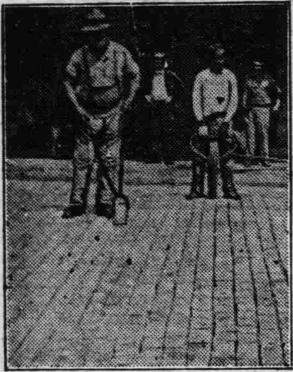
GRANITE BLOCK FOR PAVING

Material Regarded as Particularly Suitable for Trunk Lines Entering Large Cities.

Study of various paving materials suitable for much-traveled highways has disclosed interesting data on granite blocks to the bureau of public roads of the United States department of agriculture. Many road builders are coming to regard this material as particularly suitable for trunk lines entering large towns and cities where there is an increasing amount of heavy traffic.

Though the initial cost of granite block construction is high, the maintenance of the pavement, if properly laid and grouted, is less than that of



The Maintenance Cost of This Kind of Pavement, If Properly Laid, Is Less Than That of Almost Any Other Kind of Pavement.

almost any other type of pavement In Worcester, Mass., over a period of 10 years the average maintenance cost per yard was less than a half cent. This also is true in other cities, regardless of the fact that in general the streets covered with granite block paving are those carrying the most severe traffic.

ROAD TESTS IN CALIFORNIA

Over Adobe Land Concrete Is Laid on Sides With Macadam in Middle -Surface Topped.

An experiment in road construction over adobe land is being made in a section of the county highway between Bay Point and Pittsburg, in California.

Experience has shown that concrete roads built over adobe land results in the cracking and disintegrating of the road in a few seasons and in an effort to overcome this trouble County Surveyor Arnold is having the link of the county highway constructed in a manner tried in several eastern states and proved successful.

The concrete is laid in two separate sections, each eight feet wide with a two-foot strip through the center. In this strip is placed oil macadam which is rolled level to the surface of the concrete and the entire surface is faced with a topping.

GOOD ROADS ARE ESSENTIAL

Success of Motor Truck Express Lines Depends Greatly on Character of Highways.

The success of the motor truck express depends to a very large degree on the character of the roads over which the routes run. Bad roads increase the operating costs, and consequently the rates to patrons, beyond the point of economy. Trucks are destructive to roads unless the roads are permanently built. Therefore, the problem of improving and developing the marketing facilities for farmers through the establishment of rural motor express lines is directly connected with the problem of permanent improvement of the highways.

TRUCK IS OUITE EFFICIENT

Cost of Construction and Maintenan Is Lowered One-Half by Use of Equipment.

In the construction and maintenance of the earth roads in the rural sections, the most efficient equipment yet found consists of a road grader drawn by a five-ton truck. This equipment will do the common grading such as is usually done on this type of road for about one-half the cost of doing the same work with teams in the old

MANURE CARRIER IS USEFUL

Cost of Handling Fertilizer Is Materially Reduced-Hauled to Fields Immediately.

The cost of handling manure may he reduced by the use of a carrier and an overhead track. The usual plan is to throw the manure into the carrier; this requires but one handling. The carrier is then dumped into the spreader, which is hauled to the fields and unloaded by the horses. Manure is thus handled but once.

POOR HATCHES IN INCUBATOR

Carelessness in Manipulation of Machine is Sure to Bring Disastrous Results.

Many causes for poor hatches of chicks in incubators can be traced to the operators not educating themselves on what is necessary in the way of fertile eggs, saving eggs for incubation and taking care of them. Eggs for incubation should be kept in a well ventilated room with medium temperature. All eggs should be turned at least once every 24 hours, and no eggs should be over ten days or two weeks old at the outside.

