Home Course In Modern Agriculture

XVI.-Farm Buildings

By C. V. GREGORY, Agricultural Division, lowa State College Copyright, 1909, by American Press Association

all the time. The greater number of

silos in use at present are made of

wooden stayes. These are cheap, and

if a good quality of wood is used they will last a long time. Cement and

type of allo that is proving very satis-

factory is made of hollow building tile.

This material is as cheap as staves and

For the young stock, fattening cattle

and sheep cheap sheds furnish ample

shelter. These can be made of com

mon boards well battened, with strong

These sheds should be on high, well

drained ground and must be kept well

For the man who is making a spe-

ease and keeping the hogs in smaller

bog house comes nearest to meeting

grain can be stored and feed mixed up

A cornerfb should be located close to

one end of the feeding floors, so as to

save work when bogs are fattening. If

PIG. XXAII - HANDY TYPE OF INDIVIDUAL

steers are fed another crib should be

built with one end next to a string of

feed bunks, so that the feeder can walk

right out into them with the corn when

feeding. A double crib with a bin for

onts on one side should be placed near

the barn. In the winter the driveway

A good weather proof muchine shed

should be built on very farm. It may

be located almost any place where it

will be out of the way. There should

be a row of wide doors all along one

All wooden buildings should be kept

well painted. Painted wood will last

three times as long as that not so

A little attention to some of these

points in locating and arranging the

may be used for grinding feed.

is a great convenience.

lasts as long as cement.

purpose of a door.

the buildings must be constructed to carry off the impure air. A cheaper scheme of road building will best sult meet the varying requirements of difmethod is to leave some of the rafters local conditions. ferent farms and the still more vary- unboxed at the lower ends. ing ideas of the owners. A few suggestions, however, may help to solve young animals to be fed a silo is at ing. I attended a monthly meeting of some of the most troublesome building most a necessity. It should be located the Valley Farmers' club, a social or

most important farm building is the barn. This is usually built as a shelter for the cows, horses and young calves and to provide a storage place for hay. The barn should not be located by the storage place for hay. The barn should not be located as a small enough so that most important farm building is the cated near enough to the house so that should always be small enough so that a man among them who did not favor the odor will be objectionable nor two far away, as this makes too many extra steps. About 300 feet is a good.



FIG. XXXI-ONE OF THE BEST TYPES OF should be water tight. A twelve foot PARM BARN. distance, if the yards and manure piles are on the side away from the

house, as they should be. The basement type of barn, though bedded. When this is done they are in use to some extent, is not very pop- fully us good as a more expensive ular, even on farms where it can be easily built. The lower part is damp will, of course, have to be provided for and dark, and it is difficult to secure the ewes as spring approaches. proper drainage. These disadvantages make it desirable to construct the cialty of hogs the "colony system" of barn entirely above ground on a solid hog houses is probably the best. For foundation. On many farms there are the average farmer, however, the extra plenty of "niggerheads," which can be amount of work which this system in used as foundation material. The floor voives more than outweighs its advanshould be of cement throughout. The tages of cleanliness, freedom from discost is but little more than that of a

wooden floor, and it will last several bunches. On most farms the central times as long. A cement floor is cold and for this reason should be kept the requirements. Along with it a few to \$3,000 per mile more than magniwell bedded. If this is done there can individual houses are convenient for amized roads would cost, and it has he tittle objection to this kind of a hauling around to the stubble and clo- been found that the cost of maintainfloor, even for horses, although some ver fields or other places where the lug the latter will in six or eight years horse owners prefer to cover the ce- hogs may happen to be located.

