## DRAIN IRRIGATION LAND PREPARE LAND FOR ALFALFA

Oxygen is Necessary to Life of Plant Rootlets.

### Drainage is as Essential for Successful Crop Raising as Is Irrigation-Soil Must Have Some Ventilation.

districts is to apply as much water as water may be applied if needed. can possibly be obtained is an egregious error. Water can never take get a seed bed firm enough and one the place of cultivation and fertiliza- that will retain moisture well enough tion. While moisture is absolutely for best results. The soil will be too necessary for plant growth there are loose and will dry out quickly. It is other essentials that play as import- therefore advisable when the land is ant parts in their development Plants plowed in the spring to irrigate bemust breathe and plants must eat and fore seeding provided the soil does not plants must have sanitary environ- contain an abundance of moisture. ments. Plant physiology teaches us For best results the seeding should be plant rootlets since the cells of newly particular time will depend upon the formed roots are filled with living altitude and the local climatic concells which consist of a transparent ditions. A few degrees of frost will

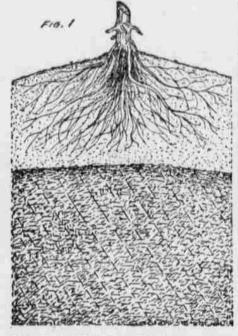


Fig. 1. In Wet Soil the Roots Grow Near the Surface and Are Left Without Water Supply During Drought.

jelly-like substance called protoplasm which manifect the various phenomena of life. Protoplasm may exist in an active state when the plant is growing and while in this state it requires both food and oxygen, and without it cannot live. The presence method of irrigation that abandons gation by flooding, is a great hinddrance to its proper ventilation. The irrigation farmer who fails to follow each flooding of his land by tillage, as soon as the drying out of the soils will permit it, commits an error that in time will bear heavily upon him by at least partial crop failure. Another fatal mistake being made by the irrigation farmer is the neglect of drainage. Drainage is as necessary realizing the needs of drainage, but vent the water within its cavities it has impressed itself upon them very from absorbing air." forcefully. A careless use of irrigaa hindrance in the valley where a systhe prime object of drainage. A system of irrigation without drainage tends to raise the water table and

Early Cultivation Should Begin as Soon in Spring as Ground Can be Worked.

Good preparation of the land is important. The soil should be quite firm and should have a mulch of loose soil an inch and a half or two inches deep over the surface. Fall plowing will insure sufficient packing of the soil and in the spring the surface can be worked up into a good seed bed. This early cuitivation Irrigation does not offer complete should begin as soon in spring as the immunity against crop failure, as ground can be worked and be consome people seem to think. It has tinued to conserve moisture until been clearly demonstrated that farm- danger of heavy freezing is over, when ing is not made simpler by reason of seeding may be done, says the Denver irrigation. On the contrary it has Field and Farm. There should be sufoften been made more complicated. ficient moisture in the soil to germi-The idea that all one has to do to nate the seed and keep it growing ungrow crops in the arid and semi-arid til it is eight to ten inches high when

With spring plowing It is difficult to that oxygen is necessary to the life of done tolerably early in spring. The

do no serious injury but heavy frost is likely to kill alfalfa when just out of the ground. If the seed bed is in perfect condition and a drill be used, eight to twelve pounds of first grade seed the acre should be sufficient for a good stand. When soil conditions it had not eaten for several days. are unfavorable or broadcasting is practiced from 12 to 18 pounds may be required. On irrigated land it is petter to have a thick than a thin stand. The use of a seeder that sows in drills and covers the seed is to be recommended as the seeds are cover ed and each seed is given an equal chance for germination with every other. A drill with press wheels attached is also desirable. The seeds should be sown shallow-from onehalf to two inches deep.

### OXYGEN NEEDED IN SOIL rrigation Farmers Are Warned

Against Further Neglect of Proper Drainage System.

