NOTES OF INTEREST ON AGR CUL-TURAL TOPICS.

Cows and Pigs Pull Together-Irrigation Reservoirs-Carrots Stunted by Crowding, etc., etc.

Cows and Pigs Pull Together. A common mistake is in believing Under good management the cow is step-mother to swine breeding.

Irrigation Reservoirs-

Irrigation Reservoirs are used to store water that may fall between irrigating seasons. After the reservoir is full any excess of water should be allowed to flow down to the irrigated district and be applied to the land so that the ground will be thoroughly saturated before moisture is actually required. During an average year a reservoir can be filled several times each season from freshets.

Ensilage for Horses.

the trouble from its use has arisen from ginning, and as the horse likes it he are to remain answering well. is tempted to eat too much of it, as he might of green grass or clover. This bed is usually broken up and a new is more apt to be the case when it one formed every season. For an early contains a large amount of corn. When supply, form beds three feet wide, they began by feeding small quantities these to hold either one or two rows and increased very gradually in the of plants dispose from fifteen inches after they were well accustomed to its every case. If seeds are sown now use they would not eat too heartily of dispose them thinly in shallow drills, It, even when given opportunity.

Carrots Stunted by Crowding.

All kinds of roots are much better if whether a cluster of leaves represents good-sized carrot. The short-horn carwhose roots are entirely below the sur-It is not injured so much by growing in a clump. It is also more nutritious decayed manure and such life. than the deep-rooted carrots, but it needs to be gathered before the soil freezes very deeply, else the root will not keep well. Parsnips can be allowed to stand in the ground all win-

Feeding Young Pigs.

ground as finely as possible.

Soon after this, a few roots are addturnips and mangels are also good. This, however, is an excessive quantity, and probably the roots should the whims of appetite of the pigs .-Farm, Field and Fireside.

Quack Crass Hard to Get Rid Of.

this year in spite of the fact that part to feed them linseed meal. This greatful the hoeing.

all is to plow the land as soon as the others in the flock by pulling feathers, summer crop is off, then go over with and should be kept by itself. a springtooth harrow, or some implement that will go down into the soil and should be fed every day. If the and pull out the underground stems. ducks have access to grass, of course, When these are on top and thorough- that is all that is neccesary, otherwise ly dried out go over the ground with onion tops, cabbage, etc. a hay rake, gather up these underground stems and burn them, After a week or ten days repeat the operation. This will not only pull out burns much of it.

FARM AND GARDEN NOTES, many of the stems that were left the If comparative tests as to age are a first time, but will check the growth part of your scheme, give the pullets a that may be started. Continue this full year. until the ground is planted to some enough to prevent growth. In the energy and strength. spring put the land in some cultivated crop, cultivating early enough to prevent any leaf growth. In this way, the roots that were left in the ground the previous season will decay for lack of food secured through their leaves. A farmer in Dutchess County, New that the pig crop must be curtailed if York, states that from five acres he more cows are supported on the farm. hauled off four wagon loads of roots during the summer. This shows the run. The fowls will eat many of the necessity of preventing the develop- cinders. ment of quack grass.-American Agri-

Planting and Sowing Asparagus-The best time to plant asparagus is when the first shoots are three inches or more in length, and those who raise their own plants have, therefore, the advantage. When they have to be bought they ought to be sent for before this growth has been made, or otherwise the chances are the young shoots will be broken and the new root fibres dried up. They need not be planted directly they arrive, but may be spread out on the surface of a meal) is excellent, but all oily foods As many people have an idea that en- warm border and covered with two are liable to cause moulting. Use linsliage is not a good food for horses, inches or rather less of fine light soil, seed meal in preference. Begin with we will call attention to the fact that transplanting to the beds after top and a spoonful per day to each fowl, and the Virginia Experiment Station has root growth has well commenced. If gradually increase to a gill. It is been testing it, and they report that not already done, the beds ought to be cathartic, and may cause looseness of prepared for either planting or sowing bowels if given too freely. Cotton seed too much having been fed at the be- at once, sowing seeds where the plants meal is rather constipating, but is a