The remainder of the barn may be bullt of several different materials, of which wood, in spite of its advancing makes it imperative that the hog house will under ordinary conditions need price, is still the cheapest and most convenient. Next in order come cement blocks and tile brick. When lasting qualities are taken into consideration these are even preferable to wood. A good shingle roof is very satisfacthe south the north row of pens does of prepared roofing may be substituted at a waving in cost and will probably last just as long. In form the hip roof is the best, as it costs but little more and adds considerably to the capacity of the haymow. The plan of having the hay come down to the ground in the center of the barn is not economical of space and is liable to cause the barn to spread. It is better to obtain the extra lary room needed

by making the sides a little higher. A small room in the barn which can be used as a workshop for repairing tools, harness and doing other "rainy day jobs" will be found very handy,

It is always best to have the stock face to the outside. This gives them better light and ventilation and keeps the stable walls from getting splatfered with manure. If the barn is located on a knoll where water from surrounding ground cannot flow down around it and provision is made for carrying away the water from the roof. little further drainage will be needed. It is wasteful to allow the liquid manure to drain away and be lost, and it causes unnecessary work to drain it into a manure pit and haul it to the places where it is needed in a water tight wagon. A much better plan is to use bedding enough to absorb it all. There will always be plenty of this at hand in the form of straw, shredded fodder and spolled hay. By this plan all the fertilizing value of the liquid manure will be saved with a small amount of work.

A litter earrier or a wheelbarrow is a great help in cleaning out the stables. When a litter carrier is used the manure spreader may be left standing in the yard and filled direct from the carrier. Whenever it gets full the manure may be hauled out and spread where it is most needed. In this way it reaches the fields with a small amount of loss.

A point that should be looked after In the construction of the barn, and side so that it will be possible to take one that is too often neglected, is provision for sufficient tight. Not only ing everything else in the shed. does plenty of light make the barn a more convenient place to work, but it also keeps the stock healthier by discouraging the growth of bacteria. The treated, to say nothing of the gain in horse stable especially should be well lighted, since horses are liable to have their sight injured by being kept in a dark barn.

buildings and yards will cut the work Along with light should come plenty of doing chores in half.

Hundreds of orphans have been Eighty Acres of Farm Land Bring \$13,500 to Owner.

C. C. Hargrove, a real estate man of Bitters in this institution for 9 years. Portland, was in Oregon City Satur-it has proved a most excellent medi- day, having just closed a land deal at cine for Stomach, Liver and Kidney Damascus. Through the firm of Har-troubles. Ws regard it as one of the best family medicines on earth." It who purchased the land from Mr. Harinvigorates the vital organs, purifies grove last year, sold his place coninvigorates the vital organs, purines grove ast year, soid his place the blood, alds digestion, creates apsisting of 80 acres, a large portion at her home in Wilsonville, took place the blood, alds digestion, creates apsisting of 80 acres, a large portion. The at 10 o'clock Friday morning at St. netite. To strengthen and build up of which is under cultivation. weak children or run-down price paid for the land was \$13,500, John's Catholic Church, Rev. A. Hillepeople it has no equal. Best for fe- Mr. Losier has purchased four acres brand officiating. Death was due to male complaints. Only 50 cents at of the Hargrove property adjoining tuberculosis. The interment was in Portland,

BRICK ROAD BUILDING PEOPLE OF THE DAY

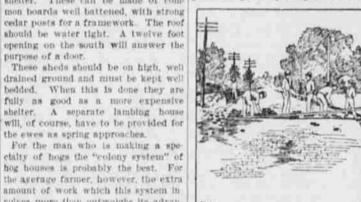
Methods of Construction Adopted by an Ohio County.

Homer W. Jackson Tells Why Prop-Are Chesper Than Stone Ones-Ten

THE kind of buildings needed on of ventilation. By having the windows definitely committed itself to a policy line of the Manchurian milroad. The the farm, their arrangement swing inward from the top and provid- of brick road building. The county and location and the kind of ing triangular boards to close the open- officials and the different city and the United States realizes the benefits material to make them of are ings at the sides the incoming current country organizations are a unit on the problems that often perplex the farmer who is just starting out to improve against the ceiling and distributed done, and a comprehensive road buildhis place. No attempt will be made over the stable without causing a draft. ing campaign only waits on a little here to give any specific plans, since Cupalas may be placed on the roof to more definite knowledge as to what

