# \* AGRICULTURAL. \*

#### NEW AND REAL AND A Good Forage Crop.

Dwarf Essex rape is a good forage the houses each summer, and thus extend the business on a firm basis, crop for beef cattle, but is hardly desirable for mileb cows, as it is liable to taint the milk. It is primarily a forage crop for sheep and hogs. It than to invest too much at the beginning. We learn better then by experwould be better to plant corn for ience what we need. Fancy farming cows or sow millet or some kind of does not pay, and those who have small grain like oats or rye, providing elaborate buildings are not always the the droughty season comes early in the summer. If it comes late in the ones who have the best success, Construct the main building on a fall, corn planted early will give all the green feed needed for the dairy slight elevation, if possible, where there is good drainage, and on the lee side of some hill or other protective animals. object. This will shield the house

### How to Make Axle Grease.

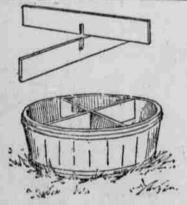
A very good axle grease is made by ters far more comfortable for the mixing 1 mixing 1 gallon of petroleum, 4 ounces of tallow, 4 ounces of palm oil, chickens. Build the house low and substantial. A high house lets in too 6 onnces of plumbago and 1 onnee of much cold air, and a low one is alnoda. Heat to 180 degrees Fahrenways warmer. Opening into this main hait for an hour or more and then roosting building there should be a Another axle grease is made by cool. scratching shed into which the fowls can go on stormy days and have all boiling 4 gallons of water with pound of Scotch soda and a 10-pound the exercise they need. This shed mixture of palm oil and tallow in any should be so arranged that the rool proportion which will make the grease | can open in places to admit the sunthe desired hardness. Heat to shine on clear days. We have many wintry days when it would be very boiling and then stir until the mixture is cooled down to 60 or 70 degrees. comfortable in any place, if the wind

#### Weeds Among Beans.

mitted. The laying hens in particular After beans have blossomed it is will appreciate such a scratching shed not best to work among them, espein the winter. cially if the weather and soil be wet, and there should be no cultivation out from the main building, and this while the leaves are wet with rains or should be made long, low and very dew. Hence the early cultivation of tight. The hens should be made as beans should be thorough, so as to comfortable as possible while on the allow them to ripen before the weeds nest, and this can be accomplished smother them. It is not best to plant only by bestowing special care in the beans on land that is very rich in construction of such a shed. In buildnitrogenous plant food, because such ing all of the henhouses for winter fand is very weedy. Soil of moderate use it will pay to give stone or brick fertility with a dressing of phosphate foundation the whole length. This and potash will make a good rain will keep out rats better than anycrop, while on the richer land with- thing else yet devised. Besides, it out the mineral fertilizer, there will makes the houses warm, dry and be only a large growth of haulm and durable. Then let the brick foundaleaves. tion run up a foot above and a foot

### An Out-of-Door Feed Trough.

below the ground. The cost in bricks will be made up for in the extra num-Where several hogs are quartered ber of eggs and hens saved from the in an orchard or other pasture they rats. The roof and sides should have must be fed out-of-doors. To keep tar or builders' paper tacked on be each one from crowding and fighting tween the outer and inner walls, and his neighbor when eating, make such a trough us is shown in the illustraall knot holes and chinks will thus be filled in. The yard for the chickens



PARTITIONED FEED TROUGH FOR HOGS.

The bottom part of a barrel is sawed off and two narrow strips of hoard are fitted together and nailed firmly into the trough, as in the drawing. A flour barrel can be made to answer this temporary purpose, but a trough from a stouter barrel will prove more lasting.

# Eggs and Early Molting. Early molters make good winter

layers, and it is safe to say that if poultry do not finish shedding feathers before cold weather sets in, they will be likely to postpone laying until

#### Preparing the Hen House For Winter, **UTILIZING BY-PRODUCTS.** It is never too early to begin the

just as soon as the cold weather

omes. It is better to add a little to

from cold storms, and make the quar-

could be excluded and the sun ad-

The laying shed should also open

to exercise in should be connected

with these buildings by a run way.

