FARM AND GARDEN NOTES.

ITEMS OF INTEREST ON ACRICUL. TURAL TOPICS.

In a Calf's Training-Sows at Farrowing | Fireside. Time-Etc., Etc.

Grow Humus on Your Poor Land.

store up nitrogen in the land, try cow zation whatever, not even many

Ducks and Geese Like Weeds.

except that it keeps the farmer hust- represents less than thirty days' labor.

Important Point in a Caif's Training.

by the halter when it is small. It machine to set omon plants. called, and that we could lead home eighty-five cents per bushel. by the horn or by a halter than for one that was wild and unused to being handled. In fact, we would not take that sort of an animal as a gift now, for we are not as spry or as strong as the while they are roaming about on the we were forty years ago, and we have pasture or range with other animals Cultivator.

Sows at Farrowing Time.

feed during the coldest weather.

Homestead.

A Partial Soiling System.

meadow that is mowed as on the same in American Cultivator. meadow if it is used for pasturage. This is doubtless due to two facts; one, that the grass is being constantly trampled on when the meadow is being pastured and the ground packed hard, and the other is that the eating off of the grass as fast as it grows decreases the total amount of root development. Overfeeding is a waste; underfeeding 1-20th of the white population, exclu-A decrease in size of the root means a is a sin.

lessened ability to collect food for the plant. On the other hand the food many eggs. that is collected by the root is eaten off in the root leaf and is not elaborated by the leaf and returned to increase the size of the root. When it is desired to carry a good many animals on a Crow Humus On Your Poor Land-Ducks small area the soiling system should be and Geese Like Weeds-Important Point used, at least in part.-Farm, Field and

Transplanting Onions.

When I first got onto the new wrin-If your land is too poor to grow a kle in raising onions I found that 2,000 crop of red clover, which is used to plants were about all that a novice as able to put into the ground in one peas or crimson clover, or something day, and as we made the rows one foot tate the crops. else that can be used to plough under apart and set the plants three inches and will grow on poor land and thus apart, I calculated that to set the 175,- should have plenty of air and sunshine add vegetable matter, or humus as it 000 plants on one acre would cost not at all times. is called, to the soil. By doing this less than \$50, even with cheap labor. you will soon find that the laud is But now that we have "the hang" of ing has got to be conducted on scientisteadily improving, and, indeed, some the transplanting business, and with fic principles. farmers who are doing it are securing the ground in as good order as it an increased yield of crops year by should be, we can set double that numyear, and their land receives no fertili- ber with just as much ease, writes T. Greener, in the American Agriculturist. We now plant four inches in the rows and make the rows fourteen inches A weed can hardly be of any benefit apart, and the work of planting an acre

ling and thus makes him stir up the The point is to have the soil very surface of the soil, which enables it to fine and mellow so that the planting isn't always the fault of the cow. hold the moisture much better than if can be done with the fingers alone and a crust was alowed to form upon the without the use of a dibber. The work the stock. The barnyard furnishes an surface. Some of the weeds-such as then progresses very rapidly. Pick up excellent condition powder for such plantain, purslane, ragweed and pig- a plant with the left hand and place land. weed-are all what the ducks and geese the bulb part upon the ground a little The female cattle tick is supposed to would term a "delicacy," and if they to the right of where you wish the deposit between 3,000 and 6,000 eggs. were allowed to forage on such food plant to stand. Then press the index And all this during the period of two they would in most cases leave grain finger of the right hand upon the bulb months. for it and would be apt to clean up the and push it down to its place. For a spot infested with the weeds in such a change you can take the middle finger manner that it would not be liable to of the right hand. At any rate it takes trouble the farmer again for some time only one motion and the thing is done. With a little practice a nimble-fingered youngster will set 5,000 plants in ten hours. It is work and somewhat tedi- one week and starved the next. Such ous and hard on back and knees and up and downs as these do not agree One of the important things in rais- knee pads will come handy. For that with them. ing a good calf is to train it to be led reason I shall rejoice when we get a It is believed that sugar-beet pulp