The unanimity of opinion as to the In case there are many dairy cows or desirability of brick roads is surprisat the end of the barn nearest the cow ganization which unites the farmers of Aside from the house, which will be stable in order to lessen the work of the Ohio valley in Washington county, considered in the next article, the feeding. By having the yard for the where the subject of an afternoon deyoung cattle close to the allo they can bate was, Shall Washington county two or three inches can be fed off the brick roads he did not say so either in top each day. This insures fresh silage public or private. The member who took the negative side of the question in the debate contended that with their present knowledge of brick road material and construction they were not yet ready to expend large sums,

brick siles are practically indestructi-As the facts become known about ble, but are rather expensive. A new the relative cost of stone and brick roads and the enormous cost of maintaining the former brick roads are rapidly growing in popularity. While it is true that brick roads cost more than stone, the difference is not as great as is generally thought. In Wash-



are being built at a cost of only \$2,000 consume all the difference. After that Little pigs need a great deal of sun- the maintenance of the stone road conlight, and this, together with the lin- thues increasingly expensive, while bility of hogs to become diseased, the properly constructed brick road be provided with plenty of windows, no repairs for an indefinite period. By running it north and south and hav- One of Washington county's farmers ing a row of pens on each side each observed. "The first cost of a stone pen will receive an equal amount of road is only the beginning of the exsunshine. Where the building faces pense; the brick road is an asset." Here, as glsewhere, it has been found

the outside yards on the north of the is-a brick road. Two or three years bert J. Hopkins as United States sen- Oregon City, \$1. not receive its share of sunlight, and that the best argument for brick roads | Chicago by his election to succeed Aihouse are almost always shaded and ago the first one was built for a distance of half a mile along the Ohlo The floor, like that of the barn, should river where the road is flooded two be of cement. It is a good plan to ex. or three times a year and where it was tend it out about twenty feet on each conceded that no other kind of a road would "stay put" for a single season. side to make feeding floors where the hogs can be fed and watered without. The brick road stayed, and every farmgetting in the mud. By having all pen er who drove into Marielta over that and yard partitions movable they can road is clamoring for its extension. At the time of my visit to Washingbe arranged for sows and litters or for

fattening swine, as needed. A feed ton county last fall the commissioners were finishing two new brick roads. room in one end of the building where One up the Muskingum valley is sixteen feet wide with two feet of gravel outside the curb and two feet of earth berm outside the gravel, practically a twenty-four foot roadway. Here the brick is laid on a seven to eight inch gravel base with concrete curb, brick, curb and berm all rolled to an even surface. The cost of this road was \$11,500 a mile, and it was built under state aid law.

On the west side of the Muskingum river, on the ridge above Marietta, they were building a ten foot brick road. This road was built on a direct levy made by the county commissioners and the fact that they dured to make such a levy proves how generally publle sentiment approves this kind of road building. This road has a broken stone base with two feet of stone and two of earth berm, making an eighteen foot rondway. The curb on this road is of brick. While this is the cheapest of all curbing, opinions differ as to its permanence. Certainly the berm must be kept up most carefully, as any falling away of the support will let the curb down. The cost of the different curbs used was put at \$4,000 a mile for stone, \$2,250 to \$2,500 for concrete and \$1,500 to \$1,800 for brick. This ten foot road cost about the same as the sixteen foot-\$11,840 for 6,000 feet-owing to the fact that it was laid out among the hills, where the grading was heavier, the hauls onger and harder and cracked stone

used in place of gravel. The ten foot roadway re-enforced with favor of sixteen foot roadways on the inated for governor in 1904. main traveled roads and approaches to tional Stockman and Farmer.

Mrs. Rose, A. White. The funeral of the late Mrs. Rose

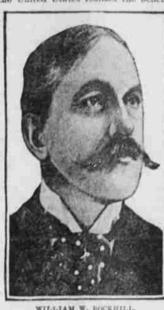
A. White was held Thursday morning

The rainfall this year is behind forsurvived by a husband and four childen compiled by O. A. Cheney, dren,

Mrs. Annie Stangel, The funeral of the late Mrs. Annie Stangel, who died Thursdey morning the Catholic cemetery.