The yard should be large enough to

give the fowls ample room to run

about in without crowding up against others. On pleasant days they should

be made to stay out in the yard .-

Devices For Barvesting Corn.

Not every man knows how to stand

up a shock of corn which will not

twist or lean into an unrecognizable

mass after it has had time to season,

says a writer in the Iowa Homestead.

from which the cuts are reproduced.

When I put up corn by hand I always

use a jack like that seen in figure 1.

Pull the jack along to the place where

the shock is to stand, so that the

FIG.I

Farm, Field and Fireside.

building and preparing the heavery for the winter, and the man who does this work early is sure to have com-FURNING WASTE MATERIAL INTO MARKETABLE ARTICLES. fortable quarters for the laying hens

iome Ways by Which Manufacturers Are Enabled to Add to Their Wealth-Accidental Discovery of a Form of Mineral Wool-System of "Briquetting." The question of disposal of waste

naterial is an important one for every nanufacturer and industrial com-Preservation of water sup ply, availability of land for plant and storage, to say nothing of the pollaion of the air and general health of smployes, largely depend upon the solution of this problem, and it also means much in dollars and cents through the saving that incidentally may he accomplished. Coal and iron men were the first to

and the accumulation of debris a serious matter. Slack and slate could be out to no use. Furnaces were con rived that burned slack, but even then the difficulty was not obviated. When for slate and dust remained. soke was made, a vast amount of Riches went up in smoke until the than to discover. Do you know that ammonia, gas, tar and carbon were are so badly out of kilter that I am taken out, little being left. Gas manu- wearing as a substitute a razor stron facturers found a ruinous waste till that was formerly a suspender?' they began manufacturing tarred roofing paper, and even now they are not satisfied with the economy secured. Iron mill owners from carly days

have not known until recently what to do with fine dust and slag, and werkers of wood in saw and planing my head through them when I dress mills have had quantities of dust and in the a. m. shavings for which there was nothing but the furnace or torch, with danger of conflagration.

Pittsburg has been a centre of activity along these manufacturing tails, and perhaps it makes me look lines, and there the solution of saving lop-sided, but it doesn't make any devices has first been worked out. difference to me so long as I know Slag formerly was damped 'out in that I am not lop-sided. If these great hot masses to be broken up bations coming off bothered me as later with the sledge and taken by rail in Steubenville, Ohio, a workman, playing cold water through a hose apon redhot slag, accidentally turned the stream against molten metal. An explosion resulted, and when he Whitby, looked for the slag it was not there. Instead he saw a snowy mass that looked and felt like asbestos. That was the beginning of the discovery of one form of mineral wool. Several iron and steel companies have imprinciple remains the same. The wool is better than hair or taubark as a non-conductor for protecting and filling walls and floors of dwellings. Recently it has been used there in the manufacture of safes. Packed tightly

between the steel walls, it is impervious to the burglar's tools. It will break any drill known. Railroad men find that furnace slag,

well broken, is excellent ballast. It tiles, fire bricks and Portland cement. The kind of product depends on demand and local needs. The system of "briquetting" has provided new means of economy to dress.'

both mill and mine. "Briquetting" has been known in Germany, France and Wales for several years. through consular reports. It consists in compressing in moulds, by simple and others similar, dust and waste centrates, coal, peat, lignite, coke

### THE REAL REASON Whitby Explains Why Ha is Such

Picturesque Slouch "I can tell you one thing, Whitby, said Whitby's friend on the train the other morning, "you are about the most picturesque slouch that com mutes on this road. Now I would be so uneasy if I had the top button of my overcoat as you have that it would five pounds, impossible for me to contain my-

self, and yet you simply fasten the coat together with a safety-pin, and seem perfectly contented. "I try to be contented under al

circumstances and never to find fault," replied Whitby, with a good-natured smile. "It is a fine way to be constructed,"

replied Whitby's friend, "but that is not an excuse for slouchiness. Be cause a man is happy it is no reason that he should go around with a saw edge on his vest-binding sticking out like the whiskers on a cat.'

