## BUILD ON PAPER FIRST

## In Planning Farm Buildings a Pencil, Rule and Piece of Paper Are the Tools to Use.

BY D. G. CARTER.

The best suggestion ever made to different conditions of location, size assist farmers in getting better build of herds, crops raised, and the like. ings, is the advice, "Build the barn on How shall we then, with the large paper first." This suggestion applies number of points to be considered, not only to barns, but to every build- secure the best and most convenient ing on the farm. The farm buildings buildings? First, plan on paper benot only afford a home for the farmer fore the building is put up; second, and his family, but they make up the use the combined experience of those factory in which the farm products who have already built, and, third, are finished.

out a product in quantity, economic- well standardized. factory buildings that are well ar- very difficult. A farmer, carpenter, ranged, clean, light, substantial, and or school boy, provided with a table, suited to the purpose intended. So pencil, and a rule, or a set of drawing many farmers know that their barns, instruments, can accomplish much in storage buildings, hog houses, and planning. Incidentally, he can learn feeding sheds must have certain feat- a lot about construction. ures to make them satisfactory. Farm buildings, especially barns, are factorThe experience of others can be ies where human food is produced. found in books on buildings, in maga-Faulty buildings can never produce zines and farm papers and, perhaps the highest quality of products. Farm best of all, at your provincial agrioperators spend several hours of every cultural college. Almost every agriday in the buildings. Poor arrange cultural college has made a large numment means lost motion, extra labor, ber of building plans available. Their and wasted time. Valuable live stock plan service is either given free of at and feed crops are housed and shelter a nominal cost. ed in the farm buildings; this means Even though most plans have to be that they must be clean, healthful, specialized to a certain extent, there

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#### MANY PROBLEMS.

Indeed, it would be difcult in so in the plan. For example, we know short a space of time, even to make a that there are just about three types list of all the necessary features that of roof construction used on modern should be considered. There is the barns; they are the plank truss, braced problem of materials, whether of wood, rafter, and Gothic arch. The hay loft stone, brick, tile, or concrete. Then in the barn can be built free of posts there is fire protection to reduce the and obstructing braces. We know that many millions of yearly loss. Or there most barns should be thirty-four or of navy, trimmed with polks-dotted is rat-proofing, for the federal gov- thirty-six feet wide; windows must be silk. The cape is separate, but so flaternment tells us that every rat eats included in every live stock building, tering you will never want to take it the Israelites there (Exod. 1:12), it change is not the wrong word to use country, for one-sided friendship is every year. There is the question of for each cow or horse. Cows, horses, to be tied at the neck, or the ends father of Moses can have been Levi's how large to build. This answer de- and hogs of average size require a crossed, one at the back and one at the grandson, and his mother Levi's farm, financial conditions, and per- The information available from sonal desire. There are major prob- architects, engineers, colleges, or lems. There is a whole flock of build- farm publications, plus your own good ing problems related to light; ventila- judgment, should produce the best postion; sizes of pens, stalls, and alleys; sible plan for you. At best, these arrangement of the stock, and proper use of space. Complicating these dides: "Plan the building on paper questions, is the fact that economy first." The well-planned building is must always be considered if a profit noticeable wherever it is, but aside the sest postand a wide belt is crushed into a big spect. A goodly child, v. 2. So, in the spect of Stephen, Acts 7:20, he is described as "exceeding fair." "It was by faith," says the writer of the post of the spect of Stephen, Acts 7:20, he is described as "exceeding fair." "It was by faith," says the writer of the post of the spect of Stephen, Acts 7:20, he is described as "exceeding fair." "It was by faith," says the writer of the post of the spect of Stephen, Acts 7:20, he is described as "exceeding fair." "It was by faith," says the writer of the post of the spect of Stephen, Acts 7:20, he is described as "exceeding fair." "It was by faith," says the writer of the post of the spect of Stephen, Acts 7:20, he is described as "exceeding fair." "It was by faith," says the writer of the post of the spect of Stephen, Acts 7:20, he is described as "exceeding fair." "It was by faith," says the writer of the post of the spect of Stephen, Acts 7:20, he is described as "exceeding fair." "It was by faith," says the writer of the plain mater as he spoke them, and hoped the next and his plaguey fortune, as he termed must always be considered if a profit noticeable wherever it is, but aside ial and 1% yards 54-inch figured. was hidden for three months after minute his mother did not hear; but it. Finally he started up. is to be made on the investment. Every from its attractiveness, it will stand Price 20 cents. barn or other farm building is a spe- for years as a tribute to the good ctal problem, for each one of you have judgment of its owner.

