to Entomologist J. B. Smith, is even better. Fish oil soap was perfectly effective at the rate of one pound of soap to eight gallons of water. Another very satisfactory mixture was found in gritty kerosene. This last was used with excellent effect put on early, while the plants were wet, and dusted on thoroughly. It has the advantage of being a fertilizer as well as an insecticide.

A WICKED CABBAGE LOUSE.

One serious trouble when applying insecticides is the whale oil soap, etc., in solution, by spraying the plants, is to reach the underside of the leaves. The greatly lies in the use of modern machinery made for the purpose. For spraying insecticides on cabbage the authority quoted advises a knapsack sprayer, like the "Eureka" or the "Gallows sprayer," and to this a Cyclone or Vermorel nozzle should be attached. This nozzle, at the end of a stick of convenient length, can be passed all around and into the cabbage plant, sending a fine spray into every corner. A man can go over a large field, stopping only a few seconds at each plant and wasting no liquid.

Cross Bred Poultry.

Cross bred poultry versus pure bred poultry is a very common topic of discussion, and successful growers differ in their expressions on said topic. Stephen Beale, the well known English authority, makes some exceedingly sensible remarks in his work on poultry under this head. He says:

There is an idea very prevalent that cross bred poultry is much more profitable to keep than pure bred. While there can be no question that it is a decided advantage to cross certain breeds with one another in order to obtain specific results, it is, of course, if the crossing is scientifically and skillfully done, having an end in view. This is altogether different to the haphazard mongrels which is so common. In the former case there is method, in the latter there is none. It is to this indiscriminate crossing that we owe the present degenerate race of barnyard fowls, more subject to disease, poor layers, equally useless for the table, and certainly neither profitable nor creditable to the owner.

The first cross may be useful if properly made, but it has been found as the experience of many that if these are bred from the progeny deteriorates, both in hardiness and size, with every generation. The basis of every yard should be pure bred stock, but where there is room there should only be used for breeding layers or table fowls. If only a few can be kept for home consumption, then we would advise that crossing be not attempted, but only pure bred birds kept, unless there is some means of getting the cross bred cock at a reasonable price, with the certainty that they are as represented.

Will Freezing Hurt Foundation?

In reply to this question, "Will freezing hurt foundation?" A. I. Root says in his "Gleanings" in Bee Culture that the freezing will do no harm at all, providing some inconsiderate person does not attempt to handle it while it is cold. Persons who ought to know better undertake to move foundation when it is almost icy cold. Of course it flies to pieces like thin glass, and then after they have done a lot of needless work sometimes undertake to repair it, and in doing so they break a lot more of it. Never touch foundation nor even hardly look at it when it is in a cold room. Air and light have the effect of bleaching and hardening thin foundation, and as this makes it a little more difficult for the bees to work, it is generally considered better to have your foundation shift by in a box, protected from air and light as much as possible during the winter time.

Advantages of Bulky Food.

The why and wherefore of coarse food for cattle is treated as follows by The Republic:

Animals do not always eat bulky food for its nutrition, but sometimes as a separate change from a sameness of diet, and because the bulky food distends the stomach and aids digestion. A variety of food of any kind will be preferred to one or two articles regularly given. Cattle and sheep that are daily allowed hay and grain, if permitted to have access to winter straw or cornstalks will eat quite a quantity of such materials, and if the straw or corn fodder is cut up and ground grain added, even horses have been known to thrive well on such during the winter. When a liberal supply of grain is allowed there is no risk incurred by feeding the coarse foods to any class of stock, and it is an advantage to do so in order to feed less hay when the season has not been favorable to grass and hay making.

"Iron may be a home with travel to return to its own home," says Field and Farm, "as has fully demonstrated in our land, but we know of an instance where a driving gelding traveled all the way from Denver to Omaha, a distance of about 600 miles."

Remember that the cheapest animals are the best breeding ones.

WIRE FENCING.

Simple Methods of Bracing the Posts Near the End of a Line.

Prairie Farmer suggests that at every corner or at the end of a post and wire fence there should be brace posts to prevent the drawing of posts sidewise by the wire. Two methods of bracing the posts near the end of a line are illustrated, and sufficiently explain themselves.

BRACING THE SECTION OF POSTS.