"Your remarks are not without a certain force," replied Whitby, with a broader smile than ever, "and they put me in fine humor, and I am going to tell you of a few other irregularities oraize (fine particles) accumulated. that may please you more to hear of by-product ovens came into use and at the present time my suspenders wearing as a substitute a razor-strop

"I would never suspect it from your gait.'

"Novertheless, it is quite true," replied Whitby; "and I have such big sagging holes in my shirt that I often wonder why it is that I don't thrust

"And still you are happy." "Perfectly," said Whitby, who con-

tinued "I have also a button off my much as one would naturally suppose, to be used for filling. One day I would get around the difficulty by wearing a sack-coat.

Here Whitby's friend began to roar.

"What's the matter now?" asked

"Why, your thumb and forefinger are sticking through your glove.'

"Of course they are; and that is what enables me to fish the change out of my vest pocket when I am on the fly, instead of groping round and proved upon the method, but the fumbling for it for five minutes. And my vest pocket has such a rip in it that I have pulled the hole up to a point and tied a piece of cord around

"And then," said Whitby's friend, "the bottoms of your tronsers are fearfully frayed."

"If that annoyed me," remarked Whitby, "I should certainly turn them up, like a true Londoner. But, you see, I want harmony, and that is is also ground there and made into why I like my trousers bottoms frayed like my coat-binding. I may be very slouchy, but I am all right on form. I never wear a high hat with a sack-coat or a colored shirt in full

"I know you don't; but if you did, you would not have a wider reputation It was than you have now. Some people brought to the attention of Americans think it is a wild affectation on your part-that you are copying the ways of the wild poet, whose greatness is so and powerful machinery, any pulver-ized substance and holding it by some and airy creations. I heard a stranger amalgam or "binder," such as resin, the other day speak of you as looking bitumen or oil. Through this system like an inventor, and probably being a man starving while trying to raise fragments may be used. Among the capital to put upon the market a gassubstances handled at a profit are store that can be operated without precious metal ores, tunnel dust, con- gas. And then you are not unlike a musical compos n appe haps you are going around in this way to make people believe you are a millionaire.

#### POPULAR SCIENCE.

#### It is reported that a meteor which fell recently in British Central Africa on the east side of Mount Bomba exploded with a noise that was heard for at least seventy miles to the north

and south. The fragments were scattered over an area of nine miles by three, and some of them weighed over The atmospheric ocean surrounding the earth is frequently disturbed by

gigantic waves, which are invisible except when they carry parts of the air, charged with moisture, up into a colder atmospheric stratum where sudden condensation occurs. In this manner long, parallel lines of clouds sometimes make their appearance at a great height, marking the creats of a ripple of air waves, running miles above our heads.

Notwithstanding the many traditions concerning mysterious lights seen hovering over swamps at night, and in spite of the attempted explanations of such phenomena in some popular books on science, Professor N. Shaler says he is inclined to disbelieve in the existence of these luminous appearances. He has studied swamps for many years, but has never seen a will-o'-the-wisp, and he suggests that the reports about moving lights visible above swamps may be due to subjective impressions induced by gazing into darkness.

Among the places visited by the German exploring ship Valdivia, recently returned from the Antarctic Ocean, was Bouvet Island, which, although discovered in 1739, was only known to have been sighted twice since its discovery, and until the Valdivia's visit had not been seen for more than seventy years. The island is the summit of a volcanic mountain rising three thousand feet above the Its crater is entirely covered sea. with ice, which caves down in a steep wall to sea level. It is situated about 1800 miles west of south from the Cape of Good Hope.

The operation of rhinoplasty is said to be a very common one at Heidelberg, Germany, where the students have long had the ugly habit of slashing each other's noses in their frequent duels. A flap of skin is almost detached from the forehead and brought down over the nose which has been measurably destroyed, this skin then being stitched down on either side of the nose, and in time becomes grafted thereto. Skin grafting is also quite common in cases of severe burns, Small strips of skin are taken from the untouched parts and cut into small pieces, then distributed over the raw surface. In time they take root and grow, spreading until they completely cover the place. The skin of frogs, recently killed for the purpose, is frequently used where human cuticle cannot be conveniently obtained.

