Agriculture.

GRASS THE ESSENTIAL CROP.-In this section of the country, where stock must be fed on hay and grain for six months in the year, it is important to secure the requisite amount of grass and other fodder for such demands. There is little danger of making too liberal provision in this respect. It is impossible to anticipate how long and how cold a winter may be, nor how much a stock of cattle will consume. The better class of farmers are adopting new plans to secure a greater and longer continued crop of grass. The best method seems to be to put the soil into good heart, by a judicious system of cultivation, and after seeding, keep up the strength of the soil by repeated top-dressing either of fine manure, phosphate, or guano, or well dried muck and lime in some form. This is evidently the most economical arrangement, when the nature of the soil is sufficiently well understood to enable the occupant to apply the needed fertilizing element. It saves labor both of man and beast, and returns an immediate paying harvest better than vegetables or grain. But there are other considerations besides the producing of grass. It must be properly cured and housed. To do this, the farmer should be provided with the necessary machinery to drive his haying and secure his crop much earlier than is usual, and before the rain of August blackens it and drenches out its vitality. It is no longer a question whether grass should be cut early, when in the blossom or even before that stage, or when the stalk is dry and the seed fully matured, if not ripened. Having produced a heavy growth and been fortunate in securing it, let care and prudence be exercised in feeding it out to the stock, and especially in drawing it to the market. Tons may be saved by early cutting, properly curing, safely housing and judicious feeding. Cutting, securing, mixing with meal, are processes all worthy of consideration. But whatever plan is adopted, let there be no waste. Taking even the hints given here, and acting accordingly farmers may save a large per cent, of hay that is now wasted .- Manchester (N. H.) Mirror.

BUYING A HORSE.-First, acquire a knowledge of horses, so as to know a good horse when you see one that is a model. There is more money lost, and more honest men are defrauded, in buying and selling of horses, than in any other product of the farm. For the last twenty years, I have had all sorts and shapes of horses, from the pony to the Shanghai, and the greatest weight in the least bulk, is the animal for service. A horse weighing from 1100 to 1400 pounds, is large enough for farm work. You must understand what you want an animal for, before you go to buy. One minute is long time enough to examine the standing points of a horse. These are: A good lively eye, inclined to hazel, and a pleasant countenance; a flat leg and open foot; shoulders set rather back, and thin at the withers; a short back, and no objection if it is slightly arched; the proper shape of the hinder parts depends on what you wish the horse to perform.

The prevailing blemishes are blindness or weak eyes, ringbone, spavin, hoof-bound, curbed or thorough-pinned. stifled, &c., all of which an expert observer will detect in one minute's time. The heaves is the most difficult to detect, as that depends upon the treatment the animal has had for the week previous. The thumps, or palpitating of the heart, may be detected easily, by moving and exciting the horse, and stopping him suddenly. As to the age of a horse hurting him, it depends upon how he has been used until he is six years old; if sound then, he is good for twelve or twenty years service yet. Judging the age of a horse by his mouth, is very uncertain. You can tell to a certainty within one year until he is six years old, then you must judge from general appearance. Some judges rely on the tusk, but some horses never have any tusk-about the same number of mares have tusks as horses that have none.

Some men will tell you that they know the age of a horse by the jaw, or the wrinkles about the eye, or by the joints of the tail. You might as well say that you know the age of a man by the wrinkles in his face. The wearing of the teeth depends upon the general health and lungs of the animal. Bad teeth fellow diseased lungs.

In purchasing a horse, rely upon your judgment, and when you trade, do not ask a neighbor, as every man ought to know his own business. If there is much talking to be done, let the other do it. What you say, let it be to the point, and stand to it .- Ohio Farmer.

Scientific.

A SONG OF LABOR.

BY THOMAS DECKER, ABOUT A.D. 1609. Art thou poor, yet hast thou golden slumbers? O sweet content! Art thou rich, yet is thy mind perplexed? O punishment!

Dost thou laugh to see how fools are vexed To add to golden numbers, golden numbers, O sweet content!

CHORUS.-Work apace, apace; Honest labor bears a lovely face.

Canst drink the waters of the crystal spring? O sweet content! Swimm'st thou in wealth, yet sink'st in thine own tears?

O punishment! Then he that patiently want's burden bears, No burden bears, but is a king, a king! O sweet content!

CHORUS .- Work apace, apace, apace; Honest labor bears a lovely face.

