Smut in Oats. Smut in oats usually destroys ten per cent, of the crop and often more. Pro- as possible by avoiding wastes of all fessor Arthur came across a field of oats kinds. that was nearly destroyed by smut. crop. Of the same seed plots were in which, before sowing, the seeds were Of the same seed plots were sown soaked in copperas water. In four dif-ferent plots of different soil the unsoaked seeds gave about per 500 of 17.5, 29.90, and 23,40 of smutted panicles. The seed soaked in copperas water—toz. copper sulphate to one gallon water—seed soaked 174 hours before sowing, gave plants of which 9.2 panieles only had smut, the same soaked 40 hours, no smut. In a solution of caustic potash-1+ of caustic potash to 1+ pints of water, soaked 17+ hours—no smut, -Independ-

Good Food, Good Flavor.

Ever and anon some enthusiastic breeder of thoroughbred fowls descants upon the merits of his favorite breedtheir tender, juicy flesh and rich, highly flavored eggs, not to be compared with the dunghills long ago discarded—for-getting that the dunghills were truly named, and that from hard scratching for a living in a barnyard, they produced the small, tough bodies and ill-flavored eggs complained of, while his thorough breds have a yard to themselves, are fed on the choicest grain and grasses, have nothing but pure water to drink, and all the delicacies of the season, from the

What breeder has not noticed the difference in flavor of the eggs from his best yards and from the general flock running at large. Instinctively, the best fowls receive the best food and most careful attention, and the result is richer and better flavored eggs. Feeding for flavor to avo high arts of poultry culture .- New York

Impaction of the Stomach.

Cattle fed upon dry, hard food at this season are apt to suffer from indigestion, which results in fever of the stomach and impaction with the dry, undigested food. The inflammation dries and bakes the coarse matter in cakes between the folds of the stomach, and as this organ cannot act, death is only a question of time. The symptoms are duliness and loss of appetite; the nose is hot and dry, the eyes discharge tears and become red and there is great thirst. When dry, coarse feed is being eaten, the cattle should be given some linseed meal or linseed oil, and a thin tea made by boiling linseed is also very useful to prevent When it happens the best remedy is two pounds of epsom salts dissolved in warm water, and mixed with a pint of molasses. Linseed tea should be given copiously. When the rumen, or panch is involved in this disorder, it may save life to make an incision in it and remove the contents, and inject the solution of epsom salts. A few stitches will close the opening, which heals rapidly.—New York Times.

Fine Sand for Bedding Animals.

A correspondent of the Country Gentheman says: Many years ago, when I had easy access to clean sand, I used it had easy access to clean sand, I used it of them should be for bedding the cows and horses in during the winter. preference to straw, sawdust, dry tanbark or any other material, for the reason that a bed of line sand would absorb the the iquid of the stalls sooner and keep the

mals cleaner than any other bedding. There was the fact in the case. That is all there is about it. A few days since I was at the stables of a farmer who works large farm and keeps several teams and a large herd of neat cattle, who told me that he prefers fine sand for bedding to any other material. He had more than two thousand bushels (I judged) of dry, tine sand, stored for bedding in the win-No other bedding will prevent they

lomestic animals so lectu-ciena sand. A pack or five sand readily absorb and retain half a peck of liquid manure. Then, here is another important consideration in favor of sand, namely, the facility with which manurial cumulations of any stable may be handled and stored without loss from heating and "fire fanging," as stable manure will do when the bedding consists of straw or haum of any sort.

Curing Side-Bacon.