In Cape Colony considerable sucfashions are made. But with the bicess has been attained in exterminatcycle it became popular once more; it ing locusts by inoculation with the was adopted by men, and is now worn looust disease fungus, and this preparation is now supplied by the di-rector of the Bacteriological Institute by riders all over the country. But the women got even with the men for to residents of the colony at an extaking the jersey away from them by going in for sweaters. There are pense of about ten cents per tube. In large quantities of sweaters made now one instance a hundred locusts which for women, who wear them at golf, in had been inoculated with the disease the mountains, in the gymnasium, and were distributed among a swarm, and for onting generally. The goods on the next morning and subsequent made for the use of women are usually days large numbers of dead insects of a superior grade, although they are were found on the saud dunes, killed, made also in the middle and low as was proved by a microscopical exgrades." amination, by the fungus. The fun-There are not many factories where gus from the dead locusts produced a sweaters are made exclusively, but nearly all the mills where underwear fungus more rapid in growth, but namer in size than that which had is manufactured produce some of these been produced at the Government popular garments .- New York Tristation. In some other experiments bune. the fungus was mixed with water in Christ, the Sun of Hightconst bring us to God and put us i that leads to Him. Rightcourse which the young locusts were dipped WORDS OF WISDOM. and then released. After three days' The meek, the disinterested, the rain fell, and on the afternoon of the guide, both in meeting God and ing Him. fourth day, heaps of the insects were anselfish, those who think little of themselves and; much of others-who found in the bushes about three miles of Zion." The writer here re-joleing which filled the hearts think of the public good and not of from the place where they were imtheir own-who rejoice in good done, mersed. The success of this method of the Israelites on their return tivity, in the midst of the a ment by Gentlies and Jews liverance was a wonderful deed of Jehovah. of extermination is shown by a comnot by themselves, but by others, by those whom they dislike as well as by parison of localities so treated with those whom they love-these shall gain more than they lose; they shall places where the fungus has not been tried, there being a marked decrease Joy in God, not seen of their and heathen had observed their cal-had triumphed in it. Jer. 22 'inherit the earth" and its fulness. in the numbers of the pest in the Without the resolution to do good former case. had triumpled in R. Jer. 52 137.7. Now they could not b their deliverance and admire the 3. "We are glad." The heat's spectators, but the people of Go it as shares in what God wroug? work, so long as your right hands have A Helpful Little Girl. motion in them, and to do it whether "Ah, Jack! you cannot tell what the issue be that you die or live, no troubles a girl has who is receiving life worthy the name will ever be pos-4. "As the streams in the so: torrents and the brooks in th deserts run offund dry up in 1 months; but after the periodical return again, and the channels for the stream of the the stream. the attention of a gentleman." aible to you; while, in once forming She was twisting a button on his and adhering to the resolution that coat, and looking very demure and your work is to be well done, life is shy really won. for the refreshment of the thirst 5. "They that sow in tears." in captivity for the puntshmen degeneracy. God seat them into "Troubles, Marie? Of what nature, If there is one thing in the world pray?" he asked, in a tone of surthat should be free from compulsion degeneracy. God sentinem into just as gold is put into the fire fined. The captives in Babyloa sowing in tears, but at length we forth with joy, and then they r benefit of their suffering, and their sheaves with them to their a their sheaves with them to their prise. of any sort it is a gift. Directly it is "Well, one's little brothers are associated with forceful argency or always making fun of one, and one's suggested by extraneous reasons, it relatives are always saying, 'When is loses all its grace and all its character, it to come off?' as if marriage was a Enjoy the blessings of this day and prize fight. But that is not the worst their sheaves with them to their in their expariences of theigooda to them. They that sow in feat-sorrow shall reap in the joy of pardon and a settied peace. 6. "Goeth forth and weepst: precious sod." There are tears themselves the seed that we a tears of sorrow for sin-our come tears of sympathy and tenders number of returned capityes was remnant of Isreel. They were the evils of it bear patiently and There is the inquisitiveness of one's sweetly, for this day only is ours; we parents. They want to know everyare dead to yesterday, and we are not thing. There's pa, now; he is conyet born to the morrow. stantly asking such questions as, All growth, all strength, all uplift-'Marie, what are Mr. Robinson's in ing; all power to rise in the world, and tentions? Why does he call upon you to remain unrisen, comes from the so regularly, and stay so late when he hold we have taken upon higher surdoes call?' And he sometimes looks so remnant of Israel. They were to promote the true religion in Through their prayers and to brothren in Babylon must be rea mad when he asks these questions rounding realities. Force yourself to take an interest that I actually tremble." "And what answer do you make to in your work and the effort will soon induced to return to God and become a pleasure instead of a hard-Iand. ship.

