

Diagrams Showing the Wall Construction and Slat Floor Used in the Building Shown in Fig. 1.

(Prepared by the United States Depart- | plans have been followed, but the one

ment of Agriculture.) In order that fruits may be held for long periods in storage it is necessary the ice and the certainty of the fruit that a uniform low temperature be harvest. maintained in the storeroom. With many products a uniform temperature the construction of such a house hold is of more importance than a low for both plans. Where the structure temperature. With apples, which is is for combined ice and fruit storage the crop usually held in storage, it is the ice chamber will of necessity be desirable that the fruit reach an ad- much larger than when ice is used vanced state of maturity upon the merely to lower the temperature of tree, but that the ripening process be the house at harvest time. The details checked immediately when the fruit is of construction shown in Fig. 1 may placed in storage. This sudden check be so modified as to adapt the buildcannot be effected in ordinary storage | ing for either use.

at picking time. It is therefore necesair from the outside.

to be used in any particular instance will depend upon the cost of handling

The general principles involved in

If the object is especially that of sary that the storage house be pro-tiruit storage, the ice chamber may be vided with means for reducing the to reduced as to serve merely as a temperature to the required point and banker in which to place several tons holding it there until natural conditions permit the introduction of cold needed. The detail of Fig. 2 shows a slat floor built of 2x4 inch Georgia



Worst Past of Small Bush Fruits-Its Attack Causes Berries to Turn Red and Frop to Ground.

By C. P. GILLETTE, Colorado Experiment Station.)

Perhaps the worst pest to the currant and gooseberry is the maggot that gets into the fruit before the berries are ripe, causing them to turn red and drop. The adult insect is a fly about the size of an ordinary house fly, but a light yellowish brown in color with dusky bands crossing its wings. This fly deposits its eggs, one in a place, just beneath the skin of the currant and gooseberries, which upon hatching develop into the maggot. The fruit drops to the ground and the maggot escapes and burrows a little beneath the surface of the soil and remains until the next spring. We do not know any remedy aside from that of allowing chickens to run



Harvesting the Currants.

among the currant and gooseberry bushes after the fruit is off, for the purpose of picking up these maggots in the older stages of their development. Spading the soll around the bushes so that the surface soil will Several systems have been used for pine supported on 2x12 inch or 3x12 be covered with four or five inches of accomplishing this result. The sim- inch joists, as needs may require. The fresh dirt will also destroy a great many of the insects. Whatever can be done toward gathering the infested fruit and destroying it will also lessen the number of flies to destroy berries the following spring.



Sand-Clay Mixture With an Insufficient Amount of Sand, the Grains Not Being In Contact.

the proper locating, grading and drainage of the sub-base, which are essenthat to any good road.

This sub-base can be used as an earth road during the years when traffic is light and can be kept in serviceable condition by dragging after spring and fall rains at a cost of \$30 a year a mile.

The second step is to make a gravel road, when travel increases or funds become available, by applying several inches of sharp, clean gravel after dragging and rolling the earth road. This can be done in most places for a few hundred dollars a mile, and maintenance will cost about one hundred dollars a mile.

When the gravel road is outgrown, it forms an excellent foundation for a concrete surface. It is only necessary to loosen the gravel and roll it to uniform compactness, then lay a course of hydraulic concrete to carry heavy traffic. The surface construction costs approximately \$1.50 a square yard. Maintenance should not average more than \$50 a mile.

The final step in progressive road building, when heavy teaming and trucking predominate, 4s to lay a course of vitrified brick or granite sets grouted with cement on a sand cushion on top of the concrete. Or,

His Only Possession.

Al Rogers was traveling through a lonely section in the suburbs of Boston one night, a short while ago, when he was startled by hearing this piteous appeal:

Will the kind gentleman please help a poor unfortunate man? I-At this point Al felt to locate his

watch. The other continued: "I have nothin' in the world but this loaded revelver."

