OCTOBER 22, 1884.

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CHRISTIAN MESSENGEL.

FARM AND GARDEN. Roots as Food for Stock.

BY J. W. DARROW.

The value of roots as food ration for stock is not highly enough ap preciated by most of our armers While no one would recommend them to be fed alone for any length of time, none who have tried them but would admit that when fed in ish Pharmacopæia under the name connection with hay, or indeed with good oat straw, they are worth more than the cost of raising them. They are lacking too much in the nitrogenous element to make a complete ration, especially for cows in milk.

In order to understand their nutritive value, the following table may be taken as the result of analyses by eminent German chemists: Fat Woody Flesh

15.4

8.6

59 2.5

1.8

1.1

Water. Formers. Formers Fibre Sugar Beets. 81.5 1.00 1.54 1.44 Ruta-bagas...894 White Globe Turnips ... 90.4 1.14 2.9 20

A glance at the above estimates first by a long distance as a fata smaller percentage of water. All kinds of roots are good for stock. for the reason that they are good regulators of digestion, and thus keep the animal in a healthy condi-

with the Arabs, who are said to have taken it to strengthen the nerves : but I can remember the time when " balm tea" was drunk by the laboring classes in South Wales almost as freely as tea is now taken by English cottagers, and fectly clear and pure, without taste most certainly hysteria was at that period a disease unknown among the working classes. Not so now, alas !

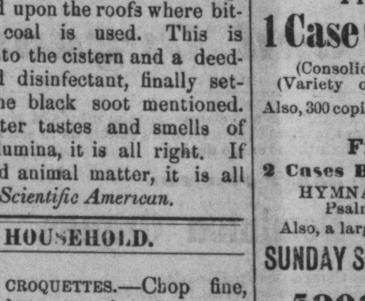
Dandelion is admitted into out Britof Taraxacum, and regularly prescribed in diseases of the liver and spleen; but the poor people were at one time accustomed to make a decoction with 'the the leaves when blanched are taken by

the French in salads. It is likewise a valuable antiscorbutic. People put great faith in the doctrine of signatures during the fourteenth and fifteenth centuries, but it is now nearly exploded. It was based upon the following hypothesis, that every natural production indicates by some obvious external mark the diseases in which it is efficacious; and for my own part I really believe that there is a great deal of truth in the idea that not only the colors of a flower, but various other will show that the sugar-beet ranks marks on leaves, stems, or roots are typical of their medicinal properties; former, at the same time containing for example, the spotted lungwort possthe scarlet poppy has been used with good effect in erysipelas, and the asarabacca. provincially called the foal's foot or wild ginger, with its curious ear-

shaped leaf, was formerly an untailing tion. This, on the whole may be remedy for all the pains that affect that

grown in our gardens from time immewith sand, compounded the glass morial, and the first record I can disthat lighted the window in the laborcover of its being used medicinally rests atory that Jack built .- London Chemical News.

Wo have lately had our cistern cleaned. The water seemed peror odor; but as it had gotten quite low, and as the cistern had not 04 been cleaned for several years, we thought it best to have it emptied and thoroughly cleaned. Since then the water has had a very bad taste and smell, which we can notice even after it has been through the filter. roots, which answered nearly as well Can you tell me why this is so? A. as the chemically prepared extract, and In cleaning your cistern you may have exposed the clean cement to the action of the water, which may have given it the taste of lime or alumina. As you do not tell us how it tastes or smells we cannot well solve the mystery. The soot that was found in the cistern was no doubt derived from the smoke of soft coal, which deposits carbonaceous matter with a little pyroligneous acid upon the roofs where bituminous coal is used. This is washed into the cistern and a deedorizer and disinfectant, finally settling as the black soot mentioned. esses healing powers in consumption, If the water tastes and smells of lime or alumina, it is all right. If of decayed animal matter, it is all wrong .- Scientific American.

