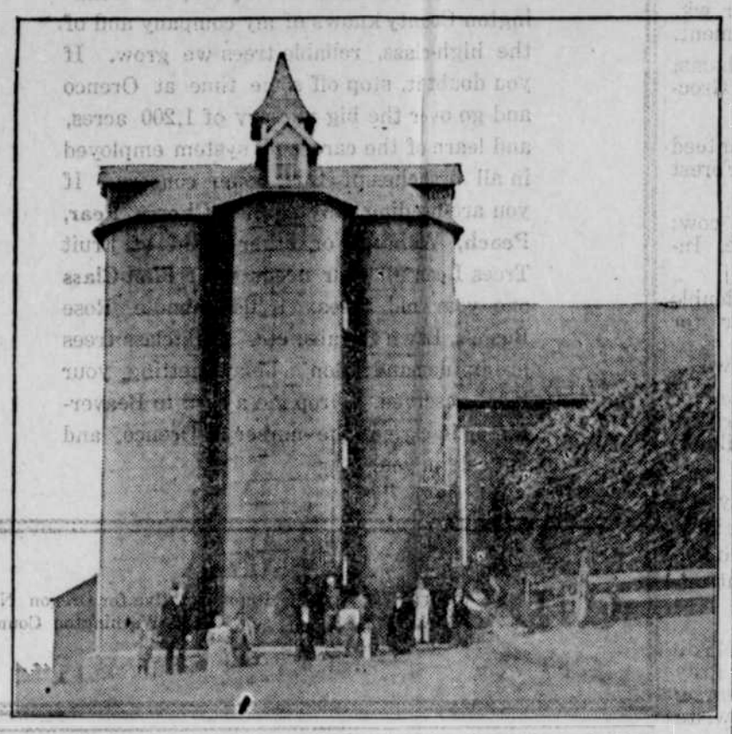
FREQUENT FAILURES MADE IN CONSTRUCTION OF THE SILO

Mistake Most Commonly Encountered Is That of Not Preparing for Outward Pressure of Silage—Walls Should Be As Nearly Perpendicular As It Is Possible to Make Them.



Modern Cement Silo on Fernwood Dairy Farm, Royersford, Pa.

Some of the failures of silos have been due to carelessness in filling, but more often to faulty construction of the silo.

Formerly many silos were made by sheathing one of the bays in the barn. With these silos and other forms of wooden square silos a lining must be built across the corners and the silage well tramped down along the edges or there will be considerable loss of what would otherwise be valuable stock feed. This style of silo, however, has become less common, and but few square silos of any kind are built at the present time. Even when silos are built inside of a barn they are often circular. The octagon silo is an improvement over the square form, but as a rule the walls of this form of silo have not been made rigid enough.

Too often the walls of silos are not made air-tight. Unless the walls of wooden silos are made air-tight, with tar paper, felt pads, or clay worked into the joints, much silage will be wasted. Ninety per cent of stave silos are not air-tight at the foundation. The shrinkage and swelling of staves breaks the cement, which must be frequently mended. Some losses have occurred because the ends of the staves have been decayed.

The iron bands of a stave silo must be examined frequently, or they will fall down as the staves shrink. Sometimes the iron splices rust. Unless a stave silo is well anchored it may be moved from its foundations or even blown down.

The walls of a silo must be rigid or they cannot stand the pressure. When the sides begin to bulge, air can get between the silage and the walls.

Brick silos without reinforcement have been failures because of the pressure from the inside.

The modern silo is a structure with air-tight walls and a height usually twice its diameter, and is strong enough to withstand the natural pressure of its contents when full. This pressure is greatest from two to six days after filling. The silage at this time begins to heat and settle, and, if the walls are not sufficiently rigid to prevent any bulging, a considerable loss of silage will result. The walls should be as nearly perpendicular as possible, and the diameter should be the same from the bottom to the top.

A mistake sometimes made was in building the silo of too large a diameter for the size of the herd so that the silage spoiled by too long exposure of the surface. In one case a man with a small herd built a silo in his barn 18 feet square and 16 feet high. After two years' trial he gave up the use of the silo in disgust because the silage did not keep.

A year or so later he sold his farm to a more progressive man, who built partitions across the same silo, making four small silos out of the large one, and had no difficulty in obtaining good silage for his stock. The silo should be deep. The deeper the silo the better the silage.

