DOCTORING LIVESTOCK

BY A. S. ALEXANDER

Every farmer should have, in a animal will take it in that way. Purdustproof case or satchel, not only the instruments necessary for simple livestock operations, but the appliances and dressings used in that connection. For operation and diagnoses, a veterinarian should be called, but so often there is none within reach.

Ensom salt, a saline laxative or puroften there is none within reach.

ages of unbleached muslin, or prefersurgical supply houses. In addition ounces; cattle, axative, 3 to 6 ounces; have four Derby bandages and four purgative, 1½ to 2 pounds; calves, 1 fiannel bandages for use in lameness, "stocking" of the legs, and surgical pigs, 8 to 6 ounces. cases, or to give support and comfort in sickness. Also keep oakum for packing abscess cavities and for use on the soles of the hoofs. Plaster of

Some of the instruments needed are: Knives for the castration of young calves, pigs and lambs; curved scissors and clippers for the removal of dehorning shears, where sheep instrument for hogs; milking tubes; a scribed by veterinarians. teat dilator and air inflation outfit for milk fever in cows; a trocar and for restraining horses; ear markers or punch; a rectal injection pump, or and overhead ice-tong hooks, for use

MEDICINES NEEDED.

All medicines for animals on the farm should be kept in a trunk, or close, dark, locked cupboard. Powdered drugs should be kept in airtight containers, such as sterilized fruit jars. Fluids should be kept in stoppered or tightly corked bottles or jugs. All drugs should be plainly labelled and, if dangerous, should be marked Throw away any drug if sore teats. the label is lost and you are not sure

tles and corks. The veterinarian may need and use these conveniences on

occasions. All drugs kept on the farm should be simple and safe. The trained veterinarian uses many strong drugs, alkaloidal poisons and biologic preparations called serums, vaccines, and bacterins which can not properly be given by the stockman. It would be well to get from a veterinarian some colic drenches for use in cases of emergency.

DOSES FOR LIVESTOCK.

Doses (alkaloids excepted): Onehalf as much again for cattle as for horses; one-half as much again for sheep and goats as pigs; one-half as much for cats as dogs. In other words. horses, 1; cattle, 11/2; sheep and goats, 1-5; pigs, 1-8; dogs, 1-16; cats, 1-82.

The dose of most powdered drugs for the horse is about one dram, except the alkaloids. The dose of most fluid extracts for the horse is about one dram, not including poisons, such as a conite. The dose of tinctures is about one ounce. A teaspoonful rep-

4½ to 9 months, ¼ part; 2½ to 4½ months, 1-9 part; 1 to 2 months, 1-18

grains to 1 pint.
A 1 to 1,000 solution contains 71/2

tal or powder form are:

Epsom salt, a saline laxative or pur-There should be a roll of sterile gative for all animals, sheep and absorbent cotton, some rolled band- swine. Dose: Horse, when repeated several times daily as a laxative, 2

ably those prepared ready for use by to 4 ounces; as a purgative, 16 to 24 to 4 ounces; sheep, 4 to 6 ounces

PURGATIVE OR LAXATIVE OILS. Castor oil, excellent as a physic, especially in scours or diarrhoea, to be shaken up in milk and given before Paris bandages and a supply of suture other medicines. Dose: Horse and silk and surgeon's tape or plaster will cow, 1 to 2 pints; often used in equal parts with raw linseed oil; foals calves, 1 to 4 ounces; sheep, 2 to 4

ounces; pigs, 1 to 4 ounces. Raw linseed oil (Boiled oil is poison sors and clippers for the removal of ous). Dose, as a purgative: Horse, i hair; suture needles; shoer's hoof to 2 pints; as a laxative, 1/2 to 1 pint; knives, rasps and a foot pick; a bone cattle, 2 to 4 pints; sheep and pigs, 4 to 10 ounces. Cottonseed oil and are handled; nose rings and a ringing medicinal mineral oil also are pre-

FOR WOUNDS AND WIRE CUTS.

Coal tar disinfectants and dips ar canula for tapping a bloated cow and popular. They make a soapy emulfor inserting bull rings (one or two sion when soft water is poured upon of which should be kept on hand); a them. There are many of such pretwo-ounce metal syringe and a vaginal parations, including zenoleum, kerso irrigating apparatus; a mose twitch chloro-naphtholeum, germol, creolin, for restraining horses; ear markers etc. Each should be used strictly as directed by the manufacturer, and for hose, nozzle and funnel; a drenching the conditions and ailments mentionbottle and a noosed cotton rope, pulley ed in his printed matter. From 1 to 5 gallons of such a disinfectant or dip should be found on every farm. The attending veterinarian will direct as II. THE EXAMPLE OF PRAYER GIVEN BY to the use of such other disinfectants JESUS, 9-15.