GARDENING FOR LADIES.—I know one lady whose sensible doctor told her twenty years ago that she was half gone with the consumption, and that her only chance of life was to be in St. John's, Newfoundland 20 minutes earlier, the open air as much as possible. And a perfect bower of paradise was minutes later. At Yarmouth, 2 hours 20 minher little yard. Was the soil poor? She enriched it. Were her varieties indifferent? She procured better. Nearly all the flowers were fragrant Fifteen kinds of roses bloomed under her hands, and a succession of flowers filled out the summer. One side of the yard was covered with grapes. Peaches, plums, and raspberries were trained en espalier, and choice squashes ripened on the roof of the out houses. Tomatoes were trained to single poles and yielded luxuriantly; and ruby strawberries peeped out even from the bleaching grass. She, herself, was as fresh and vigorous as you could expect one to be whose half-decaying lung had left her with insufficient vitality. But her life was saved, and it had been a happiness to herself and a blessing to others .- John Coleman.

PAPER CAR WHEELS.—The material is straw board, in all respects the same as that used in the manufacture of paper boxes, and made of wheat, rye or oat straw. The tire is of steel, and when turned up ready for the filling is made taper inside, so that the inside diameter on the flange is one-eighth of an inch smaller than on the other. The body of the wheel is a paper block 99 made of straw board, cut into circles thirty inches in diameter, pasted together with ordinary paste, and consolidated under a hydraulic pressure of about three hundred tons. This block, after being slowly dried for nearly two BLACK FRENCH MERINOS weeks in a dry-house is turned and fitted in a common pattern lathe. The turning tool is like that used for iron, but the speed is about the same as is used for brass. This block, thus turned to fit the tire, is of course somewhat larger, in order to insure a perfect fit. A hydraulic pressure of about four hundred tons is then used to force the block into its place. The tire is heated nearly to the boiling point of water, thus insuring a perfect bearing when cool. When the paper block is in the lathe, a suitable hole for a cast-iron hub is ARTIZANS, he is now in a position to man" bored through the centre. This hub has a wide flange upon one end. Covering each side of the wheel are two side-plates of iron boiler plate, which fit against a shoulder turned in the tire. The hub is forced in after these Dominion, English or American. plates are in place, the flange on its outer end, of course, holding the outside plate firmly in its place. Sixteen bolts in the outer edge of the plates run directly through the flange of the hub, securing the whole and making the wheel, so far as its interior is concerned, water-proof. The paper itself is painted before it goes into the wheel, and is perfectly secure against dampness, even if the wheel were not watertight.

A good harness blacking is made of four ounces of hog's lard, sixteen ounces of neat's foot oil, four ounces of yellow wax, twenty ounces of ivory black, sixteen ounces of brown sugar, and ten ounces of water. Heat the whole to boiling, and stir it until it becomes cool enough to handle, then roll it into balls about two inches in diameter.

HALIFAX, N. S., JUNE 26, 1872.

MESSENGER ALMANACK.

JULY, 1872.

New Moon, July 5th, 2h. 11m. afternoon. First Quarter, "13th, 3h. 34m. afternoon. Full Mcon, "20th, 9h. 39m. morning. Last Quarter, " 27th, 3h. 4m morning.

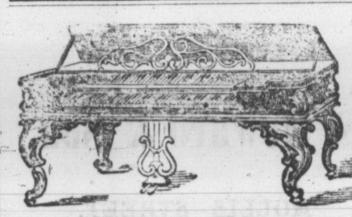
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THE TIDES .- The column of the Moon's Southing gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro.

High water at Pictou and Cape Tormentine, 2 hours and 11 minutes later than at Halifax. At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 25 minutes later, and at than at Halifax. At Charlottetown, 2 hours 56 minutes later. At Westport, 2 hours 54

FOR THE LENGTH OF THE DAY .- Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising.

FOR THE LENGTH OF THE NIGHT.-Subtract the time of the sun's setting from 12 hours, and to the remainder add the time of rising next morning



Superior Pianos,

IN VARIOUS STYLES UPRIGHT, OBLIQUE, SQUARE, Esc.

With all the latest improvements, manufactured by the subscribers, and especially adapted to this climate. An assortment of

THE "SILVER TONGUE." A very fine toned CABINET ORGAN,

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WM. FRASER & SONS, 70 & 72 Barrington St. June 1.

GRANVILLE STREET. 99

S. S. "DACIAN," SLIGHTLY DAMAGED.

BLACK CRAPES,

SMITH BROS.

May 1.

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THE Subscriber begs respectfully to intimate to his Friends, and Public generally, that having fitted up his Establishment with the Latest and most Improved Machinery.

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BOOTS AND SHOES,

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BOOTS AND SHOES, at all Prices BOOTS AND SHOES, in all sizes.
BOOTS AND SHOES made after the latest French, English and American designs. Examine for yourselves, compare with other Goods, and if found worthy, encourage Home Manufactures.

