

# Increasing Cattle Weight

## Yearlings Will Fatten More Quickly and Require Less Grain Per Pound Gain Than Older Cattle

By Dean F. B. Mumford, of the College of Agriculture, University of Missouri

Other things being equal, the younger the animal the larger will be the gains in live weight from a given amount of food. No principle in connection with the feeding of meat animals has been more firmly established than this. If other factors remained always the same, then the number of pounds of grain required to make a pound of gain would be an accurate measure of the efficiency of different animals for meat production. Measured by this standard, young animals would invariably be more profitable to feed.

But in practice other factors may conspire to overcome the greater ef-

shorter time than do the younger cattle.

It has been shown also that the longer the animals are fed the more grain is required to make one pound of gain. It might, therefore, easily follow that in order to finish young animals to the same degree of fatness as more mature cattle they would have to be fed for so much longer periods that the average amount of grain fed to make a pound of gain in young cattle would be as large as in the case of the more mature animals.

Perhaps no other factor bears a more important relation to the ultimate profits in meat production than



Feeding Cattle on Bluegrass.

iciency of young animals in the production of animal tissue.

One factor which may exert a more powerful influence over the gains made than age is the condition of the animal at the beginning of the feeding period. A two or three year old animal in thin condition may make gains in live weight from the same or a smaller amount of grain than a yearling. It is easy to understand that a young animal in a fat or half-fat condition at the beginning of the feeding period may require more grain to make a pound of gain than will a two or three year old animal in thin condition.

Another factor which determines to a certain extent the age of cattle most profitable to feed is to be found in the requirements of the fat cattle markets for a certain amount of fatness in the animals shipped to market by the producers. The fatter the animal, within certain limits, the higher the price paid by the buyer. Here again it is unquestionably true that the older and more mature animals will reach the desired degree of fatness in much shorter time than will young animals. Older cattle reach a certain stage or degree of fatness in a much

does the margin between the buying and selling prices; and here again it is undoubtedly true that under existing conditions the margin is wider on mature, thin cattle than upon more fleshy, young cattle. The thinner the animals the less the competition among the buyers of feeder cattle and the butchers. In the case of fat or half-fat animals the feeder must compete with the killer, and, therefore, will always pay a relatively higher price for half-fat than for thin animals.

We must conclude, therefore, that the amount of grain required to make a pound of gain is not an accurate measure of profitable cattle feeding. It is also reasonable to assume that it may often happen that larger profits will result from the feeding of mature thin cattle than from feeding younger animals.

Yearlings require less grain to make a pound of gain than do older cattle. They likewise require a smaller total amount of grain to make them fat. It must be said, however, that in our experiments the yearling cattle have not attained the same degree of fatness so readily as did the more mature animals.

A short course of 308 students was conducted by the College of Agriculture during the past winter. The students attending represented 37 Missouri counties and five other states. They were enrolled in four different courses—the two-year winter course,



the short course for women, the short course in dairying and the special poultry course.

It is 17 years since the first short course was offered by the College of Agriculture. During this time 1,850 students, representing practically every county in the state, have attended these courses.

The present two-year winter

course, consisting of two winters of 14 weeks each, was organized in 1909. Each winter is divided into two terms of seven weeks each, and each term is a unit by itself. Students who complete the work of all four terms are given a certificate. One of the most

satisfactory indications of the progress of the course is the fact that each year a larger number of the students return to complete the course and receive certificates. In the spring of 1911 seven students completed the course and received certificates. At the close of the present session 33 students will receive certificates of graduation.

First One Brave Enough. If the case of the juror who asked the court whether he had to listen to "this rot," meaning the attorneys' arguments, is the first on record, it is not because countless jurors before him did not want to ask the question.—Detroit News-Tribune.

Too Formal. "Are you on friendly terms with your neighbor in the apartments?" "Well, no. She's rather formal. Always sends her card when she wishes to borrow flour, and if she wants both flour and sugar she sends two cards."

And Few Flower Bills to Pay. "I've got a date with a pretty girl," proudly announced young Flip to his office mates. "That's nothing, returned old Coder, holding up a handsome new calendar. 'I've got 365 dates with a pretty girl.'"