## SWAY OF THE SWEATER.

How the Popular Onting Garment Onsied the Cardigan Jacket.

"I had a customer for cardigan jackets the other day," said a dry-goods jobber to a friend with whom he was taking luncheon, "and it

seemed like reading a chapter from an old, forgotten book. "It's no worse than receiving an

order for hoopskirts," said another merchant, "'and that happened to us recently.

And then the merchants told stories of the time when one of the leading articles in the sample trunks of men who sold fall and winter goods for men's wear "on the road" was cardigan jackets. Some houses carried as many as a hundred styles, ranging in price from \$9 to \$100 a dozen, and the bulky nature of the goods made it necessary to devote much space to the line. The jackets were worn by all classes, and the article was considered one of the staples of the men's furnishing goods line. But the sweater has crowded the cardigan jacket out, and according to the opinions of those who sell the goods it has gone never to return, except as

an article of small demand, "Ten years ago all the sweaters sold by us," said a large dealer in athletic oods, "were made by hand at a Shaker village in New Hampshire. They were worn then by oarsmen and by men who were in training for the prize ring, and a man wearing a sweater attracted about as much attention as one in kilts. But soon the baseball and football players began wearing them, and within a short time the sweater became a necessary part of every gymnasium outfit. The demand became so great that nearly all the mills that had made cardigan jackets a specialty put machines to work on sweaters. As the new article gained in favor the old one fell away. and the demand is now so great that the original manufacturers - the Shakers-could not supply us for the slowest week in the year.

Although the athletic and the outing trades make heavy drafts on the product of the sweater manufacturers, there are other and larger consumers. These are men who work in the street, lumbermen, longshoremen, railroad men, sailors and drivers of teams, The article which is used by these people is not so good as the one made for athletes, and sells as low as seventy-five cents, and from that price to \$1.50, while the better article brings from \$2.50 to \$6.

"The jersey," said a manufacturer of woven goods, "was the forerunner the sweater, and a curious point about these two articles is this: The jersey was brought on the market as an article of women's wear, and it enjoyed great popularity for several seasons. It was not an outing garment, but one of dress, but, like all articles of women's dress that can be produced at a low figure, the jersey soon found its way into the lower circles, and then became unknown as an article of dress in places where

glory of the Gospel dwells in it shall yield its increase; i perity will either bring outwar-with it, or sweeten the want Psa. 67:6.

THE SABBATH

INTERNATIONAL LESSON FOR OCTOBER

Subject: Paulma of Delive IXXXV. and exxvi.-Golde exxvi., 5-Commentar

Lesson. 1. "Thou hast been favo hast dealt graciously. It w of God that Israel got and 1 of Canano, and If He had yery favorable to them to

ruined many times back of their captivity w stance of God's favor to th accompanied with the part quity. "The captivity of J inturally applied to the ret Iquity. ion; but it suits recovery from ity.

