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DAIRY FACTS

TANK HEATERS ARE FAVORED
When Milk Cows Are Watered Frequently It Is Poor Policy to Supply Ice Water.

When a cow drinks water, her body at once sets to work raising it, if necessary, to the same temperature as exists normally in the body. In order to warm the water taken in, heat is just as necessary as it is to warm a kettle of water on the stove.

To provide the heat necessary, the blood and internal organs give up a portion of their supply until more is supplied from food previously consumed. As the milk cow is a heavy consumer of water, much heat is required to warm it. Consequently when cows are allowed to drink water that is very cold, a high percentage of the feed eaten is required to heat it. If it is true that some heat is being given off from the body all the time and when the amount of water taken in at one time is small the loss is unimportant. But when the cows are watered only once or twice daily, and then get near ice water, they are likely to suffer injury and more feed is necessary. Stated briefly, it is a question of balancing good feed and the cow's time digesting it, against the cost of a good tank heater and a few pails of coals or coal. The man interested in getting the most out of his cows and in their comfort will not expect them to be their own tank heaters.

SILAGE READY WHEN NEEDED
Mistaken Idea to Think That Certain Time Must Elapse Before Feeding to Stock.

What is the best time to begin feeding silage, is a question which is interesting many dairy farmers. The specialists on live stock feeding say that the time to begin using silage is when the dairyman needs it; they feel there is no justification for

The idea that a certain time must elapse between the filling of the silo and opening it for use.

Experiments made at the state colleges of the country indicate that fermentation starts almost as soon as the corn is placed in the silo, and that the greatest change takes place during the first five days after filling. After 12

REAL VALUE OF DAIRY COW
Most Reliable Method is to Figure Her Actual Butterfat Production by Weight.

The most reliable way of getting at the real value of a dairy cow is to figure her actual butterfat production. This can be done by weighing the milk produced by each cow and by determining the per cent of butterfat through occasional tests of the milk with a Babcock tester.

UGLY INDIAN UPRISING PUT DOWN
Notable Battle Between Aborigines and Spaniards Recorded in History of Durango, Mexico.

The name of the little settlement of Tepicbantles, in Durango, Mexico, recalls one of the earliest events in Durango's recorded history, a bulletin of the National Geographic society remarks. It was the tribe which gave the name to the village which, with the Tarahumaras, arose against the Spanish settlers four years before Plymouth colony was founded. In that year some 25,000 Indians of these two tribes marched on Durango city. They killed missionaries and burned down churches as they moved. Not more than 600 white people withstood this step, and even allowing for an exaggeration in their estimate of 15,000 of their enemy killed, the white man's victory was a terrible lesson to their assailants.

These tribes had a beverage, tesvino, peculiar to them—a beer, of milk and water hue—that was made

ROAD BUILDING

LENGTH OF WORKING SEASON
Most Important Factor in Road Construction—There is Considerable Variation.

(Prepared by the United States Department of Agriculture)
The length of the working season is a most important element in road construction and one in which there is considerable variation, according to the bureau of public roads of the United States Department of Agriculture, which has collected data from all of the states.

Deducting Sundays only there are 313 working days in the year, and Alabama, Mississippi and New Mexico report that grading is possible on 300 of them. Neighboring states report as



Building on One Side of Road While Other is Open to Traffic.

follows: Florida, 295; Louisiana, 200, and Texas, 275. Contrasted with these are Maine, with 110; New York, 150; Wisconsin, 153, and western Oregon, 100. In 14 states grading will probably be impractical after the middle of November, and in some of them at an earlier date.

Gravel surfacing can be placed in most of the states on 120 to 200 working days, although 10 of them report a greater number.

In 26 states concrete surfacing can be placed on from 100 to 150 days, and in 16 states on from 150 to 200 days. In 25 states the season is generally over by November 1.

FINE STREET-PAVING RECORD

Total of 150 Miles Completed in City of Birmingham During the Year of 1922.

The street-paving record of Birmingham for the year 1922 is a gratifying one. A total of a hundred and fifty miles of paving has been completed. The nearly \$600,000 invested could not have been spent in a better cause. The city as a whole has reached that stage of highway construction where continuous travel east, west, north or south inside the city limits over smooth and hard-surfaced thoroughfare is possible. Within another year the connecting links with the outlying suburbs still required for completion of the Greater Birmingham highway system will probably have been finished and the city may then look with real pride on her system of streets.

