A Cotton Fertilizer.

rchase only such fertilizers for cotton which contain to 4% actual potash:

n, Fertilizers should contain 6% Potash.

sults are due entirely to deficiency of Potash.

went you our pamphlets on the Use of Potash. It will cost you nothing to read them, and they will save you GERMAN KALI WORKS, 93 Nassau Street, New York.

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GENTS WANTED SALARY OR COMMISSION.

Does This Hit You?

The management of the Equitable Life Assurance Society in the Department of the Carolinas, wishes to secure a few Special Resident Agents. Those who are fitted

It is work, however, and those who succeed best in it possess character, mature judgment, tact, perseverance, and the respect of their community. Think this matter over carefully. There's an unusual \$ opening for somebody. If it fits you, it will pay you. Further information on request. W. J. Roddey, Manager, Rock Hill, S. C.

DoucLAS 3 SHOE IS THE BEST. \$3.89 FINE CALF&KANGAROO. \$3.50 POLICE, 3 SOLES. \$250 \$2. WORKINGMENS \$2.\$1.75 BOYS'SCHOOLSHOES SEST DONGOLA SEND FOR CATALOGUE

W. L. Douglas \$3 & \$4 Shoes All our shoes are equally satisfactory They give the best value for the money.
They equal custom shoes in style and fit.
Their wearing qualities are unsurpassed.
The prices are uniform,—stamped on sole.
Prom \$1 to \$3 saved over other makes.
If your dealer cannot supply you we can. Sold by

> Heilig & Pendrix, Mount Pleasant, N. C.

Rey. Z. Rush. of Concord, N. C., has recommended the Electropoise becouse he knows a good thing when he sees it. It will cure you Information free. For sale or Rent. Agents wanted.

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Late Man. Atlantic Electropoise Co.,
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Chamberlain's Eye and Skin Ointmen Is a certain cure for Chronic Sore Eyes, Granulated Eye Lids, Sore + Nipples, Piles, Eczessa, Tetter, Salt Rheum and Scald Head, 25 cents per box. For sale by druggists.

TO HORSE OWNERS. For putting a horse in a fine healthy conion try Dr. Cady's Condition Powders. They tone up the system, aid digestion, cure loss of appetite, relieve constipation, correct kidney disorders and destroy, worms, giving new life to an old or over worked horse. 25 ent per package For sale by druggists

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SE BARNE'S INK A. S. Barnes & Co., 56 E. 10thSt, N. Y. HINDERCORNS. The only sure cure for Corn Chance to Make Money.

The times are hard, but there always seems to be opportunities for those who are willing to work. In the past month I have made \$175 above all expenses, selling Climax Dish Washers, and have attended to my regular business besides. I never saw anything that gave as general satisfaction. One should not complain where they can make over \$6 a day, right at home. I he ve not canvassed any, so anxious are people for Climax Dish Washers, that they send after them; any lady or gentleman can do as well as I am doing, for anyone can sell what everyone wants to buy. I think we should inform each other through the newspapers of opportunities like this, as there are many willing to work if they only knew of an opening. For full particulars, address the Climax Mfg. Co., Columbus, Ohio. After you have tried the business a week, publish the results for the benefit of others.

expressed for him there.-Baltimore

The Greatest Value.

I wonder many times that ever child of God should hafie a sad heart, considering what the Lord is preparing for him.—S. Rutherford.

Some people dislike to have sermons read. The Scotch have a saying : "Hee can we mind the ministers sermon if he canna mind it himself?"



dly, when you set out et "something for your Dr. Pierce's Golden Medical Discovery gives you a proof. Its makers say that as a blood-purifier, flesh-builder, strength-restorer, if it isn't the medicine for

you, they'll return the money.

It's guaranteed to cure or benefit, in the worst Skin, Scalp and Scrofulous Affections.

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THE OBSERVER, CHARLOTTE, N. C.

THE EXPERIMENT STATION



Fertilizer Analysis for 1895-Hog Choler Cotton Seed Feed, Ox Warble Fly. Read Questions and Replies.

February 1895.

