"Cow Capacity" Key to Success CARE NECESSARY FOR

"Cow Capacity" is what causes a cow getting ten pounds of grain a day to produce 35 pounds of milk, and another cow, under the same conditions are consistent of the form of milk which she and on exactly the same kind and amount of feed, to give only 20 pounds of milk, says the Larrowe Institute of

ferent than producing shoes or any convert into milk. A heavy producing other commodity except that we have cow can utilize a large amount of

producing ability that is more or less inherited," according to the Institute. "One shoemaker can turn out a pair of shoes to sell at five dollars while another cannot afford to sell them for less than seven dollars. There is a big difference in the production costs. Similar differences hold true in dairying. The breed of the animals, their feed, the quality of the animals, and their have their effect on the cost of their

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milk production. A good dairyman may be able to produce milk at a price that would financially cripple

Buying Power of the Farmer

1928

kind of feed they are fed and the "Producing milk is not much dif-

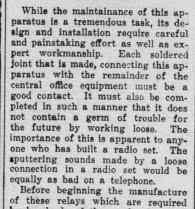
> feed, while the small producer wastes it. It is this cow ca-pacity that makes a more economical producer than the low producer.

"Many dairymen are misled by a false economy into buying 'cheap' feed cording to the Institute. "In most iufeed is not really worth as much at its price as another feed at a higher price. a group of cows on feed selling at \$54 a ton, averaged 81 cents worth of grain

1924

for every 100 pounds of milk produced. A similar herd on \$52 feed averaged 87 cents of feed for each hundred pounds of milk. This means another dairyman.

"Feed is the largest single item in milk production. It takes about the same amount of feed to keep a high \$3.60 less than the price asked for it."



by hundreds of thousands, the sam-ples must be put through a series of tests in the laboratories where they The purchasing power of farm commodities continues to rise. Latest estiare subjected in a few months to as many operations as they would normates show an average of 4.8 points higher for the first eleven months of this year than during the corresponding months of 1923, according to a report of the Sears-Roebuck Agricultural Foundation, based on the new index numbers mally be called upon to perform in many years of service. Weak points in design and structure can be thus Farm prices show a combined value of 134 on November 1, 1924, as compared with 100 in 1913. This combined index number includes 30 farm commodities which represent more than 90 per cent of the value of products sold detected and corrected before they are manufactured on a large scale. To a casual visitor to a central by farms, the Foundation points out. Using August, 1909, to July, 1914, as 100, the purchasing power of these products stood at 87 on November 1 of this year. office these relays with their neatlysoldered connections, are so numerous In 1918 the purchasing power was 106, decreasing to 69 in 1921. In 1922 it rose to 74 and by 1923 the average stood at 78. During the first eleven months of this year the purchasing power of farm commodities averaged 82.3 as compared that it seems impossible to pick out any particular one, yet experienced central office men with uncanny skill can go directly to any one that is Advances in grain, which averages about 22 per cent of the total value of farm products sold, and in price of meat animals, which averages 27 per cent, have been the largest factors in the increase of the farmer's purchasing operating in a faulty manner. Among the functions performed by these relays are the flashing of a signal light power since 1921. The grain farmer received during the early part of this before the operator when the receiver year prices about 10 per cent above the pre-war five-year average. This had risen to 30 per cent increase by July. At the same time the general price level of commodities the farmer has to buy ranges 30 to 80 per cent above the ment, the depositing of coins in pay

Less Hay on Cattle Menu

of farm prices prepared by the United States Department of Agriculture.

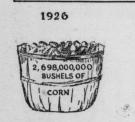


Last year they produced 87,000,000 points out. It is true that there are fewer live stock to consume this year's than usual.

with 77.5 in the same period a year ago.

THERE will be less hay on the live- hay crop. Most of the crop is eaten stock menu this year, due to the by cattle. Horses and sheep also reshort hay crop, says the Sears-Roe-quire large quantities. This year farmers devoted 59,080,000 acres to ers will produce only 78,900,000 tons, tame hay crops, such as alfalfa, clover, timothy and mixed crops. This is tons, and the five-year average crop is 90,000,000 tons, the Foundation acreage. This is expected to yield

Hogs Won't Have to Reduce



1925 FLOW STATE OF THE 2,905,000,000 BUSHELS OF CORN



SEARS-ROEBUCK AGRICULTURAL FOUNDATION HOGS won't have to go on a reduction than 40 per cent of the crop. This ing diet. They will have plenty year hogs have been scarce and have of corn to eat, in spite of a prospective short crop, which will amount to crop as normally. The corn year beabout 2,698,000,000 bushels this year, according to the Sears-Roebuck Agricultural Foundation. Last year the crop was 2,905,000,000 bushels, considerably larger than the five-year average crop of 2,849,000,000 bushels. This year's crop was grown on 101,000 acres and is rated to yield crop will be ample to meet all needs. 074,000 acres and is rated to yield crop, will be ample to meet all needs, 26.7 bushels per acre. More than 80 the Foundation estimates, so the hogs per cent of the corn crop is fed to live stock, and hogs consume more go hungry.

