

Fruit.
Its quality influences the selling price. Profitable fruit growing insured only when enough actual **Potash** is in the fertilizer.

Neither quantity nor good quality possible without Potash.

Write for our free book giving details.
GERMAN KALI WORKS,
25 Nassau St., New York City.

Meyer, Wilson Co., San Francisco, California, are sole agents for the Pacific coast.

FERRY'S SEEDS
For The Farmer and The Housewife

They cost a little more. They are worth a great deal more than the ordinary kind. Sold everywhere. See our list.

D. M. FERRY & CO.
Detroit, Mich.

If You Could Look
into the future and see the condition to which your cough, if neglected, will bring you, you would seek relief at once—and that naturally would be through **Shiloh's Consumption Cure**

Guaranteed to cure Consumption, Bronchitis, Asthma, and all Lung Troubles. Cures Coughs and Colds in a day. 25 cents. Write to C. C. Watson & Co., Le Roy, N. Y., for free trial bottle.

Karl's Clover Root Tea purifies the blood.

BALANCED RATIONS

"The Value of Feeds for Milk Production" was the topic presented for discussion to the recent Minnesota dairymen's convention by Professor Harry Snyder, chemist of the state experiment station. Present prices of feed, he said, are: No grade wheat, 62 to 70 cents per bushel; corn, 54 to 63 cents; oats, 45 cents; barley, 55 to 57 cents; cornmeal, per ton, \$23.75; bran, \$18.50; oilmeal, \$28.

At these prices wheat is a cheaper and more economical feed than corn. Tests show that when fed under the same conditions wheat and corn have, pound for pound, the same feeding value. Thus when wheat was fed in a ration at the rate of seven pounds, with six pounds of bran and one pound of oilmeal, the results were the same as when three pounds of corn and four pounds of barley were substituted for the wheat. To obtain the best results in feeding wheat it should be ground into a coarse meal and fed with other grains or milled products. Alone and whole it will be unsatisfactory.

When oats are fed under the same conditions, they are 10 per cent more valuable than bran for milk and butter fat production. At 50 cents a bushel barley is a cheaper and better milk producing food than wheat at 60 cents or than bran at \$18 per ton. In feeding barley it should be ground and mixed with other feeds the same as wheat.

Best results in feeding for milk production are obtained from a mixed grain ration. Thus equal parts by weight of ground barley, wheat, corn and bran will produce a larger yield of butter fat and of milk than the same weight of either fed alone. With the mixed grain ration the highest degree of digestibility is secured. Digestive experiments have shown a difference of over 20 per cent in the digestibility of the nutrients in corn in the way it was combined in the ration.

As to the quantity experiments have shown that the feeding of eight to ten pounds per day of grain gives more economical returns than twelve to fifteen pounds. There are animals and herds that can make good use of twelve or more pounds, but ordinarily the additional milk secured for feeding more than ten pounds a day does not pay for the additional feed.

When the best quality of coarse feeders are produced, it is not necessary to feed so large an amount of grain as when the feeders are poor. By good

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Anyone sending a sketch and description will receive a free estimate. Inventors are urged to secure patent protection before their ideas are divulged. Communications are handled confidentially. No charge for examination of patent. Patent fees paid. Patent secured. Patent secured. Patent secured.

Scientific American.
A handsomely illustrated weekly. Largest circulation of any scientific journal. Terms, \$5 a year. Four months, \$1.50. Single copies, 10 cents. Write to MUNN & Co., 361 Broadway, New York.

CASTORIA
For Infants and Children.
The Kind You Have Always Bought
Bears the Signature of *Wm. D. Mitchell*

WHAT ALCOHOL DOES.
It Ruins a Man's Business, Health, Home, Happiness and Brains.

Will any one deny that alcohol is not the chief cause of individual failures to properly make adjustments to the circumstances which underlie business and earning a living? Take the late Leslie E. Keeley. Ventures sent to sea, like ships, with alcohol in command or at the helm cannot mind the winds, take proper astronomical observation or sail the ship to the right port. More men fail in business or lose their employment by reason of drink than from all other causes. Alcohol ruins a man's business, health, his home, his happiness, his brains.

By any standard whatever there is no cause which equals alcohol in producing insanity. It moves in triumphal procession along every route of stress which leads to the human brain and mind. Like a flood, it submerges sense, reason and the will, as the deluge did the valleys and the hills. Like a demon, it inhabits the man's vitals and blows his breath of oblivion through his senses into that most wonderful of God's mechanisms, the higher brain centers. With drenching suggestion of cure it lies ambushed in the mother's remedy for ailments of her children, and hid in the darkness of nature's most incomprehensible secret, it reaches forth and touches the unfolding tissue that God is weaving into a human brain. That touch is degeneration.

