METAL ROOFS REDUCE FIRE HAZARDS ON THE FARM

It is generally accepted that of the tion from both inner and outer surfire hazards to which farm buildings faces. Recent tests of sheet metal are exposed, and which may be classifled as external in nature, lightning is the most important, with windborne burning brands occupying second place. Of less importance are the hazards of fire communication by radiation from adjacent fires, and communication with other fires by connecting links of combustible materials. Causes of fire which may be classified as internal in origin will not be considered here, as they are seldom, if ever, influenced by the materials and construction of roofs.

When a building is roofed with metal sheets in electrical communication with one another, and the roof as a whole is connected by a conductor, adequate in carrying capacity, and with joints of permanently low resistance to a good earth contact, such a roof constitutes an effective electrostatic shield over the entire top of a building, and there is reason to believe that it constitutes the most effective lightning protection now availbuildings of ordinary construction.

With respect to burning brands is completely and absolutely incombus-It may be pointed out further that a other practicable building material. sheet metal roof properly applied has no cracks or cravices through which sparks may be driven by the wind.

metal roofing in protecting underlying within should be given due weight, to- I. THE DIFFERENCE CHRIST HAS MADE misses and is in sizes 16, 18 years, 38, prize. A booby prize creates lots of around a white cake already cut into wood from ignition by heat radiated gether with other characteristics gofrom adjacent fires, it would be easy ing to make up the desirability of a to get into a theoretical discussion of roofing material, by agricultural engithe relative parts played by reflection, neers when their advice is sought as convection, conduction, and reradia- to roofing practice.

Once again the farmer is mapping When Winter's at his oldest out his work for the year, planning! And coldest. his crops, deciding what fields shall And boldest, go into this crop or that, how many Then cometh good Saint Valentine acres of this crop or that he shall To show that love is burning, plant. As a general proposition, it And sighing, and yearning, may be laid down that the better the And breathes upon the wintry earth farming he has been doing, the more nearly all these matters have already When life is at its bleakest, been decided for him by his farming | And meekest, of the past year and the years before that. In a word, if he had been doing Then cometh good Saint Valentine really careful and systematic farming, the crops that will go on most of And wistful-eyed and cosy, his fields, the acreages of most of his And breathes on every torpid hear crops, are even now pretty well determined for him.

There is something wrong with his farming program if in laying out this year's crops he feels that he need give ! consideration as well the effect of this separated.

The Valentine.

He sent her a box of roses red, Pulsing with love for lady fair. They would meet that night at the ball, he said.

He called that day in his automobile, His gifts were costly and rich and

His stocks and bonds were of gold and

with grace,

Fearlessly seeking his love afar, With a love that shone in his lifted

Unafraid in the world of men. And what could my sweet Milady do the weather is below freeing, and But give him his answer there and there is nothing to sweep away later.

clad buildings of the garage type indi- February 13. Making Our Homes cate that sheet metal gives unusual protection. In one case a sheet steel wall was placed two feet from the garage being tested. Oil-soaked waste wall did not even smoulder. This I. THE DIFFERENCE CHRIST HAS MADE would indicate that sheet metal has a relatively high value in protecting underlying wood from ignition tem-

REDUCE THE HAZARD.

able and economically practicable for trasted with the shower of sporks and mothers. Only among the few and embers, and the increased inten- home life which we know. sity of burning which commonly occur But with the coming of the gospel from other fires, particles of soot from when a combustible roof collapses, a all this changed. New values came to chimneys burning out, etc., it may be sheet metal roof, particularly if of the attach to marriage and to parenthood. said first of all that sheet steel or iron locked seam type, tends to hold to- The home was lifted on to a new plane cardigan dress shown here, and a or real out-of-doors stuff if you can locked seam type, tends to hold to-

As regards the capacity of sheet high ability to resist the spread of fire forms our lesson for to-day.

Farmers Must Plan Ahead. The Mission of St. Valentine.

his tenderness divine.

And weakest. To show that love is rosy,

his tenderness divine.