Can Be in Too Great Hurry. The man who is in a hurry to reach places he is unfit to fill will only open the way for a permanent setback by pushing ahead of his own capacity to satisfactorily fulfill.

Simple Headache Remedy. A nervous headache may frequently be cured by several slices of lemon in a cup of strong tea and a bilious headache is almost invariably put to rout by a tablespoonful of lemon juice in a cup of black coffee.

Bishop Not Qualified. Comments by the bishop of London (Dr. Ingram) on the falling birth-rate were quoted by counsel in a case in the Clerkenwell court, when Judge Clegg remarked: "What has the bishop to do with it? He is not married. Example is better than precept."

Prospective Tenants—"There's one great disadvantage about this house; it is damp." Landlord—"That's no disadvantage. If a fire were to break out it wouldn't burn nearly so fast."

Puck. How much more detestable a fault appears when we can trace it to some one whose position in life we envy.

# KUKUHUSUS LITTLE KNOWN

## Mysterious Race Who Live in New Guinea, Refuse to Meet Europeans in Their Camps.

London.—Dr. Bruno Bebelm gave the following description of the mysterious and little known race of the Kukuhusus of New Guinea: The Kukuhusus live in a part of English territory through which runs the River Qukheama and which is situated near the German boundary. This territory is looked upon by the said race as their inalienable birthright, and every usurper is regarded with hostile eyes. No European has been able to meet the Kukuhusus in their dwelling places. Prospectors and English officials have made repeated attempts to approach them, but their camps were invariably found empty, often with the camp fires still burning.

Many a time have Europeans left presents highly prized by other natives, such as coral, red cloth, looking glasses, axes, etc., in the deserted camps, in the hope of establishing friendly relations with these people. But on returning to the same places a few days or a few weeks later, although the camp showed recent traces of occupation, such as live cinchers and fresh footprints, the goods intended



Wild Scenery in New Guinea.

ed for presents remained untouched where they had been placed.

Other races of New Guinea fear the Kukuhusus as poison. They have learned to their cost what it means to cross the boundary. Some disappear for all time, while others are found dead, thrust through with spear wounds. The Kukuhusus, however, do a bartering trade with other natives in the following way: The latter bring salt, earthenware, dried fish, etc., and deposit them in a certain indicated place. They then retire for a few hours, being notified to do so by a curious cry from the distance. The timid mountain dwellers then descend to view the goods offered for sale. If they want them they put down other goods, such as skins, feathers and other jungle produce next to those articles wanted by them. Then they retire in turn, and when the way seems clear the coast dwellers approach again. If the latter are satisfied with what is offered in exchange they take the goods put down by the mountain people and go away; if not satisfied they retire again as before with empty hands. These business transactions between wild races show a sense of honor that resembles careful thought.

Doctor Bebelm regards the Kukuhusus as the most remarkable of the ethnological wonders of New Guinea, and he was not successful in discovering the secret of their origin.

# LIFE FOR THEFT OF BACON

## An Ohio Convict Went insane Before Pardon Came—May Spend Days in Asylum.

Columbus, O.—William Welch, thirty-five years old, the man who received a life sentence in the penitentiary for stealing a piece of bacon, is no longer a convict. Governor Cox announced his pardon. But the governor could not restore Welch's reason, which has fled after five years in prison. It is likely that the unfortunate man will have to spend the remainder of his days in the asylum.

Six years ago Welch, a New York City walf, was caught with a piece of bacon, valued at one dollar, which he had stolen from a farmer at Greenville, because, he said, he was hungry and unable to obtain work.

He pleaded guilty to the charge of burglary, believing that leniency would be shown him. Instead, Judge Allread sentenced him to a life term. Application for his pardon was signed by Judge Allread and the prosecuting attorney.

DENTIST WEDS APPLE EATER

Dr. Thomas Allen, Who Lived Two Months on Peanuts, Bridegroom in Missouri.

Dr. Allen, former president of Aurora college, who lived 60 days on peanuts, and Miss Lillian Suehr of Ottawa, who is said to have existed 92 days on apples, were married in Eureka Springs, Mo., where Dr. Allen is proprietor of a sanitarium.

