FARM STOCK



MANY DEVICES USED TO EXERCISE BULLS

(Prepared by the United States Department of Agriculture.)

Many a valuable bull is rendered useless by improper care and management, says the United States Department of Agriculture. The importance of exercise is often underestimated, and many bulls, after their value has been proved, are found to be sterile or slow breeders, due largely to close confinement and lack of activity. This is more true of dairy bulls, perhaps, because of their temperament, which makes them more difficult to handle.

Regular exercise helps materially to keep the bull in good condition. Any method that will make the sluggish bull take exercise regularly and without overwork is satisfactory. The main point is for him to get it. In some countries bulls are yoked like oxen and used to pull a plow, to haul manure, or to do other farm work. Where there is only one bull, special hitching arrangements for work on a cart may be made. Thus the bull not only gets his exercise but at the same time does useful farm work. A treadmill is sometimes used, but is not always satisfactory because the bull sometimes learns tricks for stopping the machine and needs to be watched.

A pen large and roomy enough for exercising may be all that is needed for some bulls, but others are lazy and need to be forced to exercise. A young bull turned in the lot with an older one will usually cause the older one to take his "daily dozen." The younger bull will usually be active enough to keep out of danger if the pen is large enough to prevent his being cornered. The owner should use his judgment as to the merits of this plan.

Bulls may be induced to exercise themselves with an empty barrel or keg by hunting or rolling it around the pen. The keg may be left on the ground or hung by a rope or chain low enough so the bull can butt it with his head. A block of wood, with the corners removed, will serve the same purpose. Some bulls spend hours playing with contrivances of this sort, while others pay little attention to them.

When an exercise pen is not available, it is a common practice to tie the

This record slaughter of animals indicates an increased total meat consumption in the United States, as would be expected with the growing population. It also shows what a comprehensive service the United States Department of Agriculture renders in the inspection of the nation's meat supply.

Live Stock Facts

The loss of [illegible] will mean the loss of big profits.

• • •

The wise [illegible] recognizes that care in selection of the [illegible] pays well in the end.

• • •

Economical [illegible] for too high this [illegible] to [illegible] "get by" [illegible] pig. Markings should not [illegible] to [illegible] for it causes [illegible] to scour.

• • •

Pure breds of [illegible] the better [illegible] feed [illegible] grades or common [illegible]

• • •

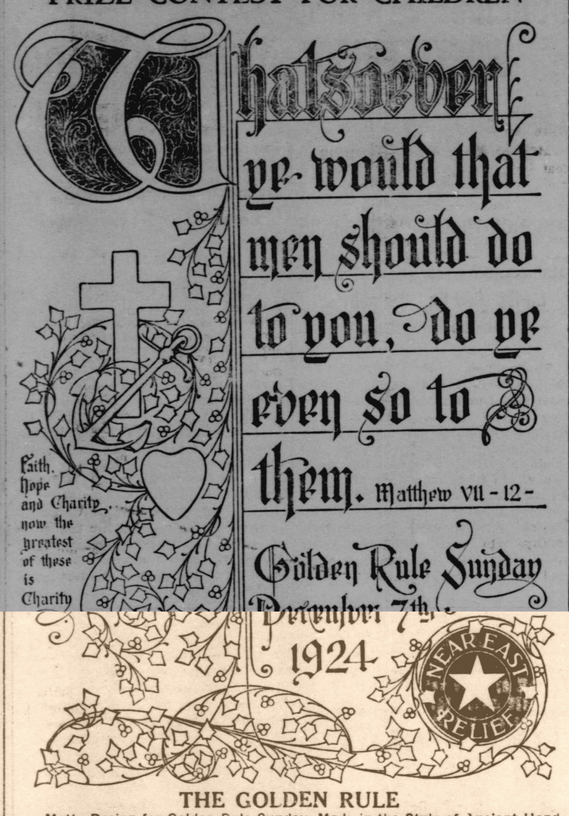
[illegible] good [illegible] the feeding [illegible] results in [illegible] the [illegible]

• • •

A census of [illegible] orders over the [illegible] Pure bred [illegible] breeds [illegible] pure bred [illegible] or [illegible] stock [illegible]

• • •

PRIZE CONTEST FOR CHILDREN



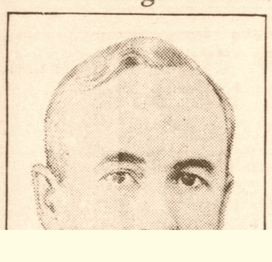
THE GOLDEN RULE

Motto Design for Golden Rule Sunday, Made in the Style of Ancient Hand Lettered Manuscripts From the Middle-Age Armenian Monasteries, by th American Artist, J. Thompson Willing. Prizes Are Offered by Near Eas Relief to Children for Coloring This Design, Using Crayons or Water-Color

Relief Work Heroine Back From Near East



American Honored by 23 Foreign Nations



WASHINGTON

Gentlemen:

The report which you give me of the observance of International Golden Rule Sunday last year, and of your plans for its more effective observance this year on December 7th, is most pleasing. I am glad to renew the commendation given last year of this excellent plan for bringing to the attention of those who are prosperous the charitable requirements of those who are in adversity. I believe with you that the international observance of this day may not only save the lives of thousands of destitute, but may possibly have an even greater benefit in the way of reflex influence upon those who thus observe the Golden Rule and help to establish it as a reality in daily living. The international observance of this day might well contribute materially to the betterment of international relations and abiding world peace.

