



Improving a Pasture Spring.
The ordinary pasture spring is likely to be a mudhole, furnishing water totally unfit for the use of cattle, especially milch cows, says the American Agriculturist. A plan is shown in the sketch for keeping a pasture spring pure, for by its use neither droppings nor the feet of cattle can get into the spring. The front of the spring is laid up with rough stones and cement, an iron pipe with an elbow being laid under the stones, the elbow coming up inside as high as the water is to stand when the work is completed. The pipe is carried away from the spring a sufficient distance to secure dry footing around the watering place. It may be found necessary to line the sides and back of the



spring with a thin coat of cement, to prevent leaking, but this can easily be done. In fact, it would be well to line the whole interior of the reservoir except the opening where the water enters.

Practical Farm Writers.
It is to be regretted that many of our farmers and stockmen who are best fitted to do their brethren good through the farm papers are so backward about putting their pens to paper. We know many men whose long experience and careful, intelligent observation have made their judgment on certain matters of great interest and value; yet they could not be induced to write an article for the paper, says National Stockman. And we know others who have no farms, never had, and never will have unless as a gift, who are willing and think they are able to instruct practical farmers through the press—at so much per line or per column. Every farm paper has too many (one is too many) of the latter, and too few of the former on its list of contributors.

The obstacles in the way of the average practical man who thinks of writing for the paper are more imaginary than real. He is apt to distrust his ability to say things just right, or to spell just right; or he is likely to consider that it is too great an undertaking for him. This is a mistake. There is no danger that the man who knows what he is talking about will make any serious blunders when he writes. If he can tell a thing to his neighbor across the fence, he can tell it to a man across the continent. All that is necessary is to write a plain, simple account. Never mind about the spelling. Don't let the punctuation scare you out. The editor can attend to these. Have something to say, and say it as simply, clearly and briefly as possible. This is the sum total of a good article.

Convenient Barn Truck.
The accompanying illustration shows an easily made and convenient truck for the feeding floor of the barn. Four wheels can be sawed from a hard-wood plank, and mounted, as suggested. There is a chance to put on sides and



HANDY BARN TRUCK.

ends to the platform, thus forming a box upon the truck, in which mixed feed can be wheeled about to the mangers and shoveled out to the individual animals, or the sides can be omitted and a box placed on the platform when needed. Such a truck will be found a labor-saving device in feeding the stock, especially if a large number of animals is kept. Iron trucks can be procured very cheaply at a hardware store, and will prove much more serviceable, if one does not care to cut out wooden wheels.—Orange Judd Farmer.

Stick to the Hog.
During the winter of 1891 pork went begging for buyers, and pigs of 80 to 90 pounds glutted the market. Two years later pork rose up to the highest point in the live stock market. Why? Because the corn cribs of the West were empty. Will they always remain full, now, and hereafter? If you have good pigs, keep them well. If you do not have good ones, get some while they are cheap and breed better ones. Take care of your skin milk and buttermilk and whey, as if it were worth 30 cents a hundred pounds. Feed it to the best advantage, and get the pig up to 160 pounds in prime condition. The market wants him, is crying for him, at prices a little over the cost of production. Sell the corn at 25 cents a bushel in his carcass, and save the manure to pay for labor and make the

old farm smile. And, above all, don't be sold out these days, when the craze for lean pigs is on deck. Keep a full supply to replace those that are gone, so that not a pound of by-product will go to waste, and lay your plans for winter and spring breeding.

Whitewash Almost Equal to Paint.
The Government whitewash is made as follows: Take half a bushel of unslaked lime, slake it with boiling water, cover during the process to keep in steam, strain the liquid through a fine sieve or strainer, and add to it a peck of salt, previously dissolved in warm water, three pounds ground rice boiled to a thin paste and stirred in while hot, half a pound of Spanish whiting, and one pound clean glue, previously dissolved by soaking in cold water and then hanging over a slow fire in a small pot hung in a larger one filled with water. Add five gallons hot water to the mixture, stir well and let it stand a few days, covered from dirt. It should be applied hot, for which purpose it can be kept in a kettle or portable furnace. The east end of the President's house at Washington is embellished by this brilliant whitewash. It is used by the Government to whitewash lighthouses. A pint of this wash mixture, if properly applied, will cover one square yard, and will be almost serviceable as paint for wood, brick or stone, and is much cheaper than the cheapest paint. Coloring matter may be added as desired. For cream color add yellow ochre; pearl or lead, add lamp or ivory black; fawn, add proportionately four pounds ofumber to one pound of Indian red and one pound common lampblack; common stone color, add proportionately four pounds raw umber to two pounds lampblack.

