PIG RATIONS AND RESULTS. The Storrs Agricultural Experiment

Station, of Connecticut gives in bulletin 43 the following conclusions on pig feeding rations:

The pig among farm animals is noted for his great capacity for assimilation. But with the animal the economy of gain is greatly affected by the character of the ration.

One lot of three pigs required 2,739 pounds of skim milk containing 230 digestible nutrients for 100 pounds of gain. Eight lots, of 28 pigs required 1,086 pounds of skim milk and 253 of shorts, containing 258 pounds of direstible nutrients, for 100 pounds of gain. And one lot of three pigs required 445 pounds of shorts containing 294 pounds of digestible nutrients for 100 pounds of gain.

Milk is an easily digested food. 100 pounds of gain were made from the least amount (230 pounds) of di- sugar at 4.81 and the ash at .75; all gestible nutrients. When shorts were being percentages.-Epitomist. substituted for a portion of skim milk, more nutrients (258 pounds) were re quired for 100 pounds gain in weight. When shorts were fed alone the most nutrients (294 pounds) were required for the same gain.

sidered. It is admitted that while skim | mer. The fall calf must be kept warm milk is easily digested, it is too bulky as well as be well fed. As soon as the in character. The capacity of the pig dam begins to be insufficient other to digest and assimilate is greater milk should be given, preferably fresh ery fluid. At ordinary market prices, should be fed at an early age and a pound of digestible nutrients would some corn given daily as soon as the cost twice as much in skim milk as in | calf will eat it, especially if the ownshorts. Experience shows that from er is able to give other food rich in a financial standpoint, the most eco- protein. Calves digest corn better nomical gains are made when skim than mature cattle-Iowa Farmer, milk and grain are fed in the proportion of 3-4 to 1. But the trials show, from a physiological standpoint that less nutrients are required for a given warranted that the food requirements upon the composition and digestibility of a ration but also upon the facility with which it is digested and assimi-

ABOUT CHURNING BUTTER.

The temperature for churning depends upon the time of year, weather, ty of ice, and careful handling of the etc., and is from 50 to 56 degrees. milk and cream, will secure the best A thermometer should be used in results in the dairy.-Weekly Wit getting the cream into the right tem- ness, perature. A good butter maker says he quits churning when the butter granulates, and the grains are the size of wheat grains and are well separ. Traces of a Great City on the Site of ated from the milk. Draw off the but termilk through a strainer. Add water until the butter floats, the temperature being about the same as that of the butter. Wash twice or until eries on the Palatine Hill which tend the water runs off clear. Take the butter from the churn and spread it thesis advanced some years ago by out to be worked and salted. After Giacomo Boni, director of the Forum the salt has been added work until the butter is well gathered and then ancient than the earliest Romans so let stand for an hour until the salt thoroughly dissolves.

The proper amount of salt to use is one ounce to every unworked pound uncovered vestiges of the empire, reof butter. It is best to always weigh public and kingdom, has found along the salt. Work the butter well to the Via Sacra tombs in the form of work out the excessive moisture, tho wells, with pottery, jewelry, amulets soughly mix the salt and give it a and skeletons, which he believes are good body. Avoid overworking, as it of a people who lived much anterior will make it greasy, injuring the to the Romans properly so called. grain. The way to tell when to stop | The discoveries have caused many working is when the butter breaks controversies. The utmost admitted with a clean break, not when it pulls was that some people had occupied out in threads.-Indiana Farmer,

FARM NOTES.

First plow, quite deep, harrow carethe moisture .- Prof. W. R. Gilbert, Penobscot County, Me.

Rusty iron placed in the drinking water at this season serves an exsellent purpose as a tonic.

The man who keeps his pens on short rations usually finds his eggs soming in in about the same propordion.

Poultry raisers should learn the causes of diseases, how to prevent Them, and there will be no need of medicines in the poultry yard.

Kill the hen that lays one day and Tests three days during the egg-prolucing season. Her room is worth

hore than her product. It is important that the interior of the houses, including the floors, be dry and that plenty of fresh air can get

uto the pens without drafts. A big "pigeon fly" is being arranged by John H. Good, of Louisville, Ky .. assisted by the Southern Poultry Magtzine, to take place on the opening day of the Tennessee State fair, Sep-Ember 23d, at Nashville.

REGULAR HOURS FOR FEED,

Many farmers do not realize the emportance of feeding their stock at regular hours, but it is of great importance. Take a lot of hogs which have to wait after their regular time for feed and see how restless and holsy they become. And what is true of them is true in a great measure of

patiently until the next feeding period comes about. Experiments in this direction would soon satisfy the most doubting person of the truth of the value of regularity in feeding .- Epitomist.