Hog Grading and Culling.

Hog grading is receiving less and heed only to the returns from this less opposition as its value becomes year's labors. If he does not take into better understood. The Dominion Live Christ wishes his church to be like a ence to their parents. Children are verse of two lines using the two words Give out numbered cards and pen-Stock Commissioner reports that beautiful lady, shining in the light of not to be grudging or discontented or for the last words of the lines. After cils to each guest. First let the ladies year's cropping upon the fertility of many drovers who were at first oppos- God. He does not look for faults in it, peevish, but are to render willingly the verses are collected they are read guess and have the gentlemen go back his farm and its ability to produce ed to hog grading have fallen into like spots or wrinkles. He sees only whatever service is required of them aloud and suitable prizes awarded to of the "stage." One at a time, as plussed. Then meeting her mother's next year and the years after, there line and now make their purchases the beautiful qualities of his church, by father or mother. is something wrong with his method on a grading basis. Demonstrations and his purpose is that it should alof planning. In such case, he is trying in grading, the Commissioner also re- ways be "holy and without blemish," Vs. 2, 3. Paul reminds the children to make a one-year business out of ports, have been the means of convinc- God in the Old Testament. what is essentially a continuing busi- ing many farmers of the suitability of Vs. 28-30. This love of Christ shows and St. Paul notes that this is the first testant is given two red hearts about mess, trying to divide from each other the bacon hog for both the Canadian how the head of the house should recauses and effects that cannot be and export trade. Many farmers have gard the lady who is his companion by community organization for the purchase of fifteen to twenty-five sows of good bacon type. There are, however, still a good many who are reluctant to be community organization for the purchase of fifteen to twenty-five sows of good bacon type. There are, however, still a good many who are reluctant to be community organization for the other foot. This race is awarded to the gentlemen. This is a simple, amusing way to get up a partner. Selfishness is a cruel trapout and obedient in spirit. We should not the other foot. This race is awarded to the gentlemen. This is a simple, amusing way to get up a partner. Selfishness is a cruel trapout and back. The heart-step at a time, to a partner, because of good reading by forming the example of Christ, brings bright need to show a proper separation for the other foot. This race is awarded to the gentlemen. This is a simple, amusing way to get up a valentine party quickly. Children as a book club. Each member of the club may be stepped on and each must be proceeds, a heart-step at a time, to a given point and back. The hearts only may be stepped on and each must be proceeds, a heart-step at a time, to a simple, amusing way to get up a valentine party quickly. Children as a book club. Each member of the club may be stepped on and each must be proceeds, a heart-step at a time, to a simple and long if we do not submit a simple and long if we do not submit a simple and long if we do not submit a simple and long if we do not submit a simple and long if we do not submit a simple and long if we do not submit a simple and long if we do not submit a simple and another prize in the other feart is put in the other feart is put in a simple and another prize in the other feart is put in the other fear If her answer was "Yes", his rose most desirable and most profitable the home into a place of genuine hap-

Apples, Pulp or Silage.

cultural college to find out their com- place in his affections. And he offered all to his Vatentine. parative feeding values, showed that a ton of dried-apple pomace was equal ample of Christ's love to his Church And another came in the people's car, to three tons of corn, and a ton of beet is a profound "mystery," that is, indi-With a dainty book that was marked pulp was equal to four of corn silage. God reveals to human hearts. None Apple pomace was a good appetizer.

better than ashes, for two reasons. It actually melts the ice, even though Just sprinkle the salt on the ice.

JEFF, WHAT

DID YOU

Sunday School Lesson

Christian, Ephesians 5: 25 to 6: 4. Golden Text-Let us love one another; for love is of God .- 1 John

ANALYSIS.

WITH RELATION TO HUSBAND AND WIFE, 5:25-33.