Where forcing is resorted to an old amount given no injury resulted, and to eighteen inches apart in each and

and thin out in due course. There is no particular art in growurally well drained and the subsoil of given plenty of room in which to grow. a gravelly nature, all that is needed is Probably no root suffers more from a good depth, or say from twelve drained, allowing alleys two feet wide one, two or three plants. It is a great between. Throw out all the good surloss every way to allow the roots to face soil and break up the subsoil. If crowd each other in growing. The the latter is very clayey remove a bulls of two or three roots growing to- good portion of this, substituting any gether is not nearly so great as one free working soil, coarse mortar rubbish, and strawy manure for this. If rots, which grow partly out of ground, not very clayey be content to add morcan be seen much better than those tar rubbish, half-decayed manure, and decaying garden refuse. The top soil face. And perhaps because the short- to be returned to its original position, horn carrot grows partly above ground and will be improved by the addition of the mortar rubbish, leaf soil, well-

Hints for the Beginner.

for the first time they should bear in mind that ducks are essentially different from chickens, and there are a few points that must be taken into consideration upon which though simple in nothing better than wheat middlings The nest for hatching should be upon Sunday night." and skim milk. Sometimes we cannot the ground, if possible, as duck eggs get all the skim milk we want, and require more moisture than hen eggs, have to divide the limited supply but a nest of sod will answer the puramong those most needing it. We have pose. In this way the eggs draw more used ground oil cake and ground flax- moisture from the soil, and it will be ballstic tendency is the Paradise fish seed in very small quantities, steeped unnecessary to sprinkle them. The which sports in the White House aquawith the middlings; but though they eggs should not be washed unless are better than nothing, they do not badly soiled, as the surface is oily and longer than one's little one equal milk. Of the two, probably the natural conditions should be interfered ground flax seed is the better, but with as little as possible. In a little it should not constitute more than less than four weeks the eggs will about five per cent of the total food. hatch. They should be closely watched By the time the pigs are about three so that the ducklings may be helped months old a little ground grain is out the shell in case they are unable usually added. We like barley for this to free themselves, owing to the rough purpose, and often add a few oats skin which may become too dry. But such assistance should not be given unless actually necessary. They require ed to the ration. We have fed roots nothing to eat for twenty-four hours, cooked and raw, and have very little when bread crumbs soaked in milk preference, except that sometimes may be given them and water placed cooked roots are eaten a little more before them. A drinking fountain is readily. We prefer sugar beets, but necessary, or something similar, as from the first they will attempt to get that comes close to intelligence. It When potatoes are fed, they are all into the water. They must be kept ways cooked. When fed raw, the roots dry until nearly feathered out. They near the tank, which he never does are pulped and mixed with the meal require soft feed, a mash of corn meal, except when he has food for it, the litration, after which the whole mass is middlings and bran is good for them, the fellow comes to the surface and moistened. As to quantity of roots, but it should not be sloppy and should makes a peculiar noise which resemwe have fed to growing pigs as high be cooked or scalded. Johnny cake bles a low whistle. This is continued as fifty per cent, of the total ration; crumbled up may also be given them. that is to say, equal quantities by They are very fond of milk, and either weight of roots and meal mixture. milk or water should be always ac- to the surface at the keeper's approach cessible to them, this is especially nec- the sound recalls that of a flock of essary while eating, as they want a quail drumming. not exceed 25 per cent. of the drink with every mouthful of food. total weight of the ration (25 pounds The water soon becomes filthy, as they roots to 75 pounds meal mixture). In drop food and dirt into it while drinkthese matters, however, the feeder ing, and they should be kept separate must be guided by the condition and from chickens so that the latter will lemon on raw oysters, but there are

and become liable to disease.

Green stuff is a very important item

Feed is fuel, and the draughty barn

True economy consists in well directfall crop or until the weather is cold ed effort, for that is economy of time,

> Chopped clover cut short, scalded and mixed with bran and oats, makes

> a first rate morning feed. Air is cheap, but not when it slides through an unfilled crack at a temperature far below zero.

> Sifted coal ashes are good material to fill up the low places in the poultry

> Light Brahmas make good broilers if taken early enough before they get long-legged and rangy. At two lbs. weight they are plump and soft meated and make a dainty morsel.

> A barrel of lime is worth much more than its cost to a man who admires neatness around the place. When the old weatherbeaten shed is whitewash ed, if there is any left over that has become airslaked sprinkle a little around the stables each morning and notice the difference it makes.