makes it much easier and more pleas. We find a very material difference in the and sheep that are being fattened ant to handle it when it is grown. It the cost of weeding in favor of the new than to dairy cows. is but a small task to train a calf if the method as against the older plan. This work is begun in season, or a colt eith- is especially the case later in the sea- of weeds-the burning of all rubbish er, but if they are not haltered and led son and on land infested with purslane. and garbage, the removal of all crop until they are two or three years old It is almost impossible to keep this remnants as soon as the crop is harthere will surely be trouble, possibly weed down in the heat of early fall. vested, and having all things just broken bones to mend, and not always Onions grown on the new plan ripen up where they belong. the bones of the frightened and there- weeks ahead of those grown from seed. fore refractory animal. If we were When the purslane begins to crowd us, buying a cow we would willingly pay we pull and market the onions, and for ten dollars more for one that has been several years past we have sold these learned to come when its name was early, large bulbs at an average of

Confining Fattening Cattle. The common method of fattening cat-

no desire to engage in a wrestling is about as unprofitable as can be, and match with a wild animal.—American yet many prefer this to confining them. Proper food of course is the first essential for fattening steers, but next consider its cost. The cost is naturally ing and studied electricity. Though he The condition of sows at farrowing dependent upon the amount, and the has only the use of one arm be time is more essential than the care of more that the cattle which are being the pigs. If a sow is in the right condition, she will have little trouble in greater quantity of food will they re- hundred titles, and is an admiral in farrowing and if one commences right quire to make a given weight. Not three of the biggest navies. In twenthe work is half done. Old and young only this, but the animals are often ansows should be wintered separately noved by other cattle in the field, and of game. He changes his dress a dozen and fed largely upon shorts, with but the worry and fright might neutralize times a day, has a dozen valets, and little corn. It is better to warm the all the good obtained in one day's ra- wardrobe worth \$500,000. He works water and mix with the feed during tion. In order that the food shall do every day from 5 A. M. to 7 P. M. He very cold weather. Young sows should the greatest amount of good, the cattle can write a song as well as he can have full feed up to the time of farrow- must have contented minds. It is only sing it, can manage a yacht as well as ing, and not more than four ears of necessary to make the experiment to be can ride a horse. He can conduct a corn should be given each sow at a satisfy one of the justness of this religious service as well as a bishop. claim. Two years ago I had ten steers He is king, emperor, author, musician, If possible, stay with the sow when which I was ready to fatten for mar- dramatist, traveler, shoir conductor, farrowing and give her a pail of water ket. They were about equal to each sportsman, singer, and there is nothto drink. For the first two days other in point of healthfulness and ing, from rocking a cradle to ruling an give water with a handful of shorts. promise. To test the value of confinempire, of which he is not a master. and for the balance of the week two ing them during the fattening period. He is the royal jack-of-all-trades, with handfuls of shorts at a feed. This will five were turned out to run wild in a the pride of an emporer and the power not unduly stimulate the milk flow un- pasture all summer, and the other five of a Caesar. He is the modern Wiltil the young pigs are in a condition to were confined in a stable with a yard liam the Conqueror. Before he had take care of it, and will be the cause attached where they could obtain all been on the throne two years he had of saving many pigs that would later the exercise really needful. At first dismissed the foremost statesman on die of thumps. Move the young pigs the confined cattle did not take kindly the continent of Europe. - London out of their bed at twenty-hours old to their narrow quarters, but seemed Young Man. and see that they are moved about each restless and discontented. During the day. Fat pigs are worthless and the first week I believe they actually lost youngsters must have exercise. Place in weight, and I was almost prepared a small trough near the pen to which to say that it paid better to give fatthe young pigs can have access, and tening steers their freedom. Had I when a month old begin to feed them not persisted in the experiment I a little milk and shorts. Remove them should have drawn improper concluto a field as soon as the grass is large sions, as I doubt not many others have enough and wean them at two months done heretofore. But after the first old, when the males and females week the confined animals became betshould be separated.-New England ter accustomed to their quarters, and they contentedly chewed their food, rested a good deal, and became fat, sleek and lazy. Every pound of food There has long been conflict between then went to make fat, and it was asthe advocates of the soiling system and tonishing to see how rapidly they inthe advocates of the pasturing system. creased in weight. It was evident laborers and stable boys. From a gaily Extreme views have been contended within a fortnight that the tide had for on both sides of the question. Those turned in favor of the confined cattle. in favor of soiling would have us adopt In order to make them lay on the fat er after another gallops under the arch that system to the exclusion of every- they did it was essential that they and endeavors to impale the ring on a thing else. Those that are extremists should be kept quiet and contented, on pasturage would have us do nothing and this can be done where the sur- cue, in the soiling line. The natural homes roundings are pleasant, the food good. He who carries off the ring the of these two theories are far apart: and nothing is allowed to frighten greatest number of times wins a modone is on the western shore of the them. A little green and tempting food est prize and is furthermore crowned North Sea and the other on the west- of an unusual nature should be given "king," or leader of the dance to be ern plains of the United States. An to them occasionally, and this will help held in the evening. exclusively soiling system pays in to make them peaceful and satisfied. some cases on our great plains. Be- In feeding them they should be given tween these extremes of location part just enough to make them fat and soiling and part pasturing will prove to lazy, but not to clog up their systems. be most profitable. Where land is high Then the fat-making process stops. At brothers, the first a Methodist loin price and labor not too expensive a the end of two months the confined cal preacher, the second & Presbypartial soiling system should be adopt- cattle had gained between fifteen and terian minister, started from their seted. It has been proved by trials care twenty-five pounds more than the five tlements in Tennessee to make a ried on at some of our own experiment allowed to roam loose in the field, and preaching tour into Kentucky. Such stations that four times as great a as it cost no more to feed them the interest attended their work that at