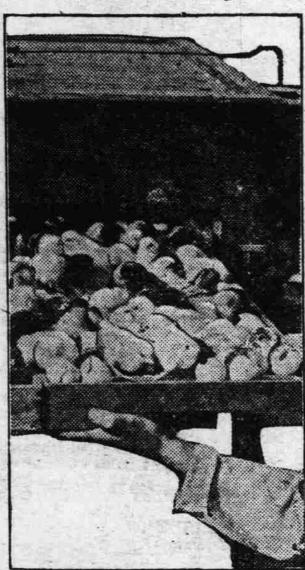
One should be careful to strictly follow the directions accompanying the incubator. The directions for one make of machine do not always do for that of another make, for the ventilation, regulation, etc., may be

The principal reason why young chicks die in the shell about the eighteenth day is a poorly ventilated

Other causes than poorly ventilated rooms are poorly ventilated incubators, and eggs are not properly fertilized. An-egg poorly fertilized will start to grow and die for lack of vitality. Opening up the incubator during the latter part of the hatch, or about the time the chicks begin to pip, lets out the moisture and dries the chicken up in the shell, or, in other words, stops the pores of the shell, and causes a great many to die. Under no condition should the incubator be opened after the eighteenth day until the chicks are entirely hatched.

As a rule, beginners with incubators do not read the book of directions properly. Many a person who has seen an incubator, and probably run a hatch of some other make thinks he knows all about it, does not read the directions and makes a flat failure every time. Sometimes no consideration is given to the ventilation of the room in which the machine is placed. Possibly there may be decayed vegetables therein, or the air is stale.

There are few failures nowadays by poorly regulated incubators, except in the cheaper line of machines where the temperature will change 10, 12



Splendid Hatch erom Incubator.

and 15 degrees. One point I have noticed here at home by having a green hand set an incubator, says a writer in an exchange. He reads the directions, maybe thinks he has learned them by heart, sets his regulator as soon as the thermometer gets to 103, turns the thumb screw where he supposes is right, and places the eggs in the machine.

Now, the thumb screw and regulator is a very tender affair, and one turn of the thumb screw will cause a change in the atmosphere inside the incubator of three to four degrees. It should be turned slightly, about one-fourth of the way round, so the temperature stands just at 103.

I never see to my machine more than twice a day, once in the morning and once in the evening. I see that the regulator is set properly and everything running nicely before putting BULL OF CHANGEABLE MOODS in the eggs, and then place the eggs in it and do not touch the regulator. At first it will lower the temperature a little when the eggs are put in, but if the regulator is properly set, the temperature will rise to the proper degree.

TREAT POULTRY FOR VERMIN

Bath of Road Dust, Tobacco and Sul phur is Excellent-Dipping is Also Favored.

One of the best methods to keep poultry free from lice is to provide a "dust bath." This may be made of a box large enough to accommodate several fowls at a time and partly filled with road dust, tobacco dust and sulphur, according to the following proportion: Road dust, six parts: tobac-

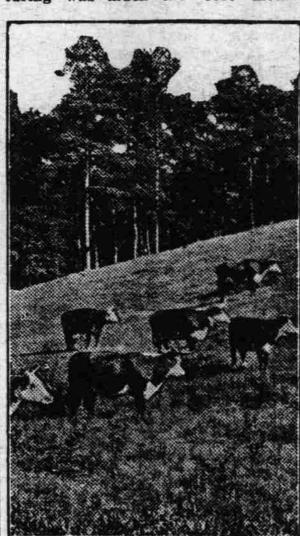
co, one part; sulphur, two handfuls. Dipping chickens in a two per cent solution of chlorine is also recommended for the control of lice.

MORE AND BETTER PASTURES

Problem in Coastal Plain Section of South Has Become Increasingly important.

(Prepared by the United States Department of Agriculture.)

The pasture problem in the coastal plain section of the South must be solved to bring about agricultural utilization of these lands. The problem has become increasingly important since the high prices of feeds are more and more forcing attention to the only cheap feed-pasturage. The bureau of plant industry has recently done a great deal of work along this line. The investigators have confirmed the bluegrass experiments, in which it was shown that heavy pasturing was much the best method



A Fine Southern Pasture.

both agronomically and economically. Unfortunately, say the specialists, facilities for experiments and demonstrations are wholly inadequate in attempting to work out a system of better handling of northern pastures. On the coastal plains of the South, unless the soils are much affected by drought, continue the experts, carpet grass supplemented with lespedeza makes excellent pasture. Golden crown grass is also excellent. Efforts are being made, with the aid of a new stripping machine, to place carpet grass seed on the market in adequate quantity. Several newly introduced grasses are promising as pasture possibilities.