Oats for Feeding.
There is reason for the fact that in proportion to their weight oats sell higher than any other grain. They are worth more pound for pound than corn, not only because they are more nutritious than corn and their nutriment is therefore more easily digested, but because also the hull of the oat gently excites the lining of the stomach, and thus aids digestion of all food in it. When both proteins and carbon go into the stomach the carbon is better digested, because the system gets the nutrition it needs, and all parts operate more vigorously. With oats, oil meal and cotton-seed meal and wheat bran or middlings, much straw can be fed and give good returns. Try to feed straw alone, and most animals will slowly starve, because they cannot digest enough of it to keep up animal heat, and repair the waste of fats which existence implies in all living creatures.

Beets Grown from Buds.
Every one who has handled nature beets knows that near the crown are small knots with a leaf attached. These are buds, which, if the beet is planted in the spring, will bear branches and produce abundant seed. But if detached from the root, these buds will each grow into a beet, and quicker than the same beet can be grown from seed. This, however, is no very important advantage, as on a large scale early beets can be cheaper grown in a corner of the greenhouse. The gain is mainly in keeping the variety true to itself, when a strain of sugar beets containing more saccharine matter has been produced. The budded beet continues the same characteristics, just as the potato grown from buds does. But the beet from seed reproduces itself very nearly, and there is by growing from seed a constant chance to increase its sweetness.

The Pig Pen.
Keep size and growth foremost in your calculations—all you can get with good quality.

Have a separate sleeping and living department in your pig house, and have the bed higher if possible than the floor. When you start in to fatten hogs don't cram the corn into them all at once—all they will eat—but begin small and gradually increase the quantity.

American breeders have developed hog breeding wonderfully. The science of breeding and feeding has given us a model hog, that matures in eight months, and converts our cheap grain crops into the best pork in the world. Worms are not infrequently the cause of losses, preventing hogs from making the gains they otherwise would. If given free access to salt and ashes at all times, they will have but little trouble from this source. Charcoal is a corrective for the digestive organs.

More roots, grass and green food and less corn in growing our pigs will develop more vigor and produce better meat. Every farm should produce turkeys, carrots, parsnips, potatoes and beets for the stock, and give the pigs a good supply in winter and early fall along with the corn.

Dairy Dots.
Large cows must have more feed than small ones.

The cow that gives a good return for the food consumed is the cow for profit. Leaves not only make a splendid bedding for the dairy cows, but they add to the value of the manure.

A poor process of manufacture will spoil the product of the finest cream ever collected from milk.

If you are not getting the full average amount of butter from the cows, ascertain what is the matter.

The first month of milking will decide the question of whether the heifer should be kept in the dairy or turned to the butcher's block. A Michigan cheese factory has sent out the following pointers to its patrons: Filth cannot be strained from milk. Milk will catch and hold bad odors from stable, wood house and filthy yards. The best milk, if shut into a can tightly when warm, will spoil inside of three hours.

BURNED TO DEATH
Awful Fate of the Wife of a California Mining Engineer.

San Francisco, Dec. 24.—C. W. Haskell, superintendent of the Savannah mine at Grug Gulch, in Madera county, has arrived in this city with the remains of his wife, who was burned to death last Thursday night. The body will be placed in a vault here preparatory to sending it to New York city for burial in the Trinity church graveyard. The lady was a daughter of the late Dr. Livingstone, of New York, and a relative of the Vanderbills and Kisms. She was married five years ago in Denver to Mr. Haskell, who is a graduate of the United States naval academy at Annapolis, and was for a number of years connected with government engineering work in various parts of the country. Mr. Haskell's hands were badly burned in attempting to smother the fire in his wife's clothing. She had placed a candle on a box in the kitchen of the house and got upon another box to get some cake and other food to prepare a luncheon for her husband and herself. The bottom of her clothing touched the candle, and in a moment her dress was in a blaze. She ran screaming out into the yard toward her husband's office, where he was engaged writing a letter. Seizing a blanket from a bed in the office, he ran to his wife's assistance and tried to smother the blaze. He was only partially successful in this effort, and only succeeded in extinguishing the flames with a bucket of water. He carried the dying woman into the house and attempted with the remedies at hand to alleviate her agony, but she died twenty-four hours after the accident.

WILL HANG FOR IT.
Two McCann Brothers to Pay the Death Penalty.

