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A. O. U. W.-LAKEVIEW LODG: NO. 111.
Muets every second and fourth Thursday of
each month, in Masonic Hall, Lakeview.
Chas. Touningsen. W.M.: Www. Gunther. F.

DEGREE OF HONOR LAKESHORE LONG. 77, D. of H., A. O. U. W., Meets third Thursdays of each month is Hall: Little Harris; C. of H.; is c. L. of H.; Mary Post, C. of U.; Sri

I. O. O. F.—LAKEVIEW LODGE, No. O. F., meets every Saturday evening of Fellows Hall, at 7.38 o'clock, from Occober to April 1, and at 8 olclock from April 1 September 30, A. E. Cheney, N. G.; Cheney, Secretary

I. O. O. F.—LAREVIEW ENCAMPMENT NO. 1 1. O. O. F., meets the first and third Thurs-day evenings of each mouth in Odd Fellows Hall, Lakeview, C. D. Arthur, C. P., A. H. Hommersley, Scribe.

EEBEKAH LODGE-LAKEVIEW LODGE, NO 22, I.O.O.F., meets the second and fourth Fridays of each mouth in Odd Fellows Hall Mrs. Ida Heryford, N.G.; Mrs. Edna Miller, V.G.; F. W. Payne, Secretary; Mrs. L.J. Magilton, Treasurer.

view, Oregon, - Meets on Tuesday, on or be-tore full inson and two weeks thereafter, in Masonic Hall, at 7:30 clock. Visiting members are cordially invited. CORNELIA A. WATSON, W. M. IDA UEBACH. Secretary

CHURCH DIRECTORY

METHODIST EFISCOPAL CHURCH-THE first Sanday in each month, broaching at 11 a.m. Aside from this preaching every Sunday at 11 a.m. and 7:30 p. m. at Laceries Sanday School at U.a.m. Legge at 6:30 p. m. Prayer Meeting Thursday 7:30 p. m. Capir practise Friday 7:30 p. m. A cordial invitation is extended to your C. S. REES Factor.

FIRST BAITIST CHURCH OF LAKEVIEW—Preaching service at 11 A M and 7:00 P M of 1st and 3rd Sun. Sunday School at 10 A M Junior Suclety at 2:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sunday Frayer Meeting at 7:30 P M on each Sun

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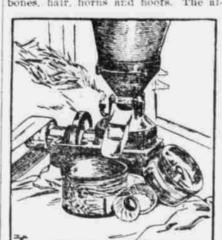
By C. V. GREGORY, Agricultural Division, lowa State College Copyright, 1909, by American Press Association

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NIMALS, unlike plants, can obsoil, air or water, but must have It prepared for them. Without plants there could be no animal life, since animals are dependent upon them, either directly or indirectly, for food. A study of the way animals make use of this food in building up their bodies will beln us to better understand the principles of feeding.

There are three main constituents of feeds-fats, carbohydrates and albuminoids, or protein. The fats are made ap of carbon, hydrogen and oxygen. The carbohydrates, of which starch and sugar are familiar examples, are made up of the same elements put to gether in different proportions. Another of the carbohydrates is cellulose, or the woody fiber of plants. This used in animal growth. Albuminoids contain not only carbon, hydrogen and oxygen, but nitrogen also. In addition which are commonly referred to as

This ash is used in building up the



TO XXV-GROUND PEED IS DIGESTED MORE QUICKLY AND COMPLETELY THAN WHOLE GRAIN.

summends also form a considerable portion of these parts of the body. their chief use, however, is in buildinc on the muscles, tissues and various organs. The fats and carbohytrates are used to furnish energy and heat. They are the fuel of the body. By uniting with oxygen they give off the heat and energy required to keep the body running, in much the same way that the elements of coal or wood unite with exygen to furnish heat and power when burned in a steam engine. Not all of the fats and carbohydrates are burned immediately, however, its color, E. S. ORIENTAL CHAPTER, NO 5, LAKE. Some of the fats go to build up fatty tissues. Some of the carbohydrates are changed to fats and used in the same way, and some are stored in the used when needed.

Before these various food elements go through a process called digestion, The first step in digestion consists in their long tongues and gather in a sends curbon dioxide up the chimner. to the ground than cattle can.

saliva. This makes topics two pair daylor shade from the first side of the seart, to the tome of the stay it to sugar, which the about it brough by the

BULLE BUILDING SEATTH IN SECTION FORDS drogen and onygen, the only differ ence being that they are pur together Lakeview, Gregor in a little different way. The action of the enzymes changes the relation of these elements in the starch, arranging them in such a manner as to form sugar.