SAFEGUARDING SHEEP FLOCK

Large Number of Animals Lost Each Year From Some Preventable Disorder.

Thousands upon thousands of sheep die each year from a great variety of preventable causes. The killer dog is not the chief cause of loss. He may cause perhaps 1 per cent of the deaths due to accidental causes, but the most serious losses are attributable to ignorance and carelessness upon the part of the owner or his shepherd. Among the chief causes of loss may be mentioned lack of shelter for lambing ewes and their newborn lambs. A sudden snow or rain storm coming at lambing time often finds ewes and lambs exposed, and many deaths re-

PASTURAGE CUTS FEED BILLS

Cost of Pork Production Can Be Reduced by Providing Suitable Pasture for Hogs.

Farmers can reduce the cost of pork production next year by providing a suitable pasture for their hogs, says W. H. Peters of the animal husbandry division, University farm. Most pasture grasses are rich in protein. The call for high grain rations is therefore less urgent a matter to be taken into consideration in these days of falling A great mistake is made by paying prices for hogs and pigs. Alfalfa and cealed weapon. too much attention to an incubator. brome grass are best for growing pigs, but no matter how good a pasture is some grain must be fed if the hogs are to thrive and make profitable gains.

Wise Plan to Play Safe at All Times by Keeping Animal Completely Under Control.

The bull is of very changeable moods, and one never can tell when that mood is going to change. The only wise plan is to take no chances with his moods-play safe at all times by keeping him wholly under control or where he cannot reach you.

PASTURE FOR GROWING PIGS

Clover, Rye, Rape, Sorghum or Any thing Green Is Good-Something Else Is Needed.

Plenty of good pasture is very im portant in growing pigs. Clover, grass rye, rape, sorghum-in fact almost anything green that pigs will eat is good for them while growing, but pasture alone will not make big-boned, stocky pigs.

HUGE HOUSING CORPORATION

Famous Boy Scout Founder, Traveler, Lecturer and Writer is Taking a Short Rest at Asheville.

Asheville, Hendersonville, seeking to overcome the already serious shortage of houses in that city, even this far in advance of the expected record breaking summer season, has organized a corporation of business men, 100 of whom will invest \$1,000 each in the erection of small cottages to be rented, and with the work on this plan about to be started, it is believed that Asheville's neighbor will have it all over the bigger city when the great rush starts here this summer.

Ernest Thompson Seton, one of the founders of the Boy Scout movement in America and noted traveler, lecturer and writer, is in Asheville for a short rest before continuing his lecture tour, which will take him over a greater part of the State. His lecture here was called off, owing to the ban on public meetings, due to the influenza epidemic.

The Asheville Citizen Company has closed a deal whereby they take over the Y. M. C. A. building for one hundred thousand dollars. The building will be used as a home for the news-

Gastonia,-Belmont's twelfth and the ninety-first cotton mill corporation for Gaston was announced.

The mill will be equipped with 10,-000 spindles and capitalized at \$500,-000 or \$600,000.

Williamston,-The Atlantic Hotel, at Williamston, closed several weeks ago by order of the State Board of Health for persistent violations of hotel ordinances has been allowed to re-open for buisness after a through overhauling and promises to conduct the place in full compliance with sanitary regulations.

Charlotte,-O. Max Gardner, Lieutenant-Governor, addressed the Kiwanis Club here paying special attention to the question of increased pay for teachers, which he endorsed. The ckrb adopted a resolution in favor of better pay for public school teachers in North Carolina.