### The Care of Growing Pullets.

Good parent stock, good shady A poultry vegetable garden is necesrange, a well balanced ration and com- sary on every poultry farm to insure development of pullets for early win- is especially necessary where the hens ter egg production. Without a free are kept more or less confined or in range they will not be properly matur- restricted bare yards, and in the case copy. ed before weather conditions make it of the growing range which dries up necessary to put them into winter in the hot months. Likewise the garquarters. Dry, well-drained land with den should provide an abundance of plenty of shade and growing green greens for the pullets and hens in the feed are essential.

ground oats, and beef scrap should be for both the adult stock as well as the kept before the pullets constantly in growing chicks on range. This halfself-feeding hoppers. In addition a acre area should be planted as follows: Taking Self Out of Selfishness. sacred waters of the river like waters chopped green feed, such as mangel in late cabbage. If the sabbage plants always available.

The pullets should not be kept in Dwarf Essex rape. the same quarters as hens. A portable All these plantings, including kale well ventilated with pienty of space, hand labor to a minimum. The kale program if we are trained for such a change into the river, which did not drown crowding.

## Quick-Note Paper.

With the help of your sewing machine very attractive and useful hastynote paper may be devised.

Buy a package of square envelopes. Run each envelope under the unchine, flap down, making a perforated started accidentally, an incomplete ramargin at each side of the envelope. tion might tend to help start it. Birds Take your scissors and cut the side should have limestone or oyster sheil a quarter-inch margin.

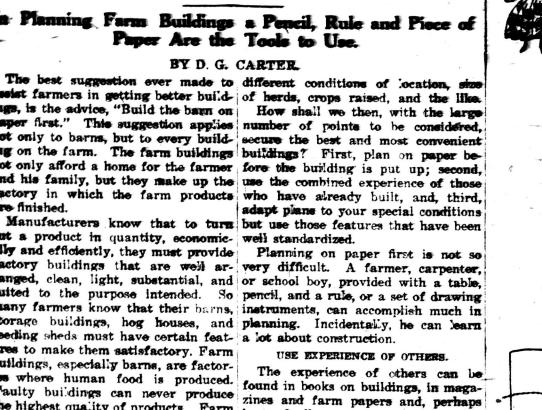
Write your message inside the envelope. Paste the perforated rims and seal the envelope. To open, tear off ply oyster shell or limestone. Furnish sides and top.

tically no room in a traveling bag, birds caught breaking eggs intention- and gives it back!" They are better than the postal, as ally. they give privacy to the written message and they give more room .-- P. B.

Chase Away the Grass Stains. Since nature has donned her dress Cut the grain for hay as soon as it of green, the problem of removing heads out. grass stains from clothing again faces the busy housewife. The following

methods are recommended. Wash the fresh stain in cold water should therefore not be used.

Alcohol or ether will dissolve the s rat to enter, in the side near the green coloring matter when the material cannot be washed.



are some factors that have been pretty

The Poultry Garden.

fall and winter.

basance of the winter.

and cure this habit.

To Stop Egg Eating.

Have nests at least eighteen inches

Spring-sown alfalfa is often killed

depth, with a hole, large enough for

definitely settled and can be included

THE CAPE FROCK AN ESTAB

LISHED VOGUE. tight sleeves are set in at the armhole, persons.

good taste rather than a lavish expening the spirit of the mode of the me along the banks of the Nile, and from ment. Price of the book 10 cents the which the first paper was made.

HOW TO ORDER PATTERNS. Write your name and address plain-

From the age of two months a dry Under normal conditions half an mash, consisting of equal parts, by acre will provide adequate greens for Wilson Publishing Co., 73 West Ade Eusebius, an early Christian writer, calls her Merris. For want of better iside St., Toronto. Patterns sent by calls her Merris. For want of better knowledge we may call her by one of return mail.

These days, the child of pre-school She had compassion on him," v. 6 tops, alfalfa, clover, cabbage leaves, are grown in flats and planted late, age is much the centre of attention. There is a strong appeal in the simple corn or sunflower tops, etc., should be clubroot will be avoided, all insects In the past this study has been very naturalness of the story. It bears on given twice a day. It is also necessary will be reduced to a minimum and the much neglected. We wonder how only the face of it all the marks of simto keep before the pullets constantly a cabbages will make substantial heads hopper of good mixed grain and a by cold weather.

