

Seasonable and Profitable Hints for the Busy Tillers 3 of the Soil.

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KEEPING MILK.

In a recent press bulletin issued by the Indiana experiment station Prof. H. E. Van Norman states that milk sours because of the process of growth the multiplication of the bacteria the milk sugar is changed to lactic acid. When there is enough acid present to be apparent to the taste, the milk is said to be sour. Since the keeping quality of milk bears a direct relation to the bacteria which gain access, it is important to prevent their getting into the milk. The udder and jacent parts of the body which are much shaken during milking is one of the chief sources of infection, while the dust of the stable, the hands and clothes of the milker, together with the pails and cans used are only slightly less important sources. Experiments show that milking in a stable where the circulation of air can carry the dust out, wiping the udder with a damp cloth and scalding utensils with live steam or boiling water, will not only reduce the bacterial content of the milk, but increases the keeping quality of the milk materially. A covered milk pail, with only a small opening to milk into, reduced the number of germs falling into the pail, and the milk kept sweet hours longer.

Immediate cooling after milking is next in importance. Milk allowed to stand two hours without cooling contained 23 times as many germs as when milking was finished, while that which was cooled to 54 degrees only had four times as many at the end of two hours. This emphasizes the importance of quick and thorough cooling.

Milk when first drawn has a peculiar flavor, or cowy taste, more or less noticeable, which if not driven off by aeration (exposure to the air) milk may be set in a tub of water to little grasses which they relish. stands. cool. The cooling and aeration may During the berry season, especially | Sheffield. Duke of Buckingham, he better and quicker done by run- when wild strawberries are ripe, it purchased the property in 1698, and ning the milk over a combined cool- is a pleasure to watch the little built a new house in place of the er and aerator or other similar ap- turkeys pick and eat them. paratus having provision for run- In seasons when there is a good Buckingham House. The situation ed utensils, quick and thorough young turkeys have to be fed, the London lived the greater part of the cooling aeration, less exposure to best food we know of is stale bread, day and much of the night, and at dunt of street when delivering, will but be sure the bread is not sour; the back there was country as far as increase keeping quality of market by stale bread we mean any kind of the eye could reach. As the Duke milk. If properly done one delivery bread three or four days old. It is wrote: a day will be all that is necessary.

## ENSILAGE.

have had experience in making silage warmest weather of summer it is of anything but corn. Therefore the important to keep turkeys hungry, editor of Practical Farmer will have for if you do not there is great danto tell what he has done. About 15 ger of their having bowel trouble. years ago, having a large second Food necessary to keep turkeys in was here that the King-advised by from the utter substitution of congrowth of clover, we concluded to good health is ground charcoal, but Dr. Johnson-collected the great centrated mind force for electricity. put it in the silo, as the season was be sure not to have it ground fine, library which is now one of the rainy and the prospect for curing it as turkeys will eat it better when chief treasures of the British Mu- appear to the uninitiated, it yet poor. We filled a large silo with the it is very coarse. On a farm they seum. clover, running it through the cutter can ordinarily find all the grit that In 1825, Nash and Blore built the hard-shelled scientist. Sir William stituted for cards, figures or coljust as we did corn. It kept per- it is necessary for them to have, but fectly, but when opened for feeding the eggs will hatch better if the turit moulded very rapidly. Taking off keys have oyster shells. These also the surface several inches daily, by the next day the whole surface would be white with mould again. The cows seemed to like it, and we could see no bad enects from it, but we did not care to use mouldy feed, and so turned most of it over to the hogs, which are supposed to digest anything. That same fall we sowed or twice a day. The lots and pasa large area in rye for cutting green in the spring. There was more of it than we could use in this way, and after it was headed and the grain in the dough we cut it into a silo and filled it about half full. Later this same silo was finished with corn. When we began feeding in the fall this silo was the first one opened. The corn silage was excellent, and the cows enjoyed it greatly. Along in the winter we got down to the rye, and not a cow would eat it, and the whole was used for bedding purposes. These were the only inin which we tested other crops than made from corn alone we know to balance the ration, while if we thing about the ration. Sorghum has been used for ensilage making, would imagine that there could be no sourer silage made than would result from the use of sorgis the silo plant without a rival. the cutting of the whole for the silo. been sitting on my hat for the past public The man who tries this once on two hours, and I didn't want to tell good soil will never be rash enough her." Irate Parent-"Then hereafto try it a second time, for I cannot ter don't keep your hat on your lap. It was in St. James's Park that cracks. imagine a meaner job than the cut- Hang it up on the peg in the hall." high and low walked, flirted, dined, Quietude is essential to the success over, and now has 78.