Olympia, Wash., Dec. 24.—Two more names were today added to the list of names of men who must pay the death penalty at an early day in King county, the supreme court having affirmed the judgment of the lower court in the case of the state vs. Michael, James and John McCann. Michael, the father, and John and James, sons, were charged with killing a man named Cicero, August 21, 1895. At the trial in the lower court, the father was acquitted and the brothers were found guilty of murder in the first degree. James McCann was a candidate for road supervisor, and Cicero opposed him, and much bad blood existed between the families for some time preceding the crime. The morning of the 21st Michael picked a quarrel with Cicero, while the latter was working on the road. In the afternoon, the McCann boys renewed the quarrel, and James knocked Cicero down. Cicero went home and got a rifle. The two brothers followed. Cicero shot James in the arm, and they grappled, both falling. John dragged Cicero out and shot him in the head with a pistol. The defense made a strong fight in the lower court, and upon appeal raised many objections at every stage of the proceeding, from empowering the jury to the charge by the trial judge. However, the court finds no error in the proceedings of the superior court, and affirms the judgment. In the opinion, written by Judge Scott, and concurred in by all of the justices, the belief is expressed that there was sufficient evidence against Michael to warrant his conviction with his sons.

DRANK WOOD ALCOHOL.
And the Wonder is That Any of the Basals Recovered.

Mattoon, Ill., Dec. 24.—Two deaths, the result of alcoholism, have occurred, and several men are under the care of physicians, and more deaths may be announced. A number of young men, ranging from 17 to 23 years of age, and belonging to a club having rooms in a business block, started in on a holiday celebration last Sunday. One young man supplied the crowd with crude alcohol, and the youths compounded a mixed drink of alcohol, water, sugar and cinnamon drops. About half a gallon of alcohol was used, and several gallons of the mixture were consumed. Some of the partakers became intoxicated, and yesterday John Madison died. This evening Bert Wellman died in convulsions. The investigation of the coroner's jury brought to light that the alcohol had been taken from the Mattoon gas works, and is what is known as wood alcohol, considered to be a deadly poison if taken in any quantity. Physicians express surprise that any of the young men survived.

By His Own Hand.
Parsons, Kan., Dec. 24.—E. H. Hunsacker, chief train dispatcher of the Missouri, Kansas & Texas railroad here, committed suicide today by shooting himself with a revolver. He had been drinking to excess.

Let's take hold hands, Mr. Grocer, and dance! We've got some beautiful business for you and with you, and for and with your customer. Schilling's Best is the tea. Pay every customer's money back that don't like it. We'll pay you. There's money in it.

BRIEF PACIFIC COAST NEWS

A Resume of Events in the Northwest.

EVIDENCE OF STEADY GROWTH

News Gathered in All the Towns of Our Neighboring State.—Improvement Noted in All Industries.—Oregon.

The sheep inspector of Benton county says there are very few scabby sheep in that county.

Prominent men in Heppner say that they will build a telephone line from Heppner to Loug Creek, in Grant county, if they can arrange for a satisfactory bonus.

The legal complications that have so long arrested the operations of the Divilbis quartz mill in Coos county, have finally been satisfactorily adjusted, and the miners of the Johnson creek district will now have free use of the mill.

Superintendent Morrison, of the Western Union construction department, has finished receiving and storing at Flavel 2,000 poles for the main telegraph line between Astoria and Portland. It required two acres on which to stack this material.

While leveling off the grounds about the house on his Blind Slough ranch, in Clatsop, Martin Impo found buried two feet in the earth an Indian stone weapon, shaped like a ship's marlin spike, having a hole bored through the handle, which had evidently been made by a stone implement, says the Astorian.

Some very old residents claim that Rogge river was up where the Grant's Pass depot now stands in 1802. The river bed has deepened and widened very much since then, and there is very little probability that it will ever overflow its left bank again. The winter of '02 made gullies and gulches where all was level before.

Fully 100 men are hard at work along the Alderbrook water front cutting wood for their winter's use, says the Astorian. During the recent freshet hundreds of cords of wood, and about 2,000 shingle bolts from the Cowlitz river were thrown upon the beach. It was an interesting sight to see these men cutting huge logs into stove-wood lengths, and rolling them up the beach to their homes. They used a large instrument like a pair of ice tongs with which to drag the logs along.