Linseed and cotton-seed (cake or good food.

TWENTIETH CENTURY'S DAWN.

The Friendly Islanders will be the First People to Hail its Advent.

"The first people to live in the twentieth century will be the Friendly Islanders, for the date-line, as it may be called, lies in the Pacific Ocean just ing asparagus. Where the site is nat- to the east of their group," writes John Ritchie, Jr., in the Ladies' Home Journal, of "Where the Next Century will Really Begin." "At that time, although crowding than the carrot, for the rea-inches to eighteen inches of good soil it will be already Tuesday to them, all son that when it germinates, the leaves on this. When beds are formed mark the rest of the world will be enjoying are so small that it is hard to tell out the site, which should be well some phase of Monday, the last day of the nineteenth century (December 31, 1900). At Melbourne the people will be going to bed, for it will be nearly ten o'clock; at Manila it will be two hours earlier in the evening; at Calcutta the English residents will be sitting at their Monday afternoon dinner, for it will be about six o'clock; and in London, "Big Ben,' in the tower of the House of Commons, will be striking the hour of noon. In Boston, New York and Washington half the people will be eating breakfast on Monday morning, while Chicago will be barely conscious of the dawn. At the same moment San Francisco will be in the deepest sleep of what is popularly called Sunday night, though really the early, dark hours of Monday morning, and half the Pacific will be wrapped in the darkness of the same morning hours, which become earlier to the west, until at Midway or Brooks Island it will be For pigs just after weaning we find themselves, success or failure depends. but a few minutes past midnight of

The White House Fighting Fish.

longer than one's little finger. The male is the fighter, though its mate "will not hesitate to take a fin against anything that comes its way. A pair of these fish were brought to the White House from Siam ten years ago, and It is estimated that there are now between six hundred and a thousand of the species in the aquarium. They are fed principally on raw meat and are kept in separate tanks. Their favorite prey is the gold fish, and a tiny Paradise fish, when the opportunity offers, will tackle a goldfish treble its size and kill it with one blow from its fins.

The Paradise fish displays instinct knows its keeper and when he goes until the keeper tosses in the food.

When a number of these fish come

The Best Horseradish.

Some people care for nothing but not be compelled to drink the water others who desire horseradish. Usual-Feed every two or three hours the radish as the best, but an experienced of the tiny theater bonnet. first few days, after that feed five vendor of the condiment, Peter O'Neill, Whether the season is wet or dry, times a day. Unless they have free of Castle Valley, pooh-poohs this point this persistent grass seems to thrive. range on a gravelly soil they must be of view. "Why should the strong Even on the most highly cultivated supplied with coarse sand or gravel horseradish be considered good?" says farms, it often gets the upper hand from the first or they will have indi- he. "It brings tears to your eyes and and the field must be rotated frequent- gestion. It may be mixed in their lifts the top of your head off, and ly in order to be at all profitable. In food-about one teaspoonful to a pint makes you want to sneeze. It has no eastern New York it seems to have of food. When they begin to feather taste whatever. The mild horseradish, been as bad, if not worse, than usual out it is really a matter of economy that which has stood a while, is the best and pleasantest always. There is of the season was very dry. It is ly assists them in feathering out and nothing so foolish as to think that the especially annoying in strawberry satisfies their craving for something strong, biting kind is the fresh-that fields, as it comes up in the rows and of that nature, the lack of which will is the reason why it is preferred to the cannot be killed out no matter how cause them to pull feathers. Some- mild sort-for the very stalest, weakfrequent the cultivation or how care- times there is one more backward in est horseradish can be made in twenty development than the others, and this minutes strong enough to blow your The only way to hold it in check at one will annoy and seriously injure head off. All you need to do is to add san to it. Try this some time. Just take any old horseradish, dump in a spoonfull of salt and then notice the difference, I don't know why salt should have such a powerful effect on the stuff, but no doubt a chemist could tell you that."-Philadelphia Record.

> Normandy fishermen complain of the sudden appearance of cuttlefish, which are making inroads on the fisheries.

NEWS FOR THE FAIR SEX.

NEWS OF INTEREST ON NUMER-OUS FEMININE TOPICS.

