WILLAMETTE FARMER: SALEM, OREGON, FEBRUARY 25, 1887.



Stock.

The Cow's Cud

In all discussions it is important to define and understand clearly the terms used. We use the term "cud" to de-Scribe the term pellets of food which are brought up from the stomach to be thoroughly chewed. The cow in grazing swallows her food very imperfectly masticated, and then at her leisure brings it up to the mouth again and chews it up finely. Any one who has watched a cow must have observed the morsels of food coming up the gullet when the animal makes a kind of belching effort. Animals that chew the cud are spoken of in the Bible, and known as such by mankind at large. The "cud is something that is chewed-must be in the mouth, and cannot be exclusively in the stomach. We do not suppose that our correspondent thinks that the object that came out of the cow's mouth was was habitually or even occasionally in the cow's mouth-its accidental presence there choked the animal. It could not be a "cud," whatever it might be. The walls of an animals stomach are muscular, and in the contraction of these muscles keeps the contents of the stomach stirred and moving. In this way the cruder, undigestible portions of the food may sometimes be rolled up together into masses. Balls of hair are sometimes formed in this manner. A nucleus thus started may gather earthly materials gradually around it, and thus the "mad stones" found in the stomach of the deer may be formed. We presume the object you saw was one of these conglomerations of indigestible matter. Its peculiar shape may have been due to its being lodged in one of the folds of the stomac'. Losing the "cud" means losing the muscular power to bring up portious of the swallowed food back to the mouth. The animal in health has the power of folding the walls of the stomach so as to make a channel or tube for the food to come up through; and a similar arrangement for swallowing the chewed food, so as to make it pass down into a different stomach from that from which it came. some disorders of the stomach interfere with these movements, and the animal cannot bring the food back into the mouth, and cannot therefore chew the "cud."

Guernsey Cows for the Dairy.

"Within the last five years I have adopted the grade cows of this breed by the use of thoroughbred Guernsey bulls to my herd of high grade short horn cows, thus producing a better class of milkers for butter making, the short horns not being always up to the required standard for that object. Not that the short horns in their original condition was not satisfactory dairy cows for many years after their importation to our country, but running so much and early to flesh, and cultivated more for the latter purpose, the milking much left out. Patrons, remember the quality has been neglected, and the almost exclusive milking breeds lately introduced here, as the Ayrshire, Jersey and Holstein, have partly taken their dairymen and private places with private families. Thus far, my short experience favors the Guernsey over either of the others, of perhaps a like origin with the Jerseys in centuries I prefer them to Jerseys for their great size and hardihood, robust forms carrying more flesh and equal quality and quantity of milk, according to size. Not that I at all undervalue the Jerseys in the opinions of those who prefer in the opinions of those who prefer them, but their diminutive size and kean-ness of flesh do not suit my fancy. The full square udders, good size of their toats, easiness of milking, and lymphatio temperment of my half and three-quar-ter grade Guernsey cows equal my ex-pectations. "I intend, as time progresses, with a continuous use of thoroughbred bulls, to breed the grades still higher, it hav-ing been fully proved with those who have long used both Guernseys and Linker to are fully proved with those who ing been fully proved with those who have long used both Guernseys and Jersoys that well graded cows of those bloods give as rich milk and high quality of butter as thoroughbreds, at much less cost of purchase than they. Ayr shires are valuable for cheese-making; so are Holsteins; but the lessened quali-ty of milk of the latter, compared with the largely superior quantity, give mea-ger weights of butter. Yet for supply of milk for city, village and ordinary family use they may be superior to some others. I do not wish to depreciate them.

as any other kind of meat, and perhaps longer. A few sheep can be kept along to kill as they may be wanted, and they will be growing better all the time. An excellent plan is to kill and corn, or to salt the carcasses down in a weak brine. A very fat sheep is best this way, and corned mutton will be found to digest well and better than when fresh. The meat may be packed in a clean barrel or in stone crocks, and the brine poured over it. Five pounds of salt to 100 pounds of meat will be about right in cool weather. The blood should be drained out of the necks, and any bloody portion by soaking it in water before the meat is packed. Soaking six hours is sufficient. The hams may be smoked and cut up like dried beef, or they can be boiled. Both ways tney are excellent. The corned mutton will make a good change from szusage or spare ribs. A good deal of the peculiar mutton taste is taken out of it when

Sore Teats in a Cow.

mutton is corned.