The diameter should conform to the size of the herd, and if two inches of silage are fed each day there will be no loss from surface exposure.

It is desirable to prevent silage from freezing. The double wall concrete silo and those built of rectangular building tile accomplish this object as well as any. Stone silos prevent freezing, but many owners of stone silos do not like them because moisture collects on the inside of the walls and rots silage along the edge. A roof helps to keep out the frost, snow and rain.

Don't Burn Off Pasture.

In the opinion of Professor Ten Eyck, it is a poor practice to burn off the pasture in late fall or early spring.

LABOR SAVING FARM MACHINE

Portable Gasoline Engine Can be Used for Shredding Corn, Sawing Wood and Other Jobs.

(By L. G. JOHNSON.)

Those who have never used a gasoline engine can hardly realize what a labor saving and profitable machine it is on the farm.

To do any and all kinds of work the farmer wants at least a ten-horse-power as the purchase price and the cost of running one is but very little more than the cost of a smaller one and with the larger engine you can do a great deal more work than with the smaller one.

With my engine I can drive a corn-shredder just as easily as a steam engine would and with much less cost as the engineer's wages are saved, besides the cost of fuel for steam power, which is greater than the cost of gasoline for the same power.

For ten hours' running of my engine, which is ten-horse power, it takes ten gallons of oil per day. This at eleven cents per gallon, makes the cost of running for ten hours $1.10—that is when running up to its full capacity.

But, when the work is not so heavy you can run on less oil. This depends altogether on what you are doing, or the power necessary to do it.

This same engine may be used for driving a wood-saw. All you need is a saw frame, a good-sized circular cut-off saw and about 40 feet of six-inch belt and you are well equipped for wood-making.

With this outfit two men will saw as much wood in five hours as four men will saw in ten hours with the common cross-cut saw and do it so much easier and cheaper.

I also use my engine for pumping water and running a cream separator. Through my milk house I have a line shaft and by means of small belts and pulleys I can attach my cream separator, my pump and a grindstone. By means of tight and loose pulleys I can run one or all of them at the same time.

This line shaft extends through the milk house and six feet into the shed. To this end of the shaft I connect my engine by means of a clutch coupling and when I want to use any of the above-named machinery all I have to do is to turn on the oil and let it go.

Of course to do several kinds of work with the same engine it is necessary to have the machine on portable skids so as to be able to move it from one place to another.

Ten-Horse Power Portable Engine.

The skids should be large and long enough to place the engine and tanks on the same base by having one end of the skids slanting like a sled runner.

It is an easy matter to move the engine from one place to another with a pair of horses.

Outbreak of Cholera.

When an outbreak of hog cholera occurs on a farm the herd should be quarantined and all possible precautions taken against the spread of the infection in the neighborhood.

Avoid Close Grazing.

Close or late grazing should be carefully avoided because the young plants need their green leaves in order to produce a vigorous root growth.

AIDING THE STRANDED

GOOD WORK DONE BY AMERICAN SOCIETY OF LONDON.

It Assists Yearly a Thousand Fellow-Countrymen Who "Go Broke," Either by Sending Them Home or Lending Them Money.

The American Society of London helps upon an average a thousand stranded Americans in a season. So far this year, however, only 700 have been assisted, the New York Sun's correspondent says. The officials of the society attribute the falling off to the stories about high prices that preceded the coronation. The society, which has been in existence for 12 years, has paid the passage home of over 10,000 persons and has supported numbers in London until the arrival of funds.

Only five per cent. of the money expended has been returned. This, however, is not considered proof of a lack of gratitude on the part of the recipients, as a return is not expected of most of the beneficiaries. Of those who have been expected to repay 20 per cent. have kept their word. A considerable part of the efforts of the society is devoted to the assistance of American sailors. The home government through the consulates assists American sailors on American ships, but American ships are few and the number of stranded American sailors is considerable. The society is doing a work that many think belongs to the government.

Despite the supposed non-existence of a color prejudice in England, the society has the utmost difficulty in securing the return of American negroes to the United States. A white man can be assisted and can get a working passage to any part of the country, but only three ports, Newport, Cardiff and Swansea, are available for the signing on of negroes.

It is noticed this year that a number of husbands have deserted their wives in England, leaving them stranded. This contemptible method of getting a divorce on the ground of desertion has been nipped in the bud in a number of instances this year.