A Public Spirited Woman - A Child's Sleep points out, men and women of forty broidered in open work with silk and ing Hours-An Odd Occupation for Women, etc., etc.

A Public Spirited Woman. Mrs. Enriquita A. Rylands, of Manchester, England, has just given a mag- up books for little boys and girls pubnificent library building to that city. lished in those days prove to us. Stories It is of fourteenth century Gothic of horrible little prigs of school girls architecture and constructed of Pen- who "set examples" at the age of ten rith stone, with cloistered corridors, were common, and at eighteen a girl groined roof and stained glass win- was supposed to relieve her exhausted dows, that make it seem like a med. mother of house work, and to brighten iaeval monastery.

a home for the superb and almost wife of some worthy young man, with priceless collection of books made by the late Mr. Rylands, and his widow old age. Nowadays all that is changhas given the name "John Rylands Li. ed, and the period of youthfulness has brary" to make it serve also as a monu. been largely extended. At ten a girl ment to her husband.

A Child's Sleeping Hours.

regular hours. At first he will sleep looks upon that as a reason for renewmost of the time not occupied in feeding. At the age of six the child should sleep ten or twelve hours at night and two hours during the day. Between taught to use their brains the old-fashthese ages the amount of sleep should gradually diminish. The method of ure of power after thirty-five has be- important part. training babies to sleep is simple: Be come absurd.-London Globe. sure that they are comfortable as to externals, and are well, then leave them alone in a properly guarded crib. After several months' humoring it may be dangerous to leave a child alone, as the little tyrant may work himself into such a rage as to have convulsions or to do himself physical injury, but the young infant may be trusted to "cry it out" in safety, and after the first disappointment is over he will be happier and more contented to take the ups and downs of life uncomplainingly.-Dr. A. L. Benedict in the Woman's Home Companion,

An Odd Occupation for Women. the like of which is not to be found but it is much less than at this time outside the King of Dahomey's ama- last year. zonian guard. Friday is market day The newst hair ornament is a snake some hundred or so of old women, who tulle choux. dart in and out among the carts catch- There are some pretty conceits in holsmall salaries by the proprietors of the dainty white tuile dresses, markets, and they receive many tips besides from drivers.

Courting Oom Paul's Neices-

Nachtmaal, or communion, which is white satin ribbon. epoch in a Boer girl's life, especially becoming, if she is about sixteen, when she is supposed to have attained the matrimonial age. Then some tall, robust on horseback many miles across the er. clain to the girl's home, and will prove A distinctly new stocking in black bride begins preparation for the wed- buckle, ding."

Tulle Toques for Evening.

pure, and has on the left side a giant embroidered in silks. butterfly painted on gauze.

flowers like violets, pansies or forget- ers. me-nots is eminently fashionable.

cibbon snoods, the fashion having been knots or flowers, set by the twin daughters of Mrs. Ogden Mills.

The fashion of perfuming the hair is spreading, but the scents used are apt in black and white and all black, and to be disagreeably heavy. A lady who leaves in your room for days after she has left it an odorous reminder of her presence has need to be near and dear before her return will be desired.

The Age Limit for Women. nistresses of girls' schools in the cdu- with good lace and some handwork.

ous responsibility. This absurd pre- silk facings. "aged," and unmarried ladies of twen- black and white. ty-five were looked upon as hopeless old maids. A hundred years ago chil- lin or chiffon blouses of a dressy chardren of six were supposed to have developed moral sense, as all the grownher father's declining years until she The building was erected to serve as should be thought worthy to be the whom she was to sink into premature loned conception of the necessary fail-

Ornaments for the Hair.

What to wear in the hear at social functions is a serious problem with every woman. A blonde can use either white or black, while a brunette would reap little benefit from a black tulle or feather combination. Blonde hair hair is very much benefitted by the contrast.