Short and Useful Pointers.

Sunlight is a good disinfectant for a every denomination. stable.

As a rule, cattle are kept in too close Descendants of the missionaries in quarters.

If your hens are overfat don't expect

must be kept scratching.

A covered and cemented manure pit will save its cost every year.

The dry seasons are the ones that nake new friends for sorghum.

There can be no question as to the profit of a few hogs on every farm. If you possess a running stream of water, by all means cultivate some water-cress.

The only proper way to make old wheat land more productive is to ro-

The barn in which stock is kept

In order to be successful sheep-breed-

good shelter, and a yard to exercise in, must be provided. Always bear in mind that the cost of

To insure success with young pigs a

producing a pound of pork increases with the age of the pig. This country has too many "scrub"

Land gets out of condition as well as

milkers as well as "scrub" cows. It

Cold storage facilities are on the increase in this country, and are, in a great many cases, being adopted on private farms.

Stock can't stand being fed liberally

can be fed more advantageously to cat-

Good farming means the destruction

There were 500,000,000 fowls in the United States last year, and the number of eggs laid was estimated at about 1,450,000,000 dozen, or 17,400,000,000 eggs. The value of these fowls and their product is set down at \$420,-

What the Kniser Can Do.

We are told that he has written a public prayer and conducted a choir. He can cook as well as he can eat. He can play chess, paint pictures, or draw caricatures. He has learned engineercan shoot game for four hours at the

Home of the Merry-tin-'Round.

In Schleswig, Holstein, after the spring sowing is finished, the farmers enliven their season of comparative leisure with all sorts of festivities.

The favorite sport is jousting, or riding at a ring. On the island of Alsen there is an annual tournament lasting two days.

The sons of the wealthier farmers are the contestants and the prizes are of considerable value. The jousts in the villages are less pretentions, but quite as satisfactory to the performers, who are for the most part farm festooned arch erected in the public square hangs an iron ring and one ridwooden lance resembling a billiard

Origin of Camp Meetings.

In 1799 John and William Magee. weight of grass can be raised on a gain was all profit.-William Conway, the next meeting many families encamped in the woods. The co-operation of these brothers was so pleasing an example of fraternity that the earliest camp meeting included members of

> the Hawaiian Islands constitute about sive of the Portuguese.

NEW RELIGION IN LUZON.

If the hens are to be profitable they It Says Its Votaries Need Not Work and it is Spreading Fast.