II. THE DIFFERENCE CHRIST HAS MADE WITH RELATION TO PARENTS AND CHILDREN, 6:1-4.

INTRODUCTION-One of the first re-Another element entering into the sults of the introduction of Christiansum total of the influence of roofing ity into the previously heathen world on farmstead fire hazards is the ex- was to create a new ideal of the home. tent, if any, to which a roof can con- The relations of husband to wife and fine a fire, regardless of its origin, to of parent to child in Greek heathen sothe building in which it starts and re- ciety had come to be very loose. There duce the hazard to adjacent buildings. was no doubt a certain amount of na-In this respect sheet steel and iron are world, but there was no reverence. tural affection even in the heathen in a class by themselves. Not only Husbands often treated their wives as are they completely incombustible, but though they were slaves or poor beasts they are infusible, non-fragile, and of burden, and children were neglectcapable of retaining to a considerable ed. If they were weakly, they were degree their mechanical strength at often left to die without pity. On the the highest temperatures encountered other hand, children were not brought trasted with the shower of sparks was there anything of the beautiful

roofing material of comparable cest, istic shared in a similar degree by no kind and loving like God; sons to be joined to a dart-fitted under-bodice, crepe paper and red candles are used obedient and reverent like Christ. The jacket has a facing and collar in here and there. In conclusion, it may be said that Wherever St. Paul went, he strove to one, a vestee, and smart patch-pockets. The original valentines are taken up sons will find the old-fashioned motto tion, spark or ember resistance, resis- relations. We can see this by the tance to radiant heat, and a relatively present passage in Ephesians, which ed with bands, and a trim belt fastens the guests have arrived. The one to the party fun.

WIFE, 5:25-33.

wife, not to tyrannize over her, as the 38 requires 2% yards 39-inch plaid merriment. Each girl is given an may be similarly decorated. heathen often did, still less to leave material and 2% yards plain; 14 assortment of small articles to use as Tiny lace-paper doilies may make her or to divorce her, since Jesus had yards 36-inch material for under- "money" (candy hearts, buttons, party place cards when put together forbidden divorce, Mark 10:9, Matt. bedice. Price 20c the pattern. deemed ones when he died on the 10c the copy. cross, it will put gentler thoughts into our hearts, and we will not only be kind to our dear ones, but we will Write your name and address plainreverence them. Men who have been ly, giving number and size of such selfish will become chivalrous and patterns as you want. Enclose 20c in noble, and the home will be a different stamps or coin (coin preferred; wrap

Vs. 26, 27. Christ loved his Church ment of baptism, by which we enter Wilson Publishing Co., 73 West Ade- a decorated basket. On each heart is which may be made with a sheet that Child Psychology, yet I cannot see into the church, indicates that we laide St., Toronto. Patterns sent by should live purified lives. The words return mail. spoken at baptism, namely, "In the name of the Father and of the Son Son to his Father in heaven, and his and of the Holy Spirit," declare that example means that sons and daughwe belong not to ourselves but to God. ters in the home should show obedi- pencil and asked to write a valentine an electric bulb light.

also asked for assistance in the culling on life's journey. He, too, should not of the sow stock and in numerous in- be fault-finding, but chivalrous and for God's blessing who are reverent given signal the other heart is put in still a good many who are reluctant to ness into faded eyes, smooths the cruel need to show a proper sympathy with lifted at each step and placed again be convinced that the bacon hog is the traces of care away and transforms their children and not carelessly to on the floor. Failure to follow these

at the beginning said (Gen. 2:24) that insists on the children being taught to when a man marries, the obligations rule their lives by the fear of God, and Experiments carried on by an agri- of the new home are to take the first on their being instructed in God's

Vs. 32-34. Paul says that the ex- Christian home. cates a truth which only the Spirit of but those whom Christ has awakened or steam, be sure all conducting pipes

V. 1. Christ was a perfectly loving for attaching, put on instead.





THE CARDIGAN DRESS IS MODISH.

