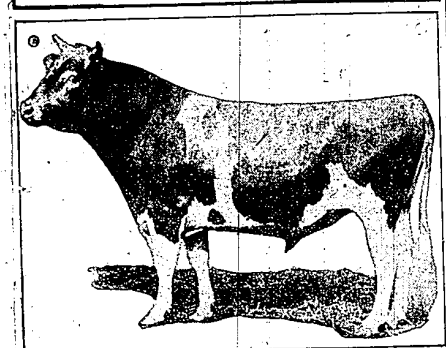
Care of the Bull

By R. S. SHAW,
Director Michigan Farm School.



"Endymion," Grand Champion National Dairy Show, Chicago, 1907. Owned by Helendale Farms, Athens, Wis.

Ungovernable, ugly bulls are usually the result of mismanagement, except where the specially treacherous or vicious disposition is inherited. As a rule the bull hands back to a man on the points of his horns the exact treatment accorded him at the points of the pitchfork prongs. The club has no place whatever in the handling of a bull and the same is also true of boisterous conduct of any kind on the part of the attendant. Quietness and gentle but firm treatment are essential to the proper training of the bull. Never undertake to make the animal do anything without accomplishing the same. If there should be any question about it the result do not undertake it. The man who is afraid of a bull should not attempt to manage him, as the bull will detect the first evidences of fear and begin to take advantage at once, finally becoming ungovernable. On the other hand, no man should pursue foolhardiness and expose himself to danger unnecessarily. The great trouble is that most bulls are handled too little, being confined continuously for long periods in small dark and often filthy quarters. An attendant should move quietly around the bull; shouting, loud talking and quick moves excite the bull of nervous temperament.

While some object to the staff, still we believe it should always be used in handling the bull as a lead strap furnishes no protection whatever. We also believe that the stock bull which is not to be used in the show ring should be dehorned, even though the necessity may not be very apparent, as it modifies the danger quite materially. It is a regrettable fact that so many bulls just reaching maturity have been sent to the block because people were afraid to buy on account of improper handling and training.

Some Gasoline Engine Suggestions

By H. H. MUSSELMAN,
Professor Farm Mechanics Michigan Farm School.

Some one has said that the difference between a steam engine and a gasoline engine is that the ills of the former take minutes to detect and hours to correct while those of the latter take hours to detect and minutes to correct. This is largely true in that the gas engine ills are made up of minor difficulties which are easily corrected, but which are also easily overlooked. Stubbornness, a propensity sometimes attributed to the gas engine, is an indication that it is one of the most human of machines. It might be added that this stubbornness is not due to any innate perverseness on the part of the engine, but rather a lack of acquaintance and consideration on the part of the operator. No machine will respond more readily to careful treatment and a thoughtful consideration of its peculiarities.

The steam engine in the hands of a careless engineer will continue to run and pound until it is damaged past repair. The gas engine on the other hand will, in general, meet such treatment by a persistent refusal to start or run. This very characteristic is one of the safeguards against the abuse of the engine, but one should not wait for trouble to manifest itself in this form. There are some things about the engine that should have careful and regular attention.

Ignition troubles may be said to comprise about 90 per cent. of gas engine troubles. Broken connections, dirty spark plugs, weak batteries are ills with which even the novice is becoming familiar. Exasperating as these difficulties may be they can usually result in little harm to the engine itself since it will not run until they are corrected. Neither would it be necessary for me to state that black smoke coming from the exhaust indicates a mixture containing too much gasoline vapor or that white smoke from the same source indicates an excess of cylinder lubricating oil. It is the features of the engine which give no immediate trouble, but which through neglect will disable the machine in a comparatively short time that we wish to discuss.