Seeking Worthy Objects. "Dodsworth tells me that he is a

practical philanthropist." "That's just what he is. Before offering a dime to a beggar Dodsworth asks him so many disagreeable questions that the poor devil is glad to eacape without the dime."

The more a man knows the less he thinks he knows.



pound-red-can

25c

Yes, waiting for every farmer or farmer's son - any industrious American who is anxious to establish for himself a happy home and prosperity. Canada's hearty invitation this year is more attractive than ever. Wheat is higher but her farm land just as cheap and in the provinces of Manitoba, Saskatchewan and Alberta

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160 Acre Homesteads are Actually Free to Settlers and Other Land at From \$15 to \$20 per Acre

people of European countries as well as the American continent The must be fed-thus an even greater demand for Canadian Wheat will keep up the price. Any farmer who can buy land at \$15.00 to \$30.00 per acre--get a dollar for wheat and raise 20 to 45 bushels to the acre is bound to make money-that's what you can expect in Western Canada. Wonderful yields also of Oats, Barley and Flax. Mixed Farming is fully as profitable an industry as grain raising. The excellent grasses, full of nutrition, are the only food required either for beef or dairy purposes. Good schools,

Military service is not compulsory in Canada but there is an unusual demand for firm labor to replace the many young men who have volunteered for service in the war. Write for literature and particulars as to reduced railway rates to Superintendent Immigration. Ottawa, Canada; or to

W. V. Bennett, 220 17th St., Room 4, Bee Building, Omaha, Nebr.

Canadian Goverment Agent.

MODERN LIVING COMES HIGH

Observer Thinks There Are Too Many "Necessities" in Demand at the Present Time.

"One of the reasons for the cost of living," observes a wise clubman, 'lies in the fact that people buy wholly unnecessary things. I had a conversation with the proprietor of a novelty shop in Fifth avenue a few days ago. A shiny object had attracted my attention, and I required about its use.

"'Those,' said the proprietor, 'are gilded pincers to pick up letters one has placed on the letter-scales."

'And that fvory stick, carved and forked at the end?"

"'People use that to fish out things they have dropped into carafes."

"That square of morocco, about the size of a nut-what is that for?" "'That's a tampon-used to press down stamps after sticking them on Travesty on Real Faistaff.

Yarmouth has a claim upon all Englishmen quite independently of its associations with the breakfast bloater, remarks a writer in St. Nicholas. For it was the home of Shakespeare's Falstaff, who appears to have been a man of exemplary plety. The Falstaffs

were an old Yarmouth family. "A Falstolfe or Falstaff," writes John Richard Green, "was bailiff of Yarmouth in 1281. Another is among the first of its representatives in parliament, and from that the members of that family filled the highest municipal offices. John Falstolfe, a man of considerable account in the town, purchased lands at the close of the fourteenth century in Calstor, and became the father of Sir John Falstolfe, who, after a distinguished military career, was luckless enough to give his name to Shakespeare's famous character. In Yarmouth, however, he was better known as a benefactor to the great church of St. Nicholas.

story structure and to store the ice vanized metal 15 inches wide tacked above and the fruft below. The ice to and formed over the top of the may be stored at harvest time in an joists prior to laying the slat floor, so ice house or in an ice chamber ar- that the drip from each metal cap ranged over the room in which the may be caught by the line of gutter fruit is to be held, or the place may (Fig. 2, A) which is suspended bebe simply a temporary storeroom, to tween the joists. This is one of the which the ice is transferred at the simplest types of floor construction time the first fruit is stored. Both these possible for this style of structure.

HAVE HOUSES WARM

AND COMFORTABLE

plest is to build the ice house as a two- joists are protected by a cap of gal-

CARING FOR CALVES **DURING THE WINTER**

When the calf is taken away from

At night see that the pen is clean

Wrapping Apples.

fore storing they keep better if

wrapped with oiled paper and put into

If put in storage when warm, tight

boxes and wrapping make matters

worse. Olled paper is better than

newspaper, because if one apple rots it

is less apt to injure others if wrapped

Profit in Feathers.

to feathers, even on the farms where

many fowls are dressed for the mark-

into a profitable side line.