A new religion has been started in Luzon in the Philippines and some people think it will lead to trouble. Its main doctrine releases its followers from the necessity of working. The supreme being to whom prayers are directed will, it is declared, provide sustenance for all true believers. The religion is therefore attractive to the Filipino, who does not do any more work than is necessary to keep himself in rice, cigarettes and betel nut, any-

way. A man named Gabini started the re- fusion,-Detroit Free Press. ligion and its votaries are known as Gabinists. Gabini and several of his deacons, or chiefs, were quietly and informally shot by the Spanish authorities at Apalit. The new creed was not stamped out, however, for Gabinl's chief clerk, Felipe Salvador, took it up. After doing a little service in the Filipino army Salvador now devotes himself to extending the faith. Wonderful stories go abroad concerning miracles Saivador has performed, Sick people are carried to him to be cured, and if they die under his treatment it is said they were not sincere in their faith.

The Gabinistic religion, as nearly as can be learned, is very simple. The people gather and pray long and earnestly to an invisible supreme being who is supposed to provide food to his faithful subjects in some miraculous manner, and to perform cures. The chief duty of the believer is to make at least one pilgrimage a year to the main shrine, which is located five miles above San Luis on a dry spot in the pinac, or swamp, of Candaba. Here Salvador has had a church erected. It is an imposing affair of bamboo and nipa thatch, rudely furnished with a few seats.

Salvador styled himself "General" and by this title he has been called. It was at the suggestion of several people of the village of Balinag that General Otis at last gave orders to have Salvador placed in custody. This happened two months ago. His church services, which went on again after a slight interruption, a new general being installed in the person of Salvador's chief clerk. Salvador's arrest was due to a belief that as an insurgent leader he was simply inciting the people to fresh outbreaks. In addition to the church general there are several chiefs. It is the main duty of these chiefs to collect the fees which are regularly exacted from all be-

At the present time the Gabinistic church is thriving wonderfully and growing every day.

lievers.

Planters complain that it is taking away their laborers. It is said the new church has now at least 10,000 members. The members seem to be little affected at the removal of Salvador, for they believe his body consists of two parts, one a material and one a spiritual part. The material part is of course confined in Manila, while the spiritual part returns to pray with the congregation at intervals.

The sick people who are carried to the shrine on litters are expected to make a complete confession of their sins, whereupon they become cured. If ber carried by the New York city surthe cure does not follow it is a sign face and elevated railways alone .the patient has not made full admis- Scribner's Magazine. sion of his shortcomings and therefore cannot be forgiven .- New York Sun.

Passing of a Chief.

mo, one of the most bloodthirsty Indians in history, has gone stark mad. He is a prisoner at Fort Sill, Okla., and it cost the government \$1,000,000 and hundreds of lives before he was safely behind lock and key. Deprived of his liberty as a penance for his crime he could not stand the confinement. For fourteen years he has been a prisoner of war-for the last ten at Fort SIIL

For almost half a century Geronimo the warpath. He was a terror to early settlers in the southwest. At sixteen his people crowned him a war chief be- thanked them for their good advice. cause he led them into a bloody fight successfully.

In 1882 he and Victoria, with 600 Apaches, were attacked by Mexican soldiers. Victoria was captured and beheaded. Geronimo escaped and became the great war chief.

In March, 1886, after four years of constant chase, General Miles and Major Lawton cornered Geronimo and his fellows. But Madagascar sports an anwarriors in the Four Peaks basin, near Prescott, Ariz.

Four months of starvation and the Indians brought down the white flag. They were sent to Florida in a boxcar. The climate there killed over half of the band, and ten years ago the government decided to remove them to Fort Sill.-Philadelphia Bulletin.

Daring.

behind the counter looked so demure mounds would form a strata of fertiland said, "Certainly, sir," so sweetly ized earth three feet thick. when he asked if he could use the telephone that he was tempted to use the electric converser as the means of throwing a complaint. Besides, had was herself attractive enough to cause the houses and offices of the city.

more than passing attention. They both laughed when he made a facetious

remark to his friend at the other end of the line.

"Where are you now?" asked the friend.

"Why," replied the audacious fellow, 'I'm out here in an east-end grocery watching a pretty girl sell a dozen eggs to a customer.

There was a sudden plunk and splash, as the confused girl allowed the paper sack into which she was counting the eggs to fall to the floor.