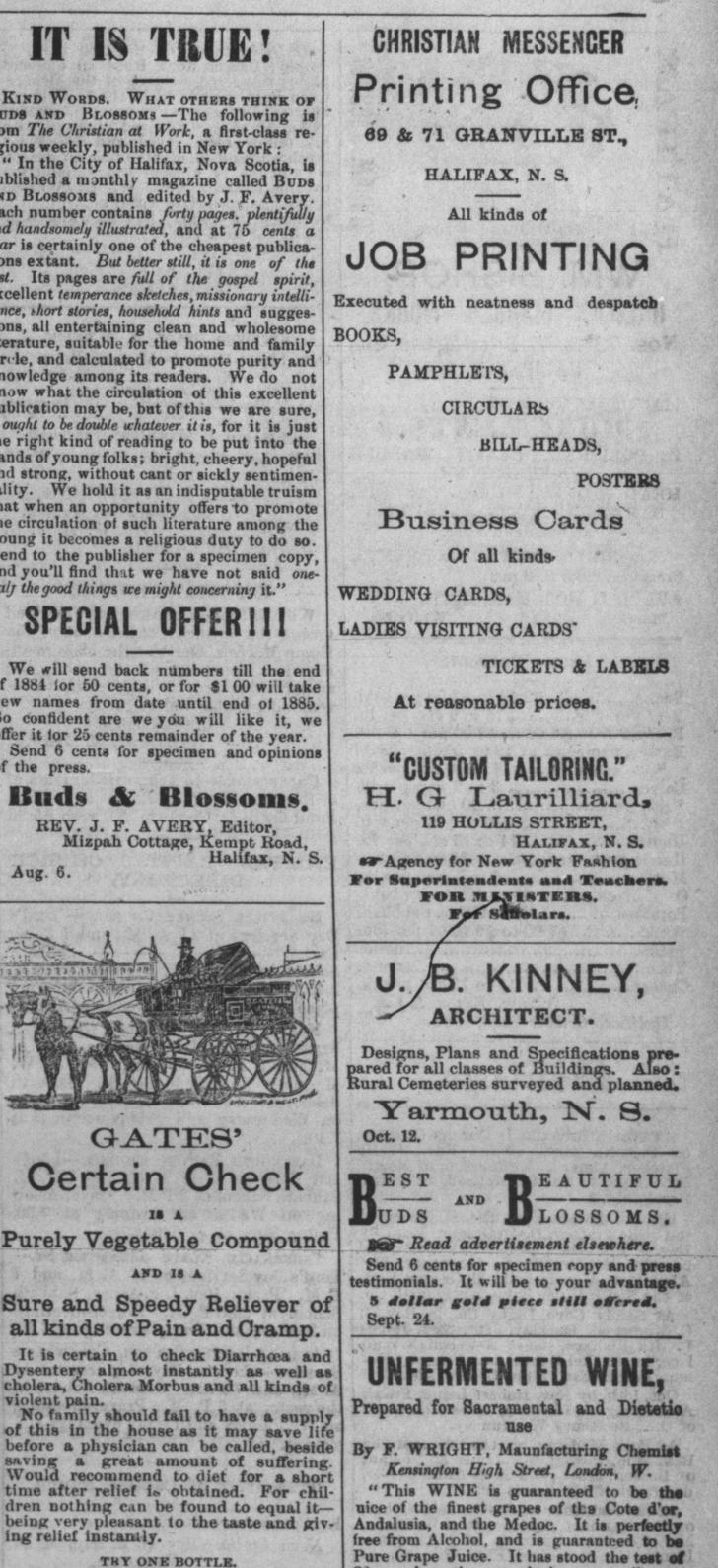


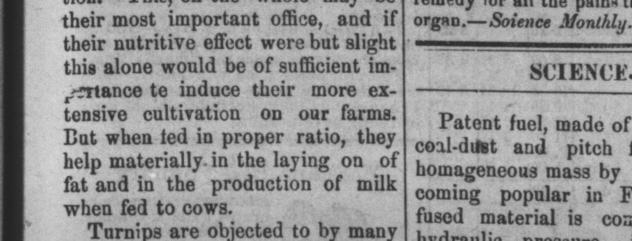


KIND WORDS. WHAT OTHERS THINK OF BUDS AND BLOSSOMS - The following is from The Christian at Work, a first-class religious weekly, published in New York : " In the City of Halifax, Nova Scotia, is published a monthly magazine called Bubs AND BLOSSOMS and edited by J. F. Avery. Each number contains forty pages. plentifully and handsomely illustrated, and at 75 cents a year is certainly one of the cheapest publications extant. But better still, it is one of the best. Its pages are full of the gospel spirit, excellent temperance sketches, missionary intelligence, short stories, household hints and suggestions, all entertaining clean and wholesome literature, suitable for the home and family circle, and calculated to promote purity and knowledge among its readers. We do not know what the circulation of this excellent publication may be, but of this we are sure, it ought to be double whatever it is, for it is just the right kind of reading to be put into the hands of young folks; bright, cheery, hopeful and strong, without cant or sickly sentimentality. We hold it as an indisputable truism that when an opportunity offers to promote the circulation of such literature among the young it becomes a religious duty to do so. Send to the publisher for a specimen copy, and you'll find that we have not said onehalf the good things we might concerning it." SPECIAL OFFER !!!