VARIATION IN COW'S MILK.

The seasonal variation in cow's milk, ascertained from a five years' study in a herd of about six hundred cows, all registered or graded Jerseys, on a New York estate, disclosed the rather interesting fact that the richest milk, that containing the greatest proportion of fats and totals solids, is obtained during December, January and February, in the order named.

March and April are not very far behind but the decrease is practically continuous until July, when it reaches its low level, after which follows a gradual monthly increase until December.

The average composition for the whole year period, as published in the Journal of the American Chemical Society, is fat, 5.2; solids not fat, When fed alone in the above trials, 9.22; a total of 14.64. The protein content is calculated at 3.66 the milk

THE FALL CALF.

The beef calf that is born in the fall must be kept growing. This will require more care on the part of the farmer than it would if the calf were The reader should bear in mind that born in the spring and had the use the financial preblem is not here con- of the luxuriant pastures of early sumthan its capacity to consume this wat- separator skim milk. Clover hay

THE IMPROVEMENT IN FARMING. It has been said that the farmer makes life on the farm a drudgery; gain when the ration consists of easily | this assertion belongs more to the redigested foods. The conclusion seems mote past than to the present or future, as with all the modern improvefor maintenance and for production ments in agricultural machinery a far-(milk or growth) depend not only mer can accomplish his work in much shorter time and more satisfactorily -Weekly Witness.

> GOOD RESULTS IN THE DAIRY. Good air and sunlight in the barn, healthy cows kept clean, a good cream separator with a good tank and plen-

> > OLDER THAN ROMULUS.

Rome Before Roman Days.

Information has been received from Rome of new archaeological discovto confirm by new evidence the hypoexcavations that a people much more far recognized once occupied the site of Rome.

Signor Boni, who has successively

the territory prior to the time that Romulus and Remus are reputed to have founded the Eternal City. Recently excavations of the Palatine Hill fully, next test the seed, cultivate have brought to light sepulchres of often to keep weeds (wn and a dust great antiquity, apparently sustaining mulch over the field for conserving Signor Boni's contentions. There are tombs in the form of wells like those of the Forum, and seemingly they belonged to the most primitive inhabitants of the Palatine acropolis.

Brains of Famous Germans.

Prof. von Hanseman, the noted scientist of the Berlin University, has examined the brains of the late Theodore Mommsen, the historian; Hermann von Helmholtz, the physiologist and Adolf Menzel, the painter. He declares that, according to the results of his investigation, while genius is not exactly akin to madness these famous men possessed slight "water head." (hydrocephalus), and that this sional fainting fits, and the chronic condition, for example, explains Menzel's extreme irritability and occacramps from which Helmholtz suffered. Prof. von Hanseman also discusses how these men were able to work at extreme old age with their faculties apparently unimpaired-all lived and worked for over seventy years. He explains that with mathematicians and athletes, so with them -work becomes a second nature, a part of the individual. In other words, genius is nothing more than an indomitable inclination expressed through intense application.

Open-Air Sleeping.

It is not too much to say that to other animals. The man who is reg- the delicate, highly strung, easily -dar in his habits, eating at a regular knocked out individual the advantages hour, will, other things being equal. of sleeping in the open air are enormthrive best and be health'est and ous. Pallid cheeks take on a ruddy estrongest; and what is true of man hue, colds are unknown, nerves are in this regard is correspondingly true forgotten and irritability becomes a of the lower animals. A farmer can phase of the past. A little but and readily get into the habit of feeding a little perseverance are the only This stock regularly and they will learn | tecessaries, and the result is asto expect it at a regular time and rest | sured .- Country Life.

How To Be Very, Very Popular

By O. S. Marden.

COLUMN SERVICE

EVER hesitate to talk about yourself and your affairs. This will interest everybody.

Do not fail to throw cold water on other people's plans and to discourage their ambition. Nobody is sensitive about this. Be sure to dwell upon the defects and failings of others, and call everybody's attention to them. Everybody likes gossip.

Never try to stop gossip, no matter if it does drive an innocent person insane or to suicide. There is no reason why you should be deprived of a little innocent pastime just because of others' sensitiveness. Pass the gossip along. Add to its spiciness. Always be on the watch for slights and insults. Remember, most people

are your social superiors and are trying to cut you. There is nothing which will endear one to others like selfishness, Every-

Always take the best seat wherever you go, and, after you are well seated, offer your seat to others without the slightest intention of getting up. Just look out for your own comforts., Let other people do the same.

Never do anything that you do not feel like doing. Do not talk unless you feel like it. Just get in a corner and read or Re down and take a nap. Never mind who is present. Let some one else entertain the guests.