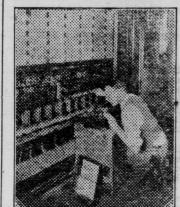
CENTRAL OFFICE WORK

Hundreds of Switches and Re-lays Involved in Single Telephone Call

To establish a telephone connection between two subscribers in a manu-ally operated telephone central office may require the opening and closing of a hundred and fifty electric switches, and in certain machine switching offices, nearly two thou-

switching omes, nearly two thousand, says a recent article in the Bell Telephone Quarterly.

These switches are operated for the most part by relays that are arranged in racks in the central offices and that look like condiment containers. In a moderately-sized office there are thousands of these pieces of apparatus that must work quickly and reliably. Periodic tests are mad in order to discover and repair faulty relays in order to prevent an inter-



station telephones, the ringing of subscriber's telephone bells and the establishment of a host of connections through the central office equipment itself.

VACUUM TUBES USED ON LONG DISTANCE

Telephone Circuits Require Tubes on Long Lines for Amplifying Voice Sounds

A vacuum tube similar to that in use on radio sets is needed for long-distance telephone wires. Like the amplifying units on a radio outfit the tube is used to intensify the voice sounds so that they are carried to their destinations with the same vol-ume as when they are spoken into

the transmitter. These tubes are placed in long-dis-tance telephone circuits over 800 miles long at intervals of from forty to fifty miles so that the voice currents, irrespective of the distance traveled, are

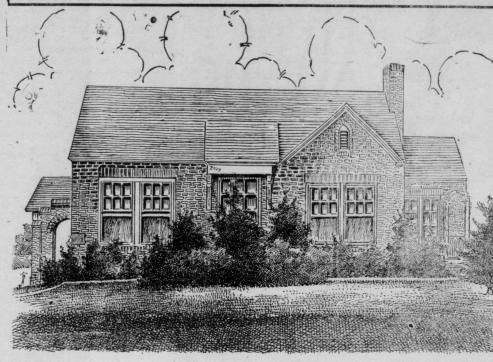
continuously strong and clear.

One of the first results accomplished through the use of these tubes was the reduction in the size of the copper wires used for long-distance conversations. Wire as thick as an overhead trolley feeder was formerly needed to talk from New York to Denver, Colorado. Nowadays, through the use of the tubes, together with the so-called "loading coils" and im-provements in cable, wire as thin as that used for local calls can be em-

ployed.
The "loading coils" are likewise needed on long-distance circuits. While it is possible to talk over short distances without them, their installation in the circuits about a mile apart serves to reduce the wire resistance and to neutralize the electrical ef-

fect of the copper wires on each other.
Telephone amplification is more
difficult than that of the radio because it has to be a two-way amplification. Radio fans do not find it necessary to talk back into the ether over the antenna while a one-way telephone conversation would be manifestly unsatisfactory.

Brick Gains Favor in California Bungalows



THE AHWANEE—Design A527 Most California bungalows in the past have

ALIFORNIA was chiefly responsible for the rapid jump into popularity of the bungalow of today, and there perhaps more than anywhere else is encountered this type of home in all its infinite variety. Illustrated herewith is the inspiration of a California architect of much experience with this notably in the Berkeley conflagration and in

type of home. It is essentially for a warm country and like all California bungalows has no basement. Its heating system likewise is confined to the one open grate in the living

But in other respects its arrangement is well worth consideration. The large, well lighted living room is certain to find instant favor, and even in the South there is charm about the big open grate. The dining room, directly in its rear, opening out upon a rear porch and in all probability into a patio, is a cleverly adapted Southern idea. To the left of the dining room is a cozy little

kitchen with a snug breakfast room and little artistic treatment. One of the greatest screened port's, the latter accommodating the charms of the brick home is its natural blendright, back of the living room.

ic- box and laundry trays, leading off it. The ing, under average conditions, with its surtwo bedrooms and bath are in the wing to the roundings, and the ease with which this effect

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can be developed and intensified.

been built more or less flimisly of a light

framework of wood and stuccoed, a favorite

base for the latter being ordinary chicken

wire. In several instances in recent years the fallacy of this has been effectually proved,

the Santa Barbara earth-

quake. In both instances this kind of construction

suffered tremendously.

Since then there has been

a decided preference for common brick which offers

stability and fire resistance

in addition to cheapness

Fully to bring out the

best points of this exceptional bungalow it should

be liberally shrubbed,

Something of the possi-

bilities are shown in the illustration, but one must

see the positive contrast of

greens and reds and yel-

lows of twig and flower

and brick to be able to

appreciate what can be

made of the picture by a

and economy.

kan kanala k "This thing can't go on!" exclaimed the shoe clerk, vainly trying to get a number two shoe on a number four

foot.-Boston Transcript.

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