The posts of a post and wire fence, in turn cattle and horses, should be of wood of the ordinary size for rail or board fence, and set in the ground three feet. The wire is preferable galvanized, and the two strand superior to the single wire, since the contraction and expansion exert comparatively little strain on the posts. As has been suggested, at every corner and at each end of the fence there should be brace posts to prevent the drawing sidewise of the posts.

AN ADMIRABLE STRAIN.

These wires, if barbed, will turn cattle and horses, but four are better. "The height of the fence should not be less than four and a half feet.

Contradictory Effects of Plaster Explained.

Through all times plaster has been regarded by many as a direct and very valuable plant food, especially for clover. By others it has been regarded as of no value for the good reason that no visible effects followed its use. In the light of more recent knowledge such contradictory phenomena are apparently well explained, says Rural New Yorker. Plaster sets the fixed or insoluble potash of the soil free—that is to say, the sulphuric acid of the plaster combines with the fixed potash of the soil, forming sulphate of potash which is soluble. So too, it may act upon the carbonate of ammonia of the soil, which is volatile, fixing it as sulphate of ammonia, until, as such, it is used by the growing crop or passes through the soil in the drainage water.

In most cases, it is probable that the time of the sprayers has little, if any, effect in increasing the crop upon soils which are already well supplied with lime, and yet it is often upon just such soils that gypsum shows it its best. In such soils there is little doubt that potash, either in unleached ashes, muriate or sulphate of potash, would have a more immediate and telling effect upon the crop. In this case the needed element (potash) is given to the soil in a soluble condition; in the other, the plaster splits into two parts, so to say, the lime becoming fixed and the sulphuric acid acting upon the inert potash rendering it soluble. It will be seen that plaster is therefore what may fairly be called a stimulant—an excitant. How greatly soever it may increase the crop one season, we may look for a proportionate decline the next.

Experiments with Wheat.

At the Illinois station results gained in experiments with wheat made it appear that for central Illinois at least the application of commercial fertilizers on this crop is not as a rule profitable. The fertilizers containing phosphoric acid generally produce the best effect, and potash least, and good stable manure was equal to any fertilizer. Between one and two bushels per acre is best for seeding. Seed drilled in plowed ground did better than that in corn ground or soil prepared with disk harrow. The riper the wheat the larger the yield.

Agricultural Notes.

There appear reasons for believing that the consumption of molten since 1875 has increased twice as rapidly as the advance of population.

The latest potato story is to the effect that many of the tubers that are being sold at fancy prices as this year's crop are really old ones which have gone through some kind of a steaming process.

What Is a Hustler?

A young man who lives in Oshkosh is one of the best exemplifications of a hustler that has come under the observation of this department. He is a stenographer and typewriter and is employed by three legal firms. He does all their work, and that of either firm is enough to keep any ordinary man busy. He attends to miscellaneous work and does the correspondence of several large lumber firms. In addition to these duties he is correspondent for two daily newspapers.

He is likewise a member of the brass band, and anybody who has ever watched a brass band in a town the size of Oshkosh need not be told how incessant are the demands upon it. On the occasion of a recent event the band was there, and when it wasn't playing the young man who is the subject of this paragraph was reporting the proceedings of the event for his two newspapers. He is a hustler.—Black and White.

A Living Lunatic.

A servant who did not find her way very promptly to the kitchen one morning was visited by her mistress, who found her in bed suffering from pain and violent sickness. She explained that she had a cold, and had taken some medicine which had been recommended for the children. "How much did you take?" asked her mistress. "Well, mum, I went by the directions on the bottle. It said, Ten drops for an infant, thirty drops for an adult and a tablespoonful for an emetic.' I knew I wasn't an infant or adult, so I thought I must be an emetic, and the pesky stuff has pretty nigh turned me inside out."—Medical Brief.

Waste Too Much.

"Why don't you sing out the names of the stations clearly?" said an irate railway passenger to a porter who had just delivered himself of the regulation string of mouthfuls of gibberish.

"Bill!" exclaimed that individual to a fellow-worker, "ere's a sore as expects hoysters singed for a porter's wages."—London Tit-Bits.

FLIRTATION BY WHISTLING.

Sad Fate of a Baltimore Drummer Who Was Given to Music.

He had read his papers and didn't know what to do with himself. He had been over the route so many times the scenery and brazen signs on the road did not interest him, but the pretty girl with a smile roll and natty traveling dress did. He caught a glint of her merry blue eyes as she looked up at him once in indifference, and, he had studied the dainty coil of brown hair until he had an impulse to run his pencil through the seductive little curl that strayed over the back of the seat as she snuggled her head into a comfortable position to sleep, if she wished to. The owner of the curl, however, was apparently oblivious of his presence.