Do not bother about trying to be agreeable at the breakfast table. Just hide yourself behind your paper, find fault with the food and snap at the To be popular with the servants, vent your spleen upon them at every

opportunity. Find fault with everything they do for you at home or any where else They are servants and are used to it. They have no business to be thin-skinned Never hesitate to show it when your feelings are hurt, or to indicate your

jealously when others receive more attention or are better dressed than you. If things do not suit you, slam things around the house. Be just as disagreeable as possible. Never mind if you break a thing or two now and then. It will relieve the blood pressure on the brain.

Always remember that praise is a splendid thing for you, but very bad for It encourages vanity, and people who are praised get so "puffed up" and "big-headed" that there is no living with them .- From Success.

Woman as an Egotist.

By Winifred Black.

OUR young girls killed themselves at the same hour in Iowa the other day. It turns out that they were just four of ten members of a suicide club, and that the other six are bound by the rules of the club to commit suicide together within some stated time. There is nothing surprising about this hideous story to me.

The one most fearful enemy to sanity in the world is egotism, and half the women I know don't think about a thing on earth but themselves from morning until night, and from night until morning again.

I, me, my new hat, my new dress, the way I do my hair, my pretty shoes, my beaux, my enemies, the girl who admires me, the man who doesn't care for me, the mother who doesn't appreciate me, the brother who laughs at me, the little sister I have to take care of, the dance I didn't get to go to, the candy the other girls hand, and that I didn' take"

"I, I, I, me, me, mine, mine, mine"—why if I lived in a world as little as that, I'd join a suicide clab today, and get out of it. The middle-aged woman isn't so bad, she can't be, she has to think of her husband and her children and her servants, and she doesn't regard the world as a huge mirror, good for nothing but to reflect her foolish little figure. But next to the young girl, the most awful egotist on earth is the woman with nerves, or the woman with an inherited tendency to something or other which she is carefully nursing to hand down to her own children.

All she thinks of is her food and whether it will agree with her or not. Take her for a walk in the green fields, and she doesn't feel the perfume of the roses, she doesn't take a deep draught of the sweet life-giving air and thank heaven for the glorious privilege of living; not she.

"This walk will agree with me," she thinks; "it will make me sleep and what an appetite I'll have for luncheon." Go with her for an evening at the theatre and she doesn't laugh and enjoy

"This will divert my mind," she says to herself, "I must fix my attention on it. I can feel my eyes brightening already, I believe I am feeling a little better; yes, that pain in my left elbow is almost stopping."

Heaven save us all from the hideous insanity of egotism in whatever form it comes to pester us!-New York American.

The Habit of Threatening Children

By Marianna Wheeler. HE habit of threatening is a bad element in the training of children; unless threats are meant, the mother has nothing to gain in using them, and she loses much of the respect of her child. In a remarkably short time he learns that the mother's threats are mere words, that they mean nothing; so he continues to do exactly as he pleases in spite of them, while the mother sighs and wonders why her child is so disobedient.

I heard recently of a mother who told her little girl to change her shoes before going to drive. The child fretted and whined, and while she did not positively refuse, neither did she make any effort toward obeying the mother's request. After ten or fifteen minutes of unpleasant skirmishing between mother and child came the threat, "Very well, then; you shall not go to drive with me unless your shoes are changed."

At this the little girl made a sudden run for the hall, then slowly edging her way sidewise down the stairs, kept calling back. "I'm going to get in the carriage, I'm going to get in the carriage." She kept this up until she reached the door, then darted out and did get into the carriage. The mother meanwhile was helplessly exclaiming: "What is there to be cone with such a disobedient child. I know I ought to bring her right back and insist upon her minding me, and really she should have a good spanking; but if I attempt to bring her back she will scream and kick, so I suppose I must give in rather than have a scene,'

When the mother went out, this prematurely wise little girl greeted her with the sweetest smile and these words: "You did not mean a word of what you said, did you, mother? I knew it." And with a knowing twinkle in her eye she added, "If you really want me to I'll change my shoes next time." The mother, who but a moment ago was distressed and mortified at the disobedience of her little girl, now laughed and thought her remarkably clever and so she

All the greater is the pity that a child naturally so bright and really lovable should not have her rare talents developed by judicious management,-'Harper's Bazar.

Society in London.

By Mrs. George Cornwallis West, Formerly Lady Randolph Churchill.



HE craze of the day is to be, or to appear to be, earnest. To be rich and beautiful is not sufficient; the real social leaders of the day are not content with these accidents of birth and fortune, They aspire to political influence or to be thought literary and artistic, and society follows the lead. It is the fashion to attend lectures and court Bernard Shaw, to indulge in oratorios and eighteenth-century concerts, to breathe Bach and Beethoven.

