The Poor Mechanic Who Invented the There is a curious history about these Marly water-works. When Louis XIV. was laying out the gardens at Versailles he discovered that the springs and ponds included in the grounds were insufficient for supplying the fountains of the park with water. His engineers studied over the matter, and finally it was determined on the construction of a machine to bring it from the Seine by means of an aqueduct. The plan accepted out of the several presented was one by the Chevalier de Ville, an engineer connected with the works in progress at Versailles, but the real author of the Marly machine, considered at the time one of the wonders of the world, and the scientific chef d'œuvre of Louis XIV., was a poor carpenter named Renequin Sualem. Shut up in a little cottage at Bongival he patiently elaborated the diagrams of the complicated ensemble of beams, wheels, and dams, for which Chevalier de Ville got all the credit, and ne sub-mitted to this injustice rather than lose his only means of support, the small salary paid him as a subordinate to the Chevalier de Ville. The machine was intended to force the water of the Seine to the top of the squeduct. This was accomplished by 14 wheels, each 39 feet in diameter, working 64 pumps, which carried the water to a first reservoir dug in the side of the hill, whence 79 other pumps carried it to a second reservoir, and from there it was forced by 78 pumps to the reservoir from which it flowed into the aqueduct. In all there were 221 pumps to raise the water to a height of 504 feet from the surface of the stream and to carry it a distance somewhat less than two miles. The inauguration took place in 1682, in the presence of Louis XIV. and his court, who were stationed on the top of the great tower of the aqueduct. At a signal given by the King the fourteen wheels commenced turning and in a few minutes the water was flowing into the granite basin at his feet. The Chevalier was overwhelmed with praise, and rewards in the shape of titles, honors and money were freely bestowed on him, but poor Sualem got nothing and soon afterward died in poverty. Since then his name has been given to the quai on the river nearest to the machine he erected, a tardy and sterile reparation. The machine cost 9,000,000 livres, a sum which would nowadays be equivalent to \$15,000,000. Its capacity was six thousand cubic yards of water per day; but this was found to be an insufficient quantity to realize the project of Louis XIV., which was to have the fountains playing all the time. Then another scheme was devised, that of turning the little river Eure into a reservoir, and of utilizing its water for the purpose. Work was commenced regards cleanliness and system .and pushed forward actively. The erection of an aqueduct, the remains of which stil. exist, near the village of Maritenon, was undertaken, canals were dug and more than thirty thousand soldiers labored on the enterprise. The sickness caused by the turning over of such masses of earth was so fatal among the troops that wagon loads of dead bodies were carried away from the hospitals by night, and as secretly as possible, in order not to cause a panic among those who were well enough work. The project was persisted in for several and mainly acute epidemic diseases. years, and only abandoned in 1688, when the war required the presence of tiers elsewhere. According to

quis XIV. was not sorry to xcuse to abandon an uncost of which far exmates. It is a wellthe King was so sums spent at Verhis own hands he relating to the matnpletion the cost of Marly machine has I, and at the same of water it could supdiminished. At the nent of the present century supply dropped to 300 cubic yards of water per day. The machinery was

repaired and improved several times, but the results were still unsatisfactory. In 1857 it was entirely rebuilt, and two years later the Mansart aqueduct was constructed, which supplied the grounds at Versailles with from 10,000 to 18,000 cubic yards of water per day. This instead of being a masked fortress of rafters and wheels which occupied a surface of 900 square yards and deafened the neighborhood with its noise, and which it took Sualem seven years to build, was a machine, simple in its parts, working with accuracy and noiselessly. From the small brick house that sheltered the machine, the water is pumped directly into an aqueduct that carries it to a reservoir with a capacity of \$50,000 scubic yards and from the reservoir it is distributed through three mains to Marly, Versailles and St. Cloud .-Paris Cor. N. O. Picayune.

