

EFFICIENCY KNOCKS



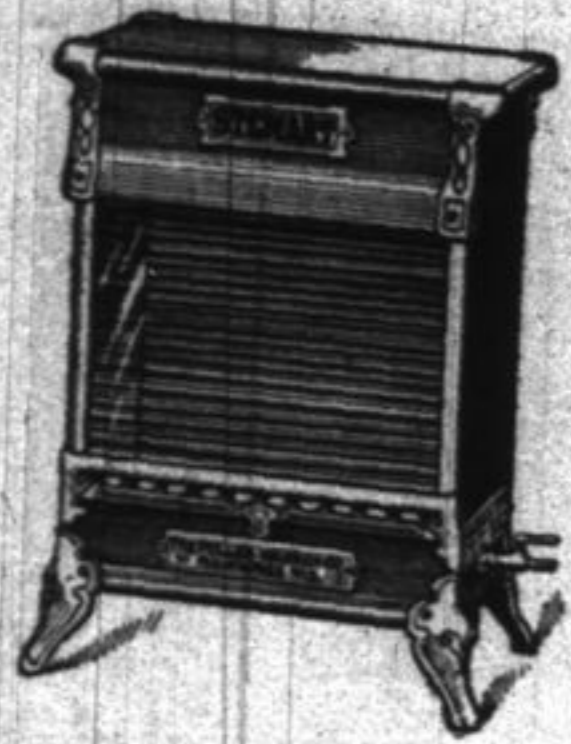
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SILAGE AND CONCRETE SILOS

How Farmers Are Building Solid-Wall Silos.

The principal source of profit in dairying, stock-raising, and farming lies in improving the quality and at the same time keeping down the cost of production. In this matter of profit and loss nothing plays such an important part as the question of feeds and feeding. The natural feed for animals, the one on which they do best, is green pasture. In climates subject to frost, man has made the same provision for animals as for himself by providing them in winter with canned green fodder called "silage." Silage is made most commonly from corn, cow peas, clover, sorghum, or alfalfa, merely chopped fine and stored in large water-tight cans known as "silos." In dry weather or in winter, when green pasture cannot be had, this feed is equally good in producing a flow of milk or in putting fat on animals. One acre of a crop harvested as silage will feed twice as much stock as the same amount harvested in any other manner.