New Ambassador to Russia.

William W. Rockhill, promoted from the post of minister to China to that of ambassador to Russia, is peculiarly MACADAM IS TOO EXPENSIVE. qualified for the St. Petersburg portfolio. President Taft's choice of Mr. Rockhill for the Russian post was based largely on his knowledge of the erly Constructed Brick Highways Position of Russia in China, with especial reference to the vexed railroad zone question. There has been con-Feet Wide Enough For Country Use. stant friction between Itussia and Washington county, O., has pretty China in Manchuria, notably along the question is filled with possibilities, and



that will follow the presence of an ambassador at the Russian capital thoroughly acquainted with the details. Another delicate diplomatic task he will be called upon to perform is that of securing from the Russian government the guarantee of proper treatment of Hebrew citizens of the United States traveling in Russia. That this step would be taken with regard to Jewish travelers in the czar's dominion was promised by Mr. Taft in the last Mr. Rockhill was assistant secretary

of state under Grover Cleveland. He has had twenty-five years' experience in the diplomatic service and has represented this country at several important posts in the orient.

"Morris," said the New Hampshire \$250 to me about the whales the south produces in avoirdupois. Pity you don't send some of them up here. Look at Oregon City; \$1. you. Why, I could slather a dime's

"And should you," replied Shepard, "as Alexander Stephens once replied Partsch, part of Lot Whitcomb DLC, to the same suggestion from Butler, township 1 south, range 1 east; \$1. you would have more brains in your stomach than you have in your head."

The New Senator From Illinois. Congressman William Lorimer of \$2400. ator from Illinois has again demonsummate skill. Senator Lorimer was that tied up the legislature for over four months. The victory restores to him the Republican leadership of Chicago and Cook county, which he held Company; \$10.

Senator Lorimer was born in Manchester, England, but came to this



WILLIAM LORIMER.

country when a boy. He got a start in \$2400. Chicago as a street car conductor and from that developed into politics. There E. and Carolina L. Wicklund, tract rapidly. By 1894 he had entered national politics, being elected to the house for the first of the seven terms to which he has been chosen.

seems wide enough for ordinary country roads and met the approval of most farmers I interviewed. There was a Cook county. His control was broken Acreage tracts; \$15. retty general sentiment, however, in when Charles S. Deneen was first nom-

the city.—Homer W. Jackson in Na- of age, and his private life is said to be above reproach.

at 11 o'clock at the Methodist Epismer years. The fall for April was copal Church of Damascus, and the only 75 of an inch. In May it was interment was in the Damascus cem- 1.15 inches and in June 25 of an Help for Those Who Have Stomach etery. Mrs. White died Tuesday aged inch. In the first week of July 1.50 55 years, from heart disease. She is inches of rain fell. These figures are

> CASTORIA The Kind You Have Always Bought

weeks or two months. She goes to New York, Chicago, St. Louis and other principal cities and will buy for our stores at Oregon City, Vancouver and Hillsboro, In this way we are able to buy at prices that other stores cannot touch and our customers receive Our Fall and Winter goods will be well worth waiting for, and further announcements will be made from time to time. Watch for them.

Our buyer, Mrs. A. Conlin, left Wed-

nesday for the East to be gone six

THE C C STORE

The man with the glassy eye and

Not by Ike Walton.

Tis to sit on the edge
Of a cool, mossy ledge
And dandle a fly o'er the mose of a fish,
—St. Louis Republic.

Wayward Willie.

"Gently, dear-you'll break the plaster.
-Cleveland Plain Dealer.

The Wings of Love.

"Time files." they say, my dear, and I Am satisfied it's true. But, goodness me, what makes it fly So fast when I'm with you? —Catholic Standard and Times.