We will send back numbers till the end of 1884 for 50 cents, or for \$1 00 will take new names from date until end of 1885. So confident are we you will like it, we offer it for 25 cents remainder of the year. Send 6 cents for specimen and opinions of the press.

Buds & Blossoms. REV. J. F. AVERY, Editor, Mizpah Cottage, Kempt Road, Halifax, N. S. Aug. 6.





as a feed for milch cows on the ground that they flavor the milk unpleasantly, and no doubt they do; however, some claim that if fed directly after milking the unpleasant flavor is avoided. But when this becomes a serious objection, it is better to substitute for them something else, as sugar beets or carrots, both of which rather add to, than detract from, the flavor of the milk. No doubt the mangold will produce the largest quantity to the acre; but they are not as good for stock, especially cows in milk, as turnips or sugar-beets. These, given with clover hay or good timothy, make an excellent ration.

As to quantity, a half-bushel for each cow per day is sufficient, unless the feeding is with a view to fattening, when the feeder must use his own judgment. If fed to sheep, much will depend on the kind of sheep, but for a general guide a bushel of roots will answer as a daily ration for ten sheep weighing from 125 to 150 pounds each, providing they can have also about two pounds of hay, and perhaps a half pound or so of bran or meal per head.—Ex.

HEALTH HINTS.

The Popular Science News recommends for ordinary nervous toothache, caused by the nervous system being out of order, or by excessive fatigue, a very hot bath, which will so soothe the nerves that

sleep will naturally follow, and on

awaking the toothache will be gone.

For "jumping" toothache, hot,

A decoction of lemon is said to be

SCIENCE.

Patent fuel, made of a mixture of coal-dust and pitch fused into a homageneous mass by steam, is becoming popular in France. The fused material is compressed by hydraulic pressure into bricks weighing five, ten, or fifteen pounds. It is said these briquettes are preferable to ordinary coal for exportation to the colonies and to warm four pieces. Just cover with water. climates, on account of their compact storage and freedom from small the back of the range, season with fragments and dust. They are also found to be more convenient and cloves, and let simmer six or eight economical for use on locomotive engines, and are asserted to be more healthful for demestic use than common coal.

Platinum wire has been produced which is so exceedingly fine as to be invisible to the naked eye. It is so fine, in fact, that its presence upon a perfectly white card can only be detected by the touch, or seen by the aid of a small magnifying glass when the card is held in such a position that the wire casts a shadow.

THE LABORATORY THAT JACK BUILT .--- This is the laboratory that Jack built.

that Jack built.

window in the laboratory that Jack built.

This is the sand used in making the glass that lighted the window in the laboratory that Jack built.

This is the soda, that, melted with sand, compounded the glass that lighted the window in the laboratory that Jack built.

This is the salt, a molecule new,

MEAT CROQUETTES .--- Chop fine, cold boiled or roasted yeal, beef or mutton; season with salt, pepper and any spice you like; add a few bread crumbs and bind with an egg. Make into small cake and fry them brown. Serve hot.

PRESSING BEEF .- Any cheap part of beef will answer. I usually select a piece weighing about ten pounds. Free it from fat, but let the bones remain in it. Cut into three or Let it come to a boil, skim, set on salt, pepper, and half a dozen whole hours, or until the meat will fall from the bones. Then remove meat, trim off any fat or skin, take out all pieces of bone, and slightly chop. Let the liquor cool, take off every particle of greese, and if necessary, boil it down. When I think the liquor will not jelly, I dissolve two spoonfuls of gelatine in a little cold water, and add to it. Put the meat into a deep earthen dish or pan, pour over the hot liquor, cover, and put weights on top. Set in a cool place over night. The meat can then be cut into slices, and will be found very nice. I frequently prepare chicken in the same way.

IRON RUST .- Spots of iron rust This is window in the laboratary may be removed almost always if they are covered with lemon-juice This is the glass that lighted the mixed with common salt; lay the garment where the sunlight will fall on it.

> POLISH .-- A very simple and easily prepared polish is made of two ounces of ammonia, one quart of rain water, and three ounces of precipitated chalk; keep this in a bottle and shake well before using.

or via Kansas City and Atchison to Denver, con-necting in Union Depots at Kansas City, Atchison, Omaha and Denver with through trains for

SAN FRANCISCO, and all points in the Far West. Shortest KANSAS CITY,

And all points in the South-West. TOURISTS AND HEALTH-SEEKERS ould not forget the fact that Round Trip tic reduced rates can be purchased via this Great Through Line, to all the Health and Pleasure Resorts of the West and South-West, including the Mountains of COLORADO, the Valley of the

semite, the CITY OF MEXICO,

and all points in the Mexican Republic. HOME-SEEKERS

should also remember that this line leads direct to he heart of the Government and Rairoad Lands in Nebraska, Kansas, Texas, Colorado and Washingon Territory. It is known as the great THROUGH CAR LINE If America, and is universally admitted to be the Finest Equipped Railroad in the World for all classes of Travel.