The Experiment Station Bulletins. The standing offer is made to send the bulletins of the station to all in the state who really desire to receive them. They are specially prepared to be serviceable as far as possible to the practical farmer. Thousands of farmers have already taken advantage of this offer. Unless you really want to be benefitted please do not apply for them

Fertilizer Analysis for 1895. A bulletin has already been issued by the experiment station (No. 111) which gives in detail the standing of all fer-tilizer brands on sale in North Carolina in 1894, as determined by analyses of samples taken by official inspectors. This bulletin is issued in advance of the new analyses which are issued every two weeks during the season of 1895 The first of these bi-weekly analyses will appear on Feb. 16, 1895. A special application is needed for this series. Apply to Dr. H. B. Battle, Director, Raleigh, N. C.

The valuations of the unmixed in-redients at the seaboard have been fixed at 4% cents per pound for availa-ble phosphoric acid, 14 cents per pound for ammonia, and 5 cents per pound for potash. The phosphoric acid is rated one-half cent lower and ammonia one cent possible. ammonia one cent per pound lower than for past seasons. The reprint-ed analyses of 1894 are calculated on the new basis of valuations. Hog Cholera.

A correspondent writes: "Could you rive me anything that will prevent hog holera, or that we could use as a cure? Great numbers of hogs are dying here with it daily. Please tell me if there is any remedy or even a preventive." The answer to this in substance was: There are preventive measures which may be used and which may ward off the disease in a large number of cases. Indeed, some breeders claim to be able to cure cholera if they can get to the animals before the appetite is gone, but not after food is refused. This remedy or preventive is carbolic acid. How little will protect, or how much the patient an bear I am not informed, but about 10 drops would be a dose for an adult

and less for younger swine. The better way to feed and adminis-ter medicine with food would be to prepare all food immediately before feed-ing, stir in as much medicine as needed for the pigs being fed. Then clean up and disinfect afterward. Clean up all foul places to which pigs have access. Keep sleeping places warm and dry. Try to prevent buzzards from visiting pig runs and feeding places. Bury the dead, or better cremate dead bodies, and disinfect with carbolic or bichloride solutions or with a cheap solution made by suspending a coarse bag containing 20 pounds copperas, (sulphate of iron) in a barrel of soft water. After a little time the solution can be used as wanted and more water added until the cop-

peras is gone from the bag.

The health of the pig may be promoted by keeping a mixture, made as follows, where the pigs can get it at will: 1 peck hard wood ashes; 1 pint salt, 1 peck charcoal. This recipe might

The Ox-Warble or Heel Fly. One of the most destructive pests of domestic animals is the ox-warble or bot fly, hypoderma lineata. This parasite, while probably not very painful to the animal infested, is expensive to the owner of the animal since hides or skins showing warble holes are docked one-third of their value. The presence

back where it forms a tumor just be-neath the skin. Here it rests for some time and completes its growth as a maggot. Each tumor, if closely examined, will show a small pore through which the maggot obtains air. When full grown the maggot enlarges this pore and through it comes out and drops to the ground into which it enters and remains dor.

shedding, horned cattle should have the tail, belly and legs—especially the parts just above the hoofs—rubbed two sulphur. In January and February the backs of cattle should be carefully then rubbed on the spot. If the mag-

and if all the maggots infesting cattle on any farm are killed in January or February that farm will be nearly or quite free from the parasite for some years unless introduced with new stock. Carthy, N. C. Experiment Station.

Can Be Utilized by Farmers. how ton values are calculated una the seaboard valuations for the unmix-

constituents present in the fertilizers is parts per 100. The percentage is accordingly multiplied by the valuation per pound to get value per 100 pounds. This is now multiplied by 20 to determine the value per ton (2,000 pounds) This is done for all three constituents, and the three amounts are added together to arrive at the value per ton. The following is an example:

The value per ton as here given represents the market price per ton at the seaboard of the unmixed ingredients. For interior points, railroad freights to those points must be added.