The bridegroom is fifty years old, his bride is twenty years his junior. The bride was a stenographer for years for Lee O'Neil Browne, Ottawa legislator. She went to Eureka Springs last fall for the benefit of her health, and while there met Dr. Allen.

Dr. Allen four years ago read that a boy in the central part of the state had died from eating peanuts.

"Why, that must be wrong; I could live 60 days on raw peanuts," he said.

His statement was challenged, and he went on the exclusive goober diet to prove his contention.

Pian to Aid Midget Mascot. Baltimore.—Anxious that little Hughie Golden, the sixteen-year-old midget of Old Nassau's baseball team shall have a chance to develop physically like other boys of his age, the students of Princeton university are preparing to have the lad undergo treatment. Golden is but two and a half feet in height, having been injured when a child.

# WOMAN'S ILLS DISAPPEARED

## Like Magicafter taking Lydia E. Pinkham's Vegetable Compound.

North Bangor, N. Y.—"As I have used Lydia E. Pinkham's Vegetable Compound with great benefit I feel it my duty to write and tell you about it."

I was ailing from female weakness and had headache and backache nearly all the time. I was later every month than I should have been and so sick that I had to go to bed.

"Lydia E. Pinkham's Vegetable Compound has made me well and these troubles have disappeared like magic. I have recommended the Compound to many women who have used it successfully."—Mrs. JAMES J. STACY, P.O. No. 3, North Bangor, N. Y.

Another Made Well.

Ann Arbor, Mich.—"Lydia E. Pinkham's Vegetable Compound has done wonders for me. For years I suffered terribly with hemorrhages and had pains so intense that sometimes I would faint away. I had female weakness so bad that I had to doctor all the time and never found relief until I took your remedies to please my husband. I recommend your wonderful medicine to all sufferers as I think it is a blessing for all women."—Mrs. L. E. WYCKOFF, 112 S. Ashley St., Ann Arbor, Mich.

There need be no doubt about the ability of this grand old remedy, made from the roots and herbs of our fields, to remedy woman's diseases. We possess volumes of proof of this fact, enough to convince the most skeptical. Why don't you try it?

# MANY IDEAS ABOUT THE PIN

## Superstition of All Kinds Has Been Gathered Around Humble Household Implement.

During the reign of James I., the metal pins came into fashion. In 1817 a machine for producing entire pins was invented by an American, Seth Hunt, but it remained for Samuel Wright, of Massachusetts, to patent in 1824 the wonderful pin-making machine which is generally used today.

A certain amount of witchery and romance has always been associated with the humble pin. In olden times it was regarded as a charm against, and also as an implement of witchcraft. Witches were supposed to force their victims to swallow pins, while, on the other hand, pins stuck in the heart of an animal and carefully preserved were considered the appropriate antidote to evil influences.

In Wales there existed a grim superstition that a toad pierced with pins would cause the life of an enemy to wither as the poor creature itself slowly died. In Russia it is considered unlucky to meet a priest on leaving a house—a state of affairs which can only be remedied by throwing a pin at him; and in Iceland if a man is suspected of walking after death, pins and needles are thrust into the feet of the corpse.

Readers of Romance will remember how people were believed to be bewitched and led to lingering death by regularly sticking pins into wax effigies of them. Even today in the back country a favorite "charm" to make the cream churn into butter is the dropping of hot pins into it.

# PIMPLES COVERED FACE

1613 Dayton St., Chicago, Ill.—"My face was very red and irritated and was covered with pimples. The pimples festered and came to a head. They itched and burned and when I scratched them became sore. I tried soap and they would not stop the itching and burning of the skin. This lasted for a month or more. At last I tried Cuticura Ointment and Soap. They took out the burning and itching of the skin, soothing it very much and giving the relief that the others failed to give me. I used the Cuticura Soap and Ointment about three weeks and was completely cured." (Signed) Miss Clara Mueller, Mar. 16, 1912.

Cuticura Soap and Ointment sold throughout the world. Sample of each free, with 32-p. Skin Book. Address post-card "Cuticura, Dept. L, Boston." Adv.

