

Department of Commerce and Labor ing facilities are constantly employed orchard with neither sheep or hogs reof a meat famine in the Faderland. The scarcity of cattle in Germany is probably due primarily to the strict laws of that country forbidding impor-tation of live stock from countries in it is fit to kill. After animals are put ples and it was shown that while 8,430 which certain animal diseases are to death those whose flesh is consid- bushels of sprayed apples brought an known to exist. The elaborate and ered absolutely dangerous are de average of \$2.02 per bushel, 6.365 bush complicated system of inspections and stroyed. Owing to the prevalence of els of unsprayed apples brought but prohibitions imposed upon the impor- poverty the German authorities are un- \$1.80 per bushel. tation of meats and domestic animals willing to waste anything that can be The effect of distance between trees by the new meat inspection law of saved. Animals killed are divided into planted before 1880 was studied in its Germany, which went into effect a few four clmonths ago, had the effect of increas- of meat which is thoroughly sound; an average of four years it was found ing the mutton supply. Texas fever which existed among the ease which does not taint the bulk of per acre, and trees 36 by 36 to 40 by 40 cattle coming from the southern and the meat. The affected parts only are feet apart yield 229 bushels per acre a stock from this country are excluded; similarly because cases of foot and exceeding six pounds. The third class very important factor the best site is mouth disease were known to exist in is that which is of a quality so dis-Russia, Denmark and Sweden, cattle eased that it cannot be safely sold in from those countries are likewise denied admission.

lishment clean and odorless.

prices of pork, beef, veal and this is allowed to go to general mar- that trees planted 30 by 30 feet apart by diminishing the available kets. The second class consists of yield 186 bushels per acre; trees 31 by On account of a few cases of animals having some small local dis-31, to 35 by 35 feet apart, 222 bushels. a raw state. However, it may be eaten without detrimental results if thor.

Soon after the new inspection law oughly sterilized. It is accordingly subwas put into effect the imports of live jected to a temperature of from 220 to stock and meat supplies greatly de-creased until the situation in Germany sold to the poor, like the rest. The was extremely grave. Prices asked for fourth class animals are those which dressed meat went ouite beyond the are so diseased as to merit total dereach of many working people in the struction. While it may appear loath-

Scene in American Slaughter House. How they do it in Germany.

While it was report, some to American people to have

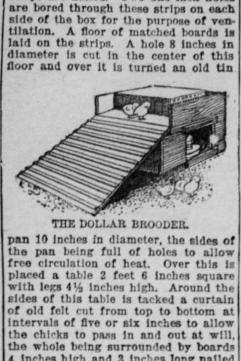
strips are nailed. Two one inch holes has received reports from its various and these in conjunction with power- sulted in better yields than those not tilation. A floor of matched boards is consuls in Germany giving accounts ful ventilating fans keep the estab pastured. The fertilized orchards laid on the strips. A hole 8 inches in yield an average increase of 55 bushels per acre over those to which no Every animal that enters the Berlin fertilizer had been applied. Data was

The first class consists relation to yield. Taking figures from Western part of the United States, live destroyed and the rest is sold directly year. Observations in the counties free circulation of heat. Over this is to poor consumers in quantities not showed that while the site is not a doubtless one that is sufficiently elevated to give good opportunity for air and for water drainage and not so high as to be especially exposed to the wind,

This survey of the New York section covering, as it does, the actual practices of farmers in two of the most important fruit-growing counties of New York, and giving the actual results in yields and income by different methods of treatment in hundreds of orchards, is on a sufficiently large scale to make the results obtained of more than usual value and interest. It is exceedingly gratifying to find that the 287, which can be had upon application cultural methods long recommended to members of Congress or to the Secby experiment stations as a result of retary of Agriculture. trials on a small scale hold true when applied to orcharding on a commercial scale.