Presently he took up his paper and under a pretense of reading softly whistled "She's as Pretty as a Picture."

This made no evident impression on the young lady, who was looking dreamily at the flowing landscape. He recovered the importunate flirt started off with more inducing intonations, "Oh, Eyes So Blue and Tender."

The maiden fair moved a trifle unusually and pressed her face against the window pane. "A Sweet Face at the Window" hastily whistled the quick witted romancer. There was no mistaking the pointed allusion in the whistle, and the young lady moved as if to change her seat, but an embrace seemed following this move. She settled down again to peaceful and to dream.

"Oh, Speak to Me, Speak," whistled the musical fiend with fine definitions, as dramatic as a whistler can make them.

"Baltimore the next station," announced the conductor.

"How Can I Bear to Leave Thee," began the whistler, telling the absorbed fact that Baltimore was his destination. The young lady sat up with a more interested expression upon her beautiful sphinx like countenance.

"Would I Never Had Met Thee," whistled the young man as he drew on his overcoat, and striking into "Farewell, Forever," as he disappeared.

The train stopped; he passed the window and caught a glimpse of a beamy face radiant with smiles of appreciative mischief. It was almost his undoing. He had an impulse to spring on the train and go to Washington, but already the train was whizzing past. With a farewell wave of his hand he jogged along whistling "Her Delight Still Haunts Me Still."

Fact.

Let no one give a long negative, contrary whistle of unbelief.—New York Herald.

How Sawdust Kills Salmon.

It has been proved without a doubt that the promiscuous dumping of sawdust into the river is very detrimental to the salmon. Salmon, after leaving the ocean to spawn, never eat anything while in the river. On opening those sands of them it is found that they have nothing in their stomachs and intestines. Nature has provided for the abnormal abstinence from food by giving them an extra amount of fat as a reserve to draw upon, which is consumed while on their ways to the spawning grounds.

In examining fish that have been killed by sawdust, it is found that the fine particles of wood that have been swallowed in the water lodge in the gullet and abdominal cavities and clog them up, thereby killing the fish. The greater percentage of fat found in Columbia river fish over those of any other river is accounted for on the ground that the much longer distance the fish have to travel, over those of salmon on other rivers, before reaching the spawning grounds, makes this wise provisions of nature a very necessary requisite in the life of a fish.—Tacoma (Wash.) News.

The Original Santa Claus.

St. Nicholas, the patron saint of children, was bishop of Myra, and died about A. D. 326. He was fond of children and young people, and many charitable deeds in their behalf are recorded of him. He is the recognized patron of the Christmas season; but Santa Claus, or Knecht Rupert, is a product of Germany, where it was formerly the custom for the parents of a village to put all the gifts designed for their children into the hands of a man who, disguised in long robes, a mask and a sometimes wig, went from house to house, rapped, was admitted, and severely questioned the parents as to the behavior of the little ones during the past year, judiciously leading the questioning up to a point where the friend of present could be appropriately introduced. The fiction of his descent through the chimney accounted for his absence when the annual round of this masked personage ceased to be made.—St. Louis Globe-Democrat.

Prayer Among the Mongols.

On the tops of all the houses were little prayer wheels turned by the force of the wind, a simple arrangement like an anemometer placed on them catching the air and so keeping them in motion. In the hands of most of the old men and women were hollow or brass prayer wheels, which they kept continually turning, while, not satisfied with this mechanical way of acquiring merit, they mumbled the popular formula, "Om mani pemo hum," the well known invocation to Avalokitesvara, the world he writes of the world.—W. Woodville Rockhill in Century.

Justice Seized Out.

Walker (very married)—I hope you will do justice to my wife's blandis, old man!

Cutting (his guest)—Well, frankly, I think they deserve thirty days.—American Grocer.

Particularly the Regrets.

Maid—Mr. Small wouldn't call to-night, and he sends his regrets and this little present.

Miss Little—Thanks for both.—Epoch.

HE MARCHED WITH SHERMAN,

trudged all the way on foot, with no money and through storms carrying knapsack and gun, and never went back to look out of the road, rumpled coat, from the effects which his friends thought he would never recover. Lingering with sore nose attention for many years, he was finally a Golden Medical Discovery advertised in a country newspaper, and he determined to try it. A few bottles worked a change; the doctor continued the good work, and he has frequently said he was indebted to it, perhaps, for more ease in every day life than any other medicine. Sold by druggists.