(less than five tons) in bags, at the sea-board. By a comparison of these values as given by the Experiment Station, a farmer can see how much he is being charged over and above the actual cost of the raw materials. The manufac-turer in addition has to allow for mixing the ingredients, branding the bags, handling, fixed charges, agent's commissions, profits, etc., together with freight to the interior point. The cost of mixing, sacking and branding the

Considering all items, the price of a mixed ammoniated fertilizer at an interior town, ought not to be more than 25 to 33% per cent. greater than the relative seaboard value per ton of ingredients as given in the tables found by analysis, with of course, the freight from the seaboard to the interior point added.—H. B. Battle, N. C. Experiment

A correspondent (R. N. P.—Reidsville, N. C.) writes: Will you kindly write me our opinion in regard to the value of "cotton seed feed" as prepared at the mills as an economical food compared with other foods raised on the farm? Do you think it will do to feed it to

valuable and cheapest foods for stock we have on the market. It is now being fed in small quantities to the Station's mules but is not being relished by them.

Cotton seed hulls are a course food con-taining little digestible matter. They are, however, an excellent medium for dividing fine meal in the animal stomach. Please note pages 423 to 426 of Bulletin 109 which bears directly on

See also articles II to V in Bulletin 81. The digestibility of cotton seed hulls as laid down in the latter has been reduced by later work. "Cotton seed feed" of the mills corresponds nearly to rations numbered 8 and 4,

can afford to waste either to buy hulls ready mixed with meal. It will pay farmers as well to follow Bulletin 104 in saving stalks and thus mix their own feed as cotton "seed feed" pays the oil

the following amounts of digestible nutrients per ton of food:

88.89 19.89 84.97 84.97 17.89 17.89 17.89 430.60 430.60 682.30 682.30 683.40 731.04 731.04 731.06 642.13 642.13 642.13 642.13 642.13

rations.

adding to the sum of the carbohydrate and protein 3.27 times the fat.—F. E. Emery, Agriculturist, N. C. Experiment

A Book for Young Men.

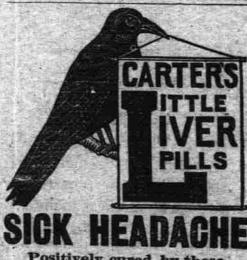
An immeasurable amount of suffering and injury to the human race, is due to the ignorant violation of physiological laws by the youth of our land. Ruin-ous practices are indulged in, through ignorance of the inevitable injury to constitution and health which surely The fly which causes this damage is bout the size of and very much restructive practices, to which so many to any who may unwittingly have violated Nature's laws, and are already suffering the dire consequences, an association of medical gentlemen have carefully prepared a little book which is replete with useful information to every young man. It will be sent to any address securely sealed from observation in a plain envelope, by the World's Dis-pensary Medical Association of 663 Main Street, Buffalo, N. Y, on receipt of ten cents in postage (for postage), if enclosed with this notice.

> When Baby was sick, we gave her Castoria. When she was a Child, she cried for Castoria. When she became Miss, she clung to Castoria. When she had Children, she gave them Castorie.

If wrinkles must be written upon, our rows, let them not be written upon the heart. The spirit should never grow old.-James A. Garfield.

bruises, Sores, Ulcers, Salt Rheum, Fe-ver Sores, Tetter, Chapped Hands, Chil-blains, Corns, and all Skin Ernptions, and positively cures Piles or no pay re quired. It is guaranteed to give per-fect satisfactio: or money refunded. Price 25c. a box. For sale by P. B. Fetzer.

cult one of silence. - Socrates.



Positively cured by these

Little Pills.

They also relieve Distress from Dyspepsia. Indigestion and Too Hearty Eating. A perfect remedy for Dizziness, Nausea, Drowsi-Regulate the Bowels. Purely Vegetable. Small Pill.

Small Price.

Small Dose.

The men wear their hair long and the

romen wear it short. The men carry on dressmaking and he women carry burdens.

Books are read backward, and what we call footnotes are inserted at the top of the page.
The Chinese surname comes first, in

instead of the hands of those they greet. The Chinese dress in white at funerals and in mourning at weddings, while old women always serve as bridesmaids. The Chinese launch their vessels side

The Chinese begin dinner with dessert and end with soup and fish.

An Eager and a Nipping Wind. A continuous down pour of rain, in clement weather, generally in winter and spring, are unfavorable to all classes of invalids. But warmth and activity infused into the circulation counteracts these influences and interpose a defens again t them. Hostetter's Stamach Bit ters, most thorough and effective of stomachies and tonics, not only enriches the blood, but accelerates its circulation. For a chill, or premonitory sym-toms of rheumatism and kidney com-plaint, particularly prevalent at these, seasons, it is the best possible remody. It is also invaluable for dyspensia, liver complaint, constipation and nervous ness. Never set out on a winter or spring journey without it. Elderly persons and the delicate and convalescent are greatly aided by it

If we could read the secret history of our enemies, we should find in each man's life sorrow and suffering enough to disarm all hostility.-Longfellow.

Salesmen Wanted.

Good wages offered to sell our Nurse Good wages offered to sell our Nurse ry Stock Apply for terms. We wil have for Spring and Fall, 1895, an immense stock of Apple, Pear, reach, Plum, Apricot, Chery, Grape etc. Also small fruits, shade and ornamental trees roses, etc. We make a specialty of wholesaling to large planters direct We will sell to responsible parties and take note payable in six, twelve and eighteen months. eighteen months. Writeus for wholesale prices. Address : SOUTHERN NURSERY CO., Winchester, Tenn.

Wicken men in time of sore trouble seek advice and counsel from good men, but, as a rule, good men do not seek counsel of wicked men .- Sel.

"A crick in the back," a pain under the shoulder-blades, water brash, bil-iousness, and constipation, are symp-toms of disordered stomach, kidneys, liver and bowels. For all ailments originating in a derangement of these organs, take Ayer's Pills.

Questions and sepites. The Station will be glad to extend its usefulness by answering at far as possible questions on agricultural topics sent by any one in North Carolina who may desire to ask for information. Ad-

may desire to ask for information. Address all questions to the N. C. Agricultural Experiment Station, Raleigh, N. C. Replies will be written as early as possible by the member of the Station staff most competent to do so, and when, of general interest, the j will also appropriate these accounts. The Station pear in these columns. The Station desires in this way to enlarge its sphere of usefulness and render immediate assistance to practical farmers.

Influence of the Moon The people here in my country are governed by the moon in nearly all things they do. They even will not make kraut, nor the old women will not make soap unless the sign is right. Hogs must be slaughtered or colts weaned according to the moon. Please give me any information or cite me to literature upon the above subject.—Dr. C. H. L. Farmers, N. C. (Answered by H./ B. Battle, Director N. C. Experiment Station.)

The belief that the moon has some effect upon the growth of crops and various other deeds of men is widespread in certain regions. There can be no reasonable claim that the moon does really influence any thing upon the earth in this way, and such trafall victims, as well as to reclaim and ditions doubtless have descended from point out the means of relief and cure our ancestors, who thought very much our ancestors, who thought very much more of natural objects and their possible effect upon their actions than we in this day. Doubtless one reason why this idea obtained credence is that formerly those who considered such to

Virgil, during the summer season, filled his house with butterflies.

What is

CASTORIA

Castoria is Dr. Samuel Pitcher's prescription for Intents and Children. It contains neither Opium, Morphine nor other Narcotic substance. It is a harmless substitute for Paregoric, Drops, Soothing Syrups, and Castor On It is Pleasant. Its guarantee is thirty years' use he Millions of Mothers. Castoria destroys Worms and allays feverishness. Castoria prevents vomiting Sour Curd. cures Diarrhoea and Wind Colle. Castoria relieves teething troubles, cures constipation and flatulence Castoria assimilates the food, regulates the stomach and bowels, giving healthy and natural sleep. Castoria is the Children's Panacea-the Mother's Friend.

Castoria.

"Castoria is an excellent medicine for children. Mothers have repeatedly told me of its good effect upon their children." DE. G. C. OSGOOD,

Lowell, Mass. "Castoria is the best remedy for children of which I am acquainted. I hope the day is not far distant when mothers will consider the real interest of their children, and use Castoria instead of the various quack nostrums which are destroying their loved ones, by foreing oplum, morphine, soothing syrup and other hurtful nts down their throats, thereby sending

medical supplies what is known as regular products, yet we are free to confess that the favor upon it." them to premature grave..."
Dr. J. F. KINCHELOE,

merits of Castoria has won us to look win UNITED HOSPITAL AND DISPERSION.

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H. A. ARCHER, M. D.

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"Castoria is so well adapted to children

"Our physicians in the children's depay

ment have spoken highly of their erps

ence in their outside practice with Castora

and although we only have among or

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if New Styles, Fine Work and Low Prices count for anything, Pon't you think it foolish to pay \$17.50 or \$20.00 for an Oak Bedroom Suit when you can buy a better one from me in Oak for \$13.50? It is wise to pay \$30.00 for a Parlor Suit to one dealer, when you can buy a better one from me for \$22.50? I can offer you the same saving in all grades and styles of Furniture. THE LARGEST STOCK for you TO CHOOSE FROM ever displayed before.

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permanent cure for the HOME STUDY. TOBACCO HABIT sent on 60 days trial. When you write explain "your wants." Address: J.F. Draughon, Prest, Nashville, Tenn. N. B. It pays cash, 85, for vacancies as book keepers, stenographers, teachers etc., r parted, provided it fills same. in all its forms. Guaranteed in every case.

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A PAMPHLET. "How to Obtain Patents," with A PAMPHLET, "How to Obtain Patents," with cost of same in the U. S. and foreign countries

Sale of Land by Trustee.

C.A.SNOW&CO. OPP. PATENT OFFICE, WASHINGTON, D. C.

The undersigned trustees, by authority of a deed in trust executed to them by V C. Smith, on February 1st, 1887, and duly registered in the Register's office of Cabarrus county in Book No.

3, pages 200-1, default having been made in the payment of the debt therein mentioned to be secured when the same became due, will sell for cash to the highest bidder, at public auction, at the court house door in Concord on Setundar, the 9th day of March 1895 Saturday, the 9th day of March, 1895, the following described lot of land, the undivided interest of the said V. C. Smith in the house and lot known as the W. A. Smith residence situated on A Rare Opportunity & Union street in the town of Concord, N. C. adjoining the lot of Dr. Phifer Orbson, the lot of Joet Reed (on the back), and the Methodist church lot, the same being the lot described in said

mortgage trust deed.
M. M. FURR D. C. FURR, M. L. RITCH,

"The best selling Vermifuge in the Marker."

Trustees

The most reliable worm destroyer in use. Receipe furnished to any regular Physician when requested.

La Grange, N. C., July, '87.
Mr. J. P. Joyner, I gave my child one
dose of Boykin's "Worm Killer," purchased of you. It brought 366 worms.
I consider it the best worm medicine Respectfully, J. W. THOMAS. Duck Creek, N. C., May 8, 1884, Boykin, Carmer & Co, Baltimore, Md.—Dear Sirs: Mr. A. Rudd, a very

responsible customer of mine, gave a half teaspoonful "Worm Killer" to a child fast week and the result was 35 worms. Mr. Daniel Pines used it with still better results: 75 worms from one child; of course my sales will be Yours truly, E. S. SMITH, Read the following from one of the nost prominent and best known Physiians and farmers in South Carolina.

He writes, "That a negro girl 10 years ld near him, took two or three doses of the "Worm Killer," and passed 366 worms." R. H. EDMUNDS, M. D. Mr. H: M. McDonald, of La Grange, V. C., says Dr. Boykin's "Worm Killer" brought over 100 worms from one child in his neignborhood. and that it gives universal satisfaction He sells more of it than all other worm medi-

Any M. D. can prescribe it and many lo. BOYKIN, CARMER & CO: FARROW'S

Do not let your Druggist or General Deeler put you off with some other. Ask for "Boykin's Warm Killer" and

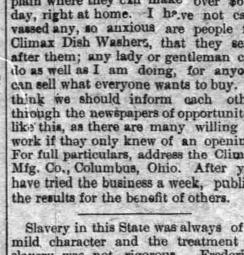
This is the Standard Military Encyclopedia of the world and the only work of its Kind in the English language. It has the endorsement of the War tepartment and the leading military commanders of America and Europe It is issued in three large octavo volumes of about 1,000 pages each, printed on fine paper, from new electrotype plates, profusely Illustrated and handsomely bound. It is a complete library of military information both for military and non-military people. Every fibrary should have it. Circulars sent on application. Good agents wanted.

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Slavery in this State was always of a mild character and the treatment of slavery was not rigorous. Frederick Douglass entertained pathing but him a but him Douglass entertained nothing but the most kindly feelings for the family in Talbot county whose slave he was. Late in life he paid a visit to the scenes of his childhood and was received with the utmost kindness. Instead of the scenes of his native place being hateful to him, they excited nothing but deep interest, and the sentiments which he expressed were no less kindly than were

You get the greatest value out of a silver quarter when purchasing a pack-age of Simmons Liver Regulator, pow-der. There is nothing like it for indirestion or constipation. Take it dry, on the tongue, or make a tea. You'll afterwards take it in preference to pills.

IT'S A LEAP IN THE DARK,

DR. R. V. PIERCE: Sir-I have a boy who was a solid mass of sores over his arms and less and back from the time he was six months old until he was five years old. I gave him Dr. Pierce's Golden Medical Discovery and Pleasant Pellets. He has been well now for over two years. Four bottles of Dr. Pierce's Golden Medical Discovery made a final cure of him.

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The values per ton represent unmixed ness, Bad Taste in the Mouth, Coated Tongue ingredients. They show what would be the approximate cost of the ingredients regulate the Bowels. Purely Vegetable. to a farmer in case he bought them himself for mixing. The cost is, as stated on ' of cash in small lots

bags will not vary greatly from \$2.60

orses and mules? Cotton seed meal is one of the most

page 421 of Bulletin 109 (approximately 5 lbs. hulls to 1 lb. meal).

Their use for stock depends on price of straw and its preparation. With straw or corn stalks on hand no one mill men.

Our cotton seed feed rations contained

be extended by adding 1/2 lb. sulphur, 1/2 lb. black antimony and 2 lbs. sulphate of iron, pulverized.

Great dependence should be placed on prompt destruction of dead bodies and proper disinfection immediately afterward, accompanied by the admin-istration of carbolic acid with this mixture kept where pigs can eat it if they are inclined to do so.—F. E. Emery, Agriculturist, N. C. Experiment Sta-

of the maggots further decreases the amount and quality of the animal's flesh so that on the average, for a two year-old steer, the loss is apt to be well heeded. To assist such in acquiring a knowledge of themselves and bout the size of and very much resembles a honey bee. It deposits its eggs in spring, during the period of shedding of hair, on the legs, tail and celly of cattle, preferably yearlings. By icking these parts the eggs are taken into the animal's gullet where the mag-got hatches and clings to the walls. It soon bores into the tissues and eventually-during the succeeding fall or winter-finds its way to the animal's

into which it enters and remains dor-mant as a pupa for about six weeks. It then comes forth as a perfect fly to lay its eggs as before.

Remedies.—During the period of hair

or three times a week with a mixture of kerosene or fish oil and powdered examined for the tumors which are readily seen or felt just beneath the skin and the enclosed maggot squeezed out and killed. A little crude carbolic acid or mercurial ointment should be got can not be squeezed out the oil or ointment should be well rubbed in so as to close up the breaking pore in the tumor thus smothering the maggot. The warble fly is not a great traveller

Killing the maggots in the tumors is the easiest and surest way of getting rid of this expensive intruder. Gerald Mo-How Relative Values Per Ton are Calculated for Fertilizers and How They It may be of interest to some to know ed constituents of a fertilizer. The amount or percentage of either of these given by the analysis. This represents

Percentage or ibs per 100. Per 100 ibs. Per ton 9.64 Available Phos. Acid at... \$0.4338 \$8.68 2.36 Ammonia at 14c per ib... \$346 6.69 3.05 Potach at 5c per ib... \$1525 3.05 Total value... \$0.9.00 \$18.42

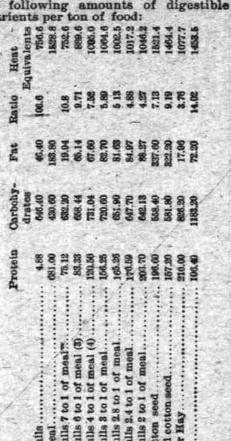
Chinese do everything backward hey exactly reverse the usual order o

Note first that the Chinese compass ints to the south instead of the north. The men wear skirts and the women

The spoken language of China is not written, and the written language is not

stead of last. The Chinese shake their own hands

ways, and mount their horses from the



The crimsom clover hay and corn meal are added to compare with these The heat equivalent is obtained by

Bucklen's Arnica Salve. The best salve in the world for cuts

There are two sciences which every man ought to learn-first, the science of speech, and, second, the more diffi-