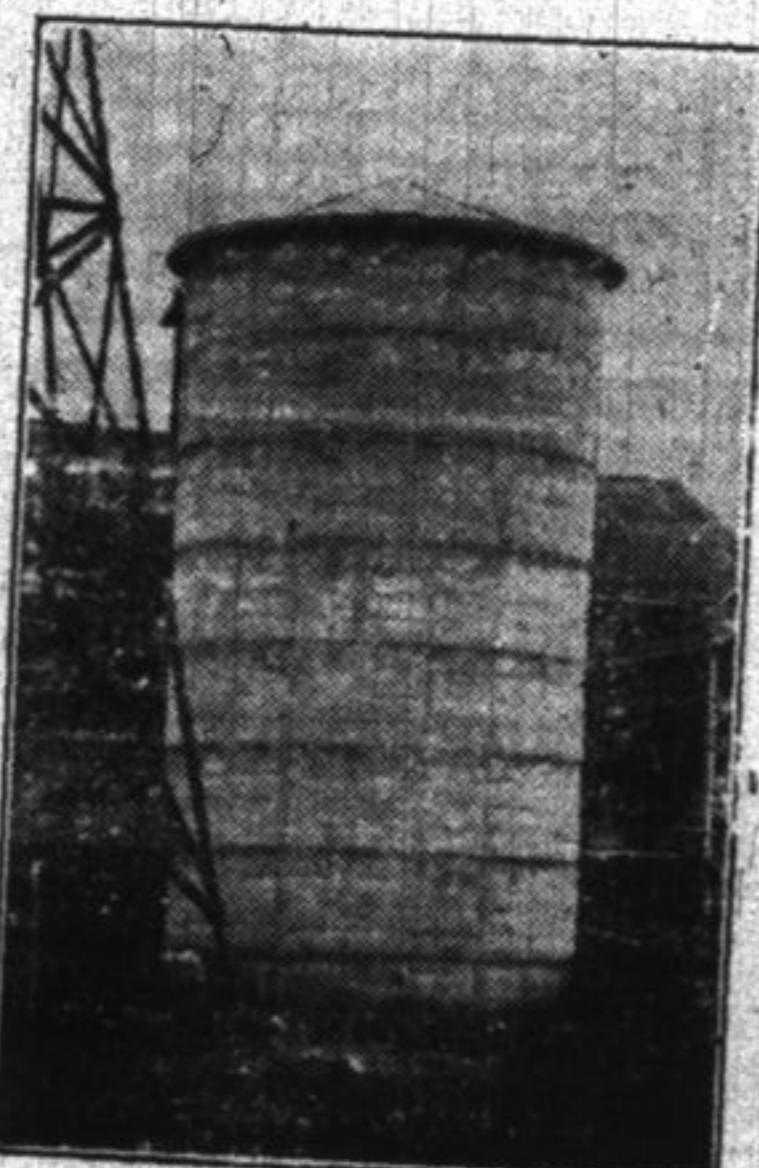


FIGURE 1.

Like a glass fruit jar, a silo must be water-tight and jointless to keep the silage from moulding or "dry firing." For this reason, and also because no painting or repairing is ever necessary, solid-wall concrete silos are coming into general use.

Selecting the Size of the Silo.
The best silos are built circular in shape. The size depends upon how many animals are to be fed daily, the quantity in pounds for each animal's daily feed, and the number of days it may be necessary to feed them. The silo should be of such size that a layer of silage at least 2 inches in depth will be removed each day after feeding has begun. This prevents a thin top layer from moulding. A dairy cow requires about 40 pounds of silage per day, and the following table is based on this amount. Forty pounds is also the average weight of a cubic foot of silage.

Number of Cows	Capacity in Cords	Capacity in Cubic Feet	Height in Feet	Area of Top in Sq. Ft.	Area of Bottom in Sq. Ft.	Area of Side in Sq. Ft.
1	1.0	36	10	3.14	3.14	113.1
2	2.0	72	12	12.57	12.57	226.2
3	3.0	108	14	28.07	28.07	339.3
4	4.0	144	16	50.27	50.27	452.4
5	5.0	180	18	78.54	78.54	565.5
6	6.0	216	20	113.10	113.10	678.6
7	7.0	252	22	153.94	153.94	791.7
8	8.0	288	24	200.97	200.97	904.8
9	9.0	324	26	254.34	254.34	1017.9
10	10.0	360	28	314.16	314.16	1131.0

It is frequently advisable to cut down the average daily ration or to use silage together with other feeds. With this thought in mind, and especially for dry weather feeding in summer, many farmers find it best to build two silos of moderate size instead of one large structure.

Location and Foundation.
Locate the silo where it will be convenient for feeding. Usually it is joined to the barn by means of a chute and passageway with doors. Since the silo and its contents are heavy, it must be built on solid ground. The bottom of the foundation should go below frost line. The silo may, with advantage, extend 4 or 5 feet into the ground. Dig the pit large enough to allow for the thickness of the circular walls and a footing 2 feet wide.

WANTED, FOR RENT, FOR SALE

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—FOR RENT—Part of furnished steam heated house; east side. Apply Press. pd
—TO RENT—In Chicago, one half block from lake, 60 East Elm Street; handsome suite of rooms, large sitting room, large bed room, private bath room, private telephone, sleeping porch; unfurnished \$3.00 per day, furnished and breakfast \$5.00 per day. Gentleman. References exchanged. 25-26 pd
—FOR RENT—Front store room 20x20, suitable for small business. Inquire Press office. tf
—FOR RENT—After September first, eight room house on Onwentsia Avenue. Apply to W. G. Reddick, Lake Bluff, Ill.
—FOR RENT—Deerfield—Modern 6-room flat. Desirable location for physician. C. Antes Sons & Co., Deerfield, Ill. pd 24
—FOR RENT—7-room house at Ravinia. All modern improvements. Also 6 and 4 room flats at Highwood. E. S. Gail, telephone 309. tf
—FOR RENT—Furnished rooms. Large convenient flat; 231 No. St. Johns Avenue; tel. 574. tf
—FOR RENT—Pleasant room in new bungalow, 5 blocks from station. Phone 799-W. tf
—FOR RENT—6-room flat, all modern improvements. Inquire of Alfred Hill, 53 Green Bay Road, phone 840-R. tf