DR. SAGE'S CATARRH REMEDY
Cures the worst cases, no matter of how long standing. 50 cents by druggists.

NOTICE TO CREDITORS.

In the Estate of Thomas Harris, Deceased.

NOTICE IS HEREBY GIVEN BY THE undersigned, Executor of the Estate of said Thomas Harris, deceased, to the creditors of, and all persons having claims against said deceased, to exhibit them with the necessary vouchers, within one month after the first publication of this notice, to the undersigned, at the residence of said deceased, Salt Lake City, in the County of Salt Lake.

Dated January 5th, 1891.

ELIZA JENKIN JONES,
Executrix of the Estate of Thomas Harris, deceased. d-jan 6-w

NOTICE TO CREDITORS.

Estate of Thomas C. Jones, Deceased.

NOTICE IS HEREBY GIVEN BY THE UNdersigned, Administrators of the estate of Thomas C. Jones, deceased, to the creditors of, and all persons having claims against the said deceased, to exhibit them with the necessary vouchers, within four months after the first publication of this notice, to the undersigned, at their residence in Salt Lake City, in the County of Salt Lake.

Dated January 5th, 1891.

ELIZA JENKIN JONES,
ALFRED M. WALLACE,
Administrators of the Estate of Thomas C. Jones, deceased. d-jan 6-w

NOTICE.

IS HEREBY GIVEN, THAT THE ANnual meeting of the Stockholders of the Salt Lake Fuel and Ice Company, will be held at the General Office of the Company, No. 27 and 28 East First South Street, Salt Lake City, Salt Lake County, Utah Territory, on Tuesday the 10th day of February, 1891, at 10 o'clock p. m., for the purpose of electing Directors to serve for the ensuing year, and for such other business as may properly come before said meeting.

Dated Salt Lake City, January 15th, 1891.

ISAAC M. WARREN,
Secretary.

d-jan 16

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NOTICE TO CREDITORS.

In the Probate Court of Salt Lake County, Territory of Utah.

In the matter of the Estate of John Rowe, deceased.

NOTICE IS HEREBY GIVEN BY THE undersigned, Administrator of the Estate of said Rowe, deceased, to the creditors of, and all persons having claims against the said deceased, to exhibit them with the necessary vouchers, within two months after the first publication of this notice, to the undersigned, at the residence of the deceased, in Salt Lake City, in the County of Salt Lake.

Dated January 9th, 1891. 1d new 10

NOTICE TO CREDITORS.

Estate of Roger Williams, Deceased.

NOTICE IS HEREBY GIVEN BY THE UNdersigned, Administrator of the Estate of Roger Williams, deceased, to the creditors of, and all persons having claims against the said deceased, to exhibit them with the necessary vouchers, within two months after the first publication of this notice, to the undersigned, at 45 South Main Street, Salt Lake City, in the County of Salt Lake, Utah Territory.

Dated January 29th, 1891.

W. J. DEARE,
Administrator of the Estate of Roger Williams, deceased. d-jan 29-w

LEGAL NOTICE.

In the Probate Court of the County of Salt Lake, Territory of Utah.

In the matter of the Estate and Guardianship of John Woodruff and Julia Woodruff, Minors.

Notice to their Uncle who Order of Sale of Real Estate cannot be made.

ANIEL H. WOODRUFF, THE GUARdian of the persons and estate of John Woodruff and Julia Woodruff, minors, having filed his petition herein, praying for an order of sale of the real estate of said minors, the undersigned, the Probate Court of said County, on Saturday, the 21st day of February, 1891, at the hour of ten o'clock a. m. of said day, at the Court House of said County in Salt Lake City, Utah Territory, is where and when all persons interested in said estate may appear and show cause why said petition should not be granted.

Dated January 2, A. D. 1891.

C. E. ALLEN,
Clerk of Probate Court.

By C. E. STANTON,
Deputy Clerk. 4

LEGAL NOTICE.

In the Probate Court in and for Salt Lake County, Territory of Utah.

In the matter of the Estate of John Rees, deceased.

Notice of time and place for the hearing of petition for admission to Probate of Will.