Fisher and William Logan, brothers, were caught out in the cold snap of last month in Crook county, while driving cattle. They left their cattle and tried to reach the cabin that was their destination, but, thinking they could not find it, they built a fire under a rimrock and remained there all night. It was the coldest night, and others who were out say it was thirty-four degrees below zero. The men made themselves as comfortable as they could. They had no blankets, and while sitting around the fire both fell asleep, and after awhile young Logan was awakened by his clothes catching on fire. On waking up he found that both of his feet were frozen. They also discovered when daylight came that they were in sight of the cabin.

Washington.

There are said to be fully 500 cases of measles reported and unreported in Walla Walla.

The Northern Pacific Railway Company paid \$9,008.60 taxes into the Lewis county treasury last week.

Burglars attempted to open the safe in the office of Indian Agent Erwin, at Fort Simcoe, one night last week, but failed to get away with anything of value.

The United States revenue cutter Bear has been taken to Quartermaster harbor to be put on the drydock for repairs to her hull. A \$5,000 contract has been let, and extensive repairs are to be made.

Work will be resumed at the Cowee-man shingle mill, in Cowlitz county, as soon as the water recedes sufficiently to permit of it. Attorney Fisk will have charge of the plant. It is the intention of the company to pay off all claims as soon as possible.

A mandamus sued out to compel the commissioners of Jefferson county to make a special levy to pay certain road warrants was quashed last Saturday at Port Townsend. The effect of the decision is thought to be to invalidate the road warrants issued under the law of March 7, 1890.

It is estimated that to build the telephone line from Eastern Washington to Puget sound points it will take 16,000 poles, 1,884 miles of No. 10 hard-drawn copper wire, 15,000 cross-arms and braces and 32,000 pins and insulators. The estimated cost of material and labor is \$72,000.

The Washington Mining Company has been incorporated for \$1,000,000. The stock is divided into a million shares of the par value of \$1 each. The trustees for the first six months are J. Lynch Montgomery, of New York; Ralph L. Clarke and T. E. Jefferson, of Spokane, and John L. Retallack, of Kaslo.

The last season's work at Hall & Bishop's logging camp, in Clallam county, is one to be proud of. At the beginning of the year two miles of railroad were put down, and since then the loggers have been busy getting out logs. The season's cut amounted to 7,000,000 feet, most of which was towed to Hadlock, and from there was distributed to different points on the Sound and British Columbia. Forty men were employed in the camp throughout the year, at an average of \$2.50 per day.

READY FOR BUSINESS.

With a very active, energetic working-man, or a man of business, a cane or crutch is a sign of some infirmity, but he will have to use one or both if sciatica sets in and disables his hip. Worse than all this, he may be bed-ridden for a long time, and still worse, may be obliged to resort to surgical treatment. Why all this should be endured when the trouble can be easily cured must be because he does not know that St. Jacobs Oil, the great remedy for pain, is a special cure for this very much dreaded malady. It has proved itself the most soothing and penetrating remedy for reaching the sciatic nerve and effectually curing its agonies that has perhaps ever been tried.

A flowering plant is said to abstract from the soil two hundred times its own weight in water.

BOONE DOWN WITH INFIRMITIES
Age finds its surest solace in the benignant tonic afforded by Hostetter's Stomach Bitters, which counteracts rheumatic and malarial tendencies, relieves growing inactivity of the kidneys, and is the finest remedy extant for disorders of the stomach, liver and bowels. Nervousness, too, with which old people are very apt to be afflicted, is promptly relieved by it.

The human race is but a contest of dollars.

Two bottles of Pilo's Cure for Consumption cured me of a bad lung trouble.—Mrs. J. Nichols, Princeton, Ind., March 20, 1895.

HOIT'S SCHOOL FOR BOYS.
This school is located at Burlingame, San Mateo county, Cal., in charge of Ira G. Hoyt, Ph. D. It is accredited at the State and Stanford Universities, and is one of the best of its kind. Twelfth term begins January 4, 1897.

STATE OF OHIO, CITY OF TOLEDO, ss. Lucas County.

FRANK J. CHENEY makes oath that he is the senior partner of the firm of F. J. CHENEY & CO., doing business in the city of Toledo, County and State aforesaid, and that said firm will pay the sum of ONE HUNDRED DOLLARS for each and every case of CATARRH that cannot be cured by the use of HALL'S CATARRH CURE.

Sworn to before me and subscribed in my presence, this 6th day of December, A. D. 1895.

A. W. GLEASON, Notary Public. Hall's Catarrh Cure is taken internally, and acts directly on the blood and mucous surfaces of the system. Send for testimonials, free. F. J. CHENEY & CO., Toledo, O. Sold by druggists, etc. Hall's Family Pills are the best.