"Covered all their sine hast freely forgiven sta, its and abominable nature no The whole is put out of sig

quences no longer appear. 3. "Taken away all Tay 3. "Taken away all Tay we hast collected all Thy wrath away with all our iniquities, of Thine anger." The capiti rejoice that the wrath or limited, and so they had no distroard.

festroyed. 4. "Turn us," Thou has captivity, now convert our series were not restored fr. tivity all at once: 59,000 r the leadership of Zecubat others, numbering about 7 Ezra, B. C. 435; others with 445; but a great number Babylonia, Media, Assyr for parts. The request a to have a complete restor: Israelites from all pinces of

sion. 5. "Wilt Thou beangry wit 5. "Wilt Thou be angry with Continuously? Delivered for the exiles hoped for rest, found increasing distress : which to them indicated Go anger. Generation after g-shneet and therefor suffered ment of God. The Psainist s iton whether God will find it thus continue, or can it be t conding generation will not examples of others and so themselves severe judgmonts was there of better times u came sincerely and thoroug 6, "Wilt Thou not revive us have long had the sentence of selves, and have feared an utt Shall not our nution yet live Shall we not become on as mo plous and powerful? "May rej Give us life, that we may hav so Thou wilt have the glory be the fountain of all our men-be the centre of all our joys. 7. "Shew us Thy mercy." mercy always recognizes tha

deserved deserved. 8. "I will hear." Wait and expectancy. The Paulmist goes to consult the Lord, and have request waits an answer from prophecy. By declaring what the Paulmist teaches all Isr. ought to attentively hearken of God and to receive His gra tions and promises in faith a tion, and His holy precepts an tions in obedience and subm especially that they should we what answer God would retain

prayers. 9. "Salvation is nigh." Re-granted as soon as there is real eive. That complete salvation erance, even the redemption the Messiah. It was the con Old Testament saints that t lived not to see that redemptilem for which they waited, y-sure it was nigh and would it all that fear God. "That glo in our land." That we may see glorious days in our land: see glorious days in our lange our ancient glory, the tokens o snew with us, the most emine we have now utterly lest. Go and glory. Israel when fally joyed peace with God; for whe He manifests His glorious pow 10. "Mercy and truth are me And therefore appear as united crating harmoniously in con-

Gad's glory or malesty again -the land when the people shou converted to His fear. 11, "Truth." Responsive to mercy, there shall be man's fru works. "Righteousness shall When a people return and adh in duty He will return to and them in mercy. 12. "The Lord shall give.

"Righteonsness shall go be

"The Lord turned again th

"Filled with laughter." A

13.

ies will prove carly spring layers, and continue laying all summer, which will be full compensation for the winter's inactivity.

As with the matured fowls, so with the late hatched pullets; they seldom begin laying until spring. Pullets hatched in March will probably molt in November or December, just at the time when eggs are bringing a good price. The April hatched pullets will be the ones to depend upon for eggs during the winter. Leghorns lay perhaps the earliest of the breeds commonly grown. Some will lay at the age of five months, the Asiatics and anger hole in the pole. This is thrust larger kinds generally at seven to ten Food containing oil, such months. as linseed meal, meat scraps, etc., with a mixture of ground oats, wheat, is useful to hasten the feathering-out process. Poultry should be well cared for during this critical process; should be housed in clean, dry quarters and fed liberally. Some lose their plumage out before it is to be fed to stock, so gradually that the chauge can be scarcely noticed. Others become denucled in a very short period, and such This is carried up alongside of a shock will require extra care.

#### The Fig in Agriculture.

He is found to produce a pound of product from less food than either eattle or sheep, and is therefore the most economical machine to manufacture our great crop into marketable meat. Our people are becoming wiser every year, and exporting less, proportionately, of the raw material and more of condensed product. If the rear part of the wagon by walking it takes seven pounds of corn on an up a running board, which haugs on average to make a pound of pork, as is no doubt the case, the farmer begins to see the great economy of exporting one pound of pork, bacon or ham, instead of seven pounds of corn. The difference in cost of freight makes a fine profit in itself; besides. the pound of meat is generally worth more than seven pounds of corn in the foreign market. The production of pork should be encouraged point, having fed all my fodder in the on the further consideration that it carries off less of the valuable con-

stituents of the soil than beef. The fat pig contains only three-fourths as much mineral matter per hundred weight as the fat steer, and only twofifths as much nitrogen per hundred weight and therefore the production of a tou of pork on the farm will carry off only a little more than half the fer tility carried off by a ton of beef. This gives in round numbers the comparative effect of producing pork and beef. It is thus evident that the pig should have a high place in our agriculture; should be fostered in every way-his capabilities studied and pushed-his diseases carefully noted and prevented, for he is the most profitable meat producing animal on the farm. The pig is an excellent adjunct to the

daily turning all the refuse milk whey into cash. As he is the king of our great consideration .- Farm Reporter. | ally \$61,000,000 in that country.



round pin through the 2x4 piece is directly over the place for the shock. Set up four armloads in the four recesses of the jack made by the pin running through at a, b, c and d. When the shock is half or two-thirds made, remove the jack by withdrawing the pin and finish it without.