## Up-to-Date Weather Reports.

The latest work upon which the United States Weather Bureau has entered is a system of meteorological observations from vessels at sea by wireless telegraphy and the simultaneous issuance of weather forecasts and storm warnings to those vessels. The Weather Bureau has prepared a special code by means of which exact information as to date and hour, latitude and longitude of the vessel, atmospheric farm stuff for the article desired. pressure, temperature, force and direction of the wind, and the character of the sky are all compressed into four words. As soon as any coast wireless words. As soon as any coast wireless "Now, Abagail." he salo, "what's telegraph station receives such disther use of gettin' so 'stravagant? patch from vessels, the message is to Winter's coming on, an' that's that be delivered at once to the Weather fodder cutter ter buy; can't yer get Bureau at Washington. Should the along somehow with less?" contents of this message be of such contents of this message be of such The argument ended by a reduction mportance as to demand special storm to a single needle. Squire Meadows warnings, notices will be prepared and took a fresh laid egg down to the coundispatched by wireless telegraphy to all vessels in the vicinity affected. The value of such a service might be cited when the experience of the steamship Campania is remembered. On October 11 last, this liner was caught in a hur-11 last, this liner was caught in a hur- dition to being a grocery, dry goods ricane. The storm was found to have establishment and post office, Was had no great area and it is stated by also one where liquid refreshments the Weather Bureau that had the sys-tem proposed been in use at that time, known as a man of great cordiality warning of its existence might have to his customers, often inviting them enabled the Campania and other ves- to a "treat on him." sels to avoid its center of activity. An-other feature of great value in this looked around at the array of bolies



A Brooder for a Dollar.

The Department of Agriculture has

recently published a method of constructing a chicken brooder, the total cost of which might come well within \$1.00. Such a brooder has been given

careful trial by the Connecticut experiment station, and has given excellent

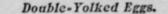
results when used in a shed or colony house. The lower section of the brood-

er which contains the lamp for heating is a box 3 ft. square made of 10 inch

boards and covered with tin or galvanized iron. About this cover, around

the edges of the lamp box, one inch

4 inches high and 3 inches long nailed together at the corners and resting on the floor of the brooder. When the chicks are ten days old one of these boards may be taken away and the bridge used so that the chicks may run from the hover to the floor of the room. The description of the brooder can be found in Farmers' Bulletin No.



Squire Meadows, who lived down at Four Corners, was classed as a "mean old son-of-a-gun." He didn't mind buying new farm implements every year and allowing them to rust and ruin out in the winter rains and snows, but he would not buy his wife a sewing machine or a dish-washing machine to lessen the labers of house work. She was never allowed spending money, and whenever anything ncessary was wanted for the house the Squire always went himself to the village store and made a trade of some

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# HOW TO MAKE SCHOOL GARDENS. By H. D. Hemenway.

This suggestive little book is a practical manual of school gardening for both teacher and pupil, and supplies the first adequate work of the sort in this country. This volume is based on actual experience (the author is an authority and director of the Hartford School of Horticulture).

situation and charging double prices, in reality in serious difficulties, for inmaking less money than before the eased meat, thinking it is first rate. law went into effect. A number of them announced to the municipal authorities their intention to relinquish their business. Mass meetings have been held by citizens and meat dealers with an endeavor to induce the authorities to make the meat inspection laws less stringent, but so far without result

The model abattoir and cattle markets of Europe at the present time are to be found in Germany. There are extensive and well equipped establish-ments in several large cities, but those which are the newest with the latest improvements and regarded as the best of all are at the old university town of Halle and at Mannheim on the Akine. These are almost duplicate plants.

As early as 1878 there were city abattoirs at Mannheim, one for Jews and one for Christians. In 1890 it was decided to construct a single new abattoir in connection with the new market. This was completed in May, 1900. This latter abattoir is a model of perfection, ample provision being made for receiving animals and shipping dressed carcasses. The visitor does not receive suggestions of slaughtering through any appearance of blood on surrounding walls, nor does he smell it in the air, as in many of the American slaughter houses. Buildings are of brick, stone, iron and glass, of good appearance, substantially and admirably adapted to their respective All are supplied with hot purposes. and cold water, live steam, electric lights and either steam or electric of mechanical labor-saving appliances. The hoisting apparatus is handled so that manual lifting is almost wholly avoided, and by suspended tramways. carcasses and other heavy parts may be moved in all directions in the killing halls. Artificial ventilation is also previded so that every apartment may be supplied with currents of fresh air. dry, and either cold or warm as de-The rooms for slaughter are

mal and a regular corps of licensed pect, soll, management, distance bement

ed that the butchers and meat mer- housewife buy meat from diseased anchants were taking advantage of the imals, yet under such a system as is adopted in Germany, when one goes to investigation showed that they were the market house to buy a piece of in reality in serious difficulties, for in- sound meat he is assured of getting it. stead of increased profits they were He at least does not buy bad or dis-