Rub the teats once a day with an ointment of one drachm of Verdigris (acetate of copper) to one ounce of lard . This is an excellent application to sores generally. One of the best for "scratches" in horses.

D. R. Livesay, of Clackamas, has a couple of fine Herefords from the famous Miller herd of Illinois. They cost him nearly \$1000, and we are pleased to learn they are wintering well. The Pay of teachers and expenses value of breeding from good stock is in calculable, and we hope to see our farmers turning their attention more in that line. It pays .- Oregon City Enterprise.

Even the organ grinders that furnish the music on the streets of New York city have a trades union of 882 members. Unlike the Grange, and some other Organizations, they are in favor of a "grinding monopoly."

"The Order of Patrons of Husbandry is the grandest organization the world has yet seen for the elevation and education of the farmers and their families Its good work is more apparent year by year."-J. W. Lang, Executive Committee Main State Grange.

The Hatch Experiment bill appropriating \$15,000 yearly to each State in the Union towards sustaining experiments in all matters pertaining to practical agricultural has passed the Senate. The National Grange and the various State Granges have given their active support to this measure. It now becomes the duty of all good Patron and progressive farmers to see to it that in some of our States this money does not go the same way that the appropriations made by Congress many years ago have gone; being absorbed and overshadowed by other colleges and agriculture very plank in our platform which says : "We especially advocate for our agricultural Pay of reward to John Thom-

THE APPROPRIATION BILL.

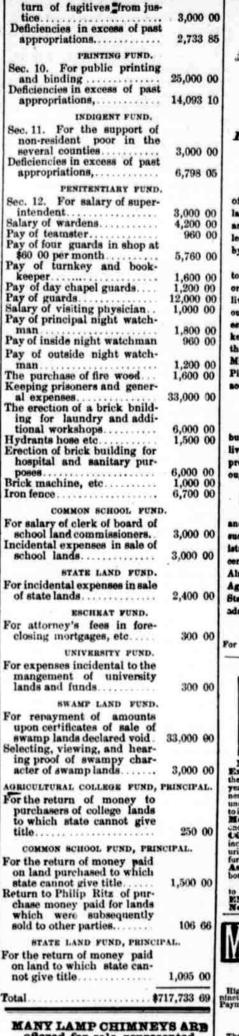
The Amounts Which Have Been Disbursed by the Fourteenth Session of the Legislature.

(From Salem Statesman.) The following are the amounts of the appropriations for further disbursement and for claims for past work, improvement, etc., which were legally authorized by the legislature to be paid out, yesterday :

EXECUTIVE FUND.

to the governor For salary of secretary of state For clerical assistance in the office of secretary of state, October 1878 For salary of state treasurer... For salary of clerk to state treasurer For salary of superintendent of public instruction For salary of state librarian For salary of prison inspector GENERAL FUND. Sec. 2. For salary of pilot commissioners or salary of health officers. For salary of janitor and assistants. Traveling expenses of supt. public instruction Pay of night watchman at capitol ... Contingent expenses of state library Purchase of books for state library. of mute school, for addi-tions, improvements, etc., thereto Pay of teachers and expenses of blind school Purchase vol 13 Or. sup. court reports. Addtl. clerks in office sec'y state Clerk to supt. pub. inst. Clerk to supt. pub. inst. State board of agriculture.... Protection of dairy products Lighting public buildings. Relief of Oregon pioneer asso-ciation ciation Sewerage additions and neces sary improvements, and for industrial department at the Oregon blind school. Wireing public buildings for the electric light Electric light, from Oct. 1886 to Dec. 31, 1886. Blanks for public schools.... Pay of T. A. McBride as at-torney in pilotage case. Relief of T. C. Powell. Pay of Wilhelm & Strobell for rent. Pay of J. Q. A. Bowlby. Relief of W. W. Travillion. State militia expenses or additions, repairs, etc., to insane asylum. Support of Orphans' Home at Salem. Support of Home at Portland Preparing accounts for claims of state against the general government and for other expenses of adjutant general's department upport of state agricultural college Deficiencies in appropriation