We have been see-5 gallons of such a disinfectant or dip when administering a drench to a should be found on every farm. The as bichloride of mercury, carbolic acid,

> Permanganate of potash crystals boric acid and tincture of iodin should. also have a place in the farm medicine chest. The latter is especially valuable for putting on wounds. acid in 4 per cent. solution is excellent as a solution in which to immerse

Throw away any drug if the label is lost and you are not sure what the drug is.

A glass graduate will be needed for measuring liquids; a scales for weighing quantities; a pestle and mortar for powdernig and mixing; a flour sifter for mixing powders and removing lumps and coarse particles; a plate glass or slate slab and spatula for mixing ointments; tin boxes as containers, and a supply of clean bottles and corks. The veterinarian may complete the label is lost and you are not sure what the drug is.

Sugar of lead and sulphate of zinc white lotion and sulphate of zinc in their experience, and created an under lock and key. They are used to make the "white lotion" so popular and effective for application to barb wire cuts and all shallow wounds. The formula is: Sugar of lead and sulphate of zinc in their experience, and created an under lock and key. They are used to make the "white lotion" so popular and effective for application to barb wire cuts and all shallow wounds. The formula is: Sugar of lead and sulphate of zinc in their experience, and created an under lock and key. They are used to men with a "power" unprecedented in their experience, and created an under lock and key. They are used to men with a "power" unprecedented in their experience, and created an under lock and key. They are used to men with a "power" unprecedented in their experience, and created an under lock and key. They are used to men with a "power" unprecedented in their experience, and created an under lock and key. They are used to the reality of divine things. In their experience, and created an under lock and key. They are used to men with a "power" unprecedented in their experience, and created an under lock and key. They are used to men with a "power" unprecedented in their experience, and created an under lock and key. They are used to men with a "power" unprecedented in their experience, and created an under lock and key. They are used to men with a "power" unprecedented in their experience, and created and sulphate of zinc for

for all animals and especially to stimulate activity of the liver. It should be dissolved in hot water, well sweetened with molasses, if to be given in large quantities as a drench, or may be added in small doses to the soft feed or drinking water, if the simulate activity of the liver. It should be dissolved in hot water, well sweetened with molasses, if to be given in large quantities as a drench, or may be added in small doses to the soft feed or drinking water, if the simulate activity of the liver. It should be dissolved in hot water, well be added thereto.

V. 10. What is the next principal end, even in praying, is to glorify God, concern of the soul? It is that God's knowing that enjoying him forever kingdom should begin, and God's will be added thereto.

Sarah was visiting Aunt Harriet when God ilial in spirit—our Father, not our be done on earth, even as it is now sovereign Lord. Our daily bread—our daily bread—our daily bread—our daily bread. It takes at least three to make a wholesome religion. Truly, good examples do far more toward constructive character-building than all the advice that can be given.

diluted, for kidneys; 1 to 2 or diluted, for kidneys; 1 to 2 ounces in pint raw linseed oil or quart new milk for worms in horses and blost of cat-tle; sheep and swine, 1 to 8 drams. Ammonia, aqua, for use in lini-ments, 1 ounce, with 1 ounce of tur-neyting and 1 pint of all.

pentine and 1 pint of oil.

Ammonia, aromatic spirits, excellent for heat exhaustion in horses and bloat in cattle and sheep. Dose: Horse, & to 1 ounce; cattle, 1 to 2 ounces; sheep, 1 to 2 drams. Dilute well with

Sweet spirits of niter is much sweet spirits or inter is much used to stimulate the kidneys, and in chill and colic. Dose: Horse, ½ to 1 ounce; cattle, ½ to 2 ounces; sheep, 2 to 4 drams, for "stretches." Dilute with water. Alcoholic stimulants also are used in larger doses.

Also keep on hand a supply of car-bolized vaseline, iodin ointment, pine tar, fresh lard, or cheap vaseline, powdered wood charcoal for indiges-tion, slaked lime and chlorid of lime. scribed by the veterinarian.

There is one advantage in scrub cows-you can milk them quicker than the purple-blooded variety.