FINE HIGHWAY IN TENNESSEE

Largest Contract Ever Let in State Calls for Construction of 50 Miles of Road.

The largest highway contract ever let in Tennessee provides for 50.2 miles of new road in Grainger county, beginning at Fate Springs, 43 miles across Hawkins county and two miles in Sullivan county extending to Kingsport.

The new highway passes through the Holstein river valley for about 40 miles and lies between Bay mountain and Clinch mountain. The road will be surfaced with asphalt and will cost \$1,587,000, or \$27,700 a mile. It is a federal road.

HIGHWAY BUILDING IN TEXAS

Leads All Other States in Matter of Construction, Having Added 933 Miles.

Texas led all other states in the matter of road building in 1922, having added 933 miles during the year. The average for all states was 209 miles. Sometimes it is a good idea to stop planning what we're going to do just for a moment in order to contemplate what we have accomplished. Five years of this sort of progress and traveling salesmen will be the envy of all who know the joy of a good car and a good road.

Roads With Banked Curves.
Highway engineers in England are constructing roads with an allowance for super-elevation on corner curves wherever desirable. French road engineers long ago adopted the banked curve, and in some parts of the United States they are now in use.

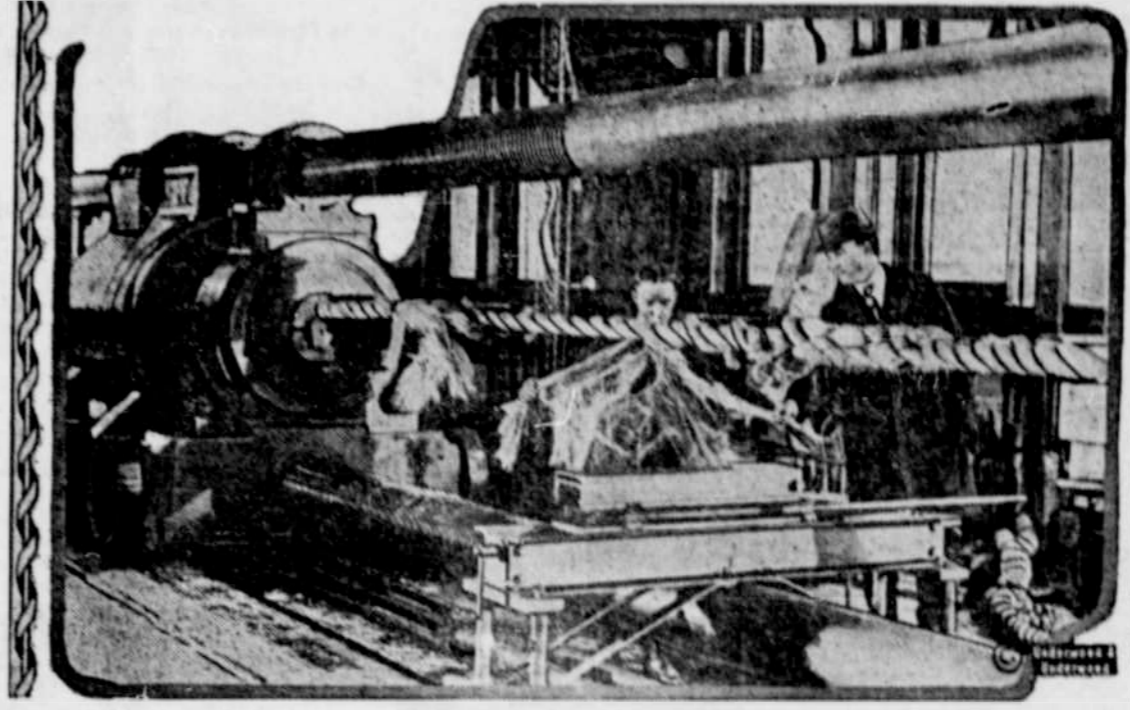
Would Color Highways.
In England, the suggestion has been made that the public highways be colored by means of some cheap chemical spray which would make them less tiring to the eyes of motor drivers.

Too Few Good Roads.
A good man sets an example; a good road is likewise an example; and as we have too few good men so have we too few good roads.

Time to Cease Talking.
Only when we find a travelable road going past every farm, through every village and city, will it be time to cease talking good roads.

Trying Rubber Roads.
Rubber roads are being tried in England.