All the starch in the food must be changed to some form of sugar before it can be used by the animal in building up the various parts of its body. Since the food remains in the mouth only a comparatively short time, however, only a small part of the dioxide for oxygen and are ready for starch can be acted upon there. The

rest is changed later, as we shall see. The main purpose of the saliva is to moisten the food. This moistening, to supply the body with heat and energether with the chewing, reduces it to gy, it is just as important that the a moist, finely divided mass, ready animals be well supplied with fresh

the other digestive juices. gestion are the same for all animals. | the attempt to keep them warm that the way in which the work is carried | the air becomes very deficient in oxyon varies somewhat. The horse and the hog have but one stomach. As bou, is delayed and the general the food enters this a churning mo- health suffers. By having ventilators to be satisfied. You said you was looktion bestes which gradually forces in the roof, together with plenty of ing for a fight. the partie digested mass along to window at such a height that the Canny Canute (the vanquished)ward the lower end. The saliva can read the west blow directly upon the Yes, but I only wanted to watch & tinues to s on the starch, and snoth | naima' or fluid in matric juice, is poured and in-

tain none of their food from the out from the walls of the stomach. The main duty of this gastric juice is to change the albuminoids into a form in which they can be absorbed and used by the animal

Cattle and sheep have a very large stomach, which is divided into four parts. Animals of this kind are called fessor? ruminants. When the food is swallowed it passes into the first stomach. which serves the purpose of a storehouse. Here the action of the salfva continues, and the water which the unimal drinks softens the feed to a considerable extent. After a time the food passes into the second stomach. which forces it back to the mouth, a little at a time. Here it is chewed thoroughly. You have often seen cows lying in the shade "chewing their cud." This cud is the food that is hard to digest, but some of it is has been sent up to the mouth by the second stomach.

After being chewed the food is swallowed again. This time it passes to these three constituents of food it directly through the first stomach to also contains some mineral elements, the third. Here it becomes still further softened, finally passing into the fourth or true stomach. The function of the first three compartments is bones, hair, horns and hoofs. The al- simply to prepare the food to be acted upon by the true stomach.

After leaving the stomach the partially digested food passes into the small intestines. Here it is acted upon by three fluids-the bile, pancreatic juice and intestinal juice. The chief use of the bile is to digest the fats, making them into a sort of a sir. I've had a lot to do with pigs. soapy fluid, in which form they are ready to be absorbed into the blood.

Both the pancreatic and intestinal juices act upon the remaining starch. completing the change into sugar. The pancreatic juice also completes the di gestion of the albuminoids, in which work the intestinal juice may also take a small part. Another work of the pancreatic juice is to assist in decomposing the fats. The intestinal juice breaks cane sugar up into simpler sugars, such as glucose.

After the food has been digested the usable portions are ready to be absorbed into the blood. Digestion has changed the fats, proteins and starches into a form in which they are soluble. In this fluid state they pass through the walls of the stomach and intestines and are emptied into the blood.

The blood is taken to all parts of the body by the arteries, which subdivide to form tiny capillaries. These are so small and close tegether that a pin prick on the skin anywhere will pierce some of them. There are two main parts to the blood-the fluid of plasma and the red corpuscies-which give it

the blood the food materials which it needs. Thus the bones will take ash, while the muscles will take protein. liver in the form of glycogen to be to build up their wormout parts. The waste, broken down parts are burned. together with as much fats and sugcan be used by the animal they must are as are needed, to furnish heat and energy. All through the body there are thousands of little fires. To keep taking the food into the mouth. Each those fires going oxygen is used, and class of animals has a different way carbon dioxide is given off in the same of doing this. Watch the cows feed- way that a are in a stove takes in ing in the pasture. They reach out oxygen through the lower draft and

mouthful of grass, breaking it off with | in the body the corpuseles supply a peculiar twist as it comes against the extent and carry away the car their lower teeth. They cannot blue it bon dioxide. The other waste maoff, since they have no upper teeth torials, or ashes, are nathered up by in front. The horse garbers in the a system of tessels called i implication grass with his lips and bits if of he which cupty into the veine. These tween his teeth. For his reades veins carry the blood back to the horses can eat gines down much closer | heart. The charge of the contents of the correspond from expans to est-After the field is taken into the hon distributions the color of the nouth it is chara-d and mixed with blood from a bright red to a cort.



veins, it is sent to the lungs, where the corpuscies exchange their carbon another trip through the body.

Since oxygen plays such an important part in keeping up the fires that to be swallowed and acted upon by air as it is that they have enough food. In the winter especially the While the essential processes of distables are often closed so tightly in

In consequence the work of the to ean to admitted from a distance. sir drawn of constantly.



F.W. AVES Hostess-And what interesting experiment are you engaged on now, pro-

Professor-Raising canaries from canary seed



Grumpy Farmer (engaging a man)-Well, you'll do. Start right away. Farm Hand-1 think I'll please ye,

The Optimist.



"Waiter, this knife is blunt, and the steak is like leather." "Yes, sir; do nicely for stroppin' the

knife on, sir." "A Hunting Case Watch."



Evelyn-if i had an airship I'd fly awny and seek my fortune. Howard-If you had an helrship your fortune would come to you

Enchantment Viewpoint



The Victor-There! Now you ought

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