Fayetteville,-Announcement was made that Camp Bragg is now under quarntine. The quantine order was issued on the recommendation of the camp surgen as a precautionary measure to guard against the appearance of influenza in the camp.

Goldsboro,-According to information reaching the office here of Assistant Supervisor D. M. Prince, of the Third District Census Bureau, J. T. Brown, one of the enumerators in this district, was shot and painfully wounded while engaged in this work in Onslow county.

Washington,- Two Congressmen and a number of drainage experts and civil engineers are on the program for the convention of the North Carolina Drainage Association, to be held here February 25th and 27th. Congressman John H. Small, of the first district, and S. M. Brinson of the third district, will speak.

Raleigh,-Judge Geo. P. Pell, of the State Corporation Commission, received notice of his appointment by President Walter A. Shaw, of the National Association of Railway and Public Utilities Commissioners, chairman of the committee on "Express and other Contract Carriers by Rail." This comittee will make an extended report to the National Association which meets in Washington next Oc-

Morganton,-Alfred Mull, appear ing in the Burke county court room at the preliminary hearing of the Mull-Lefever affray and killing, hobbled up the steps on crutches, presenting a battered appearance as charges were made against him. He was re-committed to jail without bail in three cases; one for the alleged murder of his nephew, Lenoir Mull, one for assault and another for carrying a con-

Women's College Publication. Greensboro .- "North Carolina Community Progress" is the title of a new publication, the initial number of

which has just been published by the extension division of the North Carolina College for Women, under the editorship of Prof. E. C. Linderman. As the title indicates, this publication is to be devoted to the many aspects of community progress within the state, and purposes to bring before the state community workers the best ideas and suggestions that come from various sources.

Sheriff Shot by Moonshiner.

Yadkinville,-Sheriff J. E. Zachary, of Yadkin county, was shot through the heart and killed at a blockade distillery, eight miles from Yadkinville, the county seat. Three men were at the plant and

all of them were arrested and brought to the Forsyth jail for safe keeping Rev. A. A. Caudle, a Baptist minister of Yadkin county, accompanied the sheriff to the moonshine plant and declares that Robah Baity, aged 23, is the party who did the shooting.

BOYS AND GIRLS' CALF CLUB

Question for Farm People and Extension Workers to Think About, Say Dairy Experts.

(Prepared by the United States Department of Agriculture.)

Why shouldn't a boys and girls' earlf club grow into a men and women's cow club? Or, more immediately speaking, a larger boys and girls' calf club-larger boys and girls, that is, not larger club. Or, getting nearer the meat-or the milk-of the thing, why shouldn't the club boy or girl who raises a calf milk that calf when she



Youngster Making a Good Start.

becomes a cow, watch her development keep a set of books on her production, and, in a small way, learn the essentials of dairy farming, taking the figures to school and getting them interpreted, and incidentally teaching

"the old man" a new trick or two? That is the question, in one form or another, asked by the experts of the dairy division. It is a question that farm people and agricultural extension workers might think about. There may be more to say on the subject after a while.

GENTLE TREATMENT OF COWS

Unique Blotters Distributed by the De partment of Agriculture Urging Kindness to Animals.

The following, printed on blotters was distributed by a dairying agent for the United States department of agriculture and the Utah Agricultural

Our Domestic Animals Have Acute Hearing. WHY YELL!

Show me a man who says "milking is a dirty job" and I will show you a man who will make a dirty job of milking.

> DAIRYMEN! SAFETY FIRST Cleanliness Is Safety.

Gentle treatment of our cows. horses, hogs and sheep will put money in our pockets and peace in our hearts.

MORE MILK AND BUTTERFA

Of Greater Importance Than Improve ment in Breed Type-Purebred Bulls Essential.

Far more important than the improvement in breed type due to the use of purebred bulls, is the increase in milk and butterfat production of the daughters of purebred bulls from high-producing families. It goes al- farm houses where attention had be most without saying that a purebred bull, when introduced into a herd of scrub cows, will produce daughters that produce more milk and butterfat than their mothers.