The germs in the soil which develop a nitric acid in the soil find oxygen of the state home for dependent chilindispensable to their life, and it is important that a large supply of it arms around his father's neck and penetrate the soil. Oxygen is also needed to prevent the destruction of joy. His identification by the boy the nitrates after they are once form- was a test suggested by the father to out his father without hesitation. ed and with these facts staring us in the face, it is plain that we are in danger of having the soil depleted of is a balloonist and parachute jumper, with anger. its needful nitrates through the de- and when there are no circuses nor to the life of all upland plants and a struction of the organic matter, if the county fairs where his services are in en to the detention home last Octoland is allowed to remain too long demand he works as a cook in hotels ber and left there by Mrs. Edith M. tillage is suicidal. The soil must be with insufficient ventilation, as a re- and restaurants. For more than a Villaume Goebel, who told the matron ventilated. A crust on the surface of sult of poor drainage. This fact is em- year Lockwood has ben trying to find of the home that the boy was turned the soil, such as always follows irri- phasized in the works of all our soil his boy, but without success. A few over to her by an inmate of a resort experts. Prof. Goff, in his book, "The days ago he finished an engagement in Seattle, Wash. She asked the de-Principles of Plant Culture," sums the at the more hazardous of his two ocwhole matter up in this terse state- cupations in the south and came on to boy. ment: "Drainage promotes soil aeration by forming an outlet for the surplus water that would otherwise fill the cavities. Although moisture is essential to root growth, land plants do not prosper with their roots immersed in water. True, most plants may be to the perfect development of the grown in 'water culture,' i. e. with any of the party. The child picked and may be a cripple all his life. plant as irrigation. The Irrigation their roots from germination grown in farmers of the lower Rio Grande val- water that is freely exposed to the ley have been taught this by the evils air; but the roots of land plants soon resulting from the wants of drainage smother for want of free oxygen to carry off the surplus water after when the soil cavities are filled with flooding. They were rather slow in water, because the soil tends to pre-



# Was Bitten by Bloodthirsty Barbastel

getting help.



was too narrow for Rosle's buxom fig-EW YORK .- A large, feroclous, N bloodthirsty barbastel, which chirure, so she was compelled to crawl under a bench.

opterous mammal is probably more familiar to you under its Latin nickname of Synotus Barbastellus, caused a panic among the one hundred employes of Benjamin Fechter, a clothing manufacturer, when it flew through a window of the loft the other times. morning at 10 o'clock, and bit, scratched, clawed and tore the hair, eyes, ears and noses of several of the men and women working at the machines.

The barbastel is generally insectivorous or frugivorous, and is a first cousin of the big-eared Mega-der-ma- closet, gi-gis, which inhabits Australia. The barbastel in question, however, was decidedly carnivorous, and to judge from the way it tried to make a tencourse dinner from the physlognomy of Morris Binberg, one of the cutters. Binberg was the first one to see the barbastel as it flew into the shop. Binberg has nice fat cheeks and the ter, who dived under his machine too by the hair and Binberg started to do necked bottle. a Marathon around the room, shrieking for help at the top of his lungs, while women fainted, and of course, it follows that strong men grew pale. The other employes ran out of the room in a panic, but as they couldn't went back to work.

Finally Mr. Barbastel was cornered and clapped under an empty box, and some 5 or 18 people sat on top to make sure that it didn't escape,

was an eagle and that she had often

seen its species in Russia, but the

In the meanwhile Binberg had grab-

bed a stick and tried to beat the bar-

bastel, who was devouring the hair

tonic on Binberg's curly locks. He

managed to hit the barbastel once,

after having bruised himself a dozen

Manager Joseph Blankford was

dancing around in a frenzy, crying,

"B-b-b-b-barb-b-b-bastel, b-b-beat it,"

but the feroclous animal couldn't un-

derstand Yiddish and transferred his

affections from Binberg to Blankford.

Joe won by a nose in the race for a

Mr. Fechter returned from a business call, and found his employes completely metrogrobolized by the awful encounter. Cautiously lifting up the box, he looked within and began to laugh as though he would burst barbastel made straight for the cut- a blood vessel. His employes were aghast when Mr. Fechter grabbed the late. The terrible animal caught him animal and shoved it into a wide-

> "What is it, a-neagle?" asked Rebecca Zuckerman.