For salary of governor.....\$ 3,000 00 For salary of private secretary 2,400 00 3,000 00 3.000 00 1,600 00 keeper. 3,000 00 3,600 00 1,000 00 400 00 1,200 00 man 1,200 00 3,600 00 3,240 00 1,400 00 1,800 00 400 00 5,000 00 13,700 00 8,000 00 1,800 00 3,600 00 1,600 00 10,000 00 5,000 00 10,000 00 500 00 2,000 00 3,750 00 ,250 2,700 00 250 00 108 20 240 title 300 00 1,028 40 501 22 55,550 00 3,000 00 3,000 00 600 00 5,000 00 Total. for prison and capitol im-16,858 50 401 00 Conveying insane patients to the asylum (deficiency) 950 00 49 96 700 00 500 00 10,000 00



DR. JAYNES AGUE MIXTURE A CERTAIN AND EFFECTUAL REMEDY Fever and Ague, Intermittent and Remittent Fevers, &c. This class of diseases so common in all parts

of the World, and especially prevalent in malarious districts and vicinage of water-courses, are almost invariably accompanied by more or less derangement of the liver, and frequently by a defective action of the digestive organs. The mere breaking of the Chill is but a step towards completing a radical cure; the various organs of the body, especially the stomach s' . liver, must be brought to a healthy and vigorous condition before a permanent cure can be established, and this fact has been specially kept in view by Dr. Jayne in his treatment of these complaints. The use of Jayne's Ague Mixture, in conjunction with Jayne's Sanative Pills, as prescribed in the Directions which scoompany each bottle, will not on!"

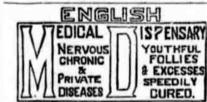
BREAK UP THE CHILLS.

but restore the system, more particularly the liver and stomach, to a sound condition, and so prevent a relapse of Fever and Ague by thoroughly

ERADICATING THE DISEASE,

and the best evidence of this is the invariable success which has always followed'the admin istration of these remedies, as attested by the certificates published annually in Dr. Jayne's Almanac, and the wide-spread popularity of the Ague Mixture in those districts of the United States, where the diseases, for which it is adapted, most prevail.

For Sale by Soell, Hitzhu & Woodard, Portland.



Nervous Debility, Seminal Weakness, Exhausted Vitality, Lost Manhood, and al the terrible effects of self-abus and excesses in matures years, such as nocturnal emissions, loss of memory, dim-Ex Battsteri Vitality, Lost Manihood, and all the terrible effects of self-abuse and excesses in maturer years, such as noctural emissions, loss of memory, dim-nets of vision, aversion to society, the vital fluid passing unobserved in the urine, and other symptomsthatlead to insanity and death. Young and Middle-aged Mem suffering from the above should consult us at coce. Curre guaranticed in all such cases. CONSULTATION FREE. Chemical Analysis, including thorough microscopic examinations of the urine, \$5. An honest opinion given in all cases. We furnish The Great English Reemedy, Nir Astley Cooper's Vital Restorative at \$1 a bottle or four times the quantity, Sio. SAMPLE BOATLE PREE to anyone stating symptoms, sex and age. Address

to anyone stating symptoms, sex and age. Address ENGLISH MEDICAL DISPENSARY No. 11 Kenrny St., San Francisco. Cal-



Corning Mutton

It would be a good plan if all the sheep growers in the country would set the example of eating mutton to the farmers and the world. For some reason, we cannot divine what it is, mutton is not nearly so popular as it ought to be. Its digestibility and nutritious qualities certainly entitle it to more consideration than it meets. As a way of making mutton a more desirable meat for use on the farm in respect to keeping it, etc., an exchange suggests that it be corned.