Supply of milk. Clean, fresh water An eighth of the acre should be the company of the before the hirds at all times. Planted to manged wavest beat an educational measurement from the ancient world. Seeing that should be before the birds at all times planted to mangel-wurzel beets, about an educational movement, for there is all the world loves a child it would and oyster shells and grit should be one-sixteenth of an acre to Russian no more logical time for the founda- be a marvel indeed if they had not. kale and one-sixteenth of an acre to tion of school training to bubble forth Among the most interesting is the story than before he begins school. Exper- of Sargon, king of Akkad, in Mesoience has taught us that we can ad petamia, more than 3000 B.C., who colony house on skids can be made in- and rape, should be drilled in so they just ourselves with more case and ap writes, "My mother of noble race conexpensively. It should be dry and can be cultivated, thus reducing the preciativeness to a change in our life's ceived me and bore me in secret. She

beets can be stored to provide for the smooth if she but trains them in the reared me, and made me a gardener, simple, but all-important duty of liv-ete." Like in some respects, this is ing together, which, after all, is one wery unlike in others to the story of the greatest problems of life. of the greatest problems of life.

Of course, no one likes to see a child deprived of a plaything or a pleasure Often in large flocks birds start egg threaded needle of your sewing ma-eating. Though this habit is generally childish sphere. But the "Ain't he that will add happiness to his little cute? He's only six" attitude toward ditions, and their religion. his carelessness with clothes, furniclosing of the envelopes. This gives a before them all the time. Lack of lime keep the house in a Bediam. On it de
Egyptian prince. The name "Moses" ture, or playthings, does more than therefore, receive the education of an pends how he will later expect his little is probably Egyptian, and meant school friends to look upon his selfish "child," or "son." dance of green feed will help prevent school friends to look upon his selfish, careless actions. To prevent or cure this habit: Sup-

An amusing incident happened the other day. Little Jimmy had a bag Stephen made his great defence of his green feed. Have one nest to five of candy and kept urging his Aunt Christian faith before the high priest Hasty-line paper may also be made birds to prevent crowding. Arrange of candy and kept urging his Aunt Christian faith before the high priest label. When his mother and council of the Jewish nation. He club, whatever happened. of firm pad sheets, running the sewnests so that they will be dark. Keep inquired why he urged only Aunt recalls the story of the patriarchs, and At supper he could talk of nothing back by money and erase my name ing machine at the sides and at the nests we'll supplied with straw or hay. Jenny to take some. When his mother the providential raising up of Moses eige. A few of these hasty-line papers above the floor. Place glass eggs in when I pass it to Aunt Jenny, she nesothers in the room, he replied "Well, to be the deliverer and lawgiver of "I say, mother, haven't you got a bit and a small tube of paste take practithe nests and on the floor. Dispose of ser takes any. She just thanks me

Such little happenings, and many, many more, handicap the youngster by the long history of religious progress. ised our landlord he should have to- I was to take it to you, and it wasn't a not teaching him that in fair play Learned in all the wisdom of the morrow. He told me he could not wait favor to me, but to him, for he couldn't "thine" is as sacred as "mine," and Egyptians. Recent discoveries have any longer; that if I didn't pay him afford to lose so valuable a member because the nurse crop of oats or that "thine" and "mine" together makes supplemented what we have learned of to-morrow, he would rent the house to from the club. Oh, mother, wasn't he good?" barley is allowed to ripen for grain.

It will be years before a child can appreciate his lessons of seifishness, A good way to catch rats, it is said, but when he does appreciate them, is to use an earthenware jar, about they will be to him a most valuable without soap. Soap sets the stain and one foot in diameter, three feet in community life insurance policy.

To Keep Cut Pumpkin.

top. The jar is buried in the earth mediately with boiling water. There one effect they are unable to climb up, ough rinsing will prevent Javelle from affecting the fibre.

They can then be destroyed by water. For "Honesty for quite a while, especially if kept the English army, and fought with the Ethiopians. They can then be destroyed by water. For "Honesty for quite a while, especially if kept the English army, and fought with the Ethiopians. They can then be destroyed by water. In a cool place.

# SS LESSON

Exodus 2: 1-10; Acts 7: 22. en Text-Train up a child in the way he should go: And when he is old, he will not depart from it.

ANALYSIS.

Exod. 2k 1-4.

DAUGHTER 2:5-10.

III. EDUCATION OF MOSES, Acts 7:22. Pharaon's police, in the Nile river, contracted in this way, need never be threshing days. hidden by a loving mother until she repaid. could hide him no longer, then by a stratagem brought to the notice of the Egyptian princess who adopts him as and direction of their national life.