Woman Who Can Do Things. Gen. Sir Robert Baden-Powell believes in the woman who can do things, and the other day he held up Lady Baden-Powell as an exponent of this much-desired art. The chief and founder of the Boy Scout movement was describing a tour that his wife and he recently made in Algeria. "I saw Lady Baden-Powell," he said, "not so long ago in—what is the feminine for shirt sleeves?—scrubbing out a sauceman. We were living the simple life in the desert. We had only one pan, and that was a sauceman. It had to do for frying our fish in the morning and also for boiling our coffee in. After the lady had done the fried fish she had to get some grass roots and sand and scrub the pot out so that we could make our coffee in it. The lady was quite able to do it, and she did it well. She also did the washing. But, General Baden-Powell added, "I must stand up for the Scouts and the mere man—she had to fall back upon me to do the ironing."

Heading Her Off. "Do you love me, George?" "Yes, dear, I love you, but go a little light, for I won't have any money until pay day."

Honesty never looks better to a man than when it comes home to roost.

# A BOY INTERPRETER

## A Young Massachusetts Swede in Canada Twenty Years Ago Wants to Return.

Twenty years ago, a blond-haired young Swede, a boy of about 10 years of age, accompanied a party of his fellow-countrymen on the then long trip to Western Canada as an interpreter. The party he accompanied located at Wetaskiwin, Alberta, now one of the most thriving and best settled districts in Western Canada. For three years he remained in the district. Homesickness took him back to his home at Pithburg, Mass., and he has remained there for 17 years. He has heard frequently from his friends in the West. He has followed their movements and watched their progress. He has heard how the town he helped to establish has risen from a shack to a growing, thriving, brisk business center, with the surrounding country peopled now by thousands who are occupying the territory in which he was one of the first to help plant the colony of twenty or twenty-five. In his letter to an official of the Department of the Interior, he says:

"When I was up in Canada, Calgary was a small town and so was Edmonton, but I understand they have grown wonderfully since."

The young man when he went last learned a machine trade, he has patents and inventions but he wants to go to Canada again. And he likely will, but when he does he will find a greater change than he may expect. Calgary and Edmonton are large cities, showing marvelous and wonderful growth. Where but one line of railway made a somewhat tortuous and indefinite way across the plains to its mountain pass, there are three lines of railway dividing the trade of hundreds of thousands of farmers, carrying freight to the hundreds of towns and cities crossing and criss-crossing the prairies in all directions, reaching out into new settlements, and preceding districts to be newly opened for incoming settlers. He will not be able to secure a homestead unless at a considerable distance from the town, the three dollar an acre land is selling at from \$15 to \$35 an acre. He will find now what was but a theory then, that this land that was then \$2 an acre is worth the \$20 or \$25 that may be asked for it, and a good deal more. But he will find that he can secure a homestead just as good as any that were taken in his day, and today worth \$35 an acre, but at some distance from a line of railway, yet with a certainty of railway in the near future, and he will find too that he can still get land at \$15 to \$18 an acre that will in a year or two be worth \$30 or \$35 an acre. Mr. Moseon is talking to his countrymen about Canada. Advertisement.

Old Pie Shops Disappearing. With the decline of the la mode beef shop in London one notes also the disappearance of most of the old-fashioned pie shops, such as the famous eel-pie shop in Fleet street that the youthful fancy of the writer always associated with the story of Sweeney Todd, "the demon barber."

The itinerant vender of sheep's trotters has also disappeared, as well as the seller of sandwiches at the doors of theaters, while the peripatetic pie has quite vanished from the streets. In their place we have the all-conquering but malodorous fried-fish shop, which has multiplied fourfold during the last twenty years.—London Chronicle.

Soda Lake in Africa. In English East Africa is the richest bed of soda in the world. Engineers say that it contains 200,000,000 tons. The lake has a surface of more than 50 square kilometers. During the rainy season, which in this locality is short, its surface is covered with a shallow layer of water. When a block of soda is taken out, another forms, and the natives say that this occurs so quickly that an equal amount of soda may be abstracted for a number of years from the same place.—Harper's Weekly.