"Oy oy," said the employes, and

Finds Young Son After a Long Search

DENVER.—"There's my papa," said four-year-old Frederick Eugene Lockwood, pressing his face against the window-pane of one of the rooms dren. A minute later the boy had his both father and son were crying with prove that he was the boy's parent.

Frederick H. Lockwood, the father,



This time he was successful, but heard a story that made his blood boil

Little Frederick Lockwood was tak-

tention home to take charge of the

### NO OBJECTIONS FROM TONY

#### "Lovable Little Chap" Probably Would Not Have Minded a Succession of Tunnels.

Being Sunday evening, and the races having taken place that afternoon, the trains were packed. In one compartment a little boy had been standing all the way, but before the journey had proceeded much farther Mrs. Jones kindly took him on her knee,

"Were you very frightened, dear, as pronounce the name of the bloodwe passed through the tunnel?" the thirsty animal they did not succeed in gentle lady asked.

"Not much," replied the little boy, Rosle Goldstein tried to slip under shyly.

the safe, saying that the barbastel "But I thought you trembled a little as I kissed you," remarked Mrs. Jones, who was not even middle-aged yet. space beneath the bottom of the safe 'And what's your name?"

"Tony," came the answer. "Then you're a very lovable little chap! And how old are you?"

"Twenty-five, ma'am." And Tony Spurs, the lightweight jockey, slid to the floor to the accompaniment of a piercing scream .- Apwers.

### PHYSICIAN SAID ECZEMA CAME FROM TEETHING

"When my little girl was about eight months old, she was taken with a very irritating breaking out, which came on her face, neck and back. When she first came down with it, it came in little watery-like festers under her eyes, and on her chin, then after a few days it would dry down in scaly, white scabs. In the daytime she was quite worrysome and would dig and scratch her face nearly all the time.

"I consulted our physician and found she was suffering from eczema, which he said came from her teething. I used the ointment he gave me and without any relief at all. Then I wrote for a book on Cuticura, and purchased some Cuticura Soap and Ointment at the drug store. I did as I found directions in the Cuticura Booklet, and when she was one year old. she was entirely cured. Now she is three years and four months, and she has never been troubled with eczema since she was cured by the Cuticura Soap and Cutlcura Ointment. (Signed) Mrs. Freeman Craver, 311 Lewis St., Syracuse, N. Y., May 6. 1911. Although Cutlcura Soap and Ointment are sold everywhere, a sample of each, with 32-page book, will be mailed free on application to "Cutisura," Dept. L, Boston.

'Twixt Satan and the Sea. Doctor-You are in pretty bad shape. You must stop going to those cheap restaurants.

Patient-But, doctor, the prices at the other places would make me still sickness.

#### The Ugly Brute.

"See that measuring worm crawling up my skirt?" cried Mrs. Bjenks. "That's a sign I'm going to have a new dress.'

"Well, let him make it for you," growled Mr. Bienks. "And while he's about it, have him send a hookworm to do you up the back. I'm tired of the job."

### When Your Eyes Need Care

Try Murine Eye Remedy. No Smarting-Feela Fine-Acts Quickly. Try it for Red, Weak, Watery Eyes and Granulated Eyelida. Illus-trated Book in each Fackage. Murine is compounded by our Oculists- not a "Patent Med-loine"-but used in successful Physicians" Prac-tics for many years. Now dedicated to the Pub-lic and sold by Druggints at 20c and 50c per Bottle. Murine Eye Salve in Aseptic Tubes, Sie and 50c. Murine Eye Remedy Co., Chicago

In this present world there is only one thing which will content it, and that is music which sighs for the Iseal.-Pascarel.

A long life and a merry one may be ex-pected by those who use Garfield Tea, the natural berb regulator. For sale at all drug stores.

Many a man can't afford to dress well because his wife does.

Smokers find LEWIS' Single Binder 5e cigar better quality than most 10c cigars.

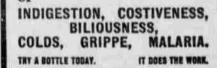
Bad luck is often but another name for poor management.