ting of such a tangled mass. We advise, then, the making of clean ensilage, and then use the other materials for balancing the ration, but not in the silo.

#### POULTRY.

There is one point upon which the best success in poultry keeping largely depends, in respect to which not enough is known of the best methexperts is earnestly desired for fur- life of the nation. ther enlightenment.

tection against these three serious hundred years. and obstinate evils: (1) Vermin, (2) In 1532 Henry VIII. obtained by foul odors, (3) scabby legs and exchange the Hospital of St. feet ?

thered biped also, that an exact knowledge of the actual, practical system that secures them would doubtless be hailed and adopted with great satisfaction by many. Cannot we have a Iff.tle symposium on this precise point, giving us the explicit rules of those who are most successful in this regard with fowls in close confinement ?

As whatever affects hzalth, comfort and high condition has an important bearing upon production, no doubt the highest cleanliness will also tell in a fuller egg basket.

### TURKEYS.

well to moisten this bread with sweet milk; clabbered milk is also good for the young turkeys. Put it in a pan on the ground where they It seems that none of our readers can get at it easily. During the

need to be ground very coarsely.

## WATER FOR HOGS.

Very few farmers realize the importance of giving hogs all the pure water they require at all times. many places they are watered once tures should be so arranged that the hogs can get to the water in trough whenever they desire it. This is especially important during the hot days of early spring as well as the excessively hot weather in July and August. Hogs will not do well without plenty of water.

## TRANSLATION ERRORS.

their horses to it.

BUCKINGHAM PALACE AND ITS SURROUNDINGS.

The Centre of British History for Centuries-Story of St. James's Park.

The crying want is, in a general certain charitable citizens purchas- main much as they were; some of way, a want of cleanliness. With ed the ground upon which St. the trees which formed the Jacobsay 50 fowls, confined during the James's Palace now stands. They ites'walk still stand; the Parade is By gaslight the white appears bluish joyful season of gardens and lawns there built a hospital for the use of still used by the Horse Guards; St. to a house conveniently arranged fourteen leper women, endowed the James's Palace, its gardens, and the with proper roosts and laying room, charity, and dedicated the property gardens of Marlborough House exand a sufficiently large yard, fenced to St. James. The ground in the ist; and a cow lingers yet at Spring with wire netting, high enough to immediate neighborhood-including Gardens. Not one of the many celedefy the most flighty of liberty-lov- the 155 acres now occupied by St. brated men or women I have named ing hens, what are the very best James's Park, and the Green Park- could fail to recognize the park they methods of insuring cleanliness? was marsh and meadow land, and it loved so well; nor could they lose What is the daily habit of care remained in its unreclaimed state their way, for all the principal feawhich gives the most reliable pro- with little alteration for over four tures are as they were in the times

James's, drove out the leper wo-The bright eye, plumage in fine men-or their equivalents-built a feather, smooth, clean legs and feet, palace on the site, and, purchasing sent a circular to the parents of and neat quarters are also neces- the meadows and marshes which some of the pupils under his charge sary to the comfort of the owner of have been mentioned, reserved them stating that judicious corporal punpoultry, and presumably to the fea- for the use of the court as royal ishment often had a beneficial effect

became the fashion in 1600 to breed when he considered it necessary. silk worms for the purpose of manufacturing silk. James I. planted plies he got: four acres of St. James's Park with mulberry trees in 1609 for the use gin sirkler, and u hav my sankshun of those worms, and in 1629, Lord too wolup my sun Jhon ass much as George Goring was appointed Keep- u like. i no Jhon is a bad skoler, er of the Mulberry Gardens. On his spaleng is simpely atroshes. part of this land Lord George built hav tried to tech him mysilf, but he himself a house, which he named wil not lern nothing, so i hop u wil Goring House; that is the origin of get it intow him as much ass u kan.

