AGRICULTURAL.

Foot Rot in Sheep.

Foot rot is of two kinds, common foot rot, and contagious foot rot, the latter being much more difficult to cure and requiring longer treatment. Mr. Steward in his Manual gives the following mixture as dressing to be used after paring and washing with carbolic soap and water:

Oxide of Copper 4 ozs. Arsenio 3 oz. Honey 8 ozs. To be applied by dipping tow or lint in

the mixture and binding it around the tender parts, especially between the digits.

Another remedy is an ointment made of finely powdered blue vitrol one pound; verdigris, one half pound; linseed oil, one pint, and pine tar, one quart. This will dry on the foot and will not be as easily washed by the wet grass. In a recent number of the American Agriculturist, Dr. Thurber gives a method of treating sheep, which is quite popular in France, toth for preventing the spread of foot rot and curing mild cases. Shallow tanks or trays are placed at the doors of the sheep barn, and the animals as they go out and in, bathe their feet in a liquid made by slacking quick lime in water. The tanks are ten feet long, and have slats nailed on the bottoms to prevent the sheep from slipping and falling all over into the caustic, solution. The depth should be only enough to well cover the hoofs. Foot rot is much more common on damp soils where the shell of the hoof grows faster than it wears off. Paring must always be attended to in such localities.

Feed Growing Chicks Well.

In midsummer young chickens are growing more rapidly than at any other period if they are of the larger varieties, especially; well be overfed, because they find such a variety of insect and green food in the course of their daily journeys around the farm or country plat.

that of adult or maturely-grown fowls. These may be overfed easily, and will put close quarters. Common Merino ewes, like on fat eternally, to their discomfiture and Jersey cows, when well-fed, give rich milk, detriment. But the young stock, in good thrift, convert what they eat into flesh, Lone and muscle, and continue to thrive during the heated season upon all they will ordinarily pack away in their craws, particularly f allowed a variety of good provender.

Don't stint them, therefore, in feeding, but give them all they will eat up clean. Thus they will grow in stature and keep generally in good health. It is a mistake to underfeed the growing chickens. They require more solid food from the time they are three to six or seven menths of age, in proportion, than at any time before or afterward in their lives. This fact is worth ob serving and remembering by all who aim to have the 'best birds' in the succeeding fall and winter, annually .- Poultry Yard.

Sow Now for Spring Flowers.

While our gardens present a much greater variety than did those of a half century ago, there are some plants in which the old-time gardeners excelled. We do not see such beds of Paneies, or of Rocket Larkspurs, as were then the pride of the gardeners. Success with Pansies is manly due to sowing the seed in autumn. If the seed is sown in spring, by the time the plants begin to tion in plowing, hoeing, sowing seeds, etc., bloom hot weather comes, and the flowers become fewer and smaller. In order to have the flowers in spring, sow the seeds early this month. Make a spot of rich soil fine, and level the surface by pressing it with a board. Sow the seeds, sift a little soil over them, and press down firmly with the board. When the plants are an inch high, transplant them to the place they are to flower The plants are quite hardy, and all the winter protection they need is a little brush to keep the snow from pressing too heavily upon them. The Rocket Larkspurs are, unlike the ta'l ones, annuals. A bed of them is as showy as one of Hyacin hs. Sow in a well enriched bed this autumn, but leave them to flower where they were sown. The bed may be covered with brush during the winter, and if the plants are too much crowded in any part of the bed rext spring, thin them by cutting out the surplus. They do not transplant satisfactorily.

Autumn Care of Meadow Land.

Meadows should not be closely grazed at any time, and especially not in the fall. They need to have fertilizing materials added to instead of taken from the soil. Young animals are much more injurious than mature ones, while full grown stock that are being fattened, and are fed rich grain rations, may by their droppings add materially to the fertility of the soil. Young-growing stock withhold a large share of the potash, phosphoric acid, and nitrogen of the food to build up their bodies, leaving the manure comparatively poor. On the other hand mature fattening animals need very little of these three chief elements of soil fertility. Aside from the loss of plant-food, the close feeding of stock on meadow land does mechanical damage. If the soil is soft, the feet of the animals injure it, and the close grazing pulls much of the grass up by tho roots. Meadows, like winter grains, are injured by freezing and thawing, and the plants need to be in a vigorous condition in late fall, with a good growth of of after-math for protection from the frosts, winds, etc. ing a campaign fairly and squarely. Cer-Well-rotted manure applied to the meadows as a top-dressing, will strengthen the plants and insure a fine crop the next season. This application is best when made soon after the hay is removed. Later in the season much of the soluble material is washed out of the soil by the fall rains. Quick acting manures should be used in the growing season, otherwise loss is sustained. Take good care of the meadows, for they suffer greatly if abused. They are easily and often injured by animals in late autumn. - American Agricu turist.