FOR SALE
—FOR SALE—Modern poultry house 40 x 16, double floor, walls and ceiling. New and cheap for cash. Box 685, Highland Park. tf

SITUATIONS WANTED
WANT A SITUATION—J. M. Donsing can supply positions for men and women by day or week. State Bank Building, telephone 263. tf

HELP WANTED
—WANTED—Two bell boys at Highland Hall. Apply before Monday. 26
—GIRL WANTED—For general office work, one with knowledge of stenography preferred and one who is locally acquainted. Address X X Highland Park Press. 26 tf

—WANTED—Girl for general housework, 3 in family, no washing. Mrs. E. R. Phelps, 327 Prospect Ave., phone 262.
—WANTED—Young girl not over 18, to care for two children, ages 3 and 1. Must be neat and clean, willing and patient with children. Must go home nights. Tel. Highland Park 595 for appointment. 26

—WANTED—Lady clothes Ironers and girls to learn: Also seamstress to mend and sew on buttons. The Reliable Laundry Telephone 107. tf

LOST
—LOST—Small black pocketbook. Reward. R. G. Farwell, Onwentsia Club, Lake Forest. 26
—LOST—On C. & N. W. train leaving Chicago at 11:28 Friday, Aug. 23, or on road near Lake Forest, heavy pongee coat, belt in back, patch pockets, raglan sleeves. Liberal reward offered for return of same or information leading to its return, no questions asked. G. Mott, Highland Park, Ill. 26

FOUND
FOUND—On E. Central Ave., last Tuesday or Wednesday, small black purse. Owner can have same by identifying it and paying for this notice. Tel. 525. 26

MISCELLANEOUS
—Dresses and gowns made to order also remodeled and altered. Friedmann, 161 Green Bay Road, tel. 809-W. 26 pd

Making the Forms.
In order to save lumber the concrete is poured into forms which can be removed as the concrete sets or becomes hard. These movable forms consist of two circular shells 3 to 4 feet high, so made that one fits within the other with space between for a 6-inch wall. The horizontal framework consists of 2-by-4-inch timbers cut to a circle, which are covered with sheet metal or wooden lagging. Each piece must be long enough to provide for a 6-foot 3-inch length of the circumference of the circle as well as several inches for the lap or strap joints. The forms are raised by loosening them at the joints and setting them up again on the finished section of the silo.

Mixing and Placing the Concrete.
Concrete for silos should be rich in Portland cement and should be put in to the forms mushy wet. Mix it 1 part cement to 2 parts sand to 4 parts crushed rock. Four parts of clean pit or bank-run gravel may be used instead of the sand and rock. Measure all materials on the basis that 1 bar of cement equals 1 cubic foot. Many persons raise the concrete in buckets, but the work can be done more quickly and easily by using a horse together with a derrick or a well-braced boom fixed to an adjoining building.

Building the Silo.
The finished silo, Figure 1, is 15 feet in diameter (inside) and 36 feet high, of which 4 feet is below ground. At odd times all of the materials were hauled, so that there would be no delay when the work was started. After the pit was dug to solid clay, the concrete footings (2 feet wide and 1 foot thick) were placed and a 4-inch concrete floor was laid upon the natural clay bottom. The next day the forms were set up, the reinforcement placed and the walls begun. These forms were 4 feet high and were made in eight sections 6 feet 3 inches long.

Since silage contains so much water, steel rods are necessary as reinforcement to withstand the pressure. To get the best results, this reinforcing should be placed exactly 1 1/2 inches from the outside of the silo wall. Rods 3/4-inch in diameter and 10 feet long were used. The vertical rods were spaced 18 inches apart. Measuring down from the top of the silo, the horizontal rods were spaced as shown in the tables below.

