

Address communications to Agrenomist, 73 Adelaide St. West, Toronte.

Cleaning Milking-Machines. be used in cleaning the tubing, test-The Allowing method of cleaning cups and inflations. The best results will be obtained if a soda solution is milking-machines be practical and should give good reaulta

After each milking, immediately rinse the machine with cold or luke-warm water. This is done by attach-ing the machine to the pump line, and immersing the teat cups in a pail containing the rinsing water. It is best to break the flow through the machine by pulling the cups out of the water and then immediately immersing them again; this should be done ten or twelve times.

In another pail, containing hot water and a soda solution, repeat the same procedure. At this time, wash the outside of the teat-cups and rub-ber tubing. Run the brush in teat cups. Repeat the process, using clean rinse water. Draw a chlorine solution through the machine (chlorine solution described later).

Detach long milk tubes from the head of pail. Plug air tubes (in the inflation type of machine), and place the teat-cups and tubing in a chlorine sterilizing solution made fresh every day. It is important that the tubes be placed in the solution carefully, so that no air pockets will remain. Place the tubing in the solution slowly, and in such a manner as to allow the air to be expelled.

Wash the buckets and covers thor oughly after each use. These should be washed in the same manner as is recommended for milk pails and cans, and thoroughly sterilized with steam.

When the units are assembled for milking, be sure that all liquid has been drained out of the air system. (This system should have been plugged, but it is best to be sure that no water has leaked in, as moisture will sometimes interfere with the pulsations.) After assembling is completed, rinse units with clean, fresh water.

Twice each week the machines must be taken completely apart and washed thoroughly. Brushes should



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used. Never use soap. Every two weeks clean out the acuum line. This is done by drawing hot soda solution through the pipe line by means of the vacuum. construction of the line permits this olution to be drained out of the line. Usually provision is made for it near the pump. If at any time milk is drawn into the vacuum line, clean the pipe immediately after milking.

The moleture trap on the head of the machine (cover of the bucket) should be cleaned after each milking. To make the chlorine solution— Dissolve a twelve-ounce can of com-mercial chlorinated lime in two gallons of water. Strain into a crock or glass jar, discarding the sediment. Cover and keep in a cool, dark place This is known as the stock solution,

This is known as the book of the solution in and will keep a long time. To make the chlorine solution in which the tubing and cups are kept, use one pint of stock chlorine solution to every eight gallons of water. This diluted solution should be used but twenty-four hours. Make up new solution every day.

The crock or box in which the tubing and cups are kept should be kept covered and clean at all times. The

presence of slime or dirt in the solution will destroy its usefulness. The machine must be thoroughly washed before any of the parts are placed in

the chlorine solution. In preparing the cows for milking, the same care should be used as in milking by hand. It is necessary that the teats be very clean if a clean milk is to be obtained.

Make Concrete Floors When You Need Them.

Just now is when concrete feeding floors and sidewalks are most needed -in snowy, sloppy weather.

"But we can't do concrete work in freezing weather, can we?" some folk ak.

The best answer is the experience of scores of farmers who are doing concrete work in winter; they heat the water, cement, sand and gravel, and after the concrete is in the forms, cover it with canvas and straw. Laying concrete floors inside the barn or hog house in cold weather is not attended with such great danger from reezing.

It is necessary to so mix, place and protect the concrete that early hardning will be complete before the work s exposed to freezing temperatures. To do this:

1. Sand and pebbles or broken stone used must be free from frost or lumps of frozen materials.

2. If these materials contain frost or frozen lumps they must be thawed out before using. 3. As cement forms but a relatively

small bulk of the materials in any batch of concrete, it need not be heat-

4. Mixing water should always be heated.

Although adding common salt to aside as regular work days. Although adding common sait to aside as regular work days. mixing water will prevent freezing of fresh concrete until it has had time tion, others saw that the plan was gas required for one. to harden, there is a limit to the quan- good, and asked for admittance. The tity of salt which may be added if members decided to do the work on the final strength of the concrete is a cash basis for these non-members

When you pay 30 cents for a half-pound package of Red Rose Tea(Crimson Label) you get exactly the same tea for which you formerly paid 35 cents a package.-Quality in Red Rose Tea is the first consideration.

mediately after mixing, it will lose spring," Mr. Bartlett told me. much of its heat if not protected from sawed wood, cleared land, and cut posts and logs for each other. We low temperatures, at once. Therefore protect the concrete immediately after, have purchased a light truck on which to haul the machine, and it does not placing. Canvas covering, sheathing, housing-in the work, or hay or straw properly applied will furnish the re-quired protection for different jobs. In addition to these means, small oil or as it ceases. This enables us to get coke-burning stoves or salamanders a job done in quick time. can be used in enclosed structures. "A correct list of all expenses, as Guard against dry heat.