The standard of education and culture is higher nowadays for the majority than it used to be in the old days. Formerly women stayed at home, and had more time to perfect their education, but much time was taken up with the writing of mawkish diaries and in the execution of feeble sketches. you had a few shining lights who stood out above the crowd, now hundreds are to the fore. It takes a remarkably clever woman now to become very prominent by her own merit.

The hurry of the age is one of its chief characteristics. To crowd into twenty-four hours the occupations and amusements of a week seems to be the aim and object of most people,

The extraordinary restlessness, the craving for something new before there has been time to understand or enjoy what is in hand, is of a necessity causing manners to deteriorate, and is certainly curtailing the amenities of social life on which past generations set such store. A nod takes the place of the ceremonious bow, a familiar handshake of the elaborate curtsey. The carefully worded, invitation of fifty years ag . is dropped in favor of the generally garbled telephone message such as, "Will Mrs. S. dine with Lady T and bring a man? And if she can't find one, she mustn't come, as it would make them thirteen;" or a message to a club, "Will Mr. G. dine with Lady T. tonight? If not will he look in the cardroom and see if any of her lot are there and suggest somebody?" -Harper's Bazar.

INTERESTING TO



PLAYING WITH CHILDREN. A certain amount of work, or rather play, with children in some kin- tures. dergarten was advocated for all young girls of the high school age by speakers at the meeting of the New York city branch of the Vassar Students' Aid Society at the Hotel Astor recently. The speakers were kinder long head.-New Haven Register. gartners from other cities who are attending the International Kindergarten Convention. They declared that it was important for young girls that quality of "nurturing something else" which "is the highest attribute girlhood from "that conventionality

which is the bane of young women." criticised the college method of to teaches her little daughter to culti-

face of their babies' needs.

"I visited often in a certain house "and one day I got down on the my hand and patted the ficor, as a Now, that mother didn't know how to | -Pittsburg Press. be a child with her child. She was charming, and she loved baby dearly,-but she'd never learned to give it what it craved."

leges, Mrs. Hughes remarked that a its women. The census of 1900 shows great deal was said about the defect that 320,000 American women are tive education of women, but she beileved the education of men was just sculptors, 45,000 are musicians, 261 as defective. She thought that college training and curricula tended ficials, 1,932 stock raisers, 278 butchtoo much to the material, were too ers and 193 blacksmiths; 200 Amermuch shaped to the sole end of giving the student a vocation,

School of Education at the University of Chicago, took the opposite pilots, 127 locomotive engineers, 153

view. "I believe," she said, "that the restso little in their work that is con- makers. crete. Sometimes I think the most valuable part of college life is the management of a fraternity house, things of that kind that come inciwork. The one who is better off fre-

quently doesn't." The election of officers of the soing held early in the afternoon. Those elected were: Mrs. Charles W. Stimson, president: Mrs. Charles E. Potter, treasurer; Miss Mabel McMahon, recording secretary, and Miss Edith Tribune.

TWELVE REASONS FOR LOVE. Do you love? Are you going to marry? Then you must give 12 rea-

sons for your love. A recent authority on love and matrimony says: "Don't marry unless you can take a pencil in hand and write

down 12 substantial reasons for loving that particular person. Can you give 12 reasons? Love has not reason nor does it listen to reason. It is to be doubted if the happiest married couples in

the world could give 12 reasons for marriage or 12 reasons why that marriage has been a happy one. A man married because SHE is tr'm and dainty, because he is lonely and she mothers him, because she can sew and keep house, because she makes him feel a comfort to himself and to mankind, because she is the

one woman in the world to whom fault-finding. he can confide his sins and fears, his hopes and ambitions without feeting like a fool. A woman marries because HE has a nice smile, because he sends her flowers, puts on her overshoes, takes care of her, has heart or brains which appeal to her, because he needs her,

overlooks her faults, because he is millinery. the only man she knows who can | The raglan sleeve is not only voluenter the very garden of her soul minous, but it is long and the puff without trampling flowers. But where are the TWELVE SUB-STANTIAL REASONS? Love bears burdens without feel-

ing them, but love does not reason. What has a tangle of curly hair to among the fancy voiles, and the colorto do with love. What has the power of a pair of

square shoulders to do with reason? do with love. A breath, a song, a word, a smile, at the side, back of the head and

a tear, all these are without reason, down over the brow. but what have they not to do with Men and women who are happiest

in their marriage LOVE BECAUSE boulevard THEY DO and MARRY BECAUSE THEY CANNOT LIVE WITHOUT; reason except-love.-By Cynthia at the beginning of the season. Grey, in the Pittsburg Press.