Uncle Sam's Great Testing Machine in Operation



Dr. F. R. McGowan, chief of the textile division of the bureau of standards, and Dr. F. C. Brown, acting director of the bureau, inspecting a four-inch manila hamp hawser broken by the most powerful precision testing machine in the world, which is located at the bureau. The machine is capable of exerting a compression of 2,000,000 pounds and a tension of 1,300,000 pounds. It is used to test the strength of hamp and wire cables.

Wise Men Often Fooled by Girls

Recent Escanaba Fever Hoax Recalls Fasting Young Women Who Astonished Sages.

What, do you think, was the object of these girls in pulling the stunts they did?

New York.—Temperatures as high as 114 degrees Fahrenheit, registered with the aid of a hot-water bottle by Miss Evelyn Lyons, who fooled the doctors of her home town, Escanaba, Mich., for more than two weeks, are actually recorded sometimes in cases of sunstroke, according to local medical authorities, who explain that the patient always dies within four or five hours unless the temperature is reduced. Hysterical temperature or thermal ataxia, occasionally will run as high as 108 or 110 degrees without giving permanent injury, according to some medical textbooks.

The young woman of Escanaba was described as a "hysterical malingeringer" by Dr. Morris Fishbein, editor of the Journal of the American Medical Association, who investigated her strange case and exposed her deception. It was found that Miss Lyons was running a slight temperature, due probably to injuries she is said to have received in an automobile accident. Miss Lyons' case suggests the cases of the "fasting girls"—found as far back as the Middle Ages—whose deceptions, usually the result of hysteria, convinced many learned men of their time that they were able, with the aid of some mysterious power, to live for long periods without eating.

Hysteria, in the opinion of many medical authorities, is certain to be accompanied by mental changes, in some cases disclosing only a lack of balance and will power, the partial loss of memory, or in other cases recurring melancholy, sudden emotional outbursts, loss of judgment and disregard of truth. One of the marked symptoms of the affliction is a craving for sympathy.

The last two symptoms were the basis for the strange actions of the "fasting girls" and self-mutilating martyrs, as well as of persons who sometimes pretended they were suffering from paralysis, tumor, stone in the bladder, and who often were eager to submit to surgical operations.

The story of a nun at Leicester who was said to have taken no nourishment for seven years, yet preserved her strength and health, attracted the attention of Hugh, bishop of Lincoln in 1225. He assigned 15 clerks to observe the subject without relaxing their vigil. When the clerks reported to the bishop that they had followed his instructions and had found that the nun took no food, the bishop said he was convinced of the genuineness of the nun's claims.

Grew Without Eating.
One of the most striking cases in the early part of the modern era was that of Margaret Weiss, a girl of ten years who lived at Rode, a small town near Spire. A history of the case of the little girl was left by Geraldus Buccodlanus, whose patient she was. The girl was said to have taken no food or drink for three years, during which time she continued to grow, to walk about, laugh and enjoy herself like other normal children of her own age. She was said to have suffered greatly from hysteria during the first year.

The child played her part so well that she was sent home to her friends by order of the king after she had been watched persistently and declared to be no dissimulator by Doctor Buccodlanus and the parish priest.

"Doctor Buccodlanus appears to have been somewhat staggered," says Dr. William A. Hammond in his book on "Fasting Girls," for he asks very pertinently: "Whence comes the ani-

Two-Foot Snake Is Found in Calf's Body

A year-old calf owned by Henry L. Clarke, of Ewart, Mich., died under mysterious circumstances. Unusual symptoms baffled veterinarians, so an autopsy was held. A two-foot water snake was found twisted around the lungs and heart of the animal.

Death came when the snake began eating its way through the walls of the stomach.

reached from two to four o'clock in the morning and the highest after eating. The normal range is less than 2 degrees. Death usually follows temperatures below 80 degrees and above 100, but variations from 75 degrees to 112 have been recorded where the patients survived.

Compared with the mean average temperature of 98.4 degrees in man some of the lower animals show markedly higher temperatures. The sparrow, for instance, has a temperature of 110. The temperature of the horse varies from 99 to 100 degrees, the ox 100 to 101, the cow 101 to 102, sheep 104 to 105, the dog 100 to 101, the cat 100, the pig 101 to 103, the rabbit 101 to 107, and the duck-bill platypus 70 degrees. The hen has a temperature of 106 to 109 and the duck 107 to 110.