Temperatures which may not be low enough to freeze the concrete may, nevertheless, delay its hardening for times, which prevents misunder-standings. We do not try to make a considerable time. Do not expect concrete placed when the temperature a profit, but rather to do a community is low, and remains low for some time afterward, to be safe for use as soon as when placed duning warmer weathfarmers ten miles away."

er. If concreting is unavoidably de layed or interrupted, the work should be covered until concreting is again begun. Cover and protect each section of the work as soon as completed. In severe weather continue this progive and take-which, after all, is the tection for at least five days. Do not remove forms from concrete work too

soon. Frozen concrete sometimes very closely resembles concrete that has thoroughly hardened. When frozen concrete is struck with a hammer it will often ring like properly hardened concrete. Before removing forms, examine the work carefully to see whether it has hardened or simply frozen. To determine this, remove one board

flame of a plumber's blow-torch or a jet of steam under pressure against the concrete. If the concrete is frozen. the heat will soften it.

A Good Way to Cut Your Fuel Bill.

Last winter several farmers in a neighboring community found a way with brush, old hay, cornstalks, on to beat the "high cost of fuel." This anything I have that is of no value

how they did it: how they did it: Harry Bartlett had five acres of and which he wanted cleared, and the three feet apart, and in each hole I land which he wanted cleared, and the trees made into fuel. He secured two place a stick of twenty per cent. dynamen and started the job. Bartlett mite primed with a No. 6 blasting cap attached to a piece of good fuse. Battery and electric fuses may be soon saw that he was paying out more than his wood was worth, and that he might have to spend a fuelused, but the fuse and cap is the less winter. Rains set in, roads were cheapest method. The force of the bad, and the prospect of coal was explosion finished the work of filling poor.

He knew that several neighbors were in the same shape, so one even-ing he talked to eight farmers about community plan, and six agreed to it. The following day the six men met, elected a secretary, and decided mite used is a small item in com-parison with the value of the imto purchase a wood saw and engine.

All agreed to share expenses equal-ly, and also to share alike in either profit or loss. To guard against two parties wanting work done on the same date, they arranged the names

according to distance and the amount of work to be done. The first and last Tuesdays in each month were set

The Growing Child-Article VI.

well as profits, is kept in the secretary's ledger," continued Bartlett. "This is open for inspection at all is discharged freely and cools the cause strain in even a normal eye. body by its evaporation. When it is A slight degree of farsight is nor-cold the blood vessels contract and mal on young children and need cause keep the blood in the inner parts of no special concern other than to avoid service. Our own locality comes first. although we often receive calls from

Clothing should be warm enough to It isn't a complicated process to organize a community co-operative association such as these men did. protect the body from undue chill, but if not corrected, may lead to very if it is too warm it makes one dull All it takes is the need for it, and and sleepy and weakens the machinery for temperature regulation in the the willingness of the organizers to skin. People who bundle up to warmly catch cold more often than hose who dress too lightly, although the body must always be protected from sudden chills and cold to which it is unaccustomed. Woolen clothes are good for cold weather because they are porous and hold a good deal of air, which is a poor conductor of heat, and because they take up mois-ture readily and thus protect the body from chill after exercise has made the sweat flow. Cotton clothing is cooler and softer to wear next the skin and

is better for warm weather. Bathing is necessary, first of all, to remove dirt from outside and to wash off the waste materials deposited on the skin by the evaporation of the sweat, which soon produce an un-pleasant body smell if they are not removed. It has also, however, an important influence upon the heat-regulating machinery of the skin. Warm baths increase the size of

the blood vessels in the skin and draw the blood away from the brain, making one feel comfortably sleepy. This why a warm bath is usually taken at bedtime.

A cold bath on the other hand, con tracts the skin blood vessels and drives the blood to the brain and nakes one feel alert and keen. Cold bathing is a powerful tonic to the skin, since it trains the blood vessels to respond quickly to changes in temdrag harrow to smooth over the dirt and the place once occupied by the peratures. People who take cold baths regularly are likely to be hardier and gully can now be used for sowing seed. The work can be done in a very as subject to colds than others. much le It should be remembered, however, short time and the cost of the dynathat some people do not bear cold baths well.