Buckwheat as a Farm Crop.

The albuminoids are less in buckwheat than in wheat; in fact, not much more than haif as abundant, while there is a greater amount of starch and fat. Buckwheat is, therefore, shown by analysis to be more fattening and less strengthening than wheat. It makes an excellent feed for pigs and poultry. Many persons believe that buckwheat is not healthful, and causes skin eruptions, Several other members of the corn field. "The very corn has ears."

buckwheat family produce powerful vegetable princ p'es, and this plant may possess one such, though it is probably not harmful.

New York and Pennsylvania produce sixty-eight per cent of the twelve million bushels of buckwheat now grown in the United States. Only twenty per cent is grown outside of New England and the Middle States. The great fertile prairies and the vast South with its warm climate, are not favorable for the growth of this crop. Buckwheat does well in the hilly regions, where the soil is light and thin. It, in short, flourishes at higher altitudes, with a lower temperature, and under a greater rainfall than other grains.

One great merit of buckwheat is its availability as a second crop, thus replacing another that has been destroyed by frost, drouth, insects, or otherwise. It is also valuable as a weed exterminator. The infested land may be tilled until mid-summer and sowed with buckwheat, which by growing rapidly amothers the weeds. Another use is that of a green manure. It grows well on moderately poor land, and makes a large growth of straw, which rots quickly when plowed under, thus adding much vegetable matter to the soil.

Raising Early Lambs for the Butcher.

So far as my experience goes, there is no more trouble in raising an early lamb than a late one. In fact, our e rliest lambs are almost invariably our best lambs. I would rather have lambs come in January and February than in April and May, and if I could have them earlier, I should prefer it.

Merino ewes will take the ram earlier in autumn than the English breeds of mutton sheep. For this reason, if for no other, in raising earily lambs for the butcher, I should select common Merino ewes, cr at any rate ewes having more or less Merino blood in them. There are other reasons why I should select such ewes, There are more in the year. They love the warm weather, of them in the country, and they can be obtained cheap. They are healthy, hardy, and if they have reaming room they cannot | thoroughly acclimated, and will stand rougher treatment than the English mutten sheep. They are smaller, eat less, and occupy less room in winter quarters. They will bear crowding better than the large Their condition is quite different from | English sheep-or rather, they suffer less, for it is a mistake to keep any sheep in too and if you want early, fat lambs for the butcher, the mothers, no matter what breed you may select, must have plenty of nutritions food.

I do not say that common Merino ewe, are, in themselves, the best for raising early lambs. They are not. I have had grade ewes, the off pring of a mixed Merino ewes and a Cotswold ram, that would produce larger lambs, give more milk, and the lambs would fatten more rapidly, and mature earlier. But it is not always easy to fine such ewes for sale. Those that you find in market are apt to be culls. The butcher, if he has a chance, gets the best lambs. A good plan is to go to some large market and buy a car load of sheep, or three or four times as many you want. Bring them home, and pict out the best ewes, and then sell the other wes and wethers to the butchers -- American Agriculturist.

When young men desire to enter college, they are obliged to pass an examination in grammar, algebra, geography, etc. Those elementary studies are not taught in colleges. The private or public school fits the student for college. In like manner, young men should be constrained to pass an examinabefore entering agricultual colleges, The farm should be to them the public or private school. Why should farmers' sons spend their time in learning in agricultural colleges what they can as well learn at home?

A Complicated Case.