Very truly yours,

Near East Relief,
151 Fifth Avenue,
New York, N. Y.

Plans for the observance of Golden Rule Sunday call upon the people of the United States to serve a menu in their homes similar to that served in the refugee camps in the near east, and then give a thank offering to help carry on the work during the coming year.

Send your contributions to 19 West Franklin Street, Baltimore, Md.

Orchard Information

FIGHT MANY PESTS FROM AIR MACHINE

An interesting development of the future, for commercial orchard communities, is the possibility of fighting insect pests from the air on a large scale. Wherever trees have been protected by spraying or dusting from the ground, the same mixtures can be applied from the air. Experiments conducted by the army air service in cooperation with the United States Department of Agriculture proved the feasibility and practical usefulness of the method, and further studies are being carried on each summer with the aim of still further improving the apparatus and perfecting the technique. The advantages are obvious, for an airplane flying at 60 miles an hour and passing to and fro on lanes spaced 100 feet apart can cover 100 acres in half and hour if enough of the dusting powder to last for that length of time in continuous application can be carried.

Although the first experiments on tree dusting from the air were made with airplanes, the airship has since come into use for the purpose. Lighter-than-air craft, such as small dirigibles of the Zeppelin type, the patents for which have been recently taken over by American manufacturers, have many advantages for this work. They carry a crew of several men, who are free to move about while in flight, and so can readily make adjustments of the apparatus or reload it. They may be designed to have a large reserve of lift, permitting the carriage of a supply of powder for covering a great deal of territory in a single flight. They can be throttled down to any speed desired, so that the application can be made more or less intensive by varying the rate at which the airship passes over the trees. Finally, but most important of all, the airship is immune from the danger of the forced landing. In order that the material used for dusting may be accurately distributed where it is most needed, the machine doing the work must fly very low, and if an airplane is used and the engine fails when flying over an orchard or a forest it is of course unlikely that a good landing field will be at hand. Although forced landings are rare when engines are properly cared for, and they have been almost unknown in the forest fire patrol, the

Horticultural Notes

Do [illegible] to [illegible] apple trees for [illegible]

• • •

Make [illegible] to [illegible] for planting fruit trees [illegible] next fall.

• • •

[illegible] and [illegible] is the better [illegible] for [illegible] The [illegible]

• • •

[illegible] to [illegible] and [illegible]

• • •

[illegible] trees. [illegible]

• • •

The best thing to [illegible] and bear is [illegible] year.

• • •

[illegible] to [illegible] and [illegible]

Pyramus and Thisbe

By MARTHA WILLIAMS

(Copyright.)

"OH, DEAR! How I wish I could take a ride!" Sarinesca sighed stormily.

"Well, why don't you?" Aunt Susan asked placidly. "Lady Jane Gray isn't working—exercise 'd be better for her than standing stalled all day."

"Ugh! All she's fit for is crowbait! I wouldn't be seen on her," Sarinesca flung back.

"Of course, if you wanter show off—" began Aunt Susan.

"I don't! Only—not to be a scarecrow!" Sara broke in, tears running over her rosy cheeks.

"It comes of being an honest man's daughter. Don't forget that!" Aunt Susan said, head up, eyes flashing. "Too honest to try standing from under a load of security debts your grandfather had put on him. I'd be proud—remembering a thing like that."

"I—I—can't! I'm young," Sara sobbed; "nineteen—and I've never had—anything."

Aunt Susan swallowed something hard in her throat. She loved this quicksilver child dearly, for all she had found her a trial all the ten years she had cherished her. "Susan, keep her safe. She's all that's left me," her brother had said when he bade them good-by. Three months had stripped him of everything. His wife, his twin sons, their grandparents—all had been instantly killed in a motor accident, leaving him a burden of debts and grief that ought to have crushed him utterly. Terribly shaken, he had somehow lived through it, keeping his head unbowed. "I shall come back—living or dead," were his last words.

A motor horn sounded impatiently outside. Sara darted to find out its meaning. In a minute she was back, white, breathless, saying brokenly: "I can't believe it—but—but my Great-uncle Julian has come to take me away—for good."

"You are willing to go with him," Aunt Susan shot at her, "after he has waited so long?"

Sara nodded. "You won't blame me, after you see their car—and my aunt's clothes!"

"But you are—your mother's daughter," Susan said with a hard breath. "Be sure I won't lay a straw in the way of your going. Only—when your father comes—"

"He won't ever come! He must be dead," Sara cried, flinging herself upon her aunt's breast.

"He will come—living or dead," Su-

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