A million acres of forest are out down every year to supply European railway companies with sleepers on which the lines are laid.

I WANT YOU TO UNDERSTAND THAT I'LL HAVE NOTHING BUT THE GENUINE BLACKWELL'S DURHAM!

You will find one coupon inside each two ounce bag and two coupons inside each four ounce bag of Blackwell's Durham. Buy a bag of this celebrated tobacco and read the coupon—which gives a list of valuable presents and how to get them.

Cheapest Power....
Rebuilt Gas and Gasoline Engines.
.....FOR SALE CHEAP

405-7 Sansome Street
San Francisco, Cal...

Eczema All Her Life.
Mr. E. D. Jenkins, of Lithonia, Ga., says that his daughter, Ida, inherited a severe case of Eczema, which the usual mercury and potash remedies failed to relieve. Year by year she was treated with various medicine, external applications and internal remedies, without result. Her sufferings were intense, and her condition grew steadily worse. All the so-called blood remedies did not seem to reach the disease at all until S.S.S. was given, when an improvement was at once noticed. The medicine was continued with favorable results, and now she is cured and well, her skin is perfectly clear and pure and she has been saved from what threatened to blight her life forever.

A Real Blood Remedy.
Take a blood remedy for a blood disease; a tonic won't cure it.
Our books on blood and skin diseases mailed free to any address.
Swift Specific Co., Atlanta, Ga.

SURE CURE FOR PILES
S.S.S. (guaranteed purely vegetable) cures Eczema, Scrofula, Cancer, Rheumatism, or any other blood trouble. It is a real blood remedy, and always cures even after all else fails.



Gladness Comes

With a better understanding of the transient nature of the many physical ills, which vanish before proper efforts—gentle efforts—pleasant efforts—in rightly directed. There is comfort in the knowledge, that so many forms of sickness are not due to any actual dislocation of the system, which the pleasant family laxative, Syrup of Figs, promptly removes. That is why it is the only remedy with millions of families, and is everywhere esteemed so highly by all who value good health. Its beneficial effects are due to the fact, that it is the only remedy which promotes internal cleanliness without debilitating the organs on which it acts. It is therefore all important, in order to get its beneficial effects, to note when you purchase, that you have the genuine article, which is manufactured by the California Fig Syrup Co. only and sold by all reputable druggists.

If in the enjoyment of good health, and the system is regular, laxatives or other remedies are then not needed. If afflicted with any actual disease, one may be commended to the most skillful physicians, but if in need of a laxative, one should have the best, and with the well-informed everywhere, Syrup of Figs stands highest and is most largely used and gives most general satisfaction.

OPIMUM HABIT AND DRUNKENNESS
Cured in 10 to 20 Days. No Fee but Cured. DR. J. L. STEPHENS, LEANING, CALIF.

FOR PEOPLE THAT ARE SICK OF NOT FEELING WELL, TRY IMPROVED LIVER PILLS
Only One for a Dose. Sold by Druggists at 25c. a box. Samples mailed free. Address Dr. Bennett Med. Co. Phila. Pa.

Hercules Gas Engine Works
312 Washington St., Portland, Or.
\$1.25—Knit Woolen Skirts, worth \$2. 15c—100 dozen Men's Gray Wool Half Hose, worth 25 cents. \$3.50—Ladies' Welt Kid Shoe, good value, \$5.50. Kid Body Bells, 10c, 25c, 50c and 60c. Dressed Dolls, 8c, 15c, 20c, 25c and 40c.

WHEAT. Make money by successful speculation in Chicago. We buy and sell wheat there on margins. Fortunes have been made on a small beginning by trading in futures. Write for full particulars. Best of references given. Several years' experience on the Chicago Board of Trade, and a thorough knowledge of the business. Downing, Hopkins & Co., Chicago Board of Trade Brokers. Offices in Portland, Oregon, and Spokane, Wash.

FRAZER AXLE GREASE
BEST IN THE WORLD.
For wearing qualities are unsurpassed, actually outlasting two boxes of any ordinary grease. For sale by OREGON and WASHINGTON MECHANICAL and Dealers generally.

FRASER AXLE GREASE
We will Leave It Entirely In your hands. If you purchase a FRASER AXLE GREASE, and it does not do all we say it will, you can return it at our expense. Send for Catalogue and Price List to American Type Foundry's Co., Second and Stark Sts., Portland, Or.

PISO-CURE FOR PILES
CURES WHERE ALL ELSE FAILS.
Best Cough Syrup, Tastes Good, Use in time. Sold by druggists.