## The Voracious Spider.

A spider, as shown by an estimate by means of actually weighing it and then confining in a cage, ate four times its weight for breakfast, nearly nine times its weight for dinner, thirteen times its weight for supper, finishing up with an ounce, and at 8 ran off in search of food. At this rate a man weighing one hundred and sixty and Surgical Reporter. pounds would require the whole of a fat steer for breakfast, the dose repeated with the addition of a half dozen well-fattened sheep and four hogs for supper and then as a lunch would indulge in about four barrels of fresh fish. -N. Y. Star.

-A couple of colored children, boy and girl, near Felicians, La., recently became engaged in a quarrel, and at a certain stage the young man threatened to shoot the girl it she did not stop talking. The girl wanted the last word, as usual, whereupon the boy pulled a revolver and shot her in the eye, killing her instantly. The boy is the matter, and proper care given their under arrest. -N. O. Times.

#### FRENCH PEASANTRY.

Beneficent Results of the Division of Franc

Into Small Agricultural Properties. M. Baudrillart declares that the di vision of land in France into small agricultural properties is in accord ance with the natural configuration o the country, and is, accordingly, nor mal and healthful. Many of the products which add enormously to the wealth of France, such as the vine the olive, and a multitude of fruit trees, need manual labor in their cultivation, as do horticulture and market-gardening. In all these lines of production the division of property into small estates tends directly to larger returns. Before the French revolution there were 4,000,000 land owners. Ten years ago this number had doubled, and although it may have been reduced somewhat since, it consequence of the long agricultural depression, it is probably not far from that figure at the present time. Hall the landed estates in France pay less than five francs in taxes, but these plots of ground yield a gross produce of double and triple the calculated return. When the evil of excessive di vision becomes too great, it constantly tends to correct itself by the action of self-interest, and there is now going on in many parts of France a movement toward the reconsolidation of es-The average yield of these properties is far in excess of the average yield of larger estates. In the matter of stockraising the small farms have decidedly the advantage as regards borned cattle, and the large farms as regards sheep. Since 1821 the value of small properties has trebled and quadrupted, while that of large properties had only doubled.

The industry and thrift induced by universal land-holding have practically banished agricultural pauperism from France. There are a few wandering beggars and a few persons in each community depending upon aid, but provincial France is self-supporting. The peasants are less deeply in debt than formerly; they borrow less and their savings constantly accumulate. The rise in the price of agricultural labor has made the lives of this class of laborers much more tolerable than formerly, while the small proprietors have steadily improved their condition. White bread has superseded largely the rye bread of former days, and in the more prosperous provinces meat is frequently seen on tables from which it was once almost entirely absent. The style of living is, of course, of the plainest description, but it is comfortable and adequate, and the families are independent and enjoy the humble pleasures which spring from these conditions. The great majority of cottages are decently furnished, with respectable accommodations, and the housekeeping is often admirably conducted as Christian Union.

### A NEW DISINFECTANT.

How Coffee May be Used as a Temporary Dressing of Wounds.

Years ago some studious Germans made the observation, the correctness of which he endeavored, and to a great extend also succeeded, to establish by statistical data, that coffee, if taken in the morning on an empty stomach. acted as a preventive against infectious for colors. He quoted a great number of cases vicinity of New Ireland, have no parby the disease, contracted it in a much man, has lain in wait and killed him. milder form; while all those who died coffee was still either an unknown or ly the rich could enjoy. We have forgotten the name of the physician. but remember that the medical profession did not take kindly to the idea of coffee being a disinfectant, or as they then said, an anti-zymotic, and those who could not deny the correctness of the observation itself, ascribed the apparent immunity to other causes; many to the hot water with which the coffee was prepared.