It is impossible to find a better or more reliable remedy than the famous

## HOSTETTER'S STOMACH BITTERS

We guarantee it absolutely pure and you will find it a great benefit in cases of









"No, you blockheads; it's only a bat," said Mr. Fechter.

F16.2

Fig. 2. Roots Grow Deep in Well-Drained Soil and Are Not Affected by Drought.

plants suffer as a result of the soll becoming waterclogged, making it impossible for the roots to obtain oxygen and the plants are drowned. The dressed, a very difficult thing for the position of the water table is important. Where it lies deeply, plant roots may delve to a considerable depth the poultry business are the things without injury. But where it is shallow the plants cannot perfect a complete and sturdy root system. Drainage will lower the water system and feed mangers and other places that increase the space for a more perfect ought to be kept clean, nail a small development of plant root system.

The farmers on irrigation land are tion water is largely responsible for especially warned against further the appearance of alkali in the Rio neglect of drainage. Delay is suicidal, Grande valley. Alkali will never be Procrastination is not only the thief of time, but a robber filching the possitem of drainage is installed. To avoid bilities of success from the farmer the appearance of alkali should not be whose lands are saturated with alkali water.

The best producers are not always

Gentleness counts much with chick-

ens, as it does with other birds and

The necessity for fresh air has led

All brooders and brood coops should

Hot mashes on cold days are on the feeding program of many successful

Eggs and fowls used in the home

When the white of an egg is watery

Chickens should have good food

and plenty of it, as well as clean.

This is a good time to figure up ac-

counts for the year and see what the

Young geese are not to be picked

The things which are important in

which are deemed the least important

To keep poultry from roosting over

wire four inches above the board.

the first year, unless you sell them

chicken business has done for us.

it shows that one is not feeding a

should be credited at market prices.

be thoroughly cleaned and put away

to the great popularity of the open

the best market fowls.

animals.

front houses.

for the winter.

poultry raisers.

This is only fair.

novice to do.

by the big raisers.

good, well-balanced ration

fresh water and clean coops.

Denver to make another effort to find the boy.

When the child was undressed at the detention home it was found that When he asked for the custody of his left arm was broken, his left colthe child he suggested a test to prove | lar bone dislocated and that his body that he was the boy's father. He was covered with marks and bruises. stood, with several other men, outside He was sent to the county hospital, the home and the boy was taken to and from there to the state home. He

a window and asked if he recognized has never recovered from his injuries,

## Ants' Nests Divert Fashionable City



DARIS .- With the approach of spring well-known singer. the rage for novelty has descended on fashionable Paris. On all sides an immense success is a dog's trainnew forms of the entertainment of ing college, which was opened in the guests and new ways of doing things are being subjected to experiment. One of the most curious of the new fashions is the ants' nest craze. No hostess thinks a drawing room complete unless it contains a glass case inside of which are a few.pounds of earth, a large number of ants and their eggs, and a supply of more or less suitable food. Guests are provided with magnifying glasses and are invited to watch the industrious insects carrying on their domestic and civic duties, much as if still in a country field.

To vary the program the ants are made to engage in a pitched battle as one swarm is introduced into the nest of another. Invaders and invaded lock in fierce combat, and a hastily improvised hospital and ambulance service for the injured is organized by the non-combatants. This idea was introduced into Paris society by a

Another innovation which is having most fashbonable quarter of Paris. Here a society woman's dumb friend is lodged, fed, and educatetd in all that he should and should not do at the triffing fee of about \$30 a month. though day pupils are admitted at a lower rate.

Many graceful accomplishments are imparted in the course, which is diided into school and college grades, and diplomas are awarded on a certain standard of proficiency being attained. It is jokingly said that the time-honored French polish is going to the dogs.

# Old Mansion May Be Sold for Taxes

C HICAGO.-Remnants of what once was the Reber mansion, Chicago's pride in ante-bellum days, will be sold for taxes by Cook county some time in March. For forty years county, state and city have attempted unsuccessfully the collection of taxes on this last vestige of the Reber estate.