A curious case is before the Tribunal iu Paris. A gentleman was getting down from an omnibus in a crowded thoroughfare, when he missed his footing, nearly fell backward, and, to recover his balance, caught hold of another passenger. The latter, taken by surprise, also found himself in danger of falling, and, in his turn, caught hold of a woman with an infant in her arms, the upshot being that all four rolled together into the road. A heavy goods van was coming along behind | dissipation. Perhaps his sickness is not which, had it not been for the prompt action of the omnibus conductor, who seized the horse's head, would have run over some of the prostrate forms. As it was, the gentleman who was the original cause of the accident escaped with a few trifling bruises; the other male passenger falling on him was not hurt at all, and the infant was equally fortunate; but its mother had her arm broken, and sustained other severe injuries. Which of the two gentleman should pay damages is the question—the one who caught hold of her or the one who caused him to do so by catching hold of him.

Hurt his Good Name.

"Yer mout offer me er \$100 ter vote fur ver in de conwention an' it wouldn's hab no fluer ce wid me," said an old negro in reply to a candidate who had asked for his sup-

"Oh, I wouldn't offer you money," rejoir ed the candidate. "I believe in conductruption in office seeking has cast a dark shadow over our institutions. I wouldn't think of offering you \$100. I haven't that amount of money, anyway."

"Yer ain't? Well den dar ain't no use telkin' ter me. How much is yer got, no-

"I've got \$5." ain't gwine ter sell myself ter no white "Of course not."

dat 5?" heab, whut yer gwine ter do wid

"I'll make good use of it."

"Heah, lemme hab it. Dem folks thinks dat I'se dun sold out. I 'clare to goodness, white man, it hurts er pusson's good name to be seen er talkin' ter yer."-Arkansaw Traveller.

"Oh, don't propose to me here!" exclaimed a young lady, whose lover was about to pour out his avowal as they were riding by a

THE SOLEMNITY OF AUTUMN.

By Rev. James Hastie, Cornwall.

The beauty of autumn, the bounty of autumn, the beneficence of autumn, these worthily so; but there is a kindred theme of Autumn.

Autumn's plenty can be had only at the price of dissolution. The gorgeous hues of the maple and beach are but the pictorial believe once or twice, when Maj. Tucker form of the lament "Ichabod," "the glory (of summer) is departed." From field, and lated into G jarati for him. Things went on forest, and fruit trees come the rolemn re- thus until the hot weather came, when the minder: "We all do fade as a leaf.". "In missionaries, as is their annual custom, bethe midst of life we are in death."

umn is not a gloomy solemnity, but a gladsome. It contains the promise and potency of coming seasons. The fruit it matures that someone was poaching on his preserves, contains in germ springs and summers and state of holy anger and pious grief he reach antums yet to be. And has not the Christ ed Shadhawadi, and encountered Maj Tuck. ian the best of ground to be gladsome and er in full possession-banners, tambourines, hopeful in the autumn of life? "Marvel not tam-tams, and all. Mr. Beatty proceeded at this, for the hour is coming, in the which to expostulate, whereupon Maj. Tucker all that are in their graves shall hear His went down on his kness and prayed audibly voice and come forth; they that have done for the salvation of Beatty's soul. Soon afgood, unto the resurrection of life; and ter the dispute in the village took a practithey that have done evil, unto the resurrec- cal turn, and the missionary converts would tion of damnation." Yes, precisely so. "As not permit the Salvationists to draw water. the sowing so the harvest." "Glory, honor, Hence a petition to the collector, who had immortality, eternal life"-this fruitage to go down and make enquiries. He found hereafter can only spring from Christ the that there were only two wells in the village, crucified, believed in here and lived out in One was public property, and was usually daily life. "As is the earthy such are they used for watering cattle, but was then dry. also that are earthy; and as is the heav- The other well, on which the village depended enly such are they also that are heavenly. for drinking water, was private property, And as we have borne the image of the belonging to a native Christian who was earthy, we shall also bear the image of the not a Salvationist, and who now, in a truly heavenly." "He that has ears to hear let Christian spirit, refused to let the Salvationhim hear" to profit this present preacher en ists draw water from his well. The reits timely topic : "The Solemnity of Aut- criminations on both sides were rather am uma."-Presbyterian.

How the Sultan goes to Prayers.