Twenty-five per cent. of the applicants for assistance are not Americans, but Englishmen who think the society an easy means of getting free passage to America.

The usual story is that the applicants are naturalized citizens, but they are never able to present their naturalization papers. In previous years school teachers have made up a considerable percentage of the applicants, but with the development of personally conducted tours with all charges included, there is now scarcely a case a year. Only one-third of the sum expended is contributed by members of the American society. The burden falls, with a few exceptions, upon the Americans who reside in London.

F. C. Vanduzer, the honorary secretary, says that he could save American visitors many dollars if they ignored casual appeals and referred persons seeking aid to the society for investigation. For instance, this week a prominent American woman forwarded to the society a letter appealing for help. An investigation proved that the applicant for assistance was not an American but an Englishman who had been living for three years upon money obtained from easy going Americans who had been "falling" for his tale of hard luck.

Watch Talked in Hebrew.

I will say nothing of Greek; I should irritate myself too much. The monks of the Middle Ages were not so very much in the wrong when they asserted that Greek was the invention of the devil. Lord knows what I suffered through it. It went better with Hebrew, for I always had a great predilection for the Jews, although they to this very hour have crucified my good name, but I never could get so far in Hebrew as my watch, which had an intimate intercourse with pawnbrokers, and in consequence acquired many Jewish habits—for instance, it would not go on Saturday—and learned the hold language, and was subsequently occupied with its grammar, for often when sleepless in the night I have to my amazement heard it industriously repeating: Katal, Katalla, Katalki—Kittel, Kittalta, Kittalti—Pokat, Pokadti—pikat—pik—pik.—Heinrich Heine. Reisebilder.

Getting Her on Record.

"Am I the only man you ever loved?" he asked.

"Yes," she sighed.

"There is no rich man whom you ever cared to marry?" he persisted.

"No rich man I would marry," she said.

"Or no rich man you might marry if you chose?"

"No, but why do you ask these questions?"

"I just want to get you on record before our wedding so that afterward you won't be forever pointing out wealthy men to me as samples of what you might have had."—Detroit Free Press.

All We Want.

We're not over eager for the millennium to come; all we ask for is the arrival of the day when we can look after a furnace fire without scraping all the skin off our fingers.—Detroit Free Press

Don't Expect Kindness.

There are six sorts of people at whose hands you need not expect much kindness. The narrow minded think of nobody but themselves, the lazy are too indifferent, the busy have not time to think, the rich disregard appeals for kindness, the poor have neither spirit nor ability, and the good natured fool is not capable of serving you.—Home Notes.

Distemper

In all its forms, among all ages of horses and dogs, cured and others in the same stable prevented from having the disease with Spohn's Distemper Cure. Every bottle guaranteed. Over 500,000 bottles sold last year. $.50 and $1.00. Good druggists, or send to manufacturers. Agents wanted. Write for free book. Spohn Med. Co., Spec. Contagious Diseases, Goshen, Ind.

Sweet Singers.

In Japan there is a kind of frog very celebrated for his sweet voice. He is called kajiki, and people pay as much as $10 for a pair of these marsh musicians. A poet in Japan keeps scores of singing frogs at his home, and he sometimes gives a party to his friends, when after listening to the music every guest is asked to write a poem in honor of the singers.

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for Red, Weak, Weary, Watery Eyes and Granulated Eyelids. Murine Doesn't Smart—Soothes Eye Pain. Druggists Sell Murine Eye Remedy, Liquid, 25c, 50c, $1.00. Murine Eye Salve in Aseptic Tubes, 25c. $1.00. Eye Books and Eye Advice Free by Mail. Murine Eye Remedy Co., Chicago.

Uses of Nitrate of Soda.

Sodium Nitrate is the only nitrogen salt that can be used in solution, as all the other soluble salts of nitrogen become fixed as soon as they come in contact with the soil. However, they become available in a short time. The released sodium may correct soil acidity or may liberate calcium, potassium or magnesium from the soil.

RED CROSS BALL BLUE.

The blue that is all blue. Best for washing because it makes the clothes clear and white, lasts longer than liquid blue and produces better results.

Avoid liquid bluing because it is only a weak solution of blue in an expensive package. RED CROSS BALL BLUE is sold everywhere. Price, 10c. ASK YOUR GROCER.