Of diseases in general fever is one of the most common accompaniments. Temperatures in excess of normal are largely caused by toxic poisoning, although in some cases fever is caused by nervous shock. In children's diseases high temperatures may develop suddenly and subside rapidly. In typhoid fever, for many years one of the most dreaded diseases, the temperature at first registers from 104 to 105 in the evening and 103 to 104 in the morning. In the second and third weeks the daily range is comparatively small.

Sixty Raw Eggs One Meal.
Winsted, Conn.—Sixty raw eggs just about satisfied Mooney Gangl when he went into a cafe for a meal. Then Gangl had to eat two big sandwiches to settle his stomach.

James Casey lost a wager as the last egg slipped down and paid for the meal.

Tea Grown in Pennsylvania.
Pennsylvania has a tea crop in the vicinity of the Blue Mountains region, which largely supplants Oriental tea in that district.

Silence Infectious.
It is always observable that silence propagates itself, and that the longer talk has been suspended, the more difficult it is to find anything to say.—Samuel Johnson.

At Least, She Thinks So.
The trouble is, if he has discretion enough not to write her letters that can be used in court, he doesn't love her enough to be convincing.—Exchange.

Birds' Attitude in Sleep.
Birds, with few exceptions, sleep with their heads turned tailward over the back and their beaks thrust beneath the wing.

That Word "Saffron."
The word "saffron" comes into the English dictionary from the Arabic. The Arabs use the word "zafaran" to designate a species of crocus with light purple flowers which develop in autumn. The plant grows in parts of Asia and in the south of Europe.—Milwaukee Sentinel.

That's the Trouble.
A road hog can't decide which half of the road he wants to use.—Nashville Tennessean.

"Some Baby."
At the time of its birth the giraffe measures six feet from its hoofs to the top of its head.

Last Run After 53 Years' Service



George Bemis, Indianapolis, Ind., railroad engineer for fifty-three years, is shown boarding his engine for his last run. He never made a run without first kneeling in the cab of his engine and praying that the Lord might help him to bring his passengers safely to their journey's end. Bemis retired from service in the Big Four at the age of seventy years and without an accident in the fifty-three years' service.

THE AZORES HIT BY PROFITEERS

Foreign Ships Practically Quit Stopping at Islands Since the Jump in Prices.

putting into the island ports for repairs and supplies. Days and days pass at Ponta Delgada and Fayal, and no ship shows up. The ships do not come principally because local authorities have succumbed to the temptation of profiteering. Meat has been, and is sold today, at residents at one escudo (about \$2) a kilogram. But the town hall authorities have a monopoly in the sale of this commodity, and they have fixed the price to foreign ships at 20 escudos a kilogram. American and other captains have been instructed by the owners not to replenish at the Azores. Hence they give the Azores a wide berth.

Are Known as Midshipmen.
The students of the United States Naval academy at Annapolis are called midshipmen. Previous to 1902 they had been called naval cadets, but in that year the old term midshipman was revived.

After Every Meal

WRIGLEYS

In work or play, it gives the poise and steadiness that mean success.

It helps digestion, allays thirst, keeps the mouth cool and moist, the throat muscles relaxed and dilated and the nerves at ease.

FOR A BETTER SCORE

Man and the Flowers.

The fragrance of plants is not for man's pleasure; it is a means of attracting insects to fertilize them. The object of many present-day florists is to improve a flower in its coloring, size and substance—in short to "paint the lily." They cannot improve the fragrance, which is perhaps the reason they seem to care so little for its disappearance under their handling.—Exchange.

Birds and Animals Exterminated.
Louis Agassiz Fuertes, the well-known naturalist, says that about fifty species of birds and animals have been exterminated in the United States, while several others are on the verge of extermination. The buffalo (or bison) is not extinct, there being nearly 70,000 living buffaloes in the United States today.

Watch Cuticura Improve Your Skin.
On rising and retiring gently smear the face with Cuticura Ointment. Wash off Ointment in five minutes with Cuticura Soap and hot water. It is wonderful sometimes what Cuticura will do for poor complexions, dandruff, itching and red rough hands.—Adv.

Original Use of Word "Dope."
The word "dope" as applied to drugs comes from the Dutch "doop," which in English originally meant a thick liquid or semi-liquid. It was first applied as a term for the treacliclike preparation of the opium smoker.

Jazz Records.
Pond Mother—"Jack writes home and says that he has broken seven of the college records—one of them the record." Poor Dad—"More expense! I suppose I'll have to send him a check to cover the damage."

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