Farmers should take advantage of the cheapness of sheep, compared with beef cattle, and buy a small flock of sheep in good condition to grow into mutton for the use of their families through the winter. Mutton will keep as long fresh and industrial colleges, that practical agriculture, domestic science and all the arts which adorn the home, be taught in their courses of study." It is easier to have the appropriation for Experimental stations start right than it will be to get the money away again when it has once fallen into other hands. Act now and act all together.

Renews Her Youth.

Oreg in Kidney Tes cures backache.

1887. HARPER'S BAZAR. ILLUSTRATED. Harper's Periodicals.

HARTHE BARAE combines the choicest literature and the finest art illustrations with the latest fashions and the most useful family reading. Its stories, posm and essays are by the best writers, and its humerous sketches are unsurpassed. Its papers on social sta quette, decorative art, house keeping in all its branches cookerv, etc., make it indispensable in every house hold. Its beautiful fashion-plates and pattern-shee cupplements enable ladies to save many times the cost of subscription by being their own dresumakers. Not a line is admitted to its column that could shock the most antidious taste.

Fer Year.

I	ARPER'S	BAZAR		4
T	ARPER'S	MAGAZINE	4	1
H	ARPER'S	WEEKLY	- 4	1
H	ARPER'S	YOUNG PROPLE		1
ü	ARPPR'S	FRANKLIN SQUARE LIBRARY.		2
		oar, (52 numbers)	10	4

Postage free to all subscribers in the United State

tes of the Bazar begin with the first Num ary of each year. When no time is men il be un-sentsood that the subscriber wishe with the Number next after the receip

f order. The last three Annual Volumes of Harper's Barr, in eat cloth binding, will be sent 'y mail, postage paid r by express, free of expense (provided the freight oes not exceed one dollar per volume), for \$7.00 per

volume. Cloth cases for each Volume, suitable for binding will be sent by mail, postpaid, on receipt of \$2 exch. Remitt-nest should be made by Post office Money Order or Draft, to avoid chance of loss. Newspapers are not to copy this advertisement with out the express orders of Harper & Bros.

as and Wm. Griffith, for rest of Henry Harvey for killing Robert Grant Purchase of 1,000 copies of Hill's code Capitol improvements Improvement Orphans' Home Salem Purchase of portraits of gov-ernors of Oregon

provements.

Pay of Albert Olinger.

Pay of J. A. Stratton ...

Payment of expenses of Q. J. Rogers, delegate from Ore-gon to attend Cattle Growers' association at Chicago Relief of W. L. Wade Advertising state warrants,etc Purchase of set of surgical instruments for penitentiary ...

JUDICIAL FUND.

Forsalaries of supreme judges, circuit judges, prosecuting attorneys, and clerks and bailiffs of supreme court.

LEGISLATIVE FUND.

For pay of mileage and per diem of members and offi-cers of the legislative assem-bly, and other necessary ex-penses of the 14th biennial session of the legislature, in addition to amount appro-pristed therefor by act appriated therefor by act ap-proved Feb. 2, 1887, or so much thereof as may be ne-

INCIDENTAL FUND.

For lights, fuel, water, postage, expressage, telegraph-ing, expenses of state teachers' institutes, state stamps, pay of laborers, messengers, and other incidental expenses of the executive, adminis-trative, and other depart-ments, and of the supreme court, or so much thereof as 25,000 00 may be necessary

INSANE AND IDIOTIC FUND.

for pay of officers, employees, and other necessary expen-150,000 00 asylum Returning patients to their 1,000 00 homes

INSANE FUND.

For conveying insane and idiotic persons committed to the Oregon insane asylum. c. 8. For the transportation of convicts of convicts.

FUGITIVE FUND

Sec. 9. For the arrest and re-