Materially Inclined.

There is no landscape in the world that is agreeable after two days of rusty bacon and slack biscuit. "How lovely this would be," exclaimed the professor, "if it had a background of beefsteak and coffee!"—Charles Dudley Warner.

A Popular License.

Aviation licenses are being issued to young women now, but the majority will, no doubt, continue to prefer the marriage license.—Washington Herald.

Do your feet feel tired, achy and sore at night? Rub them with a little Hamlins Wizard Oil. They'll be glad in the morning and so will you.

Noiseless Furniture.

Irritating noises can be avoided by taking some old felt hats, cutting out from these disks about the size of a quarter and securely fastening them to the bottoms of the legs of all chairs, tables and other movable articles not provided with casters. This also prevents the scratching of polished floors.

Caution.

"Are you giving credit now?" asked the man who had returned to his old home. "No," answered the proprietor of the general store." "What has become of that old sign you had over the counter, 'No Trust'?" "I decided to take it down. I was afraid some of the corporations that supply me with goods would misunderstand it and take offense."

Still a Woman.

Tillie Clinger says that although she is naturally strong-willed and self-governed, practiced in restraint and poise, if a rich widower were to get down on his knees to propose to her she is afraid she would fall on hers and thank the Lord.

Where He is Wrong.

In reality anything is good enough for the man who thinks nothing is too good for him.

Particularly the Ladies.

Not only pleasant and refreshing to the taste, but gently cleansing and sweetening to the system, Syrup of Figs and Elixir of Senna is particularly adapted to ladies and children, and beneficial in all cases in which a wholesome, strengthening and effective laxative should be used. It is perfectly safe at all times and dispels colds, headaches and the pains caused by indigestion and constipation so promptly and effectively that it is the one perfect family laxative which gives satisfaction to all and is recommended by millions of families who have used it and who have personal knowledge of its excellence.

Its wonderful popularity, however, has led unscrupulous dealers to offer imitations which act unsatisfactorily. Therefore, when buying, to get its beneficial effects, always note the full name of the Company—California Fig Syrup Co.—plainly printed on the front of every package of the genuine Syrup of Figs and Elixir of Senna.

For sale by all leading druggists. Price 50 cents per bottle.

Immense Bird's Eggs.

The largest known bird's egg is that of the extinct aepyornis of Madagascar, of which the museum of New York has now a specimen. It has a capacity of two gallons, measures 26 inches round the middle, and the shell is one-eighth of an inch thick. The largest egg of a living bird is that of the ostrich, which is equal to about thirty-six hens' eggs.

Homemade Perfume.

Into a bottle holding two ounces alcohol put one-half ounce orris root, broken into fine pieces. Add to this a bunch of newly gathered rose petals. Cork the bottle tightly and shake well. After it has stood ten days, a few drops on the handkerchief will give the scent of fresh roses.

Municipal Reform in Georgia.

For several years there has been a law forbidding the running of bulls loose on the streets. This law has not been enofrced for several years, but it does seem that it should now be enforced, as there are several such animals now at large.—Blackshear Times.

Evidently He Was Jealous.

A strange plea for divorce was unsuccessfully put forward in the French courts recently by a man who complained that his wife had allowed her photographs to be used on picture postcards against his will.

Have One Doctor

No sense in running from one doctor to another. Select the best one, then stand by him. Do not delay, but consult him in time when you are sick. Ask his opinion of Ayer's Cherry Pectoral for coughs and colds. Then use it or not, just as he says.

Ayer's

We publish our formulas
We banish alcohol from our medicines
We urge you to consult your doctor

Always keep a box of Ayer's Pills in the house. Just one pill at bedtime, now and then, will ward off many an attack of biliousness, indigestion, sick headache. How many years has your doctor known these pills? Ask him all about them.

—Made by the J. C. Ayer Co., Lowell, Mass.—

"How did that murder trial come out?" "In the usual way. The defendant, two bailiffs and several of the witnesses are going on the stage."—Louisville Courier-Journal.

