## **Wasting Brain** and Nerve Force

AND UNDERMINING HEALTH BY USELESS WORRY-NEW VITAL-ITY OBTAINED BY USING

## Dr. Chases **Nerve Food**

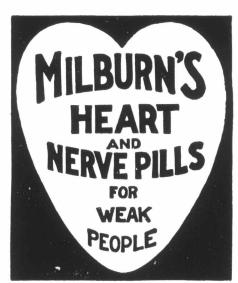
Brain and nerve force is squandered in a way which would be utterly condemned in the use of money. And of what value is money as compared with

By useless fretting and worry, by overwork, and by neglecting to take proper nourishment, rest and sleep, strength and vitality are frittered away and no reserve force is left to withstand the attack of disease.

Dr. Chase's Nerve Food is valued because it actually increases the amount of nerve force in the body, overcomes the symptoms arising from exhausted nerves, and gives that strength and confidence in mind and body which is necessary to success in life.

Nervous headache, brain fag, inability to concentrate the mind, loss of sleep irritability, nervousness and despondency are among the indications of exhausted nerve force. These are the warnings which suggest the necessity of such help as is best supplied by Dr. Chase's Nerve Food.

If you would be healthy, happy and successful, test this great food cure, 50 cents a box, at all dealers, or Edmanson, Bates & Co., Toronto.



These pills cure all diseases and disorders arising from weak heart, worn out nerves or watery blood, such as Palpita tion, Skip Beats, Throbbing, Smothering. Dizziness, Weak or Faint Spells, Anaemia, Nervousness, Sleeplessness, Brain Fag, General Debility and Lack of Vitality.

They are a true heart tonic, nerve food and blood enricher, building up and renewing all the worn out and wasted tissues of the body and restoring perfect health. Price 50c. a box, or 8 for \$1.25, at all druggists.

food stuffs varies widely. Hay and straw furnish little nutriment relative dioxide gas, and some of the fat is to their bulk, but they are necessary for reasons previously discussed. They form the bulk of the exercts, the cellu lose, and its modification, of which fodder is mainly composed, being indigestible. Roots supply carbohydrates chiefly, as sugars and some nameral salt They contain from 85 to 90 per cent, of a the latter, however, is stored up in water, and have a laxative effect on the connective tissue tells. The mineral bowels. Meals and grains are rich in matter goes to the skeleton and various nitrogenous matter, and process a tissues. All the cells of the body are relatively high percentage of the second mode or less but do mode or less matter. Water is present in qu. ranging from 10 to 12 per cent. are rich in nitrogenous albumit matter, fits or oils and carbohydrate All four tuffs contain more or less waste social that but this decreases with concern that is in specially prepared goods to we see that the the i prepared govervarious forms means and is supplied mouth. Base

contain albuminoids, fats, carbohydrates, minerals, water, and indigestible substances

THE DIGESTIVE FERMENTS.

We may now consider the digestive process in detail. The saliva secreted by the glands in the mouth contains an active ferment ptyalin, which converts carbohydrates (starches) into soluble and diffusible sugars without itself undergoing any change. Theœsophagus is a cylindrical muscular channel, taking no part in the digestion of food but forming the common duct to the various digestive organs. The paunch, into which the food first passes, is a large muscular bag, very elastic, and lined on the inside with numerous absorbing villi and secreting glands. In this organ the food is "churned" and moistened to a pasty consistency, this forms the cud. The villi absorb some of the digested carbohydrates These villi are small conical projections on the wall of the stomach. They are enveloped in a permeable cellular membrane, and each is provided with numerous capillaries. The villi are most active in the duodenum and are less numerous in the large intestine. After the regorgitated cud has been chewed it is conveyed to the manyplies, the folds of which are thickly covered with papillæ. These filter the digested portions of the food as it passes along. The manyplies is the seat of the disease known as dry murrain, and when post mortem amination is made the spaces between the folds are found to be packed with dry, indigestible, vegetable tissues. The digestive tract is completely blocked, and the efficacy of any drench may be ascertained by observing the distance it has penetrated into the compressed mass. From the manyplies the mass enters the true stomach or reed. Here gastric digestion takes place. The gastric juice, which is secreted by numerous glands in the wall of the reed, contains a ferment, pepsin and some free hydrochloric acid. The ferment converts insoluble albuminoids into soluble and diffusible peptones. The acid favors the action of the ferment and also acts upon the carbohydrates. The gastric juice has a slight, solvent action on oils. Absorption, secretion, and digestion proceed concurrently, and after a short time the food enters the duodenum, into which the bile from the gall bladder and the pancreatic juice flow, the latter contains several ferments the most active being trypsin, which completes the unfurnished work of the fat ctyalin and pepsin and renders the fat diffusible. The bile has little or no direct action on the food. Its alkalinity facilitates the work of the trypsin which, unlike pepsin, acts better in an alkaline medium. In some cases the bile dissolves fats and its action on cell membranes enables them to allow the passage of minute drops of oil Absorption by the villi is very rapid as the food is constantly in motion Absorption and secretion are kept up as the food passes along the intestines, but near the rectum these processes diminish and cease on reaching the end of the large intestine Some of the absorbed food, however, is not suitable for animal nutrition and this, consisting chiefly of nitrogenous substances, is passed out in the urine. These rejected materials are separated in part by the liver as the blood containing the assimilated food from the digestive organs passes through it. The final filtration is the work of the kidneys, which act like blood scavengers. The carbohydrates refuse is expired as earbon