Lateral Curvature of the Spine. Broadly speaking, lateral curvature

of the spine may be divided into two To-day is none too soon to start classes-functional and structural making up your list of seeds, bulbs, though there seems to be an interand nursery stock for spring planting. mediate or transitional stage between the two. A functional lateral curve Pots and saucepans are now made is a postural one, of mild degree, in emicircular, with one flat side, so that two of them appear as one when placed together. By this device two which no actual change in bone has taken place. In a structural, or ordishes may be cooked at once with the

ganic, lateral curve, certain changes have occurred in the bones of the spine and the ribs. These may vary from the mild case, in which these Read this twice: Which is the changes are not extensive, to the exclude direct sunlight. In addition to severe form where the alterations in these, light colored translucent shades

Keeping the Skin Healthy. The skin is one of the principal organs of exerction. The body in its life activity is constantly forming waste products somewhat as a fire forms ashes in the process of burn-ing. The kidneys and the liver, the lungs and the skin, all play a part in getting these wastes out of the called the sweat glands which have this work to do, for the waste products of the body. Another of the skin does for us to help regulate the body temperature. It does this by automatic changes in the size of the locd manned to the sevent is the size of the body temperature. It does this by automatic changes in the size of the locd manned to help regulate the body temperature. It does this by automatic changes in the size of the locd manned to help regulate the body temperature. It does this by automatic changes in the size of the locd manned to help regulate the body temperature. It does this by automatic changes in the size of the locd manned to help regulate the body temperature. It does this by automatic changes in the size of the locd manned to help regulate the body temperature. It does this by automatic changes in the size of the locd manned to help regulate the body temperature. It does this by automatic changes in the size of the locd manned to help regulate the body temperature. It does this by automatic changes in the size of the locd manned to help regulate the locd manned to help re

It does this by automatic changes in near the eyes, or to assume a stoop-the size of the blood vessels of the ing position while at work in school, skin and by changes in the amount of as too fine print, insufficient light, or sweat. When it is hot outside the unsuitable desk' or chair, may result skin blood vessels expand and carry in the development of a more serious a larger amount of blood through the degree of nearsightedness. An exskin to be cooled off, while the sweat cessive amount of near work will

the body, while the sweat glands cease overmuch near work. Marked far-to discharge moisture in visible form. sightedness, however, is one of the most serious causes of eyestrain, and harmful results.

Astigmatism is the effect of irregularity in the shape of the cornea (the clear part of the cychall. This pro-duces blurred vision because the child can see better in one meridian than the other. If the astigmatism is slight the eye corrects the fault by using its power of accommodation, but this entails strain. Hence, astigmatism ranks with farsight as a cause of eyes strain. It is also one of the causes of faulty posture, since the child na-turally turns his head and twists his body till he gets into the position where he can see best.

Squint, or cross-eye, is one of the very serious defects of the eye, the importance of which many parents fail to realize. Though they, of course, are troubled with its effect on the ap-pearance of their children, they do not understand that unless the defect is corrected early in life (by the sixth or seventh year) there is great danger that the vision in the affected eye will be greatly impaired if not lost altogether.

If treatment is begun early, even in infancy, if observed then, the eyes may usually be straightened by glasswithout an operation.

Any evidence of eyestrain or defec-tive vision should call for an examination by an oculist. Painful, watering, or congested eyes, twitching or sord lids, sensitiveness to light, frowning peculiar position of the head, difficulty in seeing work on the board, hold-ing the book near the eyes, poor spelling or reading, blurred or double vision, headache (common), fatigue, nervousness, dizziness, sleeplessness irritability and lack of control are among the symptoms of cyestrain. Every effort should be made in both

home and school to conserve the vi-sion of the child. The light should sion of the child. The light should come from the left and the rear. In schoolrooms the windows should be massed on the left side, toward the rear, with none in the back of the room because the teacher's eyes of looking toward the light.

The window glass space of a school-room should be about one-fourth of the floor space, and all windows should reach almost to the ceiling. Opaque shades should be used severe form where the alterations in the should be used. The combination up the banes are marked and the de-should be used. The combination up formity is extreme. It has been found that about 25 per justable roller should be substituted The coloring of the room should be Lateral curvature may be due to white, and the walls may be buff, pale For further protection of the eyes of school children, the textbooks be seated where he will have sufficient light, and the program of near work should be broken by periode when there will be no tax on the eyes. case of younger children.

from some section of a form, pour hot water on the concrete or turn the

Stopping Gullies and Washes. I live in a part of the country where the land is hilly, and the fields

sloping and subject to soil washing, such as gullies and ditches. When I notice a wash starting in one of my fields, I fill the wash with old hay,

asis of all true co-operation.

straw, or almost any worthless ma terial. I pack this tightly in the wash because it will make the wash fill up

with rich soil. Then I use a little fine manure and sow grass-seed; and, in a short time, the place occupied by the small wash will be covered over with a heavy sod.