Tie the shock when done by means of a contrivance shown in figure 2. composed of a pole five or six feet long, with a rope put through an through the shock two-thirds of the way up, and the rope drawn around the shock as tight as it can be drawn and made fast to the pole while the shock is being tied. A shock made in this manner and properly tied will stand a long time and will stand well. If the corn is to be husked a husking bench, shown in the second cut, will be convenient. which is tipped over on the bench. The husker seats himself on the seat and begins working the stover toward him, and when he gets a bundle of convenient size it is bound and laid

aside, and so on until all is husked. This prevents missing any, and it is far more convenient to sit than to kneel down in the mud or snow. In hauling in the bundles I have found it very convenient to load from

the rear of the rack and is dragged along to the next shock all the time The rear post of the hayrack should be removed, and two short, stout corner pieces nailed on just high enough to not interfere with loading, which will prevent the corner bunches of fodder slipping off. I have never shredded any fodded, and know nothing of its value from a practical standold-fashioned manner. I have seen the corn harvesters at work, which



seems to me to be a very good thing for those who make a business of using much fodder annually in the feeding ration.

An Italian statistician has computed by means of railroad returns that the ment exports, so let us treat him with foreigners who visit Italy spend annu-

braize, iron ore, flue dust, manganese ore, iron sand, cement, sawdust, cork dust, etc. The material is fed into machines and comes out in cylindrical chunks about three inches in diameter and four inches long.

The "briquetting" machine mer complain that times are too good for them. Manufacturing establishments in Pittsburg, Providence, Chicago and Philadelphia are too busy for them to turn out the orders under eight weeks, and when prices are good and profits are easily made, iron, coal and coke men are not particular about saving the little things. Time of reduced prices and narrow margins drive them back to the system of caring for scraps. Mesaba ore, which crumbles easily, leaves a great deal of dust. Briquetted, it can be saved for \$3,50 a ton. In the river valleys of Western Pennsylvania of coal dust, more valuable than slack or lump coal when solidified, as it is clean, not friable in moistnre and possesses higher heat units. Furnace flue dust is often sixty per cent. pure, | taken up sewing for charity."-R. K. and the value of a method of saving it is obvious. Briquetted coal is spec ially adapted to naval uses. Sawdust compressed, becomes excellent fuel Slate, since the beginning of coal mining, has been a source of trouble and expense, A Monongahela River worker announces that it can be made into fireproof brick and moulds for casting ingots and other manufactures | and consequently brings a good price, of iron and steel. Drain tile and as high now as \$6 or more a pound. sewer pipe of superior quality also This root is found most in mixed come from this despised stuff. each bed of bituminous coal lies a layer of slate. This the foouldmaker before it is ready for the market, and grinds as it comes from the slope or shaft, and, mixing it with something Half a pound a day means big wages of the nature of cement, fires it to the to the digger, but the scarcity of it proper degree of hardiness. There is no known limit to the use of materials heretofore considered as

gun to see the opportunities within their grasp.

refuse. Manufacturers have only be-

Sewed Up For the Winter. Here is an amusing incident-sug-gestive, too-reported in the columns of the Charities Review: A Brooklyn school teacher sent a little Italian girl home "with the order to have her mother wash her until she was clean. "The child returned shortly afterward, accompanied by its enraged

mother, who said some things not really polite to the teacher, finishing with: 'She is wathed now, anyway.' "The culy visible evidence of

bath was a clean spot around the little one's mouth and nose. teacher told the mother that she had meant that the child should be thoroughly bathed. 'She should be put into a tub and washed,' she explained. 'What!' in a tub? the woman exelaimed. 'Why, that would kill her!

winter.' "-Gunton's Magazine.