WHAT NOT TO WEAR, made dress.

White muslin petticoats for street

Bordered lace veils unless they are worn below the chin, and dotted veils with weak eyes.

Trailing skirts on a stormy day. Ripped or torn kid gloves at any

Large buttons for fastening a waist over a stout figure.

Rose pink accessories under or over a wrinkled face or neck. Gray or navy blue veils over a sal-

low complexion. Round hats with a full face and a peaked crown with sharp-faced fea-

Licen collars with a homely neck, or linen cuffs with dark, thin or

wrinkled hands Tightly drawn back hair with a thin face, and a high coiffure with a

GOOD LOOKING WOMEN.

The beauty of the modern woman is not looked upon as a silly vanity to be brought more closely into con- except by the old fogles who have tact with children in order to develop not yet emerged from the mists of mildewed prejudices. Modern thought now recognizes good looks as a symof human nature," and to free modern | bol of excellence within, Old-fashioned mothers considered beauty a dangerous gift. The mother of today knows Incidentally two of the speakers that ugliness is a handicap and she day, though from different points of vate beauty in every form-the beauty of cleanliness, of charming man-Mrs. James Hughes, of Toronto, ners, of unselfishness, gratitude, told a story to illustrate how help- thoughtfulness, bodily grace and less many young mothers are in the spiritual activity. In many other ways did the old-time people misunderstand the purposes of creation. To where there was a baby," she said, their way of thinking it was a mistake to be too happy; everything that floor and played a finger game with made one happy was more or less the child. The next time I called, sinful. Now we figure it out another the instant the baby saw me he seized | way; what makes us miserable makes others miserable, and to distribute peremptory reminder that I was to discontent and unhappiness is to be out down and play the game again, a full-fledged sinner and no mistake.

EMPLOYMENT OF WOMEN.

Industrially, no country can make a showing that in any degree equals Touching on the question of col- that of the United States as regards teachers, 15,000 are painters and wholesale merchants, 1,271 bank ofican women keep bars or serve the drinks in bars, 879 are policemen and But Miss Bertha Paine, of the detectives, 13 are railroad conductors, 4 station agents, 2 steamboat boatmen, 167 masons, 545 carpenters, 45 plasterers, 126 plumbers, 1,750 lessness which so many college boys painters and glaziers, 241 paper show along about their sophomore hangers, 1,775 tin workers, 3,370 iron year is due to the fact that they find awi steel workers, and 8 steam boiler

WOMEN IN THE CHURCHES

Miss Lavinia D. Smith, a graduate of Wellesley College, '94, has, since dentally. The poor boy gets that sort her graduation, followed a unique of discipline in his home life and career, says a writer in Progress. After spending several years in training at Episcopal sisterhoods in this country, she became Sister Lavinia clety took place at a business meet- of the Community of the Holy Family, England, and lately received from the Archbishop of Canterbury, in Lambeth Palace, the old academic title of student of theology, and a diploma equivalent to the Honors School in Deane, second director.-New York Theology at Oxford and Cambridge. Sister Lavinia and the four other candidates who received the diploma are, it is understood, the first women to take these examinations in theology and to receive this title. Their papers were corrected by the professors who set the examinations. but Sister Lavinia's papers were also read by the Archbishop of Canterbury and the Bishop of Gibraltar .-New Orleans Picayune.

> THE GIRL WHO WOULD IM-PROVE.

Must make up her mind to think a little less about herself and a little more about the comforts of oth-To be less quick of speech and

more certain in actions than she has She must resolve not to let the

wicked little demon of envy enter her heart and make her bitter and To consider those of her own house-

hold and to fight the inclination to reserve her virtues and her graces for those outside.-New York Press.

FASHION NOTES.

The passing of the high bandeau is because he magnifies her virtues and a great point in favor of the new

falls far below the hand, Soutache braid is generously em-

ployed in the decoration of the linen suits. Both checks and stripes figure

do with reason? Yet it may have all lings are of the unaggressive sort, usually combining several shades of one color of a soft tone with white. Never has there been a style more Yet those shoulders may have all to ungainly or unbecoming than this tilting of the hat to an alarming degree

> The taffeta capeline, made with the "beef-eater" crown, has sung its song and vanished-even from the outer

There is no particular smartness about hats, but they are losing the in that marriage there needs be no bravado, "Rough Rider" air borne

The new bandeau is a low, round, modest affair, which barely lifts the A poorly fitting corset under a well hat from the coffure and tilts it not at all.