I fill the large gullies about two thirds full of various kinds of ma terial, as it would require too much soil to fill them. In the bottom of the gully I use stone, which I cover

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-heat and warmth. It delays, instead of hastens, the hardening of the concrete to the desired perman-

Sand and pebbles or broken stone and mixing water must be heated so that the concrete when placed shall have a temperature of from 75 deg. to 80 deg. F. Some sands are injured by too much heat. The same applies to certain varieties of pebbles and broken stone. A temperature not ex-

Warm the metal forms and rein-

a cash basis for these non-members to give that boy of yours an acre of the freezing point of the mixing water; it does not supply what is most taken in exchange. aken in exchange. "We paid out on the outfit before kinds of Cain?

provement.

Are You Prepared to Fight a Fire?

A little group stood in front of the mixed, carbonic-acid gas is produced post office discussing the fire at the George Halsey farm. It is gas is thrown on the flames.

"Didn't George have any insurance?" someone inquired.

forcing before placing concrete. Re-move ics and snow and frozen con-when first discovered; that if there etc.

move ice and shown crete remaining on the forms from preceding work. Forms can be warm-ed by turning a jet of steam against them or by wetting with hot water. Even though materials have been heated and the concrete placed im-beak is to account the state was too late. A brisk wind above sero, the acid ordinarily at these stood for awhile the acid ab-state moisture from the air, causing hips are uneven. In all cases the and everything went." Every year the fire losses in this country total the enormous sum of about \$25,000,000. This is the actual loss, without considering the sacrifice of life and the many millions of dol-lars necessary to maintain fire depart-ments and fire appliances. Yet ex-perts tell us that by the timely use of chemical fire extinguishers the of chemical fire extinguishers the loss at many of these fires could be er containing carbon tetrachloride or

kept down to a few hundred dollars, something similar is highly effective Chemical fire extinguishers are espe- against gasoline or oil fires, hence it Chemical firs extinguishers are espe-against gasoline or oil fires, hence it cially valuable on farms where the is much used in automobiles and garwater supply runs low at certain sea- ages. A fifteen per cent, reduction on sons of the year, or where a fire de- the fire insurance premium for auto-

partment is too far away to be de- mobiles is usually allowed, when the The type of chemical fire extin- tinguisher of this kind, pended upon.

guisher most commonly used is the Fire extinguishers, like other fire acid-bicarbonate type. This consists appliances, should be inspected regu-of a copper container holding a solu-larly; their chief value lying in their

acid. When the two chemicals are firs,

cent. of school children are affected for the old-fashioned shade. with some form of lateral curvature, The coloring of the room s the larger proportion of which is the such as to reflect the light without functional type.

any one or more of many causes, and tan or gray (either creamy or with in some cases it is impossible to point just a touch of green). to any particular cause. In general this gas is thrown on one names. Carbonic-acid gas is the gas found in the second time is the solution of any condition that causes the should be printed on white, unglazed solution in these spine to be held habitually in a curve paper, with large print, short lines of position during the growing period, and wide margins. Every child should a solution in these of position during the growing period. broken storts. A temperature not ex-ceeding 150 deg. F. will generally prove most satisfactory. Place con-crete immediately after mixing so that none of the heat will be last before favor its development.

Since it is true that lateral curvature may be associated with either Especially is this desirable in round shoulders or a flat back, the

know whether the curve is functional everything, positively everything be or structural, the examination should fore adoring himself.--Remy de Gourg

occasionally difficult, even for an expert, to make a sharp distinction between these two forms of curvature. The treatment of postural, or func-

tional, lateral curvature is mainly by means of corrective gymnastic exercises. Hence, since this condition is reas, rence, amos this condition is very common in children, every par-ent is naturally vitally concerned in the establishment of adequate physi-cal education for all the children of the country,

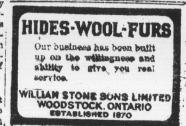
tion of bicarbonate soda, with a sep-arate glass bottle containing sulphuric heuse or buildings against the demon one-fourth of the population is more or less handlespeed by some defect,

Ontario's field crop value reached the record figure of \$396,000,000 in 1920.

The male of the honey-bee comes between the queen and the workers in size, and is stingless.

all cases the Modesty is the essential character-e examined, and datic of mankind. The history of religions proves it, for man adored

Many farmers are pooling their in-terests and purchasing fertilizers to-gether in carload lots. Have you tried



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none of the heat will be lost before water handy; the spring that supplied handle to break the acid bottle. Anthe barn had run dry. "He told me," continued the speak-guisher throws a foam. This is espe-