### BUCKINGHAM PALACE.

In 1666 the Lord Arlington, who by my wife's first husband." was a member of the Cabal Administration, hired Goring House, and As a rule, many young turkeys are renamed it Arlington House. He it frequently gives the milk an unplea- killed by overfeeding. On large was who, in that year, first brought sant taste even before it becomes farms, it is not necessary to feed tea to England, and it is probable, sour. Aeration may be accomplish- more than once a day where the therefore, that the first cup of tea ed by stirring or by pouring from turkeys have plenty of range. Young drunk in this country was brewed one vessel to another. The can of turkeys can live on insects and many where Buckingham Palace now

old one in 1703, which he named ning cold water through it. Finally, crop of grasshoppers the turkeys will was excellent. From the gates cleaner cows, cleaner milkers, scald- live almost entirely on them. When spread the Mall, where the world of

> It is my delight to be Both in town and countree.

Palace in 1761, for £21,000, annexed several acres of St. James's Park to add to the grounds, and in ments wrought of metal and wood 1775 settled the property on Queen They dispatch single letters, words Charlotte, when the palace became or geometric designs. A great known as "the Queen's House." It economy in their system is realized

present barrack-like palace which the Crookes, prince of British chemists, late Queen was the first sovereign to fellow of the Royal Society, inhabit, and to which Her Majesty coverer of thallium, inventor of the removed from Kensington Palace radiometer and X ray tube and forwithin a month

## AFTER HER SUCCESSION.

most interesting history of any spot telegraph without wires by simply in England: Charles I. led through transferring thought from mind the Mall to execution; Cromwell mind, at the asking the opinion of his friends as to his assuming the title of King; Milton: Charles II. playing at "Pall Mall" under the shade of the elms and the limes, feeding his ducks in stereoptican lantern for projecting the canal, followed by his favorites lights, an easel supporting a blackand his dogs; Lady Castlemaine, La Belle Stewart, Nell Gwyn, the Duch- marked with the letters, words or ess of Cleveland, St. Evremond, designs to be despatched, and Grammont, Evelyn, Pepys, Dryden, Queen Anne and the Marlboroughs, of the transmitting agent. the beautiful Duchesses of Ormonde Some amusing errors are made by and of Bridgewater, Lady Sunder- dark room, and the disks, in turn, translators. An Italian paper turn- land, Belle Dunch, Lady Mary Wort- are attached to its centre. The ed Kipling's "Absent-Minded Beg- ley Montagu, Addison, Fielding, disks are about a foot in diameter, gar" into a "Distracted Mendi- Steele, Swift, Richardson, St. John are of white cardboard, and are imstances in our personal experience cant." Another Italian editor, who Lord Bolingbroke-who, statesman pressed with the letters or figures of translated a passage from an Eng- though he was, once figured in the conspicuous size, printed in black. corn for ensilage making. We have lish paper about a man who had nude in a drunken freak in the The stereoptican projects a circle se n ensilage made from cow peas, killed his wife with a poker, added park-Queen Caroline and her Marys, of intense white light which exactly and while the cows ate it well, it an ingenious footnote to say: "We the beautiful Mary Bellenden, and fits the round outline of the disk was very sour and bad smelling do not know with certainty whe- Mary Lepel, "youth's youngest and brilliantly illuminates the latstuff, and we are not at all im- ther this thing 'pokero,' be a domes- daughter'; Elia Lelia Chudleigh, af- ter, which thus becomes the only pressed with the value of cow peas tic or surgical instrument." The terward Duchess of Kingston, who visible object in the darkened room. as silage. The soy beans were also desperate expedient of the French walked in the Mall with scarcely any The transmitting agent sits at a tried in the staffon silos, and they translator of Cooper's "Spy," who clothing on; Horace Walpole; the convenient distance from the illummade a very good silage, which had to explain how a horse could two lovely Miss Gunnings-"those ined disk and holds to his eye the upon some objects placed in the gave good results at the pail. But be hitched "to a locust," is worth goddesses the Gunnings" - the beau- conical tube which shuts from view all the legumes are far better cured recalling. He had never heard of tiful Duchess of Devonshire, Duch- any environmental objects or objects as hay, and there is no crop that locust trees, and rendered the world ess of Gordon; the Duchess of Rut- which may chance to receive reflected can compete with Indian corn for by "sauterelle," or grasshopper. land; Gainsborough, Reynolds, Gold- light from the white cardboard. The the making of ensilage. When it is Feeling that this needed some ex- smith, Johnson; the Countess de transmitting agent faces the disk just planation. he appended a footnote Genlis; Lady Anna Waldegrave, and squarely in order that the light on what it is and what we must use explaining that grasshoppers grew Miss Keppel; Mme. Roland, and the it will be reflected into the tube to a gigantic size in the United Princesse de Lamballe-two promin- equally from all parts of the lighted have legumes or anything else mixed States, and that it was the custom ent victims of the French Revolu- surface. with the corn, we cannot tell any- to place a stuffed specimen at the tion-and Mrs. Fitzherbert. Hundoor of every mansion for the con- dreds of the most famous names in already been surmised, is but a mevenience of visitors, who hitched British history are identified with chanical aid to perfect concentration the four long avenues which stretch and is the best possible conductor of transmitters. It is claimed that the from Buckingham Palace to Spring the message from the black screen Her Irate Parent (to youth who Gardens, for it was in this park to the brain. hum for this purpose. Indian corn has tarried late of an evening- that the London world of those days "Young man, do you know that it lived-the world from every quar-Every now and then we read about is past eleven o'clock?" The Tarry- ter of the town, since easy-going comfortably sits or reclines in ananting cow peas among corn and ing Youth-"Yes, sir. But she has Charles II. opened the parks to the other dark room. His eyes are band-