exuded in perspiration. The albuminoid constituents incorporated into the animal system are muscular tissue, bair, hoofs, horns and chiefly concerned in the formation of cartilage. The carbohydrates supply energy chiefly as also do tats, the most

An interest in feature in digestion is much where the part plantal by bacteria. These found and the bile prevents testure in digestion is much where amor the alimentary bile prevents · om th ford or body by way ling their in: animal's hair is al- In the lar particles of bacteria (fermentation haking the body with | products as transferred to the dung. T decorpose animal lattacked

## Guarantee **Against** Unsatisfactory Harvesting

WHEN you purchase a Deering binder you secure insurance against unsatisfactory ance against unsatisfactory
harvesting. It's just as important to
insure your crops against unprofitable harvesting as it is to insure
your property against fire loss.
Harvesting a good crop with a poor binder
will hardly be more profitable than harvesting
a poor crop with a good binder.

You see how essential it is to have a good

a poor crop with a good binder.
You see how essential it is to have a good binder. You must have a machine that will harvest all your grain quickly and economically so that you will be able to realize every dollar possible out of your crop; in other words, you need a Deering.

The Deering binder is built to cut, elevate and bind all the grain, no matter in what

The Deering binder is built to cut, elevate and bind all the grain, no matter in what condition the field may be.

The reel will bring tall or short, down and tangled grain to the sickle without fail; the elevators will handle it whether it be light or heavy, and the binding attachment will throw out nice even butted bundles.

When a field of grain is harvested with a Deering, you won't find crow's feed scattered all about; you won't find the grain lying in

patches where the reel never picked it up. The Deering is built to harvest the crop in the

Deering binders can be purchased with either 5, 6, 7 or 8-foot cut.

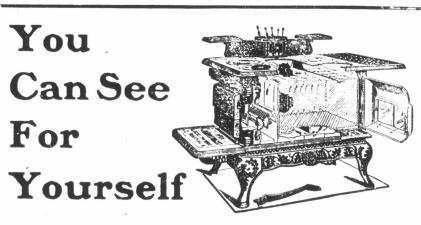
The 8-foot binder is equipped with a tongue truck, which materially reduces the neck weight and draft.

The Deering line of harvesting machines is complete and includes, besides grain and corn harvesting machines, a complete line of having machines—mowers, tedders, various styles and sizes of rakes, hay stackers and loaders. Call on the Deering agent and let him explain to you why a Deering machine harvests in the right way. These local agents are found everywhere, and will be pleased to give in-

formation and a catalog concerning the Deer

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and vegetable matter resolving it into alcohol and lactic acid arise. The prosimpler chemical compounds. The prosterids are converted into soluble albucess known as "germination" is gener mineids. All these processes take place ally caused by a socretion. Gives a in the absence of air, the decomposition suitable degree of maisture and the per ature the bacteria quickly decompose of the exerct and urine is continued by large quantities of organic materials. Finals A Vanderlip described the

their enormous rate of increase a miniportant factor in the process. The bacteria begin to work in the page h edict in the discomfiture of a lawyer acids and evil a In her men blackballed by a club. and When the "He was so mad," said Mr. Vander formed from the acidity reaches in . What he actually had the audacity the season of a second to the club's secretary and deorganisms ceasmentation cease process does to I the name of the man who has

secretary's reply to this our is and absurd letter struck me

Ser. Sir. I have received yo a balled you His name