The Voice of the Consumer

"What difference can a new deal make,"
They heard him tearfully exclaim,
"If still the same old people take
The same old rakeoff in the same!"
—Washington Star.

Will It Come to This?

Alicia-I understand the man who

The Time of Timidity.

.-Washington Star.

A hero is a man who dared Some peril not to be despised And never once felt truly scared

A Song.

Now sing a song of summer time
And raise a joyful shout—
The season of the speckled boy
And of the freekled trout.
—Lippincott's Magazine.

Couldn't evep Him.

Blox-Newpop is a great boaster.

Till he came to be lienized

Smart Set.

Corenlia McCown to George H. Web-ster, lots 6, 7, block 18, Gladstone;

glant, "why don't you grow? You talk to me about the whales the south problock 63; also westerly half of lot 7 and westerly half of lot 8, block 63. B. and Katie E. Gildner to Jas. D

worth of butter over you and swallow Waring, lots 5, 6, 7, to lot 22 inclusive Willie banged his sister's head 'Gainst the side wall fast and faster. block 17, Hyde Park; \$10.

Emillie Wagner Partsch to Edward Mamma only sighed and said,

> Emillie Partsch to Edward Partsch, lots 19, 20, block 7, Annex Addition to in her handling of the chafing dish."-

ator from Blinois has again demon-charles W. Risley to Lillian A. strated that he is a politician of con-Rickell, tract of land in Concord;\$1. Ross Woll Scouring and Manufacchosen on the ninety-fifth ballot by a turing Company to Multnomah Moconlition of fifty-three Democrats and hair Mills, tract of land in George fifty-five Republicans after a contest Wills D. L. C., section 24, township that tied up the legislature for over 1 south, range 1 east; \$10. Merchants' Savings & Trust Com pany to Mulinomah Mohair Mills

Portland Woolen Mills to Ross Wool for many years, and makes him a and Scouring & Manufacturing Compowerful factor in the Republican state pany, part of George Wills D. L. C., section 24, township 1 south, range 1 east: \$1

Genevieve Church to E. L. Thompon, 35 acres of George Wills D. L. township 1 south, range 1 east; \$1 married Celeste is wealthy. E. L. and A. I. Thompson to Port he can afford not to own an automoland Woolen Mills, tract of land in bile.-Chicago News. George Wills D. L. C., township 1 south, range 1 east; \$3250. Richard and Minnie Ellstrom to Alex B. Brooke, 40 acres of section

William and Susannah Dale to George E. Dale, lot 6, block 34, First Addition to Estacada; \$50. Lizzie and B. J. Anderson to Andew P. Swanson, 79 acres of section 11. 12, township 5 south, range 1 west; Charles W. Risley, trustee, to H. C.

township 3 south, range 5 east;

Munger, tract 8. Concord; \$1.

August Hornecker to J. M. Short,
16 acres of section 4, township 3

south, range 7 east; \$1000.

J. M. Short to J. O. C. Wiley, tract of land in Clackamas County; \$510. Joseph Hedges, trustee, to Lillian E. Hedges, lot 16, block 28, Gladstone;

Sarah J. Harlan to William and Clara A. Nicholson, 10 acres of sec tion 2, township 2 south, range 2 east;

as inspector of plumbing he progressed of land in P. Welch D. L. C.; \$100. J. F. and Martha E. Sanders to Albert A. Runyon, lots A and D., tract 59 Williamette Tracts: \$10. R. B. Beatle to John W. Loder, lot to which he has been chosen.

1. block D; lot 1 of block F, lots 1
For the last five years or so Senator and 2, block H; lots 1 and 2, block I;

T. F. Stilwell and Margaret J. Stilinated for governor in 1904.

Well to C. M. Oglesby, 2.87 acres of Exra Fisher D. L. C. No. 10, except one-half acre sold to L. and S. A. Freeman, and one-half acre to B. F.

Fred Eggiman, J. W. and Grace Loder to L and Blanche Mautz, lots 29, 30, Apperson's Addition to Glad-

Trouble.