A Drop of Blood

Or a little water from the human system when thoroughly tested by the chief chemist at Dr. Pierce's Invalids' Hotel, Buffalo, N. Y., tells the story of impoverished blood—nervous exhaustion or some kidney trouble. Such examinations are made without cost and is only a small part of the work of the staff of physicians and surgeons under the direction of Dr. R. V. Pierce giving the best medical advice possible without cost to those who wish to write and make a full statement of symptoms. An imitation of natures method of restoring waste of tissue and impoverishment of the blood and nervous force is used when you take an alterative and glyceric extract of roots, without the use of alcohol, such as

Dr. Pierce's Golden Medical Discovery

Which makes the stomach strong, promotes the flow of digestive juices, restores the lost appetite, makes assimilation perfect, invigorates the liver and purifies and enriches the blood. It is the great blood-maker, flesh-builder and restorative nerve tonic. It makes men strong in body, active in mind and cool in judgment. Get what you ask for!

Endurance Tests.

"I kind of wish," remarked the government employe, "that they'd give me another kind of an endurance test." "You want physical exertion?" "Yes. I wish that for a change they'd let me see how many miles I can ride on horseback instead of how many hours I can sit at a desk."

Mothers will find Mrs. Winslow's Soothing Syrup the best remedy to use for their children during the teething period.

Test Time Failed.

Jean is a very matter-of-fact tot of three summers. Her mother one day, while holding in her arms the wee baby sister, who was very delicate, remarked: "Dear me, she looks so frail a breath would blow her away." Jean, taking a long breath, puffed it suddenly into the face of the little sister, and, stepping back, waited a moment in silence. Then in a disappointed tone she said: "Well, why don't you go?"

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Just out. Highly nickel-plated globe that throws off germs. Strongly endorsed. No odors. No disinfectants. Easily put on phone. Lasts forever. Always clean. On receipt of price, $1.0', we will forward complete device ready to put on phone. Exclusive agents wanted in every town. Address Phono-Globe Company, 422 Monadnock Building, San Francisco, Cal.

Sacrifice Not His.

Note in the Ceylon Independent: "Dear Sir—Mudalizar Harry Jayawardana has evidently forgotten that he handed me his hat at the cremation of the late high priest. I am sorry I failed to inform him before that, carried away by the sentiment of the moment, I flung it to the burning pyre, hoping for future merit. May the merit be his, as he was the owner of the hat!"

Dissolving Alum.

When alum is intended for external use, where it is purposely to callous the flesh, as in the case of fever blisters and heated or even frost-bitten feet, if it is dissolved in alcohol it will be twice as effective. The alcohol is quickly absorbed by the flesh, carries some of the dissolved alum with it, and, therefore, less applications will be required to achieve the desired results.

Would Change Sleeping Position.

A French doctor, M. V. Fischer, advocates a complete reversal of the present method of making up beds. You must have your head on a level with, or lower, than your feet. If pillows are to be used they must be under the feet instead of the head. The result, he claims, will be amazing, being a sure cure for insomnia as well as a preventive of nightmare.

Men's Inhumanity to Man.

Some men, when they are arrested on a serious charge, are sent to jail. Others, like one in New York, fare much worse. The magistrate told his wife to take him home and tell him what she thought of him.—Rochester Democrat and Chronicle.

No Room for Improvement.

It was about 1720, at Amsterdam, that Fahrenheit made his first thermometer, which has served as a model ever since.

Buggins—My father is over 80 years old and has never used glasses.

Guzzler—Always drinks from the bottle, eh?—Philadelphia Record.

Draws the Line at Flies.

We try to sympathize with our dumb animals in their afflictions, but somehow it is rather difficult for us to feel very sorry for the common house fly who ventures too far into our paste pot.—Ohio State Journal.

Any Distress After Meals?

Have you heartburn?
TRY THE BITTERS
Do you belch or bloat?
TRY THE BITTERS
Digestion weak—bowels clogged?
TRY THE BITTERS

HOSTETTER'S STOMACH BITTERS

is 58 years old and has helped thousands back to health. It tones—rebuilds—nourishes.

CANADIAN FARMS

Do you want a farm in Western Canada where the crops this year are in advance of anything grown on this Continent? For wheat-growing, dairying, mixed farming and cattle-raising the Province of Alberta is unsurpassed.

Lands are now offered by the Canadian Pacific Railway Company at prices ranging from

$10 to $30 an Acre, On Long Terms of Payment or on the Crop-Payment Plan,

that is, paying for your farm with a portion of your crops each year.

Land values have increased 30 per cent in two years.

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