At one end of the main palace is a handsome cream colored mosque with two minarets. Around this, though kept at a respectable distance, were crowds of people. the village with your tam-tams and your The street leading to the mosque was also banners and your horrid noise?" Maj. were sweeping toe streets clean, and then preserves at Anand and Borsad. The quarsprinkling fresh gravel over it, to make the rel seems a very pretty one as it stands. We passage of the carriage easier. Presently can only hope that the police will not have everything was complete, and soon after the to interfere. - The Tim's of India. glitter of arms appeared in the distance. The escort of soldiery was an immense one, representing the very flower of the Turkish army. They are well-developed men, elegantly uniformed, and under thorough discipline, as was evidenced by the admirable style of the few evolutions performed inci-

There was the Sultan's Cabinet and immediperial barouche. There were two other men in the carriage with his Majesty, one o whom-a fine looking man-was Osman Pasha, I was told. The carriage halted, his Majesty alighted, and in company with a few of his intimates, ascended to the mosque, the head priest sweeping off the steps before him. As he did so the mueddin in the minaret balcony above sounded his sonorous

call to prayer. Of course I could not get a good view of the Sick Man owing to the tantalizing movements of the boat. He is apparently of medium height, and, others who were present say, has an expressionless face, a licative of wholly political. He was dressed after the tions, including, doubtless, the Star and Garter. I am told that his devotions consumed an hour.

A Nevada Fish Story,

It is asserted on the authority of persons who have recently visited Marlette Lake that the prodigicus increase of trout in its waters has over stocked the lake. At times they can be seen massing themselves in the small streams which are tributary to the lake, and on these occasions they have been crowded out on the grass growing on the borders of the stream. Thousands could be thrown out with a pitchfork. A piece of bark thrown into the lake will cause a dozen or more of trout to leap for it. The coyotes have caught the knack of fishing and sit by the shore watching for leaves to fall in o the water. The mstant the leaf touches the water the fish rise, and like a flash the coyote bounds in o the thick of the fish, up in the underbrush they manage to escape observation.

Origin of a Petticoat.

"Uh, hum. no usen talkin' ter me. I our gracious queen set the fashion of wear- for a Beginning!" ing a scarlet under petticoat, an idea obtained from the milkmaids at Balmoral. It is said that the late Prince Consort, in admiring the effect of the red petticoat in the landscape, suggested that her majesty should | Served. adopt one also. This sealed the fate of white petticoats in England. They had been worn, previously to that, both in summer and winter, and, of course, in order to make sufficient warmth, several had to be field of several acres belonging to N. J. put on, thus adding to the weight to be car- Wood, of North Sterling, Conn. The vines ried at the waist. Since the introduction of turned yellow and sprawled over the ground. the scarlet skirt the fashion of the colored When Mr. Wood went to dig them a few ful skirt lined with leather has also been in piece. It is the first instance on record there troduced for walking in the country in in which a growing crop was destroyed by will pray with you, you poor miserable sinmuddy weather.

THE SALVATINN ARMY IN INDIA.

A War Between the Army and the Missionaries.

Here in Ahmedahad we from time to time topics have often been descanted upon, and hear of episodes in a comedy which is being played by the Salvation army and the mistoo often overlooked, viz. : The Solemnity signaries. When Maj. Tucker with his "army" came up to Ahmedabad, the mis-Pre-eminently, autumn is a solom season, sionaries received them with open arms as Autumn's beauty is the beauty of death. brothers and fellow workers in the good cause and lent Maj. Tucker their schoolroom to lecture and hold meetings in; and I preached in the open air, Mr. Beatty transtook themselves to the hills-this year to The change that comes over the face of Pinto's hotel, Matheran. Maj, Tucker, nature between Jane and October is not however, stayed in Ahmedabad, spending greater than the change that comes over many of his days under the shade of a tree man between youth and old age. In both by the readside, talking to such as would cases, trials play an important part in the hear. However, in some mischievous momtransformation. Sun and wind, and biting ent, he seems to have remembered that the frosts have much to do in beautifying the missionaries had a little community of convariegated leaf and fruit. And is not char- verts occupying the village of Shahawadi, acter ripened and beautified by providential about three miles south of Ahmedabad, trials? Happy those whose autumn of life which community was their particular pride is more conspicuous for the beauty of ripe- and care. Maj. Tucker seems to have ness than for the deformity of decay; whose thought that these Christians must be in character glows with love and meekness and special need of salvation, for he proceeded goodness, with faith and hops and charity; to invade the village with tambourines, who are more humble, more pure, more tamtams, banners, etc., and, after a little, Christlike as the winter of the graves draws succeeded in converting a large portion o near. But, happily, the solemnity of aut- the village, including the patel, to the "mukhtifani."