That the physician, however, has not been so wrong has been but recently proved. During the last meeting of the Prussian army surgeons in Berlin, Medical Director Oppler reported that after extensive investigations, which he related in detail, he had discovered that we possess in coffee an antiseptic remedy of no mean value, but one which could well serve for the purposes of a first dressing of a wound in a bat-tle. If employed at once it totally prevented suppuration, but if used after pus has already accumulated in the wound it leads to the formation of a seab, beneath which the wound heals with complete asepsis. The coffee should be employed in the form of powder as it might entail the loss of valuable time to have to grind first the roasted coffee bean, which in Prussia every soldier is bound to carry about him. Dr. Oppler recommends the use of coffee tablets, which have recently been discovered by a Hamburg firm and which answers the purpose admirably well, as it is only necessary to rub p. nr., when he was released, these tablets a little, when they at once assume a powder form .- Medical

-Mr. Payne, who was the bugler boy for General Sully in the Indian campaign of 1862, lately visited a battle-ground near Cranden, in Spink before going to his club banquet he County, D. T. He says two bundred Indians were killed there and all buried in one grave by the soldiers. Skulls are now seen lying on the ground turned up by the plow. It was not known before by the settlers whether Indians or whites were buried there.

#### SOUTH PACIFIC SAVAGES.

Wars, Dress, Rites and Social Habits of the South Sea Islanders.

The inhabitants of the South Pacific coast islands are in many respects strange human beings, and not the least singular fact in connection with them is their manner and custom of life, both in the domestic circle and when battling with other tribes. Some six thousand miles from this city is the Marshall group of islands, the inhabitants of which are conspicuous for their warlike propensities, great size and gigantic strength, together with other traits of strongly original character. and regarding which little or nothing is known in the civilized world. A few days ago the three-masted schooner John Hancock returned from a trading cruise to the Gilbe and Marshall groups, and the master of the vessel, Captain William Chipman, secured a valuable collection of curiosities in the shape of war-clubs, spears, boat-pad-dles, shells, etc. With Captain Chipman, as a passenger, was a young man, S. F. Gray, of this city, who, during his visit to the islands, gained much interesting information concerning the islands and their inhabitants. The natives are large and powerful.

They are not unlike the New Zealanders, being of a dark, copper-colored complexion. In addition to a natural inclination for warfare they are very treacherous and in some portions by the group are cannibals. Their main occupation is like that of the Indian, loating and picking cocoanuts, which are prepared and shipped to this country with considerable profit. When not engaged in harvesting the cocoanut crop or loafing about on the ocean n a dug-out canoe, the Marshall Islander puts in his time carving grotesque figures on canoe paddles and in whittling out murderous-looking war lubs, spears, arrows and other similar weapons. In carving they display great ingenuity and while the figures as shown on the paddles are not exactly pretty, they are very intricate and are not unlike similar work done in

The figures on the paddle represent belief, if upon his boat paddle there is carved the figure of an idol he can safely navigate anywhere. In this connection it may be well to state that these Islanders are the boldest and most skillful canoe navigators in the Pacific. They make voyages extending over many months, trusting to Providence, or rather rain, to supply them with fresh water. They navigate by means of a small chart composed of small sticks tied together and representing the position of the various islands as regards the point of depart-

In warfare their weapons consist of lubs, spears and arrows, all of which they use with the greatest skill and accuracy. The clubs are made of ironwood and are very heavy. They are of various shapes, the most murderous being the gnarled root of the ironwood tree. The other clubs are of lighter character. The arrows are made of light bamboo, the points being of ironwood. The spears are also made out of the same kind of timber and run down to a fine point, which is tipped with a poisonous preparation. The feather end is fantastic and gaudy, a regular bouquet of feathers plucked from the rarest birds being used and blended together with a strict regard

The Islanders, particularly in the where individuals accustomed to drink ticular love for the whites, and it is not a cup of hot coffee for breakfast had an infrequent occurrence to find some either escaped an epidemic of typhoid, settler lying in front of his door dead. then ravaging the part of Germany in It is the work of some native, who, which the observer lived, or if attacked having become offended at the white

The natives do not tolerate polygfrom the disease had not been in the habit amy, and after marriage the women of taking coffee in the morning. This are famous for their fidelity. A sort of was a good number of years ago, at a a slave traffic exists throughout the time when in many parts of Germany islands, though, and single women can be purchased for servants for a so costly a beverage as to be mere trifle. Clothing is a thing unlooked upon as a luxury that on-known in most of the islands. In and ly the rich could enjoy. We have about New Britain and Ireland, however, the breech-cloth is used .- San Francisco Examiner.