8.....

Winter cow comfort means more winter profits.

A-cow that ranks with the best of her breed is worth half a dozen average cows.

Good dairy cows are hard to find and high in price. The best way to get them is to raise them.

There may be some roughage the cows like better than silage, but the should be given an opportunity average dairyman hasn't discovered it.

. . . It is becoming more evident daily that a herd of cows on the farm offers it is giving the public an opportunity the owner an opportunity to increase to participate in the fruits of the his profits, and at the same time maintain the fertility of his soil.

LAYING OUT SCHOOL GROW

Room Not Necessary for Playings Should Be Devoted to Flower and Shrubs,

M. F. Ahearn, professor of land gardening at the Kansas State An tural college, tells some inter points to be kept in mind in plan the country school yard.

. "There should be sufficient room a baseball diamond, a basketball a volleyball court and a tennis w Professor Ahearn says. "In stances the playground appr should be provided first. In rural districts there will necess be only a few pupils and there will be a call for so large a player area as where the enrollment is is Perhaps the basketball court and baseball diamond will be sufficient the needs of the ordinary con school.

"Evergreens are best for windle Elm and hackberry are best for the When the grounds are large enors small grove of trees will be an asset to the utility and beauty of school.

"In all instances only hardy b and shrubs should be planted, ben they have to stand the attacks of s boys and the trying conditions of mer when they are usually nerles The country school without tress shrubbery is like a picture with frame."

KEEP THE PAINTBRUSH BU

Real Economy, and Adds Enorma of Service.

Painting adds greatly both to appearance and service of all building and appliances. One may buy to mixed paints, or may purchase pigments and oil and mix them. surfaces should be clean and dry fore they are painted. Use a printed. coat made of equal parts of paint linseed oil and cover with one or m coats of paint, which should be a oughly brushed into the surface.

Whitewash is the cheapest of paints and may be used either for terior or interior surfaces. It can made by slaking about ten pounds quicklime in a pail with two gall of water, covering the pail with di or burlap and allowing it to slake for one hour. Water is then added bring the whitewash to a consiste which may be applied readily. weatherproof whitewash for exten surfaces may be made as follo (1) Slake one bushel of quickline 12 gallons of hot water, (2) dissolution pounds of common salt and 1 pound sulphate of zinc in 2 gallons of bi water; pour (2) into (1), then aff gallons of skim milk and mix oughly. Whitewash is spread list over the surface with a broad M

Fruit Trees on City Lots

The planting of dwarf fruit including a species of pear tree The may be trained fan-shape on a tra and a peach tree which will bear in next year in the demonstration dens in many states, ought to awai householders generally where dell ed dwellings are the rule to the portance of making their yards ! ductive. Fruit trees will thrive in good soil. They do not require as attention beyond pruning and spin ing. In France fruit trees have a growing along the highways for a turies. They serve the double purp of shade and profit. Charles Latin Pack, president of the American estry association, says that il dwellers were to give as much and tion to the planting of fruit trees some of them have given to back! vegetable gardens they would soon producing a large amount of fruit

Beautify the Home. There are so many native shi

o. b. the kitchen."

vines and flowers to be planted and the farm homes that their absence deplorable fact. In a recent drie a thousand miles we saw paid to beautify them, Natural they were noticed. Don't dot lawn with fantastic flower beds of nual flowers. Put hardy shrubs are the foundations, the taller gowing behind. Then in front of these P the perennial flowers such as iris, cus, narcissus, peony, sweet Wil phlox, etc. Keep the lawn open few ivy or wild grape vines make hideous outhouse less noticed Shrubs can be transplanted in will Get as much soil with them as por ble, and tamp the roots firmly in plan -Farm Life.

General Interest in City Building It is interesting to note that in past year the public, more than era before, has participated in the final ing of the nation's operations. We st coming to a thorough realization of fact that the general investing pull share in these operations. This opening up for the benefit of the real market a vast reservoir of capital. eral development of our America cities,-Boston Herald,