Foot distance from top	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'
Spacing in inches	18	18	18	18	18	18	18	18	18	18

The horizontal rods were carefully made into solid hoops by bending the ends so as to hook together. They were also wired to the inside of the vertical rods. (Complete plans for silos may be obtained free from the Editor of the "Cement User," 1095 Stock Exchange Building, Chicago.) Two extra lengths were placed in the concrete 1 1/2 inches above the door openings, for removing the silage. These openings were made by a removable form (also cut to the circle), which fitted snugly between the molds for the silo wall.

The silo forms were filled with concrete and allowed to stand over night. The next morning they were loosened, raised and again filled. These operations were repeated daily until the side walls were finished. With a 4-inch concrete roof, the silo is entirely fire- and repair-proof. The roof was built on a temporary wooden roof, which was entirely removed after three weeks. The concrete roof is cone-shaped with a rise in the center of 2 feet and a drip or overhang of 1 foot. One inch from the underside this roof is reinforced with 3/4-inch rods laid like the spokes of a wheel and spaced 18 inches at a rim. Every other rod reached only half way to the peak of the roof. To hold the spokes in position so that the concrete could be forced between them and the temporary wooden roof, one ring of 3/4-inch rods was wired to this reinforcing just over the side walls and another half-way to the peak. These rods strengthen the roof greatly and must not be left out. Weather-soaked weather boards were used to form the circular edge of the roof. An opening for the blower tube from the cutter was formed in the silo roof in the same manner as the doors in the side walls.

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Notice of Letting Contract
Board of Local Improvements of the City of Highland Park.
Notice is hereby given that bids will be received for the construction of a vitrified tile sanitary sewer in Michigan Avenue, from and connecting with the present sewer in Green Bay Road, and from thence westerly a distance of 425 feet together with manholes and flushing connections in the City of Highland Park, Lake County Illinois, as a whole in accordance with the ordinance therefor. Said bids will be opened on the tenth (10th) day of September A. D. 1912, at the hour of eight o'clock p. m., at the office of the Board of Local Improvements in the City Hall of the City of Highland Park.



The specifications and blank proposals will be furnished at the office of the Board of Local Improvements in the City Hall in said City.

The contractor will be paid in bonds, which bonds will draw interest at the rate of five per cent per annum. All proposals or bids must be accompanied by a certified check payable to the President of the Board of Local Improvements of the City of Highland Park for the sum of not less than ten (10) per cent of the aggregate of the proposal. Said proposal must be delivered to the President of the Board of Local Improvements in open session of said Board at the time and place fixed herefor for the opening of the same. No proposal or bid will be considered unless accompanied by check as herein provided.

The Board of Local Improvements reserves the right to reject any or all bids if they deem it best for the public good.
JOHN OLIVER,
President of the Board of Local Improvements of the City of Highland Park.
Dated at Highland Park, Illinois, August 29, 1912.

LOVE AND CONSTANCY THEME
In "Putting It Over" Fifth Week at the Olympic, Chicago

"The course of true love never runs smooth" is an old adage, and in "Putting It Over," Ross Sterling, the law student, goes through three years of turbulence before he finally wins the heart of Ruth Noel, his father's ward. Although the young woman is separated from him during the three years, she remains constant. When she discovers that her sweetheart, whom she had at first believed to be a profligate son, possesses the highest qualities and morals and that he has temporarily given up the law to take up professional baseball to save his father from financial ruin and to protect her name, her heart goes out to him and the curtain goes down on the betrothal.

Lee Arthur and Frank Hatch have supplied the play with an air of high ideals and enough comedy to make it an excellent evening's entertainment, as is manifested by the rounds of applause which are heard at the Olympic Theatre at every performance.

Harold Vosburgh takes the part of Ross Sterling, the college hero; Miss Helen Holmes, that of Ruth Noel, the attractive ward. Other members of the cast are Edwin Holt, Frederick Burt, Royal Tracy, Franklin Ritchie, Francis Joiner, Joseph Woodburn, C. E. Harris, Alison Skipworth and Veda Steele.