Certain parts of the gasoline engine are subject to rapid and sudden changes of motion and direction. They are also subject to the enormous explosive forces in the cylinder. It follows then that they should be carefully fitted and kept in adjustment to prevent pounding and excessive wear. Take the cylinder and piston for example. In the better class of engines the inner surface of the cylinder is ground to give a smooth surface against which the rings which are fitted in grooves around the piston expand and wear to a perfect fit to prevent loss of compression in the combustion chamber. It is easily seen that these surfaces should be kept properly lubricated and to that end a film of heat resisting oil should be kept between them to prevent excessive wear. Lack of lubrication may cause the cylinder to "score" or have grooves cut in it by the rings which will allow a leakage of gas. This is a serious fault and may result from any of the following: 1—poor lubricating oil. 2—Failure to turn on or have a sufficient flow of lubricating oil. 3—Overheating of cylinder. Only a good grade of gas engine oil which is intended to withstand high heat should be used. The writer has in mind an instance of this kind in which a chauffeur upon finding his cylinder oil exhausted borrowed some steam cylinder oil from a threshing crew. The deposit formed by the combustion of this oil rendered a large bill of repairs necessary. Neglect to turn on lubricating oil would be counted pure carelessness. The amount fed should also be watched and vary from 3 to 10 drops per minute according to the size of the engine. A better way to tell is to see that the piston is oily and presents a polished appearance. All engines under ordinary conditions of usage will not overheat. Failure to supply cooling water or see that the fan is running properly might cause serious results from overheating and consequently burning the lubricating oil or causing strain from undue expansion of the parts from heat.

The valves will also require some attention. When the engine is sent from the factory they are adjusted to open and close at the proper points in the stroke, which should be quite carefully done. Should the engine fail to deliver its full power the timing of the valves may be looked to as one cause of failure. Information as to the proper timing can be had by reference to the company's book of instructions which accompanies the engine or by consultation with the agent or company direct. The valves may also become worn or pitted with the heat so that in time they will not seat properly. A valve properly seated will show a bright surface entirely around its circumference. In case they are worn or pitted it will be necessary to have them reground to fit.

The fit of the connecting rod upon the piston pin and crank pin also should be noted occasionally. Looseness can be detected at either place by shaking or moving the fly wheel slightly and holding the finger at once upon the connecting rod and piston or crank. In taking up the wear at these points be sure there is a sufficient thickness of "liners" between the parts to prevent clamping upon the pins when the nuts are drawn tight. Lock nuts or some other means should be used to prevent these nuts working loose.

The crank shaft bearings should also be kept closely adjusted, but not so tight as to prevent a film of oil forming around the shaft for lubrication. The same suggestions for adjusting would apply to these bearings, as to the connecting rod.

Keep other moving parts on the engine well lubricated and inspect the entire machine occasionally to see that there are no loose nuts or parts.

Caring for Injured Trees.

Trees that are scarred or bruised in cultivating should have the round bark cut away with a sharp knife and the wound painted over immediately.

Salt for Stock.

Don't forget that both the cow and the horse need salt. Give it to them in the ration or else keep it before them in the rock form.

FOREST FIRES IN NORTHERN ONTARIO

GREAT LOSS OF LIFE AND DAMAGE OCCUR IN PORCUPINE MINING DISTRICT.

PROPERTY LOSS WILL RUN INTO MILLIONS.

Dead Bodies of Men and Animals Strew Streets in Dozens of Burned Mining Locations — Victims Caught While Working.

The loss of life in Porcupine district, northern Ontario, from forest fires is known to be several hundred and the property loss will reach several millions of dollars. Only three of 84 employes of the West Dome mine have been accounted for and 200 miners, muckers, etc., in the Dome mine have been suffocated. The mines burned include the Dome, North Dome, Preston, East Dome, Vipond, Foley, O'Brien, Philadelphia, Imperial, Eldorado, Porcupine, Pottsville and part of Golden City, as well as many small buildings along the lake front. While some loss of life occurred in the vicinity of Porcupine lake, the greatest havoc was wrought around the main mines, notably West Dome and Big Dome. There the entrapped miners, cut off from escape, were forced to take to the shafts for safety, and, penned in by flames, perished. This was notably true at Dome and West Dome mines. At Preston, East Dome, an untimbered shaft gave shelter and none perished.