through the realization of God as style suitable for both the miss and get it, and here and there a red card- ways enjoy! Father and the Lord Jesus Christ as matron. The two-piece skirt, having board heart, stand in nooks and cor-WITH RELATION TO HUSBAND AND 40 and 42 inches bust. View A size laughter. 38 requires 41/4 yards 39-inch mater- If there is to be dancing at Court, one side into warm fondant so that V. 25. The husband is to love his ial, or 3 yards 54-inch. View B size bidding for partners is a source of they will "stay put." Any small cakes

19:6. Even philosophers among the The designs illustrated in our new puts up packages of various sizes and to tie these, run in through holes like Greeks doubted sometimes whether Fashion Book are advance styles for each girl bids for them. The auction- lingerie. Place inside these doilies the so young should have been exposed ty and neglect on a great scale. But the home dressmaker, and the woman eer decides whose money is of the names of those who are to be partnow Christ's love for his Church or girl who desires to wear garments most value and writes her name on ners, writing the names on a slip of had to help Virginia constantly becreates a new ideal for the husband dependable for taste, simplicity and the packages paper. Tie the ladies' names in pink in relation to his wife. If we think at economy will find her desires fulfilled have been purchased they are distri- and the gentlemen's in blue ribbon what a sacrifice Christ loved his re- in our patterns. Price of the book buted. When opened, each is found to Paste on the outside of each little val-

HOW TO ORDER PATTERNS.

it carefully) for each number and address your order to Pattern Dept.,

like the sacrifices which are offered to "Honor thy father and thy mother,"

them that they are responsible for the the race. V. 31. This is the reason why God religious upbringing of the young, and Word. The result will be a truly

If your heating plant is hot water to spiritual truths can appreciate the are well insulated. One home-owner The spirit of St. Valentine's Day is only be done, however, when the mow quently be possible to get a better

BY JEAN HATHAWAY.

The Queen of Hearts-the hostess cakes contain the prophetic emblems; at the party-invites her Court and a ring for the first to be married, tiny from the moment they are received at horseshoe for good luck, coin for the ginia, was beginning the study of in the Throne by Her Majesty in gala first millionaire, thimble for single strumental music. Virginia had been valentine costume, till the last good blessedness. Heart-shaped sandwiches, asked to join in some simple little night is said, all is fun and frelic. red lemonade, red candies and ice songs and had done very well.

After the Queen has decided upon cream topped with a maraschino her list of guests she issues red heart- cherry complete the refreshments "fit Virginia; you can certainly sing," shaped invitations with the following to set before a Queen." lettering in white ink:

Will You Please Come To My Valentine Party at.....o'clock.

Date

(Sgd.) Queen of Hearts Price of admission: One original Valentine.

The hostess is a very modern queen indeed, wearing a colorful paper slipoccasion. And no queen could ask for a more original crown than the large head. red heart which she wears so jauntily.

fashion, is hung on the front door and paper.

in front. No. 1526 is for ladies and which is voted best draws a small These may be arranged in a border

contain two paper caps, on one of entine of lacy-paper circle an old them the name of the man who is to fashioned motto candy. Put these on wear it and so become the girl's first a plate and pass them around. They dance partner. This same idea is look like very charming little valenadapted to choosing supper partners, tines.

draw hearts and the boys arrows from need to have another valentine game ing rhyming words. Each couple is tine. Place behind the sheet that the co-authors of the best verse.

GAMES FOR THE PARTY. A Heart Race is jolly. Each concommandment to have a promise at twelve inches in diameter, one for tached to it. And the promise is God's each foot. The racer places one heart blessing. Only those children can ask on the floor and steps on it. At a In turn, ladies take their turn be-

"Two Hearts That Beat As One," another St. Valentine's game. Fasten a sheet of white paper to the wall and paste a large red heart at the centre. Give each guest a heart of the same size. Let each person be blindfolded and in turn try to pin the heart directly over the one on the paper.

VALENTINE FOOD.