Through Tickets via this line for sale at all Rail-oad Coupon Ticket Offices in the United States and

Canada. Canada. T. J. POTTER, Vice Pres. and Gen. Manager. PERCEVAL LOWELL, Gen. Pass. Ag't Chicago Eastern Ag't,

Invalids, Nursing Mothers,

Pure Grape Juice. It has stood the test of 22 years' continuous sale in every climate, and is now used in upwards of 1500 Churches of all denominations. The mode of manufacture is a slight modification of a wellknown ancient practice, and effectually pre serves the grateful flavor and the rich nutri tious qualities unimpaired. It is therefore admirably adapted in cases of debility and fever, in which the stomach is too weak to digest other food. Children suffering from febrile ailments drink it with avidity, even when all other food has been refused

JOHN M. HODGES, ESQ., M. D., F. C.S., Public Analyst for Antrim County and Belfast Borough.

"I have chemically examined the bottle of Wright's Unfermented Wine (taken by my son from the stock held by Mr. Wright's Belfast Agent), and find that it is free from alcohol, and contains the constitutents of grape juice. When mixed with water it will prove an agreeable beverage."

FROM R. V. JOHN BURWASH. Formerly Professor at Mount Allison, Wesleyan College, Sackville, N. B.

Sackville, May 23rd, 1882.

" I have just finished the analysis of the Wine sent. It is necessarily a slow process, some of the steeps taking two days. This Wine contains No ALCOHOL, nor any dele

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an antidote to malaria. Cut up a lemon, peel and all, into thin slices; put it into three glassfuls of water and boil it down to one glassful. Strain the liquid through linen, cool, and drink the whole amount when fasting.

cloves is the best remedy.

MEDICAL HERBS .- The indigenous plants of Great Britain are too much neglected in the present age, for per- sand, compounded the glass that sons are apt to run after all that is rare lighted the window in the laboratory or novel in the form of medicine in pre- that Jack built. ference to cultivating our native herbs, so many of which are rich in curative properties. The balm and the dandelion, for instance, are little valued, yet the first is an admirable tonic, and the

that furnished the soda that, melted with sand, compounded the glass that lighted the window in the laboratory that Jack built.

dry flannel applied to the face and This is the chlorine, of yellowish neck is very effective. For comhue, contained in the salt, a molemon toothache, caused by indigescule new, that furnished the soda, tion, or by strong, sweet acid or that, melted with sand, compounded anything very hot or cold in a dethe glass that lighted the window cerned. cayed tooth, a little piece of cotton in the laboratory that Jack built. steeped in strong camphor or oil of

This is the sodium, light and free,

that united with chlorine of yellowish hue, to form common salt, a mole- Star. cule new, that furnished the soda, that melted with sand, compounded the glass that lighted the window in the laboratory that Jack built.

This is the atom that weighs twenty-three, consisting of sodium so light and free, that united with chlorine of yellowish hue, to form common salt, a molecule new, that furnished the soda, that melted with

This is the science of Chemistry that teaches of atoms weighing twenty and three, and of sodium metal so light and free, that united other a first-rate liver medicine. The with chlorine of yellowish hue, to heavy indeed upon the hands of those balm is, strictly speaking, a native of form common salt, a molecule new, who are driven to descend to such foolthe south of Europe, but it has been that furnished the soda, that melted eries I

VARIETIES.