There are dozens and dozens of little satin and velvet and gold and silver and tinsel bows shown, and, though they are somewhat different from the Louis XV. bowknot, which was so long the rage, they cannot be called new. London has a volunteer police force, There is great demand for these bows,

at Covent Garden, and in the early in jet or steel, which is coiled around morning there is such a crush and con- the Psyche knot. The snake is comfusion of traffic there, with its accom- bined with aigrettes and choux of paniment of wrangling and unreason- tulle. The body of the snake encircles dish in the matter of quantity. The ing drivers, that the regular police the knot, the head is brought to the force is powerless to preserve order. front and is uplifted as if to strike. But Covent Garden has a contingent of On the side are the aigrette and the

ing at horses' heads, ordering some of ly. Not much of the green of the leaves mains only the breast for satisfactory the drivers to stop, others to back or is used, the rich, warm red of the berto move on, until the lines of traffic ries being combined with bows of the down parallel with the bone. A roast are cleared. The old women are paid same is used wth excellent effect on

Twists of tulle entwined with strings of fine pearls and ropes and pendants of pearls hanging down over the forehead are also seen. One of these tulle The Boer girl of the country districts arrangements, intended for a brunette, slices, somewhat thicker than from a of the South Africa Republic "is able is made of a twist of the most delicate to go to town only once or twice a coral entwined with pearl and coral year, and then it is to attend the beads and little pointed leaves of

the chief festival of these deeply re- Among feather effects shown the ligious people," writes Howard C. Hil- most popular seems to be the Prince first, then turning to get at the thin legas in the Ladies' Home Journal. of Wales. These three upright feathers side. In veal, mutton and lamb the "The journey to the town is made in may be blue, pink, cream, mauve, lowest bit of meat on the leg, the book. ox-teams, and may require a week's or green, black or any corresponding cola month's time, but it is always an or to the gown, and are certainly very and juicy. Tongue should be cut in

Novelties in Stockings.

Boer youth, whom she has met at for- er the fashion. The newest hosiery is and the grains of meats the rest of mer Nachtmaals, may summon enough not only of the finest silk, but it glit- carving is easily acquired." courage to ask her whether he may ters with steel or spangles, is richly call at her home and have an 'up-sit- embroidered in gay silks or appliqued ting, which is a sort of ultimatum be- with costly lace. Black slik stockings fore an ultimatum. If she consent the continue to have the preference over have no conception of the value of young Beor will shortly afterward ride all others, but they are plain no long-

hat he is worthy of her love by 'sit- silk or spider web texture has scatterting-up' and talking with her from sun- ed over the instep diamond-shaped down until break of day. For two open work designs, outlined with tiny Boers to arrive at this period of court- steel beads. This stocking looks exship is equivalent to announcing the tremely well with a black patent-leathengagement, and then the prospective er slipper ornamented with a cut steel

Black silk stockings elaborately embroidered in colored flowers are much the fashion. And the newest fad is thing for mamma, something that will About the prettiest evening hats this to have the floral design worked in winter are the shirred tune toques, tiny ribbons. Frequently the petals of trimmed with butterflies or flowers, the flowers will be made of the nar-One of maize tulle is covered with gui- row ribbons and the leaves and stems

The embroidery decorates the stock-For theater wear satin and velvet ing in various ways. The instep may bows, feathery aigrettes, velvet-petaled be a mass of embroidery-tiny flowers flowers-sometimes whole tiaras of like forget-me-nots or bits of rosebuds flowers-and sprays of fern have large- carelessly scattered over it. Or the ly such folk regard the strongest horse- ly taken the place of hats and even instep is crossed with bands of lace open-work with just enough space of A favorite ornament is a velvet bon- the plain stocking left between to act net, tipped with diamond dewdrops and as a background for an embroidered harmonizing in color with the bright vine. Then there are other black waist or theater bodice. Violets frost- stockings decorated with vertical ed with rhinestones, a rose with foli- stripes, reaching from the toe to the age and buds, or a wreath of small knee, formed of the embroidered flow-

> Other black silk stockings which are The hair is dressed altogether to suit new and extremely effective are made tally pictured as small and meek. the hat; or, when no hat is worn, it is conspicious by appliques of white lace, Turning to walk away, she noted a drawn as far forward as possible, so and occasionally the design of the lace as to give a long line from the back of is picked out with fine gold or silver held her head high and passed on. She the neck up, and is slightly waved all threads. The lace appliques are in had not gone far, however, when she tround. Young girls are wearing quaint the form of butterflies true lovers' felt a tugging at her arm, and there

FASHION NOTES.

Taffeta coats are seen, particularly sometimes dark blue.

Foulards still continue popular for morning wear, red and white being the most favored of Parisians.