In handling any products of the hog care must be taken to kill on a cool, frosty day and see that the carcass is thoroughly cooled through, but not frozen, before it is cut up. The large pieces of side meat for smoked bacon are best cured by dry salting on a platform best cured by dry salting on a pace-made for the purpose. On this spread a layer of salt an inch deep, then rub each piece of meat thoroughly on the sides and edges with salt and lay the skin and edges with salt and lay the skin first layer of meat is completed, sprinkle a good layer of salt over it and then rub and lay down the next layer in the same manner as the first, and so continue until all is packed; finish with a good coating of sait on the top of the pile. The meat should be taken up and rubbed with salt three or four times during the curing, and repacked as at first. This rubbing may be done in a wide, shallow box containing three or four inches of salt in the bottom, and will be found quite convenbottom, and will be found quite convenient for the purpose. The time required for the curing will be from five to eight weeks, depending on the thickness of the pieces and the temperature of the pieces and the temperature of the room where it is kept. In a cellar with room where it is kept. before taking it up for smoking. The sanoking will require about ten days, hickory wood being the best for the purpose.—New York World.

the San Francisco Chronicle. This is a perfectly natural cross of nine pearls, all in one piece.

The finder of this unprecedented gem.

Saving Makes Profits.

so with feeding crops, if the manure is not made available by good culture, or attracted a great deal of notice and was good culture is not aided by liberal manuring, there is loss. A case in point may be mentioned of a farmer who produces over 2,000 pounds of tobbacco per acre. Made by good manuring and through tillage of so good a quality that it brings seventeen cents a pound, equal to \$340

desired ends constitutes the science of agriculture, and the whole intent, pur-pose and effect of science are to make every part of the farm-work as effective

In fattening cattle or swine there are thought to try whether the spores of the many opportunities for losses and wastes, smut fungus were carried with the seed. The most appropriate food is rarely The most appropriate food is rarely chosen, but whatever may be most conoats. Sowing some of these seeds next chosen, but whatever may be most con-year he found the smut abundant on the venient; there is rarely that mixture of foods which is most effective in making healthful mixture of flesh and fat; there are seldom the best arrangements for feeding without waste or for the preservation of health during the fattening process, and in many ways farmers miss getting the full effect of the food. How many make a pound of live weight from so little as four pounds of food, and yet three and one-half or even less of the best kind of food will make a pound of increase, and how many keep the best kind of stock for profit? We might say how few, for but very few do this. And yet with a large number of farmers the greater part of the crops is food to stock. This is an appropriate time for considering this matter and for acting in accordance with the most profitable methods. -New York Times.

Farm and Garden Notes.

Mr. Caywood believes that raspberries winter best that are kept growing until

frost. Spinach keeps longest in a cold pit on shelves, piled not more than six inches

Chas, A. Green says that there is no such thing as gluttony in plants. A plant takes just what it needs and no more.

Scientific tests in Hungary show that corn will produce the largest yield of milk, while sorghum produces milk of the richest quality.

William Muth says that bees dislike all black, dark or iron-gray colors, and that fur, hair and wool are an abomination to them. The bee-keeper, therefore, ought to avoid clothing of such material and

Mr. Philbrick says that the best kind of squashes for long keeping are the hard-shelled varieties, and advises that these be stored in a loft provided with double windows, to keep out frost, and a stove or other means of warmth.

A farmer says; "I put into a barrelful of sweet cider a quart of milk, about a half a pint of mustard seed-the black seed-and six eggs. Mix them all up together and pour them in the barrel. Cider will keep sweet that way for half a dozen years. I think it gets better and

sweeter the longer you keep it." Great pains should be observed in feeding swine, observes a Western pork maker. Never feed any more than they will cat clean at each meal, and not less than three times a day. Plenty of fresh water should always be where a fattening hog can drink at any time. Make a practice of raking and burning all cobs and refuse in the yard once a week. The pigs like the charcoal made from cobs,

and it will keep them clear of worms. One who has had experience in the matter advises that in storing away garden seeds they should be placed in woolen bags, with a piece of gum camphor in each bag, and also to dust the seeds with insect powder. These methods will protect the seeds against insects, which destroy many kinds, such as peas, beans, etc. All seeds should be kept in a dry place, and an examination of them should be made several times

It is becoming more and more evident that the making, saving and applying of all the manure possible on the farm, is a very important matter. Soil-tillers are beginning to realize the fact that, once supply of plant-food is exhausted, they cannot restore it without adding considerably to the expense of the crap Yet with many sufficient care is not taken to save