So little attention is usually paid

tight boxes or barrels.

with such paper.

If apples are thoroughly cooled be-

Close All Cracks to Prevent Modern Plan Which Makes Good Drafts Striking Birds While Cows Later-Give Youngon Roosts-Cull Drones. sters Plenty of Bedding.

Make your poultry houses warm and comfortable for the winter, overhaul the cow, it should be turned into a them, see that no cracks are there to roomy pen which is light and as sunallow cold drafts to strike on the ny as possible, and contains enough in birds or the roosts, be sure that your the way of straw or hay to keep the roofs and north, east and west sides animal busy. By all means must this are perfectly tight, but allow for pen be clean, and kept clean. Whatever the plan of feeding when the calf plenty of fresh air to come in the south side, which ought to be the gets to the grain stage, only what it farthest away from the roosting secwill eat up clean should be given; tion; this will insure a dry house. never have any grain, and especially Houses may be warm and comfortable wet feed, left in the box, for it is likeand yet well ventilated; a stuffy, illly to take away the animal's appetite ventilated house that smells when you for the next meal. open the door in the morning is not a healthy place for your birds; when and the floor dry, and give the calves this is the case give more ventilation plenty of bedding, being liberal with it without drafts. Use plenty of charif the night promises to be cold. Durcoal. Supply a good dust bath; coal ing the pleasant days let the calves inashes or road dust is suitable for to the yard for a run, but do not keep this purpose. Clean out droppings them there until they become chilled. often, every day if possible. Weed Handle them every day, but do not out the undesirables, cockerels, pulplay with them or tease them, if you expect to raise them as additions to lets and old hens that you do not the herd. A pet calf makes an unruly need to produce the best results. Only keep the useful birds, giving cow, nine times out of ten. Treat them all the room possible. Winter them kindly and so they will get used eggs bring high prices and you only to you, but let your affection stop can get best results by keeping the there. most promising layers. If you want eggs you must feed for them. Supply a good litter and plenty of it.

Pasteurized Milk Safe.

Heating milk or its by-products to 150 degrees and holding it at this temperature for a certain length of time, kills the germs of tuberculosis and other diseases that might be present. This process is called pasteurization It is the most readily available way of rendering safe milk that is not known to be clean or is perhaps known not to be a high-class_product. It makes no pretense of removing filth from milk, but it renders innocnous and harmless the impurities and disease et; and yet they can be worked up germs contained in it.

PLANTING THE WALNUT TREE

Prepare Soil Carefully and Plant Nuts Three Feet Apart in Furrows-Carefully Conserve Moisture.

Black walnut seeds are to be gathered in the fall, and the nuts carefully stratified The nuts are not to be hulled even when the seed is planted, as the hull interferes in no way with the germination, and it may prevent the nut from drying out. Gather the nuts, and alternate a

layer of them with a layer of sand and leaves. Moisten the pile, and allow it to freeze. Let it remain moist and frozen all of the winter.

Plant the seed next spring as soon as the ground is in a workable condition. Black walnut trees will not make a good growth unless the ground is rich, and they ought not to be planted on any other kind. Prepare the land carefully and plant the nuts three feet apart in furrows ten feet apart. Plant the nuts four inches leep. As the black walnut is very sensitive to dry, parched conditions, it is necessary to give the trees good cultivation, and carefully conserve the moisture.

SAYINGS OF PROF. HEDRICK

Careful Account Kept of Cost of Growing Apples and of Profits Under Intelligent Management.

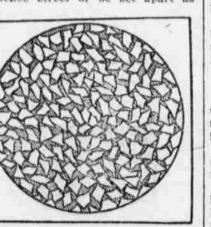
Professor Hedrick of the New York

state experiment station at Geneva has kept careful account of the cost of growing apples, and of the profits under intelligent management. The net income from the orchard averaged during the ten year test period \$93.74 an acre, equal to 18% per cent on a \$500 investment. He expects the orchard to do as well or better during the next twenty years.