Later Reports From Northern Ontario

Gradually the story of the north Ontario fires is being unfolded, and it is as full of thrilling incidents as the most imaginative of romances. That familiarity with danger breeds indifference to it is a maxim justified by experience and certainly the dwellers in the Canadian Rand appear to have given little thought to the inflammable character of the district. Weeks of drought and high temperature had reduced much of the vegetation to a state of extreme desiccation and crumbled it into powdery dust.

The death list contains no new names, and the number dead is a mere guess.

The largest area burned was that comprising the townships of Tisdale and Whitney, where were located the towns of Porcupine, South Porcupine and Pottsville, and the largest mines. No word has been received of the damages at the power plant at Trunn's landing, and this strengthens the belief that the fire did not spread over as great an area as at first reported. The fire that destroyed Cochrane, 100 miles distant from Porcupine, it is believed now, was independent of those in the Porcupine district.

Porcupine Death List Reaches 457.

Press representatives returning from the fire swept mining district at Porcupine and Cochrane place the loss at $3,310,000. There have been 64 bodies recovered and a number are still thought to be in the lake.

One hundred and sixty men are missing from the Dome mine and with others reported missing, the total will reach 457, mostly foreigners, who made for the woods when the fire began to rage. How many of these perished no one will ever know. The area of the fire was something like eight miles wide and 50 miles long. Rain throughout the district has put out all fires.

To Vote on Canadian Reciprocity July 22.

An agreement to vote on the Canadian reciprocity bill on July 22 was adopted in the senate without opposition. Agreements also were made for votes on other measures which will carry the session through the "legislative day" of Aug. 7, immediately after which congress will adjourn.

The agreement fixes a vote on the house wool revision bill for July 27; free list bill, Aug. 1; reapportionment bill, Aug. 2, and statehood on the legislative day of Aug. 7. It is expected that the adjournment of congress will immediately follow the statehood vote.

NEWS IN BRIEF.

A severe earthquake shock, continuing 50 seconds, was felt at Honolulu. No damage has been reported.

Prof. Herman Senator, of Berlin, noted for his medical researches, is dead. He was born in 1834.

The executive board of the National Young People's Christian Union convention of the Universalist church has decided to hold the next convention in Chicago, thus ending a sharp contest between the city and Utica, N. Y.

By grafting the shin bone of a dead man on a woman suffering from necrosis, thus practically giving her a whole new lower leg, the surgeons of the New York hospital for deformities have completed an operation unique in surgery. Up to now operations of this sort have been confined to experimental work done on dogs.

In a tropical storm at night three days ago 32 passengers and several members of her crew sank with the small steamship Irma, when it was struck by the Diamante, of Port Limon, Costa Rica. News of the disaster has just reached Port Limon from Bluefields. Only eight passengers of the Irma escaped.

Patriotic Americans and interested foreigners to the number of 3,569,425 have been to the top of the Washington monument since that towering shaft was opened to the public nearly 23 years ago. The daily average has been about 500.

PERFORMING POLICE DUTY.

Officer Muldoon—That fellow's flirting with every servant girl on my beat. I'd run him in if I could charge him with some offense.

Chalker (the milkman)—That's easy. Charge him with impersonating an officer!

IN AGONY WITH ITCHING

"About four years ago I broke out with sores on my arms like boils. After two months they were all over my body, some coming, and some going away. In about six months the boils quit, but my arms, neck and body broke out with an itching, burning rash. It would burn and itch, and come out in pimples like grains of wheat. I was in a terrible condition; I could not sleep or rest. Parts of my flesh were raw, and I could scarcely bear my clothes on. I could not lie in bed in any position and rest. In about a year the sores extended down to my feet. Then I suffered agony with the burning, itching sores. I could hardly walk and for a long time I could not put on socks.

"All this time I was trying everything I could hear of, and had the skill of three doctors. They said it was eczema. I got no benefit from all this. I was nearly worn out, and had given up in despair of ever being cured when I was advised by a friend to try Cuticura Remedies. I purchased Cuticura Soap, Ointment, and Resolvent, and used exactly as directed. I used the Cuticura Remedies constantly for four months, and nothing else, and was perfectly cured. It is now a year, and I have not had the least bit since. I am ready to praise the Cuticura Remedies at any time. (Signed) E. L. Cate, Exile, Ky., Nov. 10, 1910.