Rock salt—the kind used for mak- spiritual illustration. Nevertheless, who had a hot-water heating plant still further carried out when refresh- is considerably higher than the barn. price than if the books were bought ing ice cream-will usually clear the even simple Christians can see that it wondered why the basement was the ments are served. A basket, decorated Of course the tank should be amply singly. Manly and tender, and honest and slippery walk or step of ice. This is means that husbands and wives should warmest part of the house, until he with red crepe paper, adorns the supported by posts underneath, and it The size of the club must also be look on their mutual relations as discovered that the pipes were covered centre of the table and a streamer of should not be too large. only with paper. This was torn off red leads to each place. When the II. THE DIFFERENCE CHRIST HAS MADE and the regular cellular type of insula- streamers are pulled at refreshment When they mean less static, cold too big. For example, suppose the WITH RELATION TO PARENTS AND tion, obtainable in units with bands time, each guest draws an individual winds are even welcome to the radio rule is that each member may keep a heart-shaped cake, iced with white fan.

QUEEN OF HEARTS ST. VALENTINE'S DAY

Valentine parties are the nicest of icing and decorated with tiny red hearts or red cinnamon candies. These

> At each end of the table is a Val- conductor of the studio. entine made of paper lace doily with "Isn't she fine? She ought to have appropriate illustration cut from St. little lessons in vocal work," raved Valentine's crepe paper, finished with Faye, Mrs. Fields' grown sister. a frill and mounted on wrapped wire. Virginia twisted with pleasure and

frames standing on a spiral base and think I do sing real well." decorated with lovers' heads cut from "Of course you do," agreed the the same crepe paper.

Red, the color of all true lovers, is gers is supposed to make her own cos- they wanted to make us feel happy so the keynote for valentine decorations, tume, posters, valentines, favor cups they were extra generous."

and bands of red crepe paper. Bare for a little party like this, ingenuity the other children around here. Moth-Exceedingly smart is the attractive branches, hung with crepe paper moss and a bit of work will do wonders er, don't you think I should begin to

Valentine Party Favors.

Those who are arranging a valentine party for children or older perthe combination of lightning protec- create a new sense of home duties and The long dart-fitted sleeves are finish- at the door and unwrapped when all candies useful in many ways that add I can do better than she can even if

sections. They should be dipped on

beans and so forth). The auctioneer double. A very thin ribbon will serve

To mix the crowd and break the ice, A motto candy-hunt will add to the there are valentine verses. The girls sport of the occasion. You will also written a word and on the arrows is edged with wide kitchen shelf paper words that rhyme with those on the and hung at one end of the room. This hearts. Partners are found by match- is to suggest a lace-edged paper valenthen given a piece of paper and a hung like a motion picture screen, flat.

> gentleman's shadow be thrown by the was born. light on the valentine screen. Ladies then write down his name. The one er," was her somewhat irrelevent who has made the most correct guesses | reply; should receive a large box of candy.

hind the screen also and another prize

box, for heating water, should be only to home. three or four inches above the grate, It would be possible, of course, to and there should be ten or more inches have each member buy the book she of the pipe exposed to the flames. The desires as her contribution to the club. water will heat faster if this pipe runs but better results can be secured by horizontally instead of vertically, in- having a book committee to select the

INJUDICIOUS PRAISE

BY LENORA BAILEY.

Mrs. Lee was visiting the studio where her five-year-old daughter, Vir-

"Oh, what a lovely voice you have, gushed Mrs. Fields, the owner and

Place cards are heart-shaped wire complacency and remarked: "Yes, I

Nut baskets or ice cream cups are The thoughtful mother took her litthe plain white ones covered with a tle daughter out of the studio as soon over made from crepe paper. This is frillof paper and trimmed with a small as possible. On the way home, Virworn over her dress, is very easy to red cardboard heart and gold arrow. ginia asked if she had heard what had make and most appropriate for the On the girls' cups a boy's head is been said. To this the mother resmounted and on the boys', a girl's ponded: "Yes, I think it so nice of them to say such kind things about my The Queen of Hearts with deft fin- little girl. Of course, you know, dear,

A large red valentine, made poster and favors from valentine crepe The child was thoughtful for a few minutes and then said, "Well, I do the house is decorated with red hearts If one does not care to spend money think I can sing better than any of

"But, Mother, Faye said I was a born dancer and Mrs. Fields told me I was the most graceful child in her classes, unless it is Dena, and, Mother, she does feel so smart and big."