I. THE BIRTH AND HIDING OF MOSES, Exod. 2:1-4

A man of the house of Levi, v. I. In chap. 6, verse 20, we are told that his charged me for." off. It has a long tie collar of its own is not easy to understand how the in this connection. front. The frock underneath is daughter (Exod. 6:18 and 20). It is straight, with a tailored collar ending quite possible that some of the names in long revers, and a set-in panel. The families or clans, and not of individual

The secret of distinctive dress lies in the child was beautiful." (Heb. 11:23, made answer: Moffatt's translation).

diture of money. Every woman should a box or basket shaped like a little "You know I try as hard as I can, not, or Mr. Davis can g "You know I try as hard as I can, not, or Mr. Davis can g "Harry, but it takes more money than rent—stingy old thing!" want to make her own clothes, and the boat and made waterproof by daubing I can earn to give us even the neceshome dressmaker will find the designs with bituminous slime or mortar. It sities of life; we mustn't expect juxthink, he stole to his mother's room, Elustrated in our new Fashion Book to was made of the stalks of the papyrus uries."

stamps or coin (coin preferred; rap child doomed to a cruel death. Jose boys.

for summer and early fall, the cabbage for late fall and early winter, and the make the path of her children more Akis, the irrigator, who took me up,

Called the child's mother, v. 8. In this way it is brought about that the child Moses is nursed by his own mother and grows up with knowledge of his own people, their customs, their tra-

He became her son, v. 10. He would.

III. EDUCATION OF MOSES, Acts 7:22.

Twelve hundred or more years later. than Jewish law, and what was Moses'

classical literature of ancient Greece for river navigation, and even ven-back." tured out upon the sea, they erected "No, Harry; I do not wish to boring lesson to her son; and it was.

row. I do not think that it is at all Throughout the pleasant summer, top. The jar is buried in the earth deep snough to have the hole on the standard when the master and follow important when the master and follow important with the ground. When the rats and once, press waxed paper over the standard with the ground with the ground. When the rats at once, press waxed paper over the standard with the ground with the g

# "FAIR EXCHANGE—NO ROBBERY"

Economic Axiom is Applied to the Problem of Ente

BY CITY COUSIN.

ped around some country produce was something that is a rare treat to town a statement by a country woman, who children, they invite the youngsters did not sign her name, to the effect that out to see the performance, and on THE BIRTH AND HIDING OF MOSES, her own town relatives and friends Saturdays, when the weather is good. over-ran the farm all through the sum- there is real fun on the farm. In II. ADOPTION OF MOSES BY PHARAOH'S mer and until late in the fall when winter, and occasionally in summer. work was pressing and help hard to we return the compliment by inviting get. But that did not exasperate her their children to the city. Introduction of moses is, unques as did the fact that they innecestly tionably, one of the most remarkable supposed, or pretended to believe, that the farm folks too busy to bring the characters which we meet in the pages of history. Born in the darkest hour cost little or nothing. Therefore, it is and get them, keeping them safe for of his people's distress, when daily a pleasure for the country woman to the day just as our own are kept cafe

About the time the paper came Most of the adult visits are "eat-under my eye, I heard a town woman less" ones, but the children do revel in her son, educated at the Egyptian discoursing about how her country eating away from home. We save up court in all the culture of an extra- relatives over-ran her premises and magazines and papers for them of ordinarily gifted people, then, succes- never paid their social debts by ask- which we have more than the ordinary sively, a fugitive learning the ways of ing her to visit them. Having no family because of business relations wilderness life, a leader of his people automobile and not being able to walk along that line, while they in turn in a great adventure for liberty, their the distance to the locality of her relajudge, their prophet, their lawgiver, and their priest. He left behind him grace as she could muster, and her born of faith in God, of unremitting,

In an old agricultural paper wrap-| When they thresh or put up hay or

of his people's distress, when using a parameter to the control of their infant children were cast, by entertain, and also debts, social debts from machinery on clover hulling or

self-denying labor, of unselfish devo- or try to make believe, that living is slightest feeling on my part that I tion to the good of the people, and of as cheap in town as in the country. have been imposed upon, and am quite skillful and far-seeing organization "They charge me market prices for certain my busy friend fee's the same. the butter and eggs and fruit and We are not rich, but they have luxurvegetables they bring me," she said, ies that we have not, and we have "then sit down with their hearty coun- some things that they can not enjoy try appetites to help eat what they because of their location. It is nice for them on a stormy night to know, name was Amram, and his wife's There you have it! Some people that they will not have to drive in name Jochebed, and that Moses had in the country imposed upon and some for their high school children, and The cape has become a part of every an older brother called Aaron. His in town. I could not but think of the nice for us to know that short vacaphase of the mode, and is nowhere sister, Miriam, is mentioned in verses fair and honorable exchange of courte tions in the summer are available to more smart than when used on the 4 and 7. Compare Num. 26: 58-59. If sies that has existed between my fam-ours. There has never been the slightstreet frock, as pictured in this model the period of the sojourn of Israel in ily and a fine country family for some est jar and I hope never will be. We Egypt was four hundred and thirty years (Exod. 12:40), and if Levi was living at the time of the settlement of sided it some loses its charm. Extake and never give, either in town or never enjoyable or profitable.