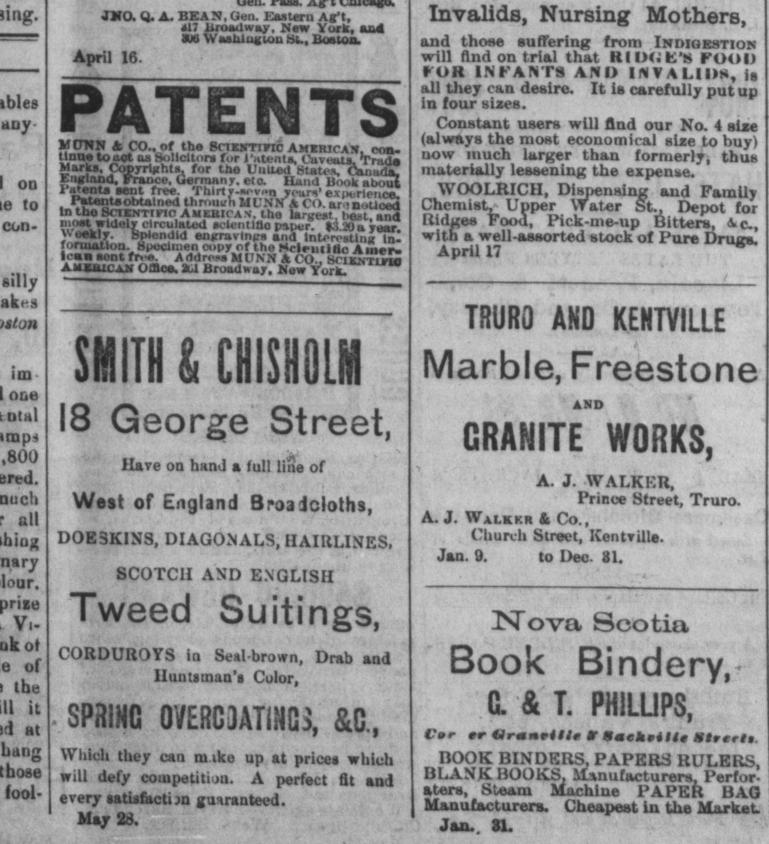
* Do take some more of the vegetables Mr. Blood, for they go to the pigs anyway.'-Harvard Lampoon.

Hens may be a little backward on eggs, but they never fail to come to the scratch where flower beds are con-

Spooning is regarded as very silly but after all it is the spoon that makes the greatest stir in the world .- Boston

RAMPANT FOLLY .- France is im. porting the English baby show, and one of the greatest novelties in Continental exhibitions will be held in the Champs Elysées this month, for which 1,800 babies have already been entered. Austria, however, has something much more novel, by calling together all those persons whose distinguishing feature is a nose superior to ordinary olfactory organs in size form and colour. Of the eighty competing noses the prize was awarded to one belonging to a Viennois-a gigantic, violet hued trunk of elephantine proportions, the pride of

its possessor. But what will be the next new show, and how long will it be before a nose show is advertised at the Crystal Palace? Time must hang



and those suffering from INDIGESTION will find on trial that RIDGE'S FOOD FOR INFANTS AND INVALIDS, is all they can desire. It is carefully put up in four sizes.

Manufactured by

July 23.

C. GATES SON & CO.,

Middleton, Annap. N. S.

THE NATION

For it is sadly too true that thousands

of children are STARVED TO DEATH

every year by improper or insufficient food. Remember,

RIDGE'S FOOD

INFANTS AND INVALIDS,

Is all and a great deal more than we have

claimed for it. It is simply a HIGHLY NUTRITIOUS and easily assimilated

FOOD, grateful to the most delicate and irritable stomach, and especially adapted

for the INFANT and GROWING CHILD.

Constant users will find our No. 4 size (always the most economical size to buy) now much larger than formerly, thus materially lessening the expense.

WOOLRICH, Dispensing and Family Chemist, Upper Water St., Depot for Ridges Food, Pick-me-up Bitters, &c., with a well-assorted stock of Pure Drugs. April 17

TRURO AND KENTVILLE

A. J. WALKER,

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G. & T. PHILLIPS,

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terious ingredient. * * * It can be relied on as wholesome, not having any intoxicating properties. * * *

FOR SALE AT AEDICAL MALL, AMHERST, N. S C. A' BLACK, M. D. Dec. 5.



MANUFACTURED IN TORONTO.

A Permanent, sure cure for Diseases, Disorders and Ailments of the Kidneys, Bladder and Urinary Secretive System, or Attendant Complaints-causing Pain in Small of Back, Sides, etc., producing Urinary Disorders, such as too frequent, Scanty, Difficult, Painful or Copious Mensuration, Inability of Retention and Sedimentary Urine, Dropsical Symptoms, etc., denoting the presence in the system of Diseases common to the Urinary Secretive Organs, known as Gravel, Catarrh of the Bladder and Passages; Bright's Disease, Diabetes, Dropsy, Piles, Nervous Debility, etc., etc. Pamphlets and Testimonials can be ob-

tained from Druggists free.

PRICES-Child's Pad, \$1.50, (cures Bedwetting.) Regular Pad, \$2.00. Special Pad for Chronic Diseases, \$3.00. Sold by

A. B. Cunningham, M. D., Annapolis; William A. Piggott, Granville; Geo. V. Rand, Wolfville; J. B. North, Hantsport; W. H. Stevens, Dartmouth; Chas. F. Cochrane, Kentville; C. E. Borden, Canning

May 31.