Not yet content, it sits at the accountant's desk and blots his page with error. It takes the business routes over the traveled ways and writes the word "infamy" on the business man's advertisement. It seeks out his rivals and enemies and whispers to them the awful words of "betrayal." It seeks out his friends and teaches them to bow their heads in shame while murmuring the words of pity. When all business relations are broken and ruined, the tyrant of slaves

Losing Money at Three Cents.
My work has been with a dairy of ten fair native and grade Holstein grades, writes F. C. Davis of Massachusetts to New England Homestead. I buy and sell very little. I estimate that nine cents per cow per day for the year is all I am able to get and believe this amount is more than the average of cows producing milk for the Springfield market. The effective energy of one good man is used for the full year in raising crops for and in caring for a dairy of this size. I am feeding ten pounds of the following grain mixture per cow per day: One hundred pounds each of bran at \$1.15, middlings at \$1.25, cornmeal at \$1.35 and Chicago gluten at \$1.50, or \$1.31 for 100 pounds per day to the herd. Five per cent of the gross production is exacted to fill cans larger than ten quarts. I value my cows at \$45 each and figure depreciation at 10 per cent, as most manufacturers do, and get the following result, selling at 3 cents a quart:

Labor of one man, \$1.50; 100 pounds mixed grain, \$1.31; 5 per cent over-measure, 13½ cents; 10 per cent depreciation, one day, 12 1/3 cents; 6 per cent interest on \$45, one day, 7½ cents; total daily cost, \$3.14 7/10; credit, 90 quarts milk at 3 cents, \$2.70, which leaves a net loss per day of 44 1/2 cents. I figure the price of milk at 3 cents, while a large proportion of the Springfield milk was bought at the farm before Dec. 1 at 2½, 2½ and 2½ cents per quart. I offset the value of hay, grain, silage, roots, soiling crops and pasturage, except the cost of labor for raising and harvesting, against the manure used in raising farm crops other than those fed the cows.

London Streets.
The metropolitan police of London look after 8,200 miles of roads and streets.

A Great Jumper.
A book entitled "History of Wonders Performed at Fairs" mentions an Englishman who at the fair of St. Germain in 1724, leaped over the heads of forty people without touching one of them.

The Planetoids.
The planetoids, of which there are over 300 known, have all been discovered since Jan. 1, 1801.

Every Mother Knows
How hard it is to keep the children covered up at night. They will kick the quilts off and take cold. Do not give them medicine containing opium. Allen's Lung Balm, free from narcotic drugs, is never more useful than when it rids the children of cold and saves the mother's anxiety. It makes a friend of every one who uses it.

In going over the famous Shasta Route of the Southern Pacific Co., the traveler ever finds something new to excite his admiration and interest. Starting at Portland, one traverses the whole length of the Willamette Valley, the gem of the northwest. Mt. Hood, Mt. Jefferson, and the Three Sisters and other snow capped peaks are kept in sight for hours. The beautiful valleys of the Umpqua and Rogue rivers, with their orchards of pines, peaches and apples and other fruits are a delight to themselves. The crossing of the great mountain barrier between Oregon and California reveals the grandest mountain scenery in the United States. The wonderful turnings, twistings and doublings of the railroad bring into view a grand array of towering mountains and profound gorges into which we gaze from dizzy heights, forest clad mountain slopes stretching up to the line of perpetual snow, and the foaming mountain streams dashing fiercely down deep canyons, now and then stopping for a short rest in some quiet pool. After a days enjoyment of old Mt. Shasta, the finest peak on the continent, we drop rapidly down the canyon of the Sacramento to the broad plains of the Sacramento Valley in California, and then through vineyards and orchards to San Francisco. For maps and descriptive literature address R. B. Miller, general passenger agent, S. P. Co., Portland, Oregon.

Summons.
In the district court of the state of Oregon for the county of Polk,
vs.
W. F. Garrison and Eva Garrison, defendants.

My Advertising Partner.
A book that should be in the hands of every merchant and advertiser. It makes advertising a pleasure and a profit, and saves time, trouble and worry in preparing advertisements. Full of snappy headlines, catchy phrases, bright sayings and selling arguments, for all kinds of merchandise. Price \$1. Address: E. J. SALT, Columbus, Ohio.