# HARRY THORN'S TEMPTATION

BY SOPHIE M. McGIFERT.

"You know I try as hard as I can, not, or Mr. Davis can go without his

Good thing we don't expect them; we'd never get 'em."

II. ADOPTION BY PHARAOH'S DAUGHTER, violently behind him.

Alfred Anderson, the lawyer's son.

these names. This bathing in the dozen boys, who were to make arrange- conscience for a while. sacred waters of the river Nile was a ments for buying a boat, building a ing to naval enterprises.

boys were all sons of wealthy parents, and he had considered it quite an honor to be invited to join them.

initiation fee would be five dollars, in but could find no rest. order that they might have sufficient cash to buy their boat at once, his face dear mother—who had worked for him fell, and it was with a pretty sober all his life? countenance that he entered his What would little Susie say when

His mother was a widow, and Harry

Mrs. Thorn tried to support him and the two younger children by doing plain sewing, for she was very anxious that Harry should continue his studies his life. as long as possible.

the small sums she received from time the whole truth. Mrs. Thorn saw how to time pay the house-rent and feed and clothe them all.

Harry met some of the boys down heart ached with the thought that her town, eagerly planning with reference boy could not be trusted. to the club. He was a silent listener, to the eager talk and merry laughter, morning when the outside door opened, till gaily accosted with:

"Say, Hal, what are you so solemn for? You are coming to-night, of course?"

and rushed toward home, resolving and so I've been to Alf. Anderson's,

Israel. Incidentally he shows, with in- of money you could spare me?" he wouldn't do it; and he took that fivecreasing force as he proceeds, how said, for the fortieth time, perhaps.

much older and greater religion is said, for the fortieth time, perhaps.

dollar bill from his pocket and made rightful place as a minister of God in the house, except five dollars I prom- I felt I didn't deserve it. But he said

and Rome. The Egyptians had some lated Harry; then added: "But, motharms, thankful that his better nature medicine, and other sciences. They de- er, if I could only have the money to- had so far triumphed as to enable him veloced the art of writing, they were night. Couldn't you borrow it? I would to humble his pride by acknowledging skilled in agriculture, they made boats leave school and work hard to pay it his poverty and sin to his schoolmate.

birth by his parents, because they saw she did, and sighed deeply, as she "I don't care; I'll have that five dol-the child was beautifu." (Heb. 11:23, made answer:

took her purse, and there lay the five For a moment he hesitated; but Harry strode cut, slamming the door thought of the boys' contempt if be

told them he couldn't afford to join What had come over the usually them decided him, and he tucked the The daughter of Pharach. We do good-tempered lad? Nothing more nor bill securely in his pocket, then put ly, giving number and size of such not know the name of the kindly prin- less than a prospective boat-club talk- the pocketbook where he had found it, patterns as you want. Enclose 20c in cess who had compassion on the little ed over that morning at school by the and quietly left the room and the

The first meeting had been appoint- He hastened to Alfred Anderson's ed for that evening, at the house of elegant home, where the boys were already assmbled, and the cordial greet-The club was to consist of about a ing given him drowned the voice of

They had a jolly time that night. boat-house, and other matters pertain- After their important business was transacted, pop-corn and apples were With the exception of Harry, the in order, and joke after joke made the room ring with laughter.

But a more thoroughly uncomfortable boy than was Harry Thorn never But when he was informed that the tossed from side to side of the bed,

What would his mother say-his

she heard that her big brother was a thief? Thief! How Harry shuddered her only son. He was just fourteen at that word! Oh, if he only had power to undo that evening's work! It seemed to him now that he didn't

care if he never saw another boat in He could bear it no longer. Rushing It was hard work, however, to make his knees beside her bed and told her to his mother's room, he dropped on he was suffering, and refrained from any word of reproach, though her

> Breakfast was waiting the next and Harry Thorn bounded in and laid a crisp five-dollar bill upon his moth-

er's plate. Harry mumbled an indefinite reply, thought being sorry wasn't enough, and I told him everything that has

from the roll. "But don't you think, mother, he "Why, son, I have not one cent in me take it. I didn't want to a bit, for

"Hang the mean old fellow!" ejacu- Mrs. Thorn folded her boy in her She felt that this would be a last-

which was not his own. For "Honesty