Important to Mothers. Examine carefully every bottle of CASTORIA, a safe and sure remedy for infants and children, and see that it bears the Signature of *Chas. H. Fletcher* in Use For Over 30 Years. Children Cry for Fletcher's Castoria

True Love. "And would you die for me?" "Certainly not. I would rather live forever than to give you such a cause for grief."

FOLEY KIDNEY PILLS. For Backache, Rheumatism, Kidneys and Bladder. BECAUSE THEY ARE RIGHT IN CURATIVE QUALITIES, CONTAIN NO HABIT FORMING DRUGS, ARE SAFE, SURE, AND SAVE YOU MONEY.

Good Idea. As to the low taxes, let's lower the indirect taxes—for example, that tax of 40 million dollars a year that tuberculosis levies in Missouri.—St. Louis Republic.

Detachable. "Is her hair a crown of glory?" "Yes, and every night she 'abdicates.'"—Town Topics.

To Relieve the Pain of a Burn Instantly and take out all inflammation in one day, apply the wonderful relief of *MONROE'S*. Relieves pain and heals at the same time. 2c. per bottle.

Of course, there are lots of big fish in the sea. Everybody has seen one or two side of the hook.

Mrs. Winslow's Soothing Syrup for Children teething, softens the gums, reduces inflammation, allays pain, cures wind colic. 2c. a bottle.

Relatives of a newly married couple never interfere—if they haven't any.

# REGARD PRISON AS HOTEL

## English Veterans in Crime Find Degree of Comfort in Incarceration in Their Declining Days.

Prison hotels, where habitual criminals are housed, are being made so comfortable in England nowadays that offenders who have spent their lives in criminal pursuits and have reached the retiring age are now adopting the custom of committing serious crimes when they arrive at the age of sixty or thereabouts in order that they may pass their remaining years in the peaceful precincts of the prison hotel. One of these institutions is now in the course of building at Parkhurst, Isle of Wight, and soon will be occupied by some seventy or eighty aged convicts, who have become privileged prisoners under the scheme originated by Winston Churchill a few years ago, says the New York Tribune correspondent.

The "old brigade" have mostly very light indoor or outdoor work in association. They are permitted to talk to each other. They are allowed an armchair and a bedstead in their cells, and as well as religious and other periodicals, and where chewing is difficult, owing to loss of teeth, minced meat and beef tea are included in the dietary.

The conditions of these worn out veterans of crime have been very considerably ameliorated and the vast majority of them are keenly alive to the fact," says the prison chaplain in his last report. "They are grumblers, after all, but not one, and is, moreover, a safety valve of some value.

"So satisfied are the greater number that I am afraid many of them will return to penitentiary on purpose to end their days in comfort and cleanliness. One man more than eighty years old told me on his discharge that he could not earn a living, he would not go to the union and he intended to come back here. He was set at liberty on January 1 and was reconvicted within a few days.

"Another man who had served a long sentence returned recently."

Dayton Has Had Six Floods. Dayton, O., has stood in the shadow of disaster from flood ever since its foundation. No less than six times previous to the present inundation have the rivers which flow through it left their accustomed courses and brought death and destruction of property upon the town. The first of these floods occurred in 1805, the very year that Dayton was incorporated as a town. The sixth was in 1898 and the others in the years 1847, 1863, 1866 and 1888.

Good Polish. To make a polish for patent leather make a mixture of one part of linseed oil and two of cream. Mix it thoroughly and apply with a flannel, after removing every particle of dust from the shoes. Then rub the leather with a soft cloth.

QUININE AND IRON—THE MOST EFFECTUAL GENERAL TONIC

Grove's Tasteless Chill Tonic Combines both in Tasteless Form. The Quinine drives out Malaria and the Iron builds up the System. For Adults and Children.

You know what you are taking when you take GROVE'S TASTELESS CHILL TONIC, recognized for 30 years throughout the South as the standard Malaria, Chill and Fever Remedy and General Strengthening Tonic. It is as strong as the strongest bitter tonic, but you do not taste the bitter because the ingredients do not dissolve in the mouth but do dissolve readily in the acids of the stomach. Guaranteed by your Druggist. We mean it. 50c.

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The Wonderful, Old Reliable Dr. Porter's Antiseptic Healing Oil. Prevents Burns, Poisoning. An Antiseptic Surgical Dressing discovered by an Old R. R. Surgeon.