## CLEAN NEWSPAPERS.

The Rapidly Growing Feeling Against Sensational and Unreliable Sheets

There is a growing feeling in healthy

communities against journals which make it their special object to minister to a perverted taste by seeking out and serving up in a seductive form disgusting and licentious revelations. There is good reason to believe that the clean newspaper is more highly prized to-day than it was four or five years ago. It s also safe to say that, as people in all ranks of life, who protect their own, at least, from contamination, become more conscious of the pernicious influence of a certain class of journals, which are called enterprising because they are ambitious to serve up dirty scandals, they will be careful to see that the journals they permit to be read in the family circle are the class that never forget the proprieties of life. Already men and women of refinement and healthy morals have had their attention called to the pernicions inflaence of bad literature, and have made commendable efforts to counteract the same, by causing sound literature to be published and sold at popular prices. These efforts are working a silent but sure revolution. The best authors are more generally read today than at any previous day. The sickly sentimental story paper and the wild ranger and pirate story books are slowly but surely yielding the field to worthier claimants. In praise of the decent newspaper it may be said that where it has a place in the family, and has been read for years by young as well as old, it has developed such healthy tone and such discriminating taste, that the lifenature of the slums has no admirers. Fortunately, the number of such faruilies is increasing in the land, and as they increase, the journal that devotes itself to siekening revelations of immorality will be compelled to find its supporters solely among those classes who practice vice and crime, or are ambitious to learn to follow such ways. -Printers' Circular.

#### SUGAR-MAKING.

How the Saccharine Matter Is Extracted

The process of "sugar-making," in Its essentials, is a simple enough matter of cookery. The first care of the producer is to get all the sugar possible out of the cane or grass or root, either by squeezing out the juice or washing out the sugar; the sugar-maple saves the sugar-maker this trouble, delivering the sap ready for the boiler. The juice which brows and lashes are colored. is then cleaned of its impurities, as coffee is cleared by the white of an egg. or water is filtered through charcoal; it is then boiled, to evaporate as much with palm and finger-tips rosy with of the water as possible, and crystallize "henna." The whole woman is enof the water as possible, and crystallize the solid sugar; it is then cooled, and the molasses drained off, leaving the soft dark sugars, in which each crystal has its thin coating of molasses, or dried by a centrifugal machine as clothes are dried in the whirling drier, whence the water flies out, or further clarified and left to crystallize in white loaves, which are sawed or crushed or ground or powdered into the several eyes, a vision of beauty! and then—a varieties of line white sugar. Most of rloud of dust.—N. Y. Mail and Exthese earlier processes are performed on press. the plantation, but in many cases they are repeated and the sugar carried through the final process in the great refineries. "Refining" is, in fact, little refineries. "Refining" is, in fact, little more than a finer repetition of the processes of "making," and to do these simple things on a great scale and in the best way is the sole purpose of those enormous bee-hives of industry.

The sugar-maker's first aim is to get from the cane as much of its percentage of juice as it can be induced to give up. The juice is enclosed in little cells of lignose, or woody fibre, which make the other tenth of the cane's weight. There are three ways of extracting the juiceby crushing, by soaking out the sugar by the process of "diffusion," or by a combination of crushing and maceration in water. Crusking or grinding the cane is a process in use from the earliest times, as is seen in the primitive sugar mills of the East, which consist of the hollowed stump of a tree, within which is a grinding pestle worked by oxen treading their round, driven from the arm of the bar by one man, while another feeds in pieces of cane, one by one, and takes out the crushed remains. A mill almost as primitive as

this is still in use in Arkansas. The sugar-house on a great plantaof the farm, to which roads or tramways lead in all directions. As a load of cane comes up, it is fed upon an endless belt or rallway, which carries it up simple construction but of enormous power. The crushers are great rollers of east-iron, in pairs or triplets, somet mes one set, sometimes fifty to eighty pounds to the square inch, and so arranged as to give slightly be-fore any extraordinary strain. There are all sorts of opinions as to whether pressures. The juice flows from the be used either for dressing for the cane of fields or as fuel in the heating processes which the juice is next to undergo. One of the great improvements in modern sugar-making has been the development