WHOLESALE BUYERS Will find our Terms Liberal, and we assure

them that their interests will receive our best GEORGE S. YATES. Halifax, N. S., April 24, 1871.

May 3

To Parents and Sabbath School Teachers.

JUST PUBLISHED.

SECOND EDITION-REVISED.

A SCRIPTURE CATECHISM, for the Family, the Bible Class, and the BY S. SELDEN. Price 8 cents or \$6.00 per 100.

WINDSOR & ANNAPOLIS RAILWAY.

TIME TABLE No. 11. COMMENCING 1st MAY, 1872.

Miles.	DOWN TRAINS.	Express. 1st class	Passengers.	Passengers.
	STATIONS.	1	3	5
4 8 11 13	Halifax	3 25	a. m. 7 15 7 25 7 45 7 55	p. m. 3 00 3 12 3 30 3 40
	arrive		8 05	3 50
16 26	do. depart Beaver Bank Mount Uniacke	9 20	8 15 8 25 9 30	4 00 4 10 4 50
36 39 42	Stillwater Ellershouse Newport Three Mile Plaias Windsor, arrive	9 40 9 50 10 00	10 40 11 00 11 20 11 30 11 40	5 00 5 10 5 25 5 35 5 45
50 52 57 59 60	do. depart Falmouth Mount Denison Hantsport Avonport Horton Landing Grand Pre Wolfville	10 40 10 50 10 55 11 00	p. m 1 00 1 65 1 15 1 30 1 45 2 00 2 05 2 20	6 10 6 15 6 25 6 30 6 50 6 55 7 00 7 10
70 75 77 79	Port William Kentville, arrive Do depart Coldbrook Cambridge Waterville Berwick	11 30 11 40 11 50	2 30 2 50 3 05 3 15 3 25 3 35 3 50	7 15 7 30

87 Aylesiord.... 12 25 4 10

89 Morden Road 4 20

94 Kingston..... 12 40 | 4 40

101 Middleton.... 1 00 | 5 10

107 Lawrencetown 1 15 | 5 30 110 Paradise 1 20 5 40

129 Annapolis...... 2 15 | 7 00

190	St. John by Steamer.	8 00		,
Miles.	UP TRAINS.	Passengers.	Passengers and Freight.	Express, 1st class only.
1	STATIONS.	2	4	
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14	Annapolis		a. m. 6 30 6 50 7 20 7 35	p.m. 2 20 2 40 3 00 3 10
28 31 35	Lawrencetown Middleton Wilmot Kingston Morden Road Aylesford		7 50 8 15 8 25 8 40 8 50 9 05	3 15 3 30 3 35 3 45 4 10
50 52	Coldbrook Kentville,—		9 25 9 35 9 45 9 55	4 20 4 30 4 40
	do leave Port William Wolfville	a.m. 6 30 6 45	10 20 10 40 10 55 11 15	5 00 5 15 5 20
70	Grand Pre Horton Landing Avonport	7 00 7 05 7 15	11 30 11 40 11 50 p.m.	5 25 5 30 5 35
79 82	Hantsport Mount Denison Falmouth Windsor, arrive	7 30 7 35 7 45 7 50	12 10	5 45 5 55 6 00
90 93 96	do depart 3-Mile Plains Newport Ellerhouse Stillwater Mount Uniacke	8 00 8 15 8 30 8 40 8 50 9 20	1 15 1 25 1 40 1 55 2 05 2 45	6 10 6 25 6 35 6 45 7 05
B. C. 100, 100, 100	Beaver Bank Windsor Junction,— arrive	9 50	3 25	7 30
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N.B.-Trains meet and pass where the-is Steamer "Scud" or "Empress" leave St. John on Monday, Wednesday and Saturday, at 8 a. m., returning from Annapolis the same

Steamer " Emperor" leaves St. John on Monday on arrival of "Empress" or " Scad" for Yarmouth, Portland, and Boston Steamers " New England," or " New Bruns wick," leave St. J hn on Monday and Thursday mornings, at 8 a. m., for Eastport, Port-

land, and Boston. Trains of the Western Extension Railway les ve St. John at 7.30 a. m. every morning for Woodstock, Fredericton, St Stephens, Bangor, Pertland, Boston, and all parts of the United States and Canada.

Tickets by above routes to all parts in the United States and Canada may be obtained at 106 Hollis S'reet, Halifax, at Richmond, and the principal Stations on the Railway. VERNON SMITH, Kentville, 1st May, 1872.

Manager.