PURSUANT TO AN ORDER OF SAID Court to me directed, notice is hereby given that Friday, the 20th day of January, A. D. 1891, at the hour of 10 o'clock a. m. at the County Court Room, in Salt Lake City, Utah Territory, in the county seat of said County, has been appointed for the time and place for the hearing of a petition of I Isabella Rees, praying for the admission to probate of a certain document purporting to be the last will and testament of John Rees, deceased, when and where all persons interested may appear and contest the same, if they see fit, and for the granting of letters testamentary or administration with the will annexed to T. G. Bridge, as named in said petition.

In witness whereof, I have hereunto set my hand and affixed the seal of said court, this 20th day of January, A. D. 1891.

(SEAL.) C. E. ALLEN,
Clerk of the Probate Court.

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SALT LAKE CITY.

Train 1 leaves Salt Lake at 8.00 a.m.
" 2 arrives " " 6.20 p.m.

PARK CITY.

Train 1 arrives Park City 10.20 a.m.
" 2 leaves " " 4.00 p.m.

FREIGHT TRAINS

Leave Salt Lake at 7.00 a.m.
Arrive " " 6.00 p.m.
Leave Park City at 11.00 a.m.
Arrive " " 2.00 p.m.

No Passengers carried on Freight Trains.

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Between Salt Lake City and Park City,
Single Fare, $2.00, Round Trip, $3

J. H. YOUNG, Gen'l Supt. T. J. MACKINTOSH, Gen. Ft. & Pass

RIO GRANDE WESTERN RY.

ON AND AFTER TIME TABLE, JAN. 1, 1891.

East Bound Trains.	No. 3 Atlantic Mail.	No. 5 Atlantic Express.
Lv. Ogden	9.00 a.m.	3.45 p.m.
Ar. Salt Lake	12.00 m.	6.45 p.m.
Lv. Salt Lake	9.05 a.m.	10.00 p.m.
Ar. Ogden	12.05 p.m.	7.00 a.m.
Lv. Ogden	12.05 p.m.	7.00 a.m.
Lv. Provo	3.40 p.m.	11.05 p.m.
Lv. Heber	6.00 p.m.	1.45 a.m.
Lv. Green River	8.50 p.m.	5.15 a.m.
Lv. Grand Junction	3.30 a.m.	10.40 a.m.
Lv. Gunnison	7.45 a.m.	2.45 p.m.
Lv. Grand Junction	3.30 a.m.	10.40 a.m.
Lv. Leadville	10.00 a.m.	7.00 a.m.
Lv. Pueblo	5.20 p.m.	3.25 a.m.
Lv. Colorado Springs	6.40 p.m.	4.55 a.m.
Lv. Denver	8.30 p.m.	6.00 a.m.

West Bound Trains.	No. 2 Pacific Mail.	No. 4 Express.
Lv. Denver	9.00 a.m.	5.15 p.m.
Lv. Colorado Springs	10.45 a.m.	7.00 p.m.
Lv. Pueblo	11.45 a.m.	8.15 p.m.
Lv. Leadville	2.00 p.m.	12.00 m.
Lv. Gunnison	12.35 a.m.	10.40 a.m.
Lv. Grand Junction	4.50 a.m.	2.50 p.m.
Lv. Grand Junction	4.50 a.m.	2.50 p.m.
Lv. Green River	9.50 a.m.	7.20 p.m.
Lv. Heber	3.50 p.m.	1.30 a.m.
Lv. Provo	6.20 p.m.	11.20 p.m.
Lv. Ogden	10.00 p.m.	7.00 a.m.
Ar. Salt Lake	9.50 p.m.	1.05 a.m.
Lv. Salt Lake	10.00 p.m.	7.00 a.m.
Ar. Ogden	6.00 p.m.	3.00 a.m.

LOCAL TRAINS.

SALT LAKE AND OGDEN.

Leave Salt Lake 7.00 a.m., 12.15 p.m., 4.45 p.m. Returning, arrive Salt Lake 9.40 a.m., 1.45 p.m., 6.00 p.m.

SUNDAYS.

Leave Salt Lake 8.15 a.m., 10.00 p.m. Returning arrive Salt Lake 11.00 a.m., 10.00 p.m.

D. O. DODGE, General Manager. J. H. BENNETT, Gen. Pass. Ag.

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Geo. Romney, Manager.
Geo. H. Taylor, Assistant Manager.
Geo. H. Romney, Secy. and Treasurer.

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