The smartest blouse of the season is that in crepe de chine in paie shades According to advertisements for head and white, or that in satin, decorated

cational journals, it would appear that Buttons should be carefully selected, thirty-five is still considered in some as they are a most effective addition, quarters as the age after which wom. and much may be achieved by the wise en are regarded as unfit to take up seri- choice of a braid "set" laid over good

judice is an old-fashioned remnant of For evening bodices guipure and lace the ideas of the eighteenth century, are sure to be worn over satin and when, as a writer in the Contemporary chiffon and mousseline de sole, emand fifty were always spoken of as chenille and many paillettes, especially

Whoever possesses unlined lace, musacter should keep them carefully, as they will be very useful to wear as semi-evening dress during the winter at theaters or at small home-gather-

Lace boleros are much in evidence for slight evening wear, on which occasion they comport themselves admirably, especially when outlined in chenille. Fringed scarfs are frequently used as ties and cravats to wear with mart Etons or boleros indeed, it would be difficult to say what use the said scarf is not turned to.

Much stitching and braiding are to is still a child, and at twenty she is still be seen, especially where collars and a girl. Even at thirty she is not upon revers give opportunity for such decothe shelf, while the modern mother, ration; but one thing, it is imperative so far from being decrepit when her that the bolero or Eton is of the same The baby should be taught to sleep daughters are grown up, generally material as the skirt-no different coloring or fabric is permissible. Facings ing her own youth. Greater mental ac. of other materials, of course, are intivity has given freshness and inter- troduced, and cloth upon cloth, differest of life, and since girls have been ing in color only, is a feature in all tailor-built costumes of to-day-costumes in which the bolero plays no un-

CARVING MEATS.

flow the Various Cuts of Meat and Kinds of Fowl Should be Carved.

"There is a real pleasure in following the skillful carving of a fine, wellcooked turkey, says Ella Morris Kretschmar when writing of "The Art of is not improved by steel, while black Carving" in the Woman's Home Companion. "The carver should place the fork firmly in the breast, the neckend being to the left, then separate the two thigh-joints from the body. Next remove the wings at the shoulder-joint then slice the breast down to the long wedge-shape piece-the 'Emperor's muscle.' Next the bone should be removed whole, and then remove the oysters from the back, divide the legs and thighs, and begin the serving. Re-

move the filling with a spoon. "A goose, unless young and tender, is a carving problem, and even when same may be said of ducks, wild and tame. There is almost no meat on the backs of these birds; thewings and legs are far from choice, having little meat, from the round must be thinly sliced across its face. Carve a rib roast in slices parallel with the ribs, never parallel with the backbone, and make the slices as thin as possible. A fillet rib roast. A sirloin must have the tonderloin removed and sliced separately. Roast or boiled legs of mutton, venison or veal are carved by cutting at right angles down to the bone, the thick side is the choice piece, being very tender slanting slices, as thin as wafers. Ham, likewise, should be shaved rather than sliced toward the bone. When one up-The unobtrusive stocking is no long- derstands the exact location of joints

An Up-to-Date Infant.

money, to the great annoyance of a provident mother, and the amusement of an indulgent grandfather, who keeps the little chap well supplied with

He was making a considerable nuisance of his small self one day when guests were being entertained, and after suggesting numberless ways of amusing himself, in desperation his mother said:

"Harold, don't you want to do somehelp her very much?"

The child eyed ber with great earnestness for several seconds, before nodding a wary assent.

"Then put on your things," said the delighted parent, "and take your dear little spade, and shovel away all the snow from the back porch, and if you do it very nicely mamma will give you 5 cents-just think!" she added, impressively, "five-whole cents."

"Humph!" said the young American. with infinite scorn, "do it yourself an' I'll give you ten!"-Harper's Bazar.

Necktie Caught in Her Bonnet.

She was large and majestic, and had just purchased a flaming red necktie for her husband, whom the clerk mensmile on the face of a bystander; but was a small cash boy,

"Say, lady, will you please bend down your head a little," at the same time grabbing something which gave her bonnet a jerk.

One of those wretched ties strung on a line overhead had caught on her hatpin, and was streaming gayly and racefully down her back!-New York Mail and Express.

The average salary paid to Methodist ministers in this country for 1898 was