COTTON WARP.

THE COTTON YARN, Manufactured at the

May 1.

NEW BRUNSWICK COTTON MILLS, Has the names of the mills and our name on a printed label on the end of the bundle. WHITE, REB and ORANGE YARN is put up

in Blue paper; best quality, full weight, and correctly num-

WM. PARKS & SON. N. B .- Cotton Mills, St. John, N. B., Aug. 8, 1871. Jan. 3,

HALIFAX, 6TH MAY, 1872. C. H. HEPWORTH

most respectfully informs his friends and the

public that he has opened the Store, No. 25, GEORGE : TREET, immediately below the Parade, where he will

CHEMIST AND DRUGGIST,

carry on the business of

The Shop has been newly stocked with genuine Drugs and Chemicals, Patent Medicines, a well assorted stock of

Perfumery, Pomades, Scented soaps. TOOTH, NAIL, & HAIR BRUCHES,

COMBS & other TOILET REQUISITES. and every thing usually found in a first class Drug Store.

C. H. H. hopes by strict attention to business to share their patronage and support, he also trust his many years experience as Dispenser to the late firm of Drs. Parker & Cowie will be a sufficient guarantee that all prescriptions entrusted to him will be dispensed and copied with the greatest care and attention.

By permission of the Hon. D. McN. PARKER, M. D., his former prescriptions can be repeated at this establishment. May 15.

GATES' LIFE OF MAN BITTERS,

FROM THE

Roots and Plants of Nova Scotia.

formerly manufactured by Mrs. Gates, of Wilmot. Who was pronounced incurable of Liver Complaint and Dropsy by many skilful physicians, when procuring several receipts from an eminent French physician, she was entirely cured; and afterwar is cured hundreds of cases for which at first there seemed to be no hope. We offer these remedies to the public through the persuasion of those who at present consider that they are indebted to them for the preser. vation of their lives. Many certificates can be given for the following diseases: - Dropsy, in ics worst f rm; Liver Complaint, Jaundice, Swelling of the Limbs and Face, Asthma, of whatever kind; Dyspepsia, Biliousness, Spitting of Blood, Bronchitis, Sick Headache, Diseases of the Blood, Female Diseases. Running Sores, Rheumatism, Erysipelas.

In cases of lung disease, the No. I Bitters must be taken with No. 1 Syrup, except in weak cases and young children, when No 2 Syrup and No. 1 Bitters must be used. Those suffering from Lung diseases, should not fail to use in addition to the above, Gates' Vegetable Plaster applied between the shoulders and to the throat and chest with Nerve Ointment. In Liver complaint and Dyspepsia, No. 2

Bitters must be taken with No. 1 Syrup. In bad cases of Dropsy, No. 2 and No. 3, Bitters must be taken with No. 1. Syrup. For Gravel No. 5. Bitters and No. 1 Syrup, together with Gates's Vegetable Plaster and Nerve Ointment applied to the back near the

For pains and Rheumatism in any part of the body, No 1 Syrup, and Gates's Nerve Ointment and Acadian Liniment mixed together applied to the painful parts. For sore throat, rub the Liniment and Oint-

ment (mixed together) into the parts affected, at the same time taking No. I Syrup to cleanse the stomach. These medicines will be promptly forwarded by the manufacturers when orders are accom-

panied by the cash. Address CALEB GATES & CO., Middleton, Wilmot, Annapolis Co. Falmouth Oct. 26th 1869.

Dr. Gates. Dear Sir,-In the winter of 1858 my wife was attacked with dropsy affection which threatened a fatal termination, as the best physicians we could obtain failed to afford her any relief, but at last, she became so low, that they said she might die at any hour, after suffering for many months, she was advised to try your medicine, which she did. And by the blessing of Ged, was soon cured. She has had her health ever since, and been able to attend "to her domestic affairs. The physicians had abandened the case as hopeless before she tried your me licine, which accomplished what they had failed to do

I make this statement from a sence of obligation to you and hoping that it may carry valuable information to others similarly affected, and induce them to use the same means of

I would also add that your liniment and ointment are a most excellent cure for rheumatism, end it is a real charm for the severest headache, and also your Plaster is excellent for lame back and side.

> I am sir very respectfully, RICHARD B. LYON.

PRICE. Bitters \$1 per quart ; Syrup 50 cents per pint bottle; Liniment 30 cents per bottle and the ointment 30 cents per box.

Address CALEB GATES & CO.,

Farmington, Wilmet, Annapolis Co. A large number of certificates, similar to the above, have been received and will be published at times for the information of the afflicted and the people generally.

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Magistrates Blanks always on hand.

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