Agriculture, &c.,

DIGESTION IN THE HORSE.

The osophagus or gullet is a very long and cylindrical tube through which the food descends, extending from the pharynx to the stomach. In passing down the neck it inclines to the left, and is continues down the left side of the windpipe, entering the thoracic cavity between the windpipe and the first rib on the left side. It is then directed upwards towards the base of the heart, and passes through an opening in the large muscle which forms the division between the cavity of the chest and that of the abdomen, and entering the latter cavity it terminates in the stomach. This tube is constructed externally of muscular fibres of two different kinds, longitudinal and circular, the latter forming the inward layer. These fibres, by the successive contractions of the canal, pass the food downwards. In the ox the osophagus presents two sets of circular fibres, which allow of the upward passage of the food in rumination. The mucous membrane or lining of the tube is continuous with the mucous membrane of the pharynx, but is much paler in colour. The passage of the food to the back of the mouth is caused by voluntary muscular force, but after reaching the cesophagus it is carried on by involuntary muscular action. The accessory preparatory organs of digestion are the teeth and the various salivary glands. The teeth are forty in number, and are arranged into three classes—the incisors or cutting teeth, situated in front of the mouth, six in each jaw; the molars or grinders, twelve in each jaw; and the canine or tushes, four in number, two in each jaw. The latter are characteristic of the male animal, and in the mare they are either imperfect or undeveloped. Of the teeth, twenty-four are deciduous or milk teeth, being cast off at certain ages and replaced by permanent teeth. The whole of the incisors are temporary, and twelve of the molars. The tushes are not deciduous .- Globe.

AT WHAT AGE SHOULD HEIFERS CALVE?-" NOvice" sends the following particulars and queries to the Toronto Globe:-" I have a Durham heifer, 19 months old, which weighed this week 1,080lb., not in calf. Is she not above the average size? Do our stock breeders think it advisable to allow such an animal to have a calf, before she is three years old? Would it be advisable for me to allow my heifer to come in next autumn ?"

Ans.—The weight of your heifer is considerably above the average for her age. With regard to the proper age for the first calving, the practice of breeders is somewhat various; but it is generally considered best not to allow a heifer to have a calf before she is three years. An early pregnacy will tend to check the full growth and development of a cow. Cows bred for the dairy may, perhaps, be allowed to calve at an earlier age than those raised chiefly with a view, to frame and size. The fall is not a good time for a heifer to have her first calf. Succulent milk-producing food is then scarce, and the milking qualities of the cow may suffer.

WOMEN AND NEWSPAPERS.—The Rev. Brooke Herford delivered a sermon in England recently on the "Importance of Newspaper Reading to Woman." He said: Let me especially urge the reading of the newspaper as distinct means of self-culture upon women. Women, in their quiet household life, may go on for weeks hardly hearing a word of what is passing in the great world outside, and the little that they do hear conveying no living meaning to them. 1 think this is a great evil. It not only narrows the range of woman's life, but she loses a great deal of happines which would come of intellectual companionship and community of interest with men, with a brother, a father, or a husband. I would have every woman read the newspaper for half an hoar's amusement, but with the definite object of escaping the natural danger of her quiet home life, and keeping an open eye and an understanding mind for the passing history of nations, and the great interests which are stirring the heart of the world."

DESICATED SWEET POTATOES .- A correspondent from Vicksberg writes: "The whole world needs more food, We can raise and dry sweet potatoes at a cost of sixty cents per bushel, and ship them to all parts of the world. Every ship on the ocean would soon have them on board, as the best preventive of disease and the most nutritious food in the world. All sorts of mean vegetables are ground up and parched and sold to the poor for coffee. Nothing known will make so good an imitation of coffee as the yellow yam sweet potato. All parts of the Northern States will soon learn their use, and find them for sale as we now find dried peaches, apples, etc. The revenue to the South from this source is destined to eventually equal that from the cotton erop. They contain a large amount of saccharine matter, which renders it necessary to keep them from the air, as otherwise they will attact moisture and become mouldy."-Scientific Ameri-

How to Catch Rats .- If a drop of oil of rhodium be poured upon some bait, in a common or wire spring trap, and the said trap be placed in an infested locality, only a short time will elapse ere the cage will be found occupied by vermin. Rats and mice possess a great liking for the oil, and, when scented, will risk any thing to obtain it. I have cleared my cellar of the pests by the above method, and others have tried it with similar success. The oil of rhodium costs about one cent per drop, but a drep will last several days .- J. C. in Scientific Ameri-

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wash, Wallace and Yarmouth add 2 hours to the

For HIGH WATER at Annapolis, Digby, &c., and at St. John, N. B., add 3 hours to the time at The time of HIGH WATER at Windsor is also the time at Parrsboro', Horton, Cornwallis, Truro, &c.

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a-day say from patients all over the habtable globe:

Dr. Maggiel, your pill had rid me of all billous-'No more noxious doses for me in five or ten pill

taken at one time. One of your pills cured me. another box to keep in the house.' ' After suffering torture from bilious cholic, two of

your pills cured me, and I have no return of the 'Our doctors treated me for Chronic Constipation, as they called it, and at last said I was incurable.

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'Your pills are marvellous.' 'I send for another box, and keep them in the

' Dr. Maggiel has cured my headache that was 'I gave half one of your pills to my babe for cholera morbus. The dear young thing got well in a

My nauses of a morning is now cured.' ' Your box of Maggiel's l'ills cured me of noises

n the head. I rubbed some Salve behind my ears. and the noise left.' 'Send me two boxes-I want one for a poor family." 'I enclose a dollar-your price is twenty five on Barriagton Street.

sents, but the Medicine to me is worth a dollar. ' Send me five boxes of your pills ' Let me have three boxes of your balve and Pills by return mail.'

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Lu H. Eurd.

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Rev. I.W. SHORMARER, Activity Mass.—I From the Bolice Headquarters, Lynn, Mass.—I have gained thirty-five pounds of flesh in three months by using Dr. Burton's Antidote, and all desire for tobacco is WM. L. Walt, Jr. FROM THE SOUTHERN HOME JOURNAL, BARTMORN, MD.—One box of Burton's Antidote removed all digire for the weed from me. I take pleasure in recommendate it to all our enders.

T. Y. SLATER, Editor.

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Jan. 13.

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R. S. M. BOUCHETTE.

Commissioner of Customs. The above is the only notice to appear in newsipers authorized to copy.

NOTICE.

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All persons indebted to the late firm are requested to make immediate payment, and parties having claims against the firm are requested to render the same for adjustment.

The Subscribers beg to return their thanks to the general public for past favors, and respectfully solicit for the new firm a continuance of the same

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