The news reached Mr. Beaty at Matheran using. Cne old S. lvationist lady exclaimed with much warmth: "Oh, I have drawn water from that well all my life. Why retorted: "Why do you disturb us and

AMERICAN FABLES.

Mile beauthouse all the THE BOY AND THE BEES,

A Boy who had a great curiosity to When the soldiers had been distributed know how a Bee-Hive was constructed properly in phalauxes about the door I could entered an Apiary and proceeded to upset two carriages filled with favored members of Pocket for a Two-Foot Rule the Angry the harem who did not alight. There was Swarm alighted upon him and ran the one carriage containing the five princes of thermometer up to such a Notch that he the royal household, scared looking little cried out in a voice which could be heard fellows, from 10 to perhaps 16 years of age. a mile away. When the last Bee had got ate staff on foot, directly in front of the Imwith a Yellow Back and a Squint-Eye flew up on the Gate-Post to Pick the Bones out of his Teeth and said :

MORAL:

"Better wait until the Mule is Dead before picking up a Hind Foot to see how it is glued on. When Curiosity interferes with the Housework next door it is time to throw Flat-Irons."

THE HARE'S REBUKE.

A Hare who was out in the Early Morning to secure her Breakfast began most approved French style, in a black suit, stepping on all the Insects she Encounterwith fr. ck coat, black tie, and the national ed, and even went out of her way to roll fez as a headdress. The lappel of his coat a Field Mouse on his back and make him was distinguished by two or three decora- feel his inferiority. He was having a Boss time when a Hawk swooped down and bore him away before he could repeat five words of the Prohibition Plat-

> "Well, well I" chuckled an old Beetle who had been Hidden under a tuft of grass, "the One-Hare Power may be a big thing while it lasts, but the drop is too sudden for such blood as mine."

Jay Gould is a big boss, but —.

TWO OF 'EM,

A Sly old Wolf who wanted some Pretext for Attacking the Hares Finally Announced that he had Become a Convert to a New Religion, which Privileged him to Dine on young Rabbit. Armed with this excuse, he was Promenading Around and is certain to bring out one or two in his in Search of Meat when a Lion met him mouth. The coyotes are shot whenever any and Demanded an Explanation. When of the lumbermen see them, but by stealing | the Wolf had Explained his new Religion and his Intentions the Lion replied;

"How odd! While your Religion Privileges you to Eat the Hares the one I have just Tackled Commands me to

MORAL:

The man who gets a Spavined Horse

while Trading Off a Blind One is Rightly

A Potato Crop Destroyed Lightning.

A flash of lightning struck an entire potato the electric fluid,

AGATES.

Where They are Found and How They Are Worked-The Ingenuity of the Agate Worker.

Scotland is famed for its agates, better known as "Scoton peb! les," which, although small or mpared with those found elsewhere, are yet unequalled in the variety and beauty of their colors. Scottish pebbles are found chiefly at Kinoul hill, near Perth, on the shore near Montrose, at Dunglass, and at Barn Aune, near Galston, Ayrshire, but whether they or car on the shore or in river grave's, they have been all previously washed out of trap rocks. The pebbles, cut by Elinburgh lapidaries, are used in the manufacture of Scottish jewellery. The chief seat of the agate industry of the world, however is at Oberstein, in Rhenish Bavaria, where it has been carried on for centuries. It arose there naturally enough, owing to the presence in the volcanic rocks of the neighborhood of an abundance of fine agates; but it has continued and extended long after those rocks have ceased to yield, or at least to be mined for, the raw material of the industry. The agate quarries of Oberstein were abandened owing to the discovery, fully half a century ago, of a rich supply of those stones in the river gravels of Uruguay, Some German workers in agate, who had emigrated to that region, noticed the courtyard of a farm-house paved with pebbles that reminded them of the agates of their native Oberstein. Specimens were accordingly sent home and cut, and the surmise proved correct. Since that time there has been a regular export of agate nodules from Uruguay as it passes away is embryonic fruit, and and he hastened to rescue his flock. In a to Operstein, where they have long formed the staple material used in the agate mills. These "Br. zilian agates," as they are called when brought to Germany, are arranged in lots and sold by auction, stones of ordinary quality bringing it is said, not more usually than 15 shillings per hundred weight. "German agates" are thus, for the most part, South American stones cut and polished at Oberstein. The extent of the industry has greatly increased with this accession of fresh material, and a few years ago there were no fewer than 163 agate mills, working 724 grindstones, and giving employment altogether to about three thousand persons. Cheapness of labor and a plentiful supply of water-power bas much to do with the continuance of this industry at Oberstein. The labor is both ill paid and severe The agate worker, says Professor Rudler, who some years ago visited the mines and mills, "lies upon a low wooden grinding stool, specially constructed to fit the chest and abdomen, leaving the limbs free; the hands are engaged in holding and grinding the agate, while the feet are firmly pressed against should you break my pots if I go there now? | short stakes or blocks of wood screwed into You're not Christians!" To this an old man | the floor, the reaction enabling the grinder to press the agate with much force against frighten our buffaloes by marching through | the moving millstone. The friction thus produced causes the agate to glow with a beautiful phosphorescent light, and red carlined with an expectant multitude. Men Tucker is now poaching on the missionary nelians under this treatment look, it is said, as if they were red-hot. The mill stones of are red sandstone, measure five feet diameter, and generally make three revolutions per second. The finer agates are sliced by means of steel wheels and diamond or emery powler, but the coarser stones are simply chipped into shape and ground, Afterward they are polished on rotating cylinders of wood or lead covered with moistened tri-The ingenuity of the agate worker is not