Although Cuticura Soap and Ointment are sold by druggists and dealers everywhere, a sample of each, with 32-page book, will be mailed free on application to "Cuticura," Dept. 21, K, Boston.

Old Map of South America.

Claude Vautin, an English mining engineer, who has been prospecting in Peru, returned the other day on the steamship Zacapa. Besides looking after mining property, he has been collecting interesting antiquities of the country.

One of the most interesting things he brings back with him is a map of South America made by the Jesuits in 1592. It gives an outline of the land as far north as Cuba and is apparently accurate. Its purpose is evidently plain, for every missionary station in the country at that time is indicated on the map, and the line of travel necessary to reach them is marked out. This map was obtained by Mr. Vautin at Puno, Peru.

Another interesting collection he brought back is the death masks of the Incas. These were hammered out of metal and placed over the faces of the dead. Three of these obtained by Mr. Vautin are of sheet gold.

Pandemonium.

"Nature knew what she was doing when she deprived fishes of a voice."

"How do you make that out?"

"What if a fish had to cackle over every egg it laid?"

It's the united exports of little things that make big troubles.

COLT DISTEMPER

Can be handled very easily. The sick are cured, and all others in same stable, no matter how "exposed," kept from having the disease, by using SPOHN'S LIQUID DISTEMPER CURE. Give on tongue, or mix in feed. Acts on the blood and expels germs of all forms of distemper. Best remedy ever known for mares in foal. One bottle guaranteed to cure one case. $50 and $1 a bottle; $6 and $10 dozen of druggists and harness dealers, or sent express paid by manufacturers. Call above how to positive thinks. Our free booklet gives everything. Local agents wanted. Largest selling horse remedy in existence—twenty years.

SPOHN MEDICAL CO., Chemists and Bacteriologists, Goshen, Ind., U. S. A.

RUDE AWAKENING FOR ELIZA

Too Late She Discovered That Visitor Was Not the Object of Her Adoration.

The gentle Eliza was sitting drearily in the darkened room, waiting miserably for a visitor, whom she feared would never come. To tell the truth, Eliza and William had quarreled bitterly the night before. But what is that? A ring, a step, a masculine voice. She waited not, but threw herself into the visitor's arms.

"Oh, my darling!" she sobbed, with her head upon his bosom. "I am so glad you have called. I did so long to make up and do my best to pay you for bringing light into my life. Let us settle peacefully once more with each other."

"Well, miss," said a strange voice, "I'm willin', I'm sure. But my instructions is that if you don't I'm to cut off the gas!"

And it was only then that Eliza found out she had mistaken a common gas person for her William.—London Tit-Bits.

TRAINED NURSE SPEAKS.

Has Found Doan's Kidney Pills Invaluable.

Mrs. Emeline Green, nurse, Osage, Iowa, says: "I have nursed many cases of terrible kidney disorders and have found Doan's Kidney Pills the best remedy for such troubles. In confinement when it is so necessary to have the kidneys in good condition, Doan's Kidney Pills are in a class alone. They are splendid also for backache, dizziness, bloating, retention and other kidney and bladder troubles."

Remember the name—Doan's.

For sale by druggists and general storekeepers everywhere. Price 50c.

Foster-Milburn Co., Buffalo, N. Y.

Mamma's Angel Gets Busy.

Fond Mother—And has mamma's angel been a peacemaker today? Mamma's Angel—Yes, ma. Tommy Tuff was a-lickin' William Whimpers, an' when I told 'im to stop he wouldn't, an' I jumped in an' licked the stuffin' out o' both of 'em.

A woman has about as much use for a man who doesn't admire her as a fatted calf has for a prodigal son.

Prudential Reasons.

"So you are going to send your cook off. But isn't her name Arabella Gunn?"

"What's that got to do with our getting rid of her?"

"But, my dear boy, isn't there an ordinance against discharging A. Gunn within the city limits?"

Mrs. Winslow's Soothing Syrup for Children teething, softens the gums, reduces inflammation, allays pain, cures wind colic, 25c a bottle.