After doctoring for about twelve years for a bad stomach trouble, and pending nearly five hundred dollars for medicine and doctors' fees, I purchased my wife one box of Chamber-lain's Stomach and Liver Tablets, which did her so much good that she continued to use them and they have done her more good than all of the medicine I bought before.—Samuel Boyer, Folsom, Iowa. This medicine is for sale by Huntley Bros. Co.

ALUMNI ELECTS OFFICERS.

preternaturally solemn demeanor put Annual Meeting and Banquet Held In

Brains and Avoirdupois.

Cy Sulloway is the biggest man in congress—that is, if one takes count physically. Morris Shepard of Texas is one of the smallest—that is, if he is measured on the same lines. They were sitting together at one of the Pennsylvania avenue botels the other.

Evan W. Jones and Mary Jones to C. B. Anderson, 50 acres of George Graham D. L. C. township 4 south, range 2 east; \$3150.

W. R. and ida J. Ellis to W. E. and C. G. Millard, 5.08 acres of Causey's were sitting together at one of the Pennsylvania avenue botels the other.

Corenlia McCown to George H. Walts. reading of the minutes of the last meeting by the secretary, Miss Winnie F. Jackson. The annual election of officers resulted as follows; J. Lee Caufield, president; Mary A. Scott, vice-president; Mabel Tower, secretary; Ona Renner, treasurer. business being transacted as the chairman fittingly said, "Business before pleasure." Those present betook themselves to the banquet table. Here seated around the hospitable hoard with the president, Clarence L. Eaton, acting as toastmaster, the m partook of a choice menu, after which Emille Partsen to Edward 1 | Improvement. |
block I, Lewellyn Park; \$1. | "Have you noticed that your daughHibernia Savings Bank to Elizabeth B. Mauley, tract No. 5, Atkinson; ter has learned much since she has been going to boarding school?" | to: "The Needs of the Oregon Laura Beatie; "The Oregon Spirit," J. Lee Caufield; "The Hesperian," Miss Mary Scott; "The Meds of the Oregon Control of the Oregon

vocal selection, Miss Ivy Roake; who responded to a hearty encore: Minnville College." Orel Welsh; "Cheney," Miss Mary Sandstrom; reminiscences, Mrs. Kate Hunsaker Nicholas; Mrs. Nicholas showed that the children of today are just the same as those of yesterday, and the eyes of many an elderly person sparkled with the recollections of their past pranks. G. A. Harding and Dr. A. L. Beatle, members of the board of school directors, were called upon and gave very interesting talks.

Taken as a whole perhaps this is the most successful meeting ever held by the association, and the executive committee certainly earned the vote of thanks, which was unanimously tendered them at the close of the ban-Felicia-Wealthy! Why, he's so rich quet.

They Had the Best of It.

The celebration of Saturday had all the best of it. Oswego, Wilsonville, Wright's Springs and Highland took third of July for the day of joy and gladness and were happy in taking time by the forelock. Molalla celebrated at Wright's Springs. There were speches, races and sports and a ball game, in which Molalla won, E. S. J. McAllister, of Portland, delivered the oration at Wilsonville.

Twenty-Five Cents is the Price of · Peace.

The terrible itching and smarting, Knox-That's what. Why, only yes-terday he was boasting about how most instantly allayed by applying loud his baby can cry.-Rocky Moun. Chamberlain's Salve. Price, 25 cents. For sale by Huntley Bros. Co.

Fine Stock For Sale

Full Blood Jersey Cattle

Cows, Horses, Goats, Calves, Sheep, Hogs

ALL AI STOCK

J. A. ZIMMERMAN HILLSDALE DAIRY

MILWAUKIE, R. F. D. No. 1

President Helps Orphans. helped by the President of the Industrial Orphan's Home at Macon, Ga. who writes: "We have used Electric

Jones Drug Co.

BIG DEAL AT DAMASCUS.