## ORIENTAL LIFE.

In the Oriental household there are

Ceremonies Observed at a Fashionable Turkish Dining Party.

ular sitting-rooms, dining-rooms, bedrooms. The divan, which serves as a eats when disposed to. Sweetmeats, sherbets and coffee, particularly the last, long. When a regular meal is served, the frontier, six weeks after it was it is usually an "occasion" of some crossed.-Fortnightly Review. sort, and it is served in courses. The greater the "occasisn," the larger the number of courses. One dish composes the course. It is served on a large cir- The Annual Profit to Be Derived From cular platter of copper or brass or silver or gold, according to the wealth of the host. The platter is placed on a circular table of the same circumference as to defile it. A meal served in this way plenty of cells to fill, as well as keep up consists of any where from six to twen- tacir numbers, they will perform : served. The good Mussulman never not only with the habits of the bees, drinks wine in public. After every but also with the condition of the coloway of the feast, to long for a draught live dollars as the net profit, which, conof cool, clean, comfortable water.

after all.

drive. This is always in a coupe or more profitable method. - Farm, Field clarence; never in an open carriage. and Stockman. First comes the "saice," or running footman, always a tall, lithe, handsome young Arab, with bare legs and feet,

oft, white muslin. Armed with a long, light staff, he waves it in graceful curves and evolutions in the air runs in advance of the clearing the way. comes in great state the eunuchs-two four or six, according to the rank of the 'Pasha' to whom belongs the cortege, and then, lying back as only an Oriental woman can, is a soft, lovely, fat creature, with great, languishing black They shine like great stars above the white "yashmak" which covers the white "yashmak" which covers the lower portions of the face. Some times may be seen a little, soft, dimpled hand, veloped in clouds of soft, white drapery, with here and there a great jewel gleaming. The "saice" flies on with his light, swinging pace and musical cry. The eunuchs ride rapidly and well, but with great "state and ancient-ry." Then the carriage bearing Fatima appears-a mass of white drapery, a gleam of jewels, a flash of dark

# IMPORTANCE OF CAPITALS.

The Defenseless State of England In Case London Were Captured.

nting his rapid conquests of Austria, Prussia and Spain to the defenseless state of their capitals, and the loss of his own kingdom in 1814 to the same defect. In the war between Prussia and Austria in 1866 the latter power made beace when the capture of Vienna became almost inevitable. When the French and Germans fell out in 1870 the French cry was "a Berlin;" and the lierman hosts having cleared the French field armies out of the way, fastened their grip on Parti as the vital point. The enormous development of the German force, and the long-countinued octupation of the country before they could force the city to surrender to blockade, afford a measure of the advantage of fortifying a capital as a means of preventing an attack upon it. The Crimean war and the Italian war of tion is a large, high building, the center 1859 might seem exceptions to the rule that the capital is the vital point, but they are not. The first was undertaken as a means of preventing Russia from taking or threatening the capital of slowly to the crushing-mill, an affair of Turkey, which is, besides, a most important strategic point. The second was in a sense a local war for an outlying province of Austria, in which that State was not itself invaded more, working at a pressure of from at all; nevertheless, the capture of the capital of Lombardy was followed by the evacuation of that province by Austria, and the battle of Solferino was only necessary to prevent her atit is better to crush once only or to re-peat the operation with increasing sides being our commercial and social center and the seat of Government, incrushers in one direction; the residual cludes within its immediate neighbor-cane, now known as "begass," is ear-ried off in another by an endless belt, to of guns at Woolwich, our prin-cipal powder factory at Walcipal powder factory at Wal-tham and some of our largest private powder factories, our great and only Government small-arm manufactory at of furnaces which get most of their fuel Enfield, and our chief store of small from the begass .- R. R. Bowker, in Har- arms at the Tower. The capture of London would therefore paralyze our defen-e, and though no doubt we could transfer the seat of Government elsewhere, and find factories of arms, powder, etc., in the midland counties and the north, yet they are very acressible to a foreign army and equally undefended. It will serve to give some no fixed hours, no fixed habits, no regidea of our position in case we lost command of the sea round our coast (we must not limit our command to the seat or lounging place during the day, channel), if it is remembered that Lonserves as a couch at night. Each person | don is only fifty miles from the south coast and tifty from the east; that after many battles, and in spite of French forces numbering 210,000 men, the Gerare partaken of at intervals all day mans had got to Paris, 250 miles from