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Prepared by J. C. Ayer & Co., Lowell, Mass., U.S.A.

A Perfect Remedy for Constipation, Sour Stomach, Diarrhoea, Worms, Convulsions, Feverishness and LOSS OF SLEEP.

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15 Doses in a Bottle.

EXACT COPY OF WRAPPER.

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vs.
D. D. Peters, plaintiff,
vs.
Helena Toews, Jacob W. Toews, Mary Toews, Mary Wiens, Cornelia Heibert, Heinrich Wiens, Cornelia Heibert, and David Peters, as administrators of the estate of Cornelius Heibert, deceased, defendants.

HE WON THE FIGHT.
A Pathetic Experience in John G. Woolley's Career.

A writer in the temperance column of Christian Work says that those who are wont to claim that it is easy for a man who is polluted with an appetite for strong drink to quit and stay quit should read the following bit of experience given by John G. Woolley. He says:

"I shall never drink again. But one night in a New England train and very ill I met a stranger who pitied me and gave me a quick, powerful drug out of a small vial, and my pain was gone in a minute or two, but alcohol was licking up my very blood with tongues of flame. I should have got drunk that night if I could. I thought of every thing of my two years of clean life, of the meeting I was going to, vouchered for by my friend and brother, D. L. Moody, whose faith in me had gone out into all the world; of the bright little

SCROFULA
I bequeath to my children Scrofula with all its attendant horrors and suffering. This is a strange legacy to leave to posterity; a heavy burden to place upon the shoulders of the young. This treacherous disease dwells in the blood and hinders the growth and development of the faculties, and the child born of blood poison, or scrofula-tainted parentage, is poorly equipped for life's duties. Scrofula is a disease with numerous and varied symptoms; enlarged glands or tumors about the neck and armpits, catarrh of the head, weak eyes and dreadful skin eruptions upon different parts of the body show the presence of tubercular or scrofulous matter in the blood. This dangerous and stealthy disease entrenches itself securely in the system and attacks the bones and tissues, destroys the red corpuscles of the blood, resulting in white swelling, a pallid, waxy appearance of the skin, loss of strength and a gradual wasting away of the body. S. S. S. combines both purifying and tonic properties, and is guaranteed entirely vegetable, making it the ideal remedy in all scrofulous affections. It purifies the blood, makes it rich and strong and a complete and permanent cure is soon effected. S. S. S. improves the digestion and assimilation of food, restores the lost properties to the blood and quickens the circulation, bringing a healthy color to the skin and vigor to the weak and exhausted body. Write us about your case and our physicians will cheerfully advise and help you in every possible way to regain your health. Book on blood and skin diseases free. THE SWIFT SPECIFIC CO., Atlanta, Ga.

RIPANS
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A MEDICINE WHICH PROLONGS LIFE.
"I have used Ripans Tablets for a number of years and would not be without them. I was troubled with indigestion and constipation, and have noticed since I have been regular that I am getting rid of those terrible bilious spells which used to bedevil me. I was sitting on the steps, when a neighbor came to me and remarked how bad I looked. I told him I had not got over the fever and that I was about to get something on account of indigestion, whereupon he had ordered some of the medicine. He advised me to take Ripans Tablets. I said I would try them, and soon I have been cured. I can eat anything, everything I feel like, and I feel as well as ever. I feel very thankful that I have found something that will prolong my life."

My head ached and my feet would be cold as ice. My bowels were not regular and I would have such cramps from gas forming on my stomach that I would not sleep. I was in such distress that I had to get up and walk about. I had not got over a bad spell of bilious fever and was very weak. My body was tired and weary. My brother recommended Ripans Tablets to me. My husband thought them good for me from the severe drug abuse and I would not use them. They relieved me of all the bad gases that formed in my stomach and they move my bowels regularly, for which I had been suffering since I was quite young. He advised me to take Ripans Tablets. I said I would try them, and soon I have been cured. I can eat anything, everything I feel like, and I feel as well as ever. I feel very thankful that I have found something that will prolong my life."

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WOMEN AND NARCOTICS.
What Dr. Norman Kerr Says Upon This Subject.

Dr. Norman Kerr writes as follows in Woman upon the constantly increasing use of narcotics by women: "Alcohol is the narcotic most fre-

quently used, and I could give you a formidable list of narcotics which women in all ranks of society are daily using—chloral, chlorodyne, ether, chloroform, less used by women in England than in America; sal volatile, eau de Cologne and so on. I have known ladies addicted to alcohol to drink three bottles of brandy a day. A bottle a day is by no means an uncommon quantity.