The proprietor of the grocery came in from the rear at that moment, and the young man escaped during the con-

Visited the Caves of Mokana. Captain Cameron, on his journey

through Urua, in 1872, heard of the cave dwellers in the districts of the headwaters of the Congo River, but in spite of all the efforts he made, was unable to discover them. News comes now from Brussels that Lieutenant Leon Cerckel, of the Congo State troops, succeeded in locating these caverns. According to a report published in Le Mouvement Geographic these caves are situated in the mountains and hills which surround the Valley of the Lufira, a tributary of the Lualaba. The Lufira falls down at Djuo over a rock some 120 feet high, whence it flows through a ravine of from 400 to 500 feet deep, surrounded by steep rocky mountains. In a distance of about ten miles from the Djuo Fall are the caves of Mokana. All the caves are situated in the rocks. Some of them are two miles and even more in length, and most of them are inhabited by savage tribes. Lieutenant Cerckel says that they are absolutely dark, but not humid, and that at least several thousand people dwell therein. The fires which burned within the caves caused a dense smoke, which made a close investigation impossible. Cerckel succeeded only in entering some of the caves after he had presented the chief of the tribe with large quantities of colored cotton prints and brass goods, and even then he was soon compelled to leave the diswas not molested and neither were his trict with his companions, as his life was threatened by the savages.

New York City's Elevated Roads.

In 1871, the first section of the elevated system in New York City was constructed, but put in operation in the following year. In that year the number of passengers carried on all the surface and elevated railroads was 138,867,000. In 1882, the total had risen to 252,800,000; in 1892, to 453,200, 000; while in 1899 it was still further increased to 528,228,437, and rapidly growing. These figures are for the old city of New York, now known as boroughs of Manhattan and Bronx, and are for paying passengers only. In 1890 there were transferred passengers amounting to 159,560,822, not included in the above.

It is interesting to note in comparison that for 1898 the United States Inter-State Commerce Commission reports that there were carried on all the steam railways of the United States, from the Atlantic to the Pacific, from the St. Lawrence to the Rio Grande, passengers to the number of 501,066, 681, or 5 per cent, less than the num-

Crime and the Experts.

A saturnalia of crime reigned, and ging. the good king was much distraught. After four years of imprisonment. Calling together his wise men, he bade which he has endured with the fierce them speak frankly as to the causes restlessness of a caged beast, Geroni- of the public ills and without fear to suggest remedies.

"The trouble, O king," replied the wise men, touching the ground with their foreheads, "arises from too keen a competition among the professional expert witnesses, whereby there has has been mined near Barberton. Tin come to pass such a cutting of rates is being mined at great profit in Swathat even the poorest criminal need not despair of acquittal. We recommend | metal being taken from every ton of a royal decree fixing such fees for ex- ore. Quicksilver has been discovered pert testimony as shall place immunity from punishment beyond the reach of led a band of bloodthirsty Apac. Ts on all save the wealthiest and most noted criminals."

"Fiat!" commanded the king, and This story illustrates how easy it was Rhodesia sulphur is being mined and to accomplish almost anything by judicious legislation.-Detroit Journal.

Angleworms Five Feet Long. Occasionally we see in our gardens

angleworms six inches long, or more, and we think they are unusually big gle or earth worm five feet long. Australia has one which is named after Professor McCoy, and which is four feet long and as thick as one's finger. In Sardinia these worms grow to a length of two feet and a half. The old saying that never was any creature created without having a purpose and an excuse for living is exemplified by the work the angleworm does in ins proving the soil. It eats the earth, This man is not in the habit of filrt- and then deposits it in small mounds ing, but he really could not resist the on the surface. The mounds of the temptation the other day when he en- Madagascar worm are from three and tered a corner grocery in the outlying a half to five pounds in weight. If left district. The pretty, red-cheeked girl undisturbed, in half a century these

Cool Doings of a Powdermaker.

not she encouraged him by a slight for authority to dig up the streets of ing on a neighboring housewife, who purpose of distributing cool air among

SILK OF SPIDER'S WEB.

Marvelous Product of Milked Spiders to Be Shows at Paris.