The man who thinks he knows it all never gets much of a chance to tell it.

Poor Digestion?

This is one of the first signs of stomach weakness. Distress after eating, sour eructations, sick headache, bilious conditions are all indicative that it is the stomach that needs assistance. Help it to regain health and strength by taking

BEECHAM'S PILLS

for they are a stomach remedy that never disappoints. They act quickly and gently upon the digestive organs, sweeten the contents of the stomach, carry off the disturbing elements, and establish healthy conditions of the liver and bile.

The wonderful tonic and strengthening effects from Beecham's Pills, make them a safe remedy—they

Help Weak Stomachs

In Boxes with full directions, 10c. and 25c.

MILLIONS of FAMILIES are using SYRUP of FIGS and ELIXIR of SENNA

FOR COLDS AND HEADACHES, INDIGESTION AND SOUR STOMACH, GAS AND FERMENTATION, CONSTIPATION AND BILIOUSNESS, WITH MOST SATISFACTORY RESULTS.

NOTE THE NAME
CALIFORNIA FIG SYRUP CO.
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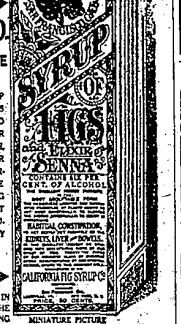
ON EVERY PACKAGE OF THE GENUINE



THE WONDERFUL POPULARITY OF THE GENUINE SYRUP OF FIGS AND ELIXIR OF SENNA HAS LED UNSCRUPULOUS MANUFACTURERS TO OFFER IMITATIONS, IN ORDER TO MAKE A LARGER PROFIT AT THE EXPENSE OF THEIR CUSTOMERS. IF A DEALER ASKS WHICH SIZE YOU WISH, OR WHAT MAKE YOU WISH, WHEN YOU ASK FOR SYRUP OF FIGS AND ELIXIR OF SENNA, HE IS PREPARING TO DECEIVE YOU. TELL HIM THAT YOU WISH THE GENUINE, MANUFACTURED BY THE CALIFORNIA FIG SYRUP CO. ALL RELIABLE DRUGGISTS KNOW THAT THERE IS BUT ONE GENUINE AND THAT IT IS MANUFACTURED BY THE CALIFORNIA FIG SYRUP CO. ONLY

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Reports from the Provinces of Manitoba, Saskatchewan and Alberta (Western Canada) indicate one of the best crops ever raised on the continent. To harvest this crop will require at least 50,000 harvesters.

Low Rates Will be Given on All Canadian Roads

Excursions are run daily and full particulars will be given on application to the following authorized Canadian Government Agent. The rates are made to apply to all who wish to take advantage of them for the purpose of inspecting the grain fields of Western Canada, and the wonderful opportunities there offered for those who wish to invest, and also those who wish to take up actual farm life.

Apply at once to

M. V. McInnes, 178 Jefferson Avenue, Detroit
or C. A. Laurier, Marquette, Michigan

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Will reduce inflamed, swollen Joints, Bruises, Soft Bunches, Cure Boils, Carbuncles, Sores, Ulcers or any unhealthy sore quickly; pleasant to use, does not blister under bandage or remove the hair, and you can work the horse. $2 per bottle delivered. Book 7 K free. ABSORBINE, JR., liniment for mankind, reduces Painful Swollen Veins, Varicose Veins, Varicosities, Bruises, Aches, Pains and Inflammation. $1 per bottle at dealers or delivered. Will tell you more if you write. Manufactured only by W. F. YOUNG, P.D.F., 310 Temple St., Springfield, Mass.

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placed anywhere, attracts and kills all flies. Neat, clean, ornamental, convenient, cheap. Lasts all season. Can't spill or upset, will not soil or injure anything. Guaranteed effective. Sold by all dealers or sent prepaid for 20c. HARRY SOMERS, 150 De Kalb Ave., Brooklyn, N. Y.

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Cleanses and beautifies the hair. Promotes a luxuriant growth. Never Fails to Restore Gray Hair to its Youthful Color. Cures scalp diseases & hair falling. 50c. and $1.00 at Druggists