Where sheep on permanent pasture have become infested with stomach this should be done. Those who de-worms some owners have found relief sire to cater to family, hotel, and resin the use of the copper sulphate taurant trade will also find it a useful

Insects Injurious to Live Stock.

Heavy losses are incurred as the direct result of insect pests on all classes of live stock, and stock men must be continually on the watch to them from doing harm. Per haps the most logical way to prevent injury is in the direction of the pro-tection of stock from flies and other insects, not so much by the use of remedies, but by assisting stock to escape from attack. Particular stress is laid on this aspect of the subject in Bulletin No. 29 of the Dominion Dept. of Agriculture, entitled "Insects
Affecting Live Stock."

Marketing Poultry Products.

The marketing of poultry, especially dressed poultry, has shown considrable improvement in Canada during tion, slaked lime and chlorid of lime. the last few years, although much re-Other drugs can be bought when pre-mains to be done before conditions are ideal. Speaking generally, farmers would make more money from both eggs-and poultry by properly preparing and packing these products. Bulletin No. 88, "Preparing Poultry Produce for Market," obtainable from the Publications Branch of the Dept. of Agriculture, Ottawa, shows how guide.

The Sunday School Lesson

OCTOBER 12.

The Sermon on the Mount, Matt., chs. 5 to 7. Golden Text -Thy kingdom come. Thy will be done.-Matt. 6: 10.

ing that the Kingdom of God formed the constant theme of our Lord's the constant theme of our Lord's teaching, and we have heard of the divine "authority" with which he spoke, Mark 1:22. The teaching of Jesus was different from that of the scribes, for while the scribes based their teaching on tradition, Jesus spoke from direct knowledge and experience of God. His words laid hold on men with a "power" unprecedented

before use and apply 1 or 3 times before use and apply 1 or 3 times to be a second to be before use and apply 1 or 3 times to be before use and apply 1 or 3 times to be before use and apply 1 or 3 times to be before use and apply 1 or 3 times to be before use and apply 1 or 3 times to be before use and apply 1 or 3 times to be before use and apply 1 or 3 times to be before use and apply 1 or 3 times to be before use and apply 1 or 3 times to be before use apply 1 or 3 times to be before use apply 1 or 3 times to be before use apply 1 or 3 times apply 1 or 3 times to be before use apply 1 or 3 times apply 1 or 3 times to be before use apply 1 or 3 times apply 1 or 3 times to be before use apply 1 or 4 the second to be before

about one ounce. A teaspoonful represents about one dram; a dessert-spoonful, two drams; a tablespoonful, about one-half ounce; a wineglassful, about one-half pint).

One dram equals 60 drops; one ounces, eight drams; twelve ounces, one pound, Apothecaries' weight (16 ounces, 1 pound, Avoirdupois).

In proportioning the dose of medicine to the age of the animal give a horse 3 years old and upward, 1 part; 1½ to 8 years, ½ part; 9 to 18 months, ½ part; 4½ to 9 months, ½ part; 1 to 2 drams; sheep and pigs, 1 to 4 drams.

Cattle and sheep take medicine in Cattle and sheep take med

V. 11. Yet our earthly necessities also are a matter of concern to the heavenly Father, and we should pray for each day's bread. Jesus would not turn stones into bread, because he honored the Father's mode of creating and providing this elemental necessity. And because we, too, are to labor in accordance with the Father's laws, we can ask that the gift of bread should crown the toil of the day. We ask for "daily" bread, because it is enough that God should provide for each day as it comes.

of an unforgiving spirit towards our fellowmen. The grace of forgiveness can flow to us only as we let the same spirit have an outlet in our dealings with those around us.

Efficient Farming

training for the great event of the over-crowding may also cause death year—Thanksgiving. If you have interested.

and proceed gradually by feeding market, and arrival after the holiday lightly on corn in the morning and usually means lower prices.

again in the evening a short time before the turkeys go to roost. Increase when properly done. Hang up the the quantity of corn fed gradually turkeys by their legs and with a single until the birds are getting all they stroke push the point of a sharp knife will eat. Be careful not to feed new up through the roof of the mouth into have become accustomed to it, to pre-vent digestive troubles.

Good-sized, well-matured birds in be marketed to best advantage at bleeding. The turkey should be dry-Thanksgiving. Small, immature tur-keys should be held until Christmas, cool the carcass after plucking, infor further fattening, but if the birds asmuch as failure to remove all aniare unthrifty market them at once. mal heat promptly will result in early Sales outlets to raisers within express shipping distance of good mar-kets are local consumers, local buyers and dealers, more distant buyers or dealers and carlot shippers, and receivers or commission merchants of live or dressed poultry in the large casses are ready for shipment. A barcities. To determine the best available outlet study shipping charges and keep in touch with both local and distant buyers as to price. Distant buy- turkeys, followed alternately by layers will mail quotations on request.