"I have had patients who had habituated themselves to two ounces—500 grains—of chloral as their daily allowance. Twenty grains of chloral, I may say, is a full medicinal dose. I have treated patients who have been in the habit of swallowing eight ounces of chlorodyne a day, and I have known ladies who could take a pint of chlorodyne in the twenty-four hours.

"Both tea and coffee are used in excess. I found a patient insensible in her room one day who had drunk nothing but tea. But she had consumed a pound of tea in the day.

"Tobacco in the form of cigars as well as of cigarettes is constantly resorted to."

Temperance Actions.
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Drink will make you blind to the pure and good and beautiful.
Drink will put you at many disadvantages in the race of life.

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One gives relief
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Bright's Disease.
The largest sum ever paid for a prescription, changed hands in San Francisco, August 30th, 1901. The transferee involved in coin and stock \$112,500 and was paid by a party of business men for a specific for Bright's disease and diabetes, hitherto incurable diseases. They commenced the serious investigation of the specific November 15th, 1900. They interviewed scores of the cured and tried it out on its merits by putting over three dozen cases on the treatment and watching them. They also got physicians to name chronic, incurable cases and administered it with the physicians for judges. Up to August 25th, eighty-seven per cent of the test cases were either well or progressing favorably. There being but thirteen per cent of failures, the parties were satisfied and closed the transaction. The proceedings of the investigating committee and the clinical reports of the test cases were published and will be mailed free on application. Address John J. Fulton Company, 420 Montgomery Street, San Francisco, California.

Temperance Actions.
Drink will make you a prey to vile imaginations.
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How Alcohol Poisons One.
Alcohol is a poison. It kills in large doses and half kills in smaller ones. It produces insanity, delirium, fits. It poisons the blood and wastes the man.—Professor James Miller, M. D.

Washing Knitted Goods.
Soap should never be rubbed on shawls or other knitted garments, but a good lather should be made of soap and warm (not hot) water and the articles pressed and squeezed in this till they are clean. They should be well rinsed in several waters of the same temperature as the suds. When the water has been pressed out (not wrung) as far as possible, let the shawl lie in a heap on a clean cloth to dry. Turn it about occasionally to expedite matters, but do not stretch it by hanging it up. If these instructions be carefully carried out, the shawl ought to be as soft and fluffy as when new.

Physical Attractions.
A woman is very foolish to undertake physical attractions. They have a power, as do the beauties of nature. She is also foolish to try too much stress upon them, since they are perishable. Mere beauty will never make the impression upon the world that a combination of beauty and brains always has and always will. Charming manners are an open sesame to the heart, whether or not they are accompanied by beauty.

Scorched Linen.
To restore scorched linen to a good consistency in half a pint of vinegar two ounces of fuller's earth and the juice of two onions. Spread the damaged part, and if the scorching is not quite through and the threads actually consumed, after allowing it to dry, the place will appear as white and as perfect as any other part of the goods.

To Make Glass Opaque.
If you want to shut off the view from any window, you can do it very cheaply by dissolving in a little hot water as much epsom salts as the water will absorb. Paint over the window while hot, and when dry you will have a very good imitation of ground glass.

The Baby's Spoon.
A pretty addition to the baby's personal belongings is the nursery spoon. It is so called because the bowl is etched with a scene from one of Mother Goose's rhymes, the most popular literature for little folks.

FEMININE CHAT.
Mrs. Roosevelt is very fond of white. The lady of the White House is said to have no less than a dozen handsome new gowns, all white.

Princess Ursula, the wife of the Russian ambassador in Paris, has written to the papers warning travelers against the organized system of robbery to which they are exposed on Italian railways.

Miss Helen Vanderbilt Wackerman, the young American beauty whose mind suddenly became unbalanced a few weeks ago in London, is now progressing satisfactorily toward recovery at a private asylum.

Mrs. William Gregory, wife of the late Governor Gregory of Rhode Island, has become the incorporate head of the mill business which the governor conducted for a great many years in a most successful manner.

Miss Elizabeth Allen Denison, "the Barren Priestess of Texas," died recently. She raised above her home in San Antonio the first Federal flag that floated in the state. The town of Denison, Texas, was named in her honor.

Mrs. Mapleson, widow of the once famous impresario, has been left practically unprovided for. Mrs. Mapleson is now upward of seventy years of age and is nearly blind. It is proposed to form a committee with the object of helping her.