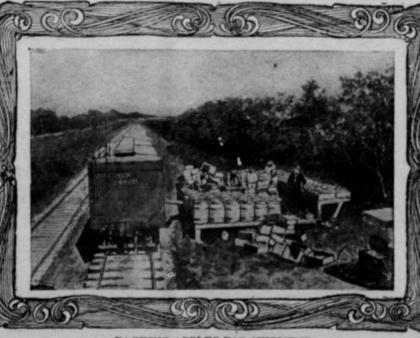
Apple Growing.

The Department of Agriculture of ten receives communications from farmers who are maintaining that the practical agriculturist does not have much faith in experiments conducted at experiment stations, as they are on such a small scale that great weight cannot be attached to the re-The statement is made that sults. were these experiments made on a large scale or under conditions such as confront the farmer himself, they might prove more valuable. Taking this standpoint as a rule to follow the New York experiment station through the Department of Agriculture has re-C ported the results of an examination of 1,138 apple orchards covering 8, 642 acres in Wayne and Orleans counties, New York. Both of these counties are extensive apple growing regions. In one township every or



#### A PROFITABLE APPLE TREE.

large, light and airy. Instead of little pens as is the usual case in France, chard as large as an acre in extent the arrangements at Mannheim are for was visited. Observations were made a separate hall for every kind of ani- on such factors as location, site, asbutchers is employed by the establish tween trees, pruning, present condition of the orchard, orchard troubles, etc. Butchering is, comparatively speak. The agent of the New York station Butchering is, comparatively speak. The agent of the row for statistic found that for orchards tilled five found that for orchards tilled five years or more there was an increased yield of about 80 per cent. over or the smaller ones are stunned by a chards which had been five years or more in sod. This greater yield in the



PACKING APPLES FOR SHIPMENT.

proposed system is that the Weather, on the shelf, and, smacking his lips, Bureau will thus be enabled to send to said:

trans-Atlantic liners and other vessels, information as to the limit of fog and ice on the Grand Banks so that by slightly altering their course they may water?" steer clear of these dangers.

SECRETARY SHAW WAS LATE.

He Narrowly Escaped "Call Down" by Vigilant Watchman.

Secretary of the Treasury Shaw was three minutes late in reaching the Treas- was prepared to pour in the liquor, ury Department the other morning and narrowly escaped being held up by the vigilant watchman at the door. It was more and when Meadows yelled out: "Say, look yere, Perkins, egg I brung yer is a dou It was raining when he arrived, and he hurried through one of the seldom needle?"

It is one of the regulations of his de partment that all employes arriving late shall register the time of their arrival at a desk near the entrance.

Mr. Shaw did not consider himself amenable to this regulation and hurried to the elevator to go to his office, on the second floor. The watchman noticed his not absolute disruption, in an everyday apparent carelessness in not registering, American family. Her majesty the

"Why, say, look yere Perkins, they say yer treat yer customers pretty well at times ter somethin' stronger'n "Sure," responded the storekeeper,

"What'll yer hev?" "Oh, I guess mine'll be sherry'n

HET CT. Perkins went over to the shelf, brought out the egg just traded in by the Squire, broke it into the glass and

"Say, look yere, Perkins, Chat thar egg I. brung yer is a double yelker;

#### The Future Mikado?

They can do things in Japan we could never even dream of doing. The imperial family of Japan dwells to-gether in harmony under circumstances that would cause domestic discord, if apparent carelessness in not registering. American family. Her majesty the and, not recognizing him, hurried after the Secretary to remind him of his neg-her filustrious spouse, the Mikado, and her illustrious spouse, the Mikado, and though she is the only wife he has ever complished by a different method and according to the rites prescribed by that religion. Inspectors are present to supervise the slaughter and every quarter passed and approved for mar-ket is properly branded. The system of general drainage, sub-terranean conduits and service tram-

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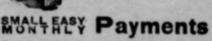
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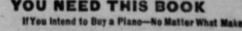
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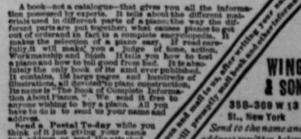
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