"Listen, dear, Mother will tell you when she wants you to do those extra things, so let us not worry any more about them."

After a short silence: "Mother, Faye thinks I won't ever amount to anything the way you are raising me." The mother was absolutely nonplussed for a few moments. She felt really more than vexed that a child in this way, especially since she had

cause of a natural tendency to think too highly of herself and her ability. She was sorry to see the unaccustomed frown of irritation on the young face and wondered how Mrs. Fields, herself a mother, could take such an attitude toward a child or permit her sister to do so. "Does Mrs. Fields carefully consider and weigh all her actions and those of her children as I do?" she questioned. "We are both students of that she applies any of her knowledge either in training her own children or in dealing with mine." But she pushed the annoying thoughts quickly and resolutely aside and looking down tenderly at her little daughter, she asked, "And what does Virginia

numbers are announced, let each loving gaze, a new spirit of loyalty

"I'd rather hate you for my moth-

A Country Book Club.

The pipe entering the furnace fire- the books are circulated from home

books. This committee can request suggestions from the members of the Many farmers have found that if club, but in addition they can take the storage tank is placed in the hay- counsel of librarians and carefully mow the danger of freezing in winter consider various book reviews. Buyis reduced to a minimum. This can ing the books in one order, it will fre-

> carefully considered. It is better to have two clubs than to get the club book for reading two weeks; then twelve books will last for six months. A large club also makes the circulation of the books more difficult.

There should be a card in each book indicating the order of the readers, and it will be found better for each reader to call for the book which she is to have next. If those who have read the books are expected to pass them on they are more likely to procrastinate than when a new book is ahead to be obtained and read .- J. E.

Native Names.

Did you ever think how unlike are our names for certain countries to those which the natives of those countries use? For example the Egyptians call their land Misr, the Finns call theirs Suomen Tasavalta, the Persions know their country as Iran, the Esthonians theirs as Eesti Wabariik, and Palestine is officially Fistin. The Irish Free State is Saorstat Eireann, Japan is Nippon, and Morecco is El Maghreb. That will do for to-day.

Buttonholes of artificial flowers, now so popular, are growing larger; at least as many as 150 violets may go to the making or one "posy."

ANCIENT N

Excavation in sults in Inte

hall of large dime! to those known fro sagas. The outhout horses, pigs and shi smithy, etc., coveril Not far from was the cathedral

with flat stones of The cathedral had 90 feet, about the cathedral in Nidard

ancient settlement

nations for promo Did you ever he gebra and Fronc hurd!" And have gent parent reply school won't matte

through his course lonfs, flunks his ex pears again the ne Probably he falls of the good of his Repeaters great? their schools and

that expense by en

time and the effort

teachers are giving

parents could be a cost of teaching same subjects twi probably see a sud the quality of school Besides the mon munity there is th A life can easily I generation of mor It is not hard for what sort of work are doing in school ness on the subject to keep the young our public school

Invalid chhare town are visited by a public school can continue their

child drift into t

That is the road

life of incompetent

MUTT AND JEFF-By Bud Fisher.

JULIUS, MUTT AIN'T WISE TO THE FACT YET THAT YOU ARE UISITING ME! IN FACT HE DOESN'T EVEN KNOW I HAVE A TWIN BROTHER WHO LOOKS LIKE ME! SURC. WILL YOU EXCUSE ME? I WANT TO SHAVE! DOWAH!





MISS SCHULTZ

CLAIMED THE



JEFF LOOKS FUNNY

WITH HIS BRUSH

SHAVED OFF:



TAHW

MUTT, COULD

IT TROUBLE

YOU FOR



Poor Mutt, the Twins Are Driving Him Cuckoo.



FOR THE LOVE

MUST BE GOING

PLAIN NUTS!

OF MIKE, I