# AT THE RESTORATION.

and danced, but seldom fought, for of both agents. While the mind of it was a criminal offence to strike a the transmitter must be focussed and blow in the Royal Park.

since those brilliant days. Rosa- sage to be sent, that of the receiver mond's Pond has been filled in; the must be equally passive, assuming menagerie and the cages in Birdcage that vacuum which the hypnotist dewalk have disappeared; Duck Island, mands prior to his first operations. over which St. Evremond was , appointed guardian by Charles II., has conscientious record of the message been obliterated; the statue of the dispatched and obtained. Unless he It has occurred to the writer to gladiator which stood by the parade cause distraction, a second person in ods actually adopted by those who give a short account of Buckingham at the east end of the canal. has the room with each may more readmay be called professional adepts. Palace and its surroundings, for, been removed to Windsor Castle; the ily do this. The disks must, of It is so often forced upon the at- though both are familiar to many, canal has been turned into an orna- course, be arranged without the retention of those who take some few know anything of their history, mental water, according to more ceiver's knowledge of their content. pride in small successes in this field, says a writer in London Truth. This modern taste; and the deer have After concentrating his gaze upon and so little is learned that satisfies is the more curious as St. James's gone. But the general plan of the the black and white image, then the amateur chicken raiser, that in- Park was for 250 years the centre park is the same as it has been for closing his eyes, walking into a formation as to the methods of the of the social, political and literary hundreds of years. The four long lighted room and opening them, the avenues, which were formerly throng-Some time before the Conquest ed with life by day and by night, rein which they lived.

#### FLOGGED INTO SPELLING.

The master of an elementary school on backward boys, and asking Both in France and in England it they would approve of such a course The following is one of the re-

> "Dear sir,-i hav reseved ur flog-"F. S.-The resin Jhon is sich a bad skoler is bekas he is my sun

WIRELESS TELEGRAPHY WITH OUT ELECTRICITY.

Wonderful Experiments Made Washington-Messages Sent 200 Miles.

Members of the Society of Psychical Research are experimenting at Washington, D.C., with wireless telegraphy apparatus, giving results far more phenomenal than any obtained by Marconi and his imitators. These scientists are transmitting and receiving messages over wide areas of territory, and the percentage of error is claimed to be less than that George III. bought Buckingham encountered by the Italian inventor during his elementary trials.