The question of tillage versus sod mulch in orchards has been often and heatedly discussed. Professor Hedrick states that for every dollar he has taken out of the sod half of the test orchard he has taken \$1.54 out of the tilled half.

Apples are found more highly colred on sod than on tilled frees. They are also earlier and drier. The tilled juit is about two weeks later, keeps tter and is of higher quality. The Il'd trees now are much better in oeral appearance.

if part of the road should become a residence street or be set apart as



Clay Mixed With Sand to the Point of Saturation, With the Angular Sand Grains in Contact.

a boulevard, a quiet pavement of wood blocks, sheet asphalt or asphalt blocks can be laid on the concrete. This is the most practical and economical plan, providing for varying volumes and kinds of traffic over a century or more of use and involving loss of investment in pavements that are excessively costly to maintain and which are not essential as a foundation in the final type of highway.

Gravel Improves Roads.

Where gravel is abundant roads may be greatly improved by spreading a layer of the same on a bentral space in the read. This space should be not loss than say twelve feet wide. If the gravel is suitable, two to three inches of it will tend to firm the roadhed. Of course the ideal way where the materials are suitable and the expense can be borne is to remove the earth from this central portion and nearly fill the depression with small stones. Then cover with two or three inches of earth and over this spread the gravel. A good road is thus made and one that lasts, but this can only be done where such material in plentl-

Keep Water From Road.

ful.

Where a road runs along a hill, the water must be kept from running upon the road. The side ditch must be ample and, if necessary, a string of the put three feet or more below the battom of the ditch on the up-hill side. which will prevent scepage from be-

Instruction for Road Boss.

Every road boss should attend roadmaking school and read all he can about nighway construction and man-(epanea

envelopes.

" 'That ornamental box with a whole battery of little brushes?"

"Those are to clean other brushes; brushes to clean hair-brushes, brushes to clean tooth-brushes." -- New York Evening Post.

Why Thomas Concurred.

Whack, whack, whack! Tommy was undergoing a painful punishment at the hands of his loving mother for eating the jam.

"Tommy," she said seriously, when she was forced to pause, "this hurts me far more than it does you."

And when Tommy was alone with his brother he produced a square board he had concealed, and thoughtfully murmured:

"I thought all along that bit of wood wouldn't do her any good!"

Important to Mothers Examine carefully every bottle of CASTORIA, a safe and sure remedy for infants and children, and see that it



Inconsistent. "The English are queer people." "You think so?"

"Yes. In time of peace they treated Tommy Atkins with contempt and made him sore, and now in time of war they treat him with so much good Hquor that they make him drunk."

Cause Removed.

"Did you notice how few Sunday school pienics there were this seagon?

"I did in a way." "How in a way?"

"I did remark how little rain we had.'

The View.

"There is a story in that face!" "You must be seeing it out of the tale of your eye."

Beantiful, clear white clothes delights the hundress who uses Red Cross Ball Blue. All grocers. Adv.

Many a man who boasts of his blue blood has a streak of yellow.

Sometimes it is also a good rule that won't work both ways.



At the First Signs

Of falling hair get Cuticura. It works wonders. Touch spots of dandruff and itching with Cuticura Ointment, and follow next morning with a hot shampoo of Cuticura Soap. This at once arrests falling hair and promotes hair growth. For free sample each with 32-p. Skin Book, address post card: Cuticura, Dept. X, Boston. Sold everywhere.--Adv.

A Woman's Way.

"Your doom is sealed," cried the villain.

"Ha!" laughed the heroine defiantly. "I guess I can steam it open."

The Test.

"Is he a good lawyer?" "I should by he is. He's acquitted some of our most notorious criminals."

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You never believe a man when he flatters you, but you like to hear it just the same.

Don't Persecute Your Bowels

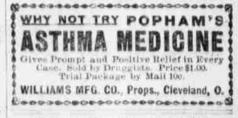
Cut out cathantics and purgatives. They are CARTER'S LITTLE



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