One of the most novel exhibits in the Colonial section of the Paris Exhibition is a complete set of bed hangings manufactured in Madagascar from the silk obtained from the balabe, an enormous spider that is found in great numbers in certain districts of the island. It was a missionary. Father Camboue, who was the first to conceive the idea that these insects might be made to replace the silk-worm. He succeeded without difficulty in obtaining a sufficient quantity of silk to be of practical use, but he did not pursus his efforts beyond the purely experimental stage. The matter has since been taken up by M. Nogue, the head of the Antananarivo Technical School. The results he has already achieved show that the production of spider silk should quickly become a highly impor-

tant industry. The chief problem to be solved was to find a practical process for extracting the silk from the female spiders. M. Nogue has invented a most ingenious appliance for this purpose. It should be said that the female halabe allows herself to be relieved of her silken store with exemplary docility. and this in spite of the fact that she is distinguished for her ferocity; her usual treatment of the males who pay her court is to eat them, and she feasts without compunction on weaker

members of her own sex. M. Nogue's apparatus consists of a sort of stocks, arranged to pin down on their backs a dozen spiders. The spiders accept this imprisonment with resignation, and lie perfectly quiet while the silken thread issuing from their bodies is rapidly wound off on to a reel by means of a cleverly devised machine worked by hand. Each of the twelve spiders thus "milked" simultaneously yields from three to four hundred yards of silk. As soon as a spider has yielded up all its silk it is replaced by a fresh insect and the work of reeling off the thread thus goes on with very slight interruption. The spiders whose threads have been exhausted are set free and ten days afterward they are again ready to undergo the operation. The silk of these spiders, which is of the most extraordinary brilliant golden color, is much finer than that of the silk-worm, but its power of resistance is remarkable. and it can be woven without the least difficulty.

The Transvaal and the World's Fair.

The visitors to the Paris Exposition will see some curious exhibits in connection with the South African exhibit, among them models of mines containing ore glittering with diamonds and gold.

It is commonly supposed that diamonds and gold constitute the backbone of South Africa's mineral riches. As a matter of fact, nearly every mineral known to science and nearly every precious stone used by the jeweller are found in that country. In truth, South Africa is a mass of mineral from the

Cape to the Zambesi River. In the Kimberley district and east to Bloemfontein, diamonds and natural iron abound. To the northwest of this district are the Witwatersrand gold fields. On the Vaal and Orange Rivers magnificent asbestos, some of it six feet long, can be had for the trouble of dig-

Silver exists in all parts of the country, but is mined only near Preteria. Copper has been mined in Namaqualand since the seventeenth century, and recently fine deposits have been found

in Mashonaland. Lead is found in conjunction with other metals in all parts. Zinc exists in the Malmani district and antimony zieland, twenty-one pounds of the pure in the north of the Transvaal.

Mica can be found in the Zoutpansburg district, between the Selati and Great Letaba Rivers. Salt is plentiful at Uitenhage, in the Cape Colony, at Craddock and near Bloemfontein, In in Natal oil has just been discovered. Nitrate deposits have been located in the Doornberg Mountains.

Besides diamonds, amethysts, beryls, garnets, sapphires, opals, olivines, topazes, carnelians, tourmalines, rubies and turquoises have been found .- Collier's Weekly.

United States Transports

There are thirty-nine transports on the service of the United States army, of which thirteen are chartered. The Thomas, Meade, Logan, Grant, Sherman, Sheridan and Sumner are considered the finest in the world, being thoroughly equipped with electrical appliances and all modern conveniences for the comfort of their passengers. They have an average carrying capacity of about sixteen hundred troops, with their baggage, equipments and supplies. These vessels are used for the transportation of troops to and from the the Philippine Islands. Other transports owned by the government are the Ruford, Burnside, Crook, Egbert, Hancock, Ingalls, Kilpatrick, Lawton, Me-Clellan, McPherson, Port Stephens, A man named Powdermaker and his Rawlings, Rosecrans, Sedgwick, Sewassociates recently applied to Congress ard, Warren, Wright, Relief and Terry, which are used for the transportation of arching of the cycbrows and a coy Washington and lay an underground freight and animals, but have an averglance in his direction? She was wait- system of pipes and conduits for the age capacity for 1,000 troops and are well equipped. The Relief and Terry are hospital ships.