They employ transmitting instru-

Chimerical as this enterprise may bears with the prediction of that mer president of the Society for Psychic Research. Sir William in recent interview prophesied that But St. James's Park has the would soon be found practicable

# WILL OF THE THINKER.

The transmitting instruments used in these experiments consist of board or screen, disks of pasteboard conical tube to be held at the eye

The black screen is set up in

All of this paraphernalia, as has

## THE RECEIVER

aged to shut out from his vision any

concentrated with all possible force And the park is little changed upon the visible portion of the mes-

Both transmitter and receiver keep

transmitter sees in daylight the same figures clearly defined in reverse—the black being intensely white; the white of a kind of smoky whiteness. approaching purple, and the black a luminous yellow. These are the after images of the disk.

The receiver, on the other hand, while allowing his mind to remain passive, begins to see wavy clouds followed by a pale, bluish light, very bright in the center. As he becomes more and more skilful the figures transmitted gradually appear in larger luminous forms, lasting each a moment, but reappearing perhaps several times.

#### A SIMPLER EXPERIMENT,

adapted to any drawing room, may be conducted in this way :- The transmitter sits before a table, his chair back to back with that of the receiver. The latter occupies, preferably, an armchair. He faces a dark corner in the room and blindfolds his eyes, that his mind may not be distracted by objects about him.

The transmitter then, in the presence of others, perhaps draws from a pack of playing cards and concentrates upon the design, color and denomination of each produced. Beginners obtain more satisfactory results if experimenting with but two suits and two numbers in each suit. Many such packs may be arranged out of a dozen ordinary decks. However the cards may be arranged, they are shuffled and drawn at random.

The shuffling and holding may be done by a third person, who keeps record of the card he sees drawn each time, and that which the receiver claims to simultaneously see. In some experiments it is preferred to eliminate the court cards, using only the numbered denominations. Both receiver and transmitter frequently imagine that they see the forms of cards undergoing change while efforts are being made to pic-

ture them firmly in their minds. The disk and stereopticon apparatus is successfully employed in transmitting colors as well as outlines, tinted screens being placed across the lantern. As progress is being made, the colors and designs are being combined as, for instance, in a red triangle, a blue square, a yellow circle, etc.

The receivers generally "visualize" the figures thus, telegraphed. In other words, they perceive vivid pictures of them in their minds' eyes before pronouncing them. Others become more alert and mention them as soon as the thought has been transmitted. As greater and greater aptness is attained by some, common objects spon which the minds of the transmitters may fall are sub-

The distance between the two ends of the "telepathic line" seems sometimes to make a difference as to the powers of the experimenters, but as yet there can be deduced no rule as to why the "brain waves," as Sir William Crookes calls them, suffer, in some instances, a resistance from intermediate matter, while to others distance appears to be

## NO FACTOR OF SUCCESS.

It has been noted in some longdistance tests that when one of the agents has forgotten his appointment the concentration on the part of the other has become so great as to cause a "mental pull-up," as it has been termed, bringing the foregetting agent to his senses.

In experiments where sentences have been dispatched over distances as great as 200 miles, not only the exact thought intended for transmission, but others incidentally occurring in the mind of the dispatcher have escaped to the receiver together with the intended message. Sentences thus transmitted have been received audibly, as if spoken in the room of the receiver.

Another class of experiments is made with a single receiver and a plurality of transmitters, all of the latter arranging themselves about a table and concentrating their minds

centre thereof. In one experiment of this nature a small folding magnifying glass was produced, opened. The receiver said: "It is black. It is round. Transparent." The glass was then held to the light and the receiver said:

"It is bright." In other experiments with a plurality of transmitters bits of salt, sugar, vinegar, etc., have been simultaneously helds in the mouths of the taste of salt has thus been made so vivid in the mind of the receiver

that he has craved for water.

In 1871 Germany had eight cities intruding light rays which may be only of over 100,000 people, now filtered through door or window she has 33. The United States had in 1871 only 32 cities of 50,000 or