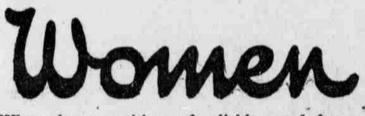
And the proceeding will not be without its pathos and romance. By It the home will be sold over the head of Gertrude V. Reber Backus, who in her eighth decade of life is alone in the world. In her eighty years she has seen the mansion of old transformed into a forfeited hovel.

The property is at Ellis avenue and East Fortieth street, in the heart of a choice residence district. Lots of 50foot frontage there are valued at \$10,000. Tax complications have de- notices were served with no effect. stroyed title to the Reber property Court procedure had as little effect. and Mrs. Backus has been clinging to The gray-haired defendant let everyher home in the face of impending thing go by default and held steaddispossession.



For thirty years tax buyers have grasped the Reber property at each delinquent tax sale. In those years the residence, with its site, was accepted as a good risk by tax buyers. As years went by and the aged owner clung persistently to her abode, even

in defiance of law, the tax buyers abandoned it as a bad proposition. Since 1901 the county has levied on the property regularly. Delinquency fastly to her abode.



When shown positive and reliable proof that a certain remedy had cured many cases of female ills, wouldn't any sensible woman conclude that the same remedy would also benefit her if suffering with the same trouble?

Here are five letters from southern women which prove the efficiency of Lydia E. Pinkham's Vegetable Compound.

### LETTER FROM VIRGINIA.

Elliston, Va.—"I feel it my duty to express my thanks to you and your great medicine. I was a sufferer from female troubles and had been confined in bed over one third of my time for ten months. I could not do my housework and had fainting spells so that my husband could not leave me alone for five minutes at a time.

"Now I owe my health to Lydia E. Pinkham's Vegetable Compound and Blood Purifier. Whenever I see a suffering woman I want to tell her what these medicines have done for me and I will always speak a good word for them."-Mrs. ROBERT BLANKENSHIP, Elliston, Montgomery Co., Va.

#### LETTER FROM LOUISIANA

New Orleans, La.—"I was passing through the Change of Life and be-fore I took Lydia E. Pinkham's Vegetable Compound I was troubled with hot flashes, weak and dizzy feelings, backache and irregularities. I would get up in the morning feeling tired out and not fit to do anything. "Since I have been taking your Compound and Blood Purifier I feel all right. Your medicines are worth their weight in gold."—Mrs. GASTON BLONDEAU, 1541 Polymnia St., New Orleans, La.

### LETTER FROM FLORIDA.

Wauchula, Fla.—" Some time ago I wrote to you giving you my symp-toms, headache, backache, bearing-down, and discomfort in walking, caused by female troubles.

'I got two bottles of Lydia E Pinkham's Vegetable Compound and a package of Sanative Wash and that was all I used to make me a well woman. "I am satisfied that if I had done like a good many women, and had

not taken your remedies, I would have been a great sufferer. But I started in time with the right medicine and got well. It did not cost very much either. I feel that you are a friend to all women and I would rather use your remedies than have a doctor." — Mrs. MATTIE HODNOT, Box 406, Wau-chula, Florida.

### LETTER FROM WEST VIRGINIA.

Martinsburg, W. Va .--- 'I am glad to say that Lydia E. Pinkham's Vego-

table Compound has done wonders for my mother, daughter and myself. "I have told dozens of people about it and my daughter says that when she hears a girl complaining with cramps, she tells her to take your Com-pound."-Mrs. MABY A. HOCKENBERRY, 712 N. 3rd St., Martinsburg, W. Va.

### ANOTHER LETTER FROM VIRGINIA.

Newport News, Va .- "About five years ago I was troubled with such pains and bloating every month that I would have to go to bed. "A friend told me to take Lydia E. Pinkham's Vegetable Compound and

I soon found relief. The medicine strengthened me in every way and my

doctor approved of my taking it. "I will be glad if my testimony will help some one who is suffering from female weakness."-Mrs. W. J BLAYTON, 1029 Hampton Ave., Newport News, Va.

### Why don't you try this reliable remedy?