## BEE-CULTURE.

an Ordinary Hive. As to how much honey may be expected from each hive no one can give a the platter, and about a couple of feet correct answer. A swarm may store a high. Around this table the guests large supply one season and fall short place themselves either on cushions or the next. The temperature of the atin order to be accurate I must be in- mosphere, the duration of the winter, elegant—squatting. There are neither the length of the following season, and knives, forks nor plates, nothing but the huge platter, which entirely covers the number and kind of plants within the table; and from this huge dish each their reach affects the result. Then, person helps himself with the first two again, something depends upon how fingers of the right hand. Never under much the bees are assisted. By supplyany circumstances must food be touched ing artificial comb, and arranging the with the left hand; to do so would be hives so as to permit the colony to have ty-six courses. Some of them are very greater amount of work. Bee-keeping nice, many of them very nasty. It is is a science, and he who engages in the hardly necessary to say that no wine is business should make himself familiar, course servants hand to each guest a small basin containing tepid water delicately perfumed and a clean napkin. This is very refreshing, and, when the duties a New York bee-keeper succeeded manner of dining is remembered, very in netting twenty dollars per hive from necessary. There is no lack of figuid his bees for thirteen years, the number refreshment, but as this is made up of sherbets of various flavors, but all extremely sweet, one is apt, about mid- the average bee-keeper, and allow only sidering the ease with which the bee-Of course, it is always more or less of keeper will secure that proportion, is an an "event" when the master of the amount that will amply reward the household visits the harem. There is owner. The profit depends upon the always sad heart-burning and jealousy food and its abundance as well as the of the favorite wife-generally the last number of colonies. It is much better of the lot. From this circumstance one to have only ten strong colonies, yieldis apt to conclude that there is a great ing ten dollars per hive, than twenty deal of human nature about the Turk, weak colonies that produce only five dollars per hive. As a rule, the major-It is a very pretty sight to see a Turk- ity of bee-keepers are induced to keep ish lady of rank taking her afternoon too many bees, which is not always the

-Several cheese factories in Chauclothed as to body in a thin white shirt, tauqua County, New York, have lately with wide, open flowing sleeves; a sash been transformed into creameries for of gay colors around his waist, his head the manufacture of butter of a high covered with the inevitable "tarboosh," grade. Low profits in cheese is the reaaround which is rolled a great turban of ison for the change. - Buffalo Express.

IN THE POULTRY YARD How Hens and Young Chicks Sh. One must not expect too much poultry-keeper certainly will be a