Thousands of families know it already, and a trial will convince you that DR. PORTER'S ANTISEPTIC HEALING OIL is the most wonderful remedy ever discovered for Wounds, Burns, Old Sores, Ulcers, Carbuncles, Granulated Eye Lids, Sore Throat, Skin or Scalp Diseases and all wounds and external diseases whether slight or serious. Continually people are finding new uses for this famous old remedy. Guaranteed by your Druggist. We mean it. 25c. 50c. 1.00

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Written in simple English. Tells what you want to know, in a way you can understand. Full of valuable information for every woman, whether sick or well. Sent free in plain wrapper, upon receipt of request. All correspondence strictly confidential. Just say: "Send your Home Treatment Book." Address: LADIES' ADVISORY DEPT., Box 304, St. Louis, Mo.

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READERS of this paper desiring to know why their chicks die should insist upon having what they ask for, refusing all substitutes or imitations.

AGENTS Men and women to represent "W. L. DOUGLAS" an elegant skin cleanser. Sample free. Full particulars and special offer. Indicate to Dept. 2, 419 1/2 St. Louis, Mo. Free.

PATENTS Watson E. Coleman, Washington, D.C. Books free. High-class references. Best results. W. N. U., ST. LOUIS, NO. 16-1913.

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Color more goods brighter and faster colors than any other dye. One 1/2 package colors all fibers. They dye in cold water better than any other dye. You can dye any garment without ripping apart. Write for free booklet—How to Dye, Bleach and Mix Colors. MONROE DRUG COMPANY, Quincy, Ill.

Good Idea. As to the low taxes, let's lower the indirect taxes—for example, that tax of 40 million dollars a year that tuberculosis levies in Missouri.—St. Louis Republic.

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Marquess of Sligo in Indian Mutiny. Lord Alton, who through the death of his aged father, the other day, has become marquess of Sligo, was through the Indian mutiny. His father, who was in the Indian civil service, was stationed at Bankipur when the mutiny broke out.

Lord Sligo's wife and infant son, seven months old, the new marquess, were sent for safety to a place which was surrounded by rebels for a fortnight. The child, however, was safely taken through the sepy lines by a faithful Indian nurse, who dyed his skin as a ruse to pass him off as her own son. A long time passed before the boy was restored to his anxious parents, who meantime had to go through a further siege at Monghyr.

The new marquess recently celebrated his silver wedding. On the actual anniversary day he had to be in Scotland, but he sent his wife a telegram with the characteristic message, "Twenty-five years without regret."

LEWIS' Single Binder cigar: sixteen years on the market and always the same rich satisfying quality. Adv.

Parcel Post Adventure. "I had a tough time delivering the mail yesterday," declared the postman.

"How was that?" "Had a bulldog and a chunk of liver in the same delivery."

Suffer Little Children. "He says he loves little children." "He ought to. He employs about 2,000 of them and they are making him rich."

Squire Sawyer says the pace that kills is largely set by fluffs and frills

Despondent? Have you frequent headaches, a coated tongue, bitter taste in the morning, "heartburn," belching of gas acid eructations in throat after eating, stomach growls or burrs, foul breath, dizzy spells, poor appetite?

A torpid liver is the trouble in nine cases out of ten

Dr. Pierce's Golden Medical Discovery

is a most efficient liver invigorator, stomach tonic, bowel regulator and nerve strengthener.

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ABSORBINE TRADE MARK REG. U. S. PAT. OFF.

Removes Bursal Enlargements, Thickened, Swollen Tissues, Curbs, Filled Endons, Soreness from any Bruise or Strain, Stops Spavin Lameness. Always pain. Does not blister, remove the hair or lay up the horse. \$2.00 a bottle, delivered. Book 1 K free.

ABSORBINE, JR., the antiseptic liniment for manning. For Synovitis, Strains, Gouty or Rheumatic Deposits, Swollen, Painful Varicose Veins. Will tell you more if you write. \$1 and \$2 per bottle at dealers or delivered. Manufactured only by W. F. YOUNG, P. O. 69 Temple St., Springfield, Mass.

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