confined merely to cutting, carving and polishing his material into all manner of shades, He has also succeeded in varying its color get a view of the royal train. There were a Hive, but while feeling in his Hind by artificial means. The layers composing an agate differ considerably in poresity, those that are transparent, for example, being less porous than opaque layers. Some indeed, seem to be altogether impervious at ordinary temperature and pressure; and agate workers both at Oberstein and in India have availed themselves of this peculiarity in applying their staining processes. A suitable agate, after being thoroughly dried, is immersed in a mixture of honey and water or in clive oil, and is kept thus for at least three days, exposed to a moderate heat, It is then washed, dried, and put into a vessel containing enough sulphuric acid to cover it. The vessel is thereafter exposed to a gentle heat for a varying number of hours, when the porous layers are found to have become much darker in color. The reason of this is that these layers, having become saturated with the syrup or oil, are acted upon by the sulphuric acid, which decomposes the sugary or oily constituent and forms in its place a deposit of carbon. It is in this way that banded agate is converted into the onyx with its black and white layers, used in the production of cameos and intaglios. Exposure to strong sunlight was long ago found to give a reddish tint to gray-colored agates, and this suggested the burning of such stones so as to convert them into carnelians, At Oberstein, likely stones for this purpose are first dried thoroughly, then saturated in sulphuric acid, and afterwards exposed in an earthenware crucible to a red heat. They are allowed to cool slowly, and are then seen to be of a bright red color. Not content with imitating the rarer natural varieties of agate, such an onyx and carnelian, German manufacturers have taken to staining agates blue and all sorts of colors unknown in the natural stones. Aniline dyes, unnatural as they are fugitive, have also been lately used for agate staining. It is possible that the stones themselves may yet be artificially produced. Indeed, according to King ("Natural History of Gem3"), a Florentine anatomist long ago accomplished this feat, although unfortunately, the secret died with him. He is said to have petrified human viscera into real agates. "In the hospital of San Spirito may be inspected still by the incredulous," says King, "a table top made up of hearts, lungs, livers. etc., thus agatized into one large slab-meet board for a banquet of vampires!" Organic remains in agate are not unknown, for Bowerbank states that in the moss agates of Oberstein he has found microscopic organisms, and Dr It was about the same date (1855-56) that Paralyze every Wolf I meet! Take that Heddle says that he has found undoubted organic remains of considerable size in agates from Ayrshire and other localities, - Edinburgh Scotsman.

> "What is the price of this axle grease?" asked the new clerk of a grocery dealer; "there is no mark on it." "It depends on your customer. If he asks for axle grease, charge him 15 cents a pound; but if he wants butter, make it 38 cents."

While the very young daughter of a country clergymen was playing in the garden one day, a stranger came along and inquired if petticoat has been maintained, and the use- days ago he found not a potato in the whole her father was at home. "No," she replied: "but my mother is in the house, and she