Most producers market their turkeys alive. Shipping dressed turkeys to markets is justified only when makup. A coop three feet long, two feet the rest to market.

PUTTING THE TURKTY ACROSS, wide and twenty inches high will ac-Turkey time is coming. We see it commodate five or six turkeys. Over-in the leaves and feel it in the air. crowding may result in bruising, Already the appetite is getting in which detracts from the market value;

turkeys and want the top prices for them, a few tips broadcasted by the poet of Agriculture will find you ping. If they are on the road a longer interested. time water and feed liberally to pre-The experts say that range fatten- vent shrinkage in weight. Ship in time ing is more satisfactory than pen at to place the turkeys on the market a tening. Begin fattening about three day or two before the holiday. Late weeks or a month before marketing, arrivals may reach an overstocked

Killing and dressing birds is simple corn too heavily until the turkeys the brain. When properly done this ens the feathers so that they come out Good-sized, well-matured birds in easily. Then sever the veins in the good condition for fattening can often throat just beyond the skull for mal heat promptly will result in early spoilage. Cool either by hanging out-doors if the temperature is between thirty and forty-five degrees, of by immersing in cold running spring water or ice water.

When thoroughly chilled, the carcasses are ready for shipment. A bar-Place a layer of cracked ice in the bottom of the barrel, then a layer of ers of ice and turkeys, and topped off with a layer of ice. Tack burlap over the top of the barrel.

favorable outlet for the dressed product. Shipping coops should be high enough to enable the birds to stand to rear the next year's factors. CAUTION. If you are building up

How to Winter Bees Successfully.

Successful wintering is essential to looked at the Experimental Farms rofitable beckeeping. This is not a and Stations. At the Lennoxville profitable beekeeping. This is not a difficult matter provided the leading requirements are understood and observed. To neglect them means ruin and death to the colony. The methods to be followed, both in feeding and protecting, are clearly explained in Pamphlet No. 22, New Series, "Wintering Bees," and all those who desire information on the subject would well advised to secure a copy from the Dept. of Agriculture, Ottawa, be-fore cold weather sets in.

Many potato growers practice the selection of seed from the bin. This method, while desirable in itself, will not accomplish all that the grower may hope. It is far better to select the tubers in the hills, then one can judge as to the general vitality of the parent plant.



Had a Lot on His Mind. worried—is he altogether well?" trying to figure out how we can begin

Spring Flowering Bulbs.

Ornamental horticulture is not over-Station in the Province of Quebec, many varieties of Dutch bulbs, which require to be planted in the autumn for spring flowering, are grown. These are reported by the superintendent, Mr. J. A. McClary, to winter well and produce fine spring results. Of the varieties of tulips and narcissi that have been tested for a number of years, the following are reported to have been particularly fine:

Narcissi-Emperor, Golden Spur, Madame de Graaf and Sir Watkin. Early Tulips—Proserpine, Artus, Joost Van Vondel, Cottage Maid, and Duchess de Parma.

Darwin Tulips-Farncombe ders, Clara Butt, La Tulipe Noir, Isis,

and Madama Krelage.

A tribute was paid to in the report of the superintendent for 1923 to the excellence of Canadian tulip bulbs produced at the Experimental Station on Vancouver Island. These, when planted along with bulbs of the same varieties grown in Holland, surpassed the imported stock both in size and quality of bloom.

What is usually termed good politics s too often bad business.

A sharp cut or nick in the edge of a piece of metal will often start a crack and eventually a break where a carefully rounded indentation would do no harm. For this reason, when working with file, hack-saw, or cold-chisel on the frame or other parts of Friend-"Your Husband's face looks a car, truck or tractor, subjected to excessive strain or vibration, use ex-Wife-"Oh, yes; but you see he's treme care that no sharp cuts are made and left in their edges. buying a home and he's got a lot on cut is accidentally made, it should be carefully rounded smooth.—Ed. Henry.

TRAINING OUR CHILDREN

The Power of Example—By Maude Freeman Osborne.

All foo ship is true and real in proportion and the same properties as the same properties

ever any of them had a similar ex- little ears and eyes are so sharp and