Adelaide Ristori will be eighty years of age in a few weeks, when the actors of Rome will give a performance in her honor. Eleonora Duse, Novelli and Zaccanti will take part, and Goldoni's "La Locandiera," in which Ristori was famous in the title part, will be performed.

Croton Dam.
The Croton dam, which holds New York City's water supply, is 300 feet high, with a base of 210 feet.

Cautious Camels.
All camel drivers declare that when they take off and muffle the numerous bells with which the animals are adorned, to traversing a region infested by robbers, the creatures know they it is close and stop so lightly that they can pass unharmed within a few yards of a concealed enemy.

Gold and Silver.
Ninety-five tons of gold and 520 of silver are mined in a single year.

Sulphur.
Sulphur is used for chronic diarrhoea. For constipation sulphur will often be speedily relief.

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To restore scorched linen to a good consistency in half a pint of vinegar two ounces of fuller's earth and the juice of two onions. Spread the damaged part, and if the scorching is not quite through and the threads actually consumed, after allowing it to dry, the place will appear as white and as perfect as any other part of the goods.

To Make Glass Opaque.
If you want to shut off the view from any window, you can do it very cheaply by dissolving in a little hot water as much epsom salts as the water will absorb. Paint over the window while hot, and when dry you will have a very good imitation of ground glass.

The Baby's Spoon.
A pretty addition to the baby's personal belongings is the nursery spoon. It is so called because the bowl is etched with a scene from one of Mother Goose's rhymes, the most popular literature for little folks.

FEMININE CHAT.
Mrs. Roosevelt is very fond of white. The lady of the White House is said to have no less than a dozen handsome new gowns, all white.

Princess Ursula, the wife of the Russian ambassador in Paris, has written to the papers warning travelers against the organized system of robbery to which they are exposed on Italian railways.

Miss Helen Vanderbilt Wackerman, the young American beauty whose mind suddenly became unbalanced a few weeks ago in London, is now progressing satisfactorily toward recovery at a private asylum.

Mrs. William Gregory, wife of the late Governor Gregory of Rhode Island, has become the incorporate head of the mill business which the governor conducted for a great many years in a most successful manner.

Miss Elizabeth Allen Denison, "the Barren Priestess of Texas," died recently. She raised above her home in San Antonio the first Federal flag that floated in the state. The town of Denison, Texas, was named in her honor.

Mrs. Mapleson, widow of the once famous impresario, has been left practically unprovided for. Mrs. Mapleson is now upward of seventy years of age and is nearly blind. It is proposed to form a committee with the object of helping her.

Adelaide Ristori will be eighty years of age in a few weeks, when the actors of Rome will give a performance in her honor. Eleonora Duse, Novelli and Zaccanti will take part, and Goldoni's "La Locandiera," in which Ristori was famous in the title part, will be performed.

Croton Dam.
The Croton dam, which holds New York City's water supply, is 300 feet high, with a base of 210 feet.

Cautious Camels.
All camel drivers declare that when they take off and muffle the numerous bells with which the animals are adorned, to traversing a region infested by robbers, the creatures know they it is close and stop so lightly that they can pass unharmed within a few yards of a concealed enemy.

Gold and Silver.
Ninety-five tons of gold and 520 of silver are mined in a single year.

Sulphur.
Sulphur is used for chronic diarrhoea. For constipation sulphur will often be speedily relief.

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preserves and pickles, spread a thin coating of **PURE REFINED PARAFFINE**

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SOUTHERN PACIFIC

TIME TABLE

COVINGTON MAIL—DAILY

7:30 a. m. Lv.	Portland.....	Ar. 5:30 p. m.
11:45 a. m. Lv.	Berry.....	Ar. 5:14 p. m.
12:45 p. m. Lv.	Covington.....	Ar. 1:25 p. m.

At Albany and Coville connect with trains of Oregon Coast and Eastern railroad.

DALLAS PASSENGER—DAILY, EX. SUNDAY

7:00 p. m. Lv.	Portland.....	Ar. 5:30 a. m.
8:30 p. m. Lv.	Dallas.....	Ar. 6:10 a. m.

YAMHILL DIVISION:

Passenger depot foot of Jefferson street

Leave 5:15 a. m.	Portland.....	Arrive 2:00 p. m.
Leave 5:30 p. m.	Dallas.....	Arrive 9:00 a. m.
Arrive 3:00 p. m.	Attille.....	Leave 7:30 a. m.