pointed unless he discounts his

fifty per cent. and is contented wint

as much as he expected. The maids

too soon is only a type of the ma

the old story who counted her

poultry amateur, who uses addition and multiplication too freely, and badly cut up by division when he to sum up the results of his ban Nevertheless, there is a way of be successful in keeping poultry, and man or woman, boy or girl, who keep a flock of twelve or twenty for and can figure up at the end of season a profit of a few dollars be them, is on the way to make a he business profitable. One thing at is favorable, which is that poultry neuts are salable everywhere at prices, while near a large town or quite a good price can be obtained both eggs and chickens, Near in city a profit of \$7 per head has a made from a flock of twenty-two Brahma hens, the eggs averaging dozen to each hen for the year and young fowls forty pounds per which resulted from an average of chicks to each hen, and each p Napoleon enunciated this as a milifowl when fat for the holidays, w ary principle in his reflections at St. ing one with another, five pounds 25 cents a dozen for the eggs a Helena, giving his reasons, and attribcents a pound for the chickens the total equaled \$8.75 per hen. This stance will afford a basis for comp ison with other flocks less favon situated, and if the usual division indulged in and the product be lake and the prices then be halved a will still be the very comfortable; satisfactory profit of nearly \$2 per le This figuring ought to be encoura to the ambitious young poultry-kee who can see very clearly that it pay to rear poultry, although the pr of eggs and fowls may be low, if he careful and attentive to the needed

> In spring and summer care is no needed. The brooders are busy and young chicks arriving freely require ention. The greatest bane however the poultry yard is fussing. When hen is well set she should be left also The hen understands the business incubation better than any incub maker, and the only care requirements after a hen is safely on the m is to watch for the chicks and ready to take them from the suntil all the brood is hatched small basket, with a piece of blanks soft woolen cloth to cover the you nestlings' will be found very useful save the young chicks from b crushed in the nest. As they are hatthey should be brought in and put the basket, which is kept in awa place. No feeding is required in twenty-four hours or more. The li creatures will sleep and digest them nants of the yolk inclosed within the

during the one or two days the a

mainder of the brood are coming for

be put in a dry place. After a number of years' practice we think an open si

facing the south is the best place for \$

coops, which are thus protected in sudden rain storms or rough water

When the hen is in the coop with h

brood she will get along without ber

watched, and fussing is again a base

The coops should be roomy and should

her. The stable food for young the mill will serve to crack the wheat and bushel of corn may be taken to them and be ground into coarse homin This is for the first few days' feela Whole wheat may be given when a chicks are ten days old. The greats treat is a few earth worms dug for rich damp soil, and these are swallow with avidity, and seem to heathful. In place of these we to some lean beef and chop it is and give a teaspoonful to a brood of the or twelve once a day. Pure water newed three times a day is indispensible. The very frequent "gapes" wild destroys one-third of all the chicken hatched, as we believe, is easily avoid by ke ping the chicks on clean ground Our chicks have the run of the garden the coops being set among the me where there is more room, but adjace to the other coops. The sprightly, is tive young creatures will wander or half an acre of garden, picking up in then beetles from the radishes, and to nips, the flies from the onions, jumps up to take striped bugs from the melon and cucumbers, and by their rester ness disturbing every insect person saving something from its ravages. a garden of half an acre there is room for twenty crops of ten chicks each, and the service these 200 chicks will down pay all the cost of rearing them. little corn-meal scattered aroundapin tree, which is jarred immediately ab-ward, will bring up the chicks, who will seize upon every sly carculio who drops and lies as if dead, and will be

up to infest the young chicks.
But the hens should not be negled altogether. They are, or should be inclosed in a yard and kept out of m chief. If the yard is large, as it show be, and divided into two parts to affect a change, and each half alterned sown with oats or peas, or rape so for green picking for the hens, there do as well as if on a range. But and other varied food, a liberal tri-wes allowance of fresh bones from butcher, broken up small with a harmer, should not be neglected and abundance of pure water should be provided. We have found a pasture young rape and mustard sown apa half of the yard to be a most excellen provocative of eggs, and the plowing spading of the yard-a hand plow very useful for this purpose-buries the foul matter and keeps the grot sweet, pure and healthful. This sorts food and ground is particularly of ductive to health, and health to eggs at flesh, and consequently to profit.—Her ry Stewart, in N. Y. Times.

save the plums. The garden groun

clean and the gape worms are not pick

-The New York Legislature passell bill providing that no minor under to age of eighteen and no woman unit twenty-one shall be employed in all manufacturing establishment more than sixty hours per week, and that no chill under thirteen shall be employed in sal such establ shinent.