"No, that is not the reason I am going around in this free-and-easy, unmended fashion," said Whitby "It is not to make people believe that am artistic, or wealthy, or indifferent to and above the ordinary conventionalities of life."

"Then there is a reason?" "If you must know, yes," replied Whitby, laughing good-naturedly, "and I know you are aching to know

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"And you won't tell any one if ] inform you." "Not to a living soul," replied

Whitby's friend; "it shall be invio-"It is because my wife hasn't the

are three million or four million tons time to sew on my buttons and do my mending."

"Why not?" asked Whitby's friend, in astonishment.

"Because all her time is completely

Muukittrick, in Harper's Bazar.

### Value of Ginseng Root.

"The digging of ginkeng root, says the Kennebee (Me.) Journal, "has become quite a business in some parts of Somerset and Franklin coun ties. For a long time it has been known that it was in great demand, Over hardwood growth, and somewhat resembles garget. It has to be dried shrinks about two-thirds in weight. | his questions, Marie, my dear?" makes it impossible to find even that unless, in Western parlance, one strikes it rich. The question is

being asked by land owners whether the man who goes on another's land and takes value there from is not trespassing to a great extent and doing that which he has no legal right, any more than if he should cut a certain amount of wood

appropriate it to his own use.'

Peru is accompanied by women called "rabonas." They carry the camp They carry the camp equipage and cooking utensils, cook the food and wash the garments of the soldiers, attend the sick and the wounded and are said to be remark ably skillful in making concoctions of The herbs for malarial fevers and other diseases which prevail in the army,

During a battle they plunder the dead of the enemy as well as take charge of the wounded of the command to which they belong. They receive no pay, And, besides, she's sewed up for the but rations and transportation are

"I can't make any answer at all. for, you see, you haven't said any-

1-1 Then Mr. Robinson whispered something in Marie's ear, and the next time her father questions her she will be ready with a satisfactory

reply .- Woman's Home Companion.

All knowledge is hidden from man until he finds it out. It is not forbidden to him to discover the secrets of earth; who shall say that it is unlawful to go further, if he can, and pry into the mysteries that seem to lie outside of earth? Is it trespassing to seek for sure tokens of another life? Who shall say so? The most that conservative observers may say is that, so far, spiritualism has seemed trivial misleading and inexpedient. That demoralization, if not madness, has seemed to lie that way; and that those who have been content to go about their business here, taking the future life on trust, have seemed to fare better than those who have directed earthly energies into a search for proofs of unearthly facts. -- From "The furnished them by the Government. Point of View," in Scribner's.

belong to every system of thinking.

It is the way in which we employ odd minutes that counts for or against us in the end.

The heart cannot always repress or account for the feelings which sway it. An hour of careful thinking is worth more than ten of careless talking.

tempt of the ignorant.

Live as though life were earnest,

Little to Choose Between Them. bargain rush."

A service of motor vehicles has been started |between Rosas and Figueras, in Spain, a distance of twelve miles. The vehicles have a scating accommodation of nine passengers.

on which creatures it almo sively feeds. It derives its na the curious feathery plumes w ject from each side of its l have a fanciful resemblance carried behind the ear by hu retaries. Undaunted by the teeth of the cobra, the secre comes boldly to the attack, an of all the efforts of the infuri desperate reptile, is sure to victorious. In its combats scrpent the wing is the most i weapon, and answers equally purposes of a shield and a c the serpent rises to strike, th tary presents the front of its buckler and almost immediate the snake to the ground by from the same member. It al with considerable force, and a variably concludes the comb violent blow on the head beak, which lays the skull of th completely open.

The Secretary Bird.

The secretary bird of South

useful in destroying the seri

thing to me, and-and-of course,

Difficulties of thought, acceptance of what is without full comprehension,

The motives of men are to be judged more by their actions than by their words.

True education never induces con-

and life will be so.

"Dorothy, women act like idiots in

"Well, Richard, don't forget how men act scuffling for supper on an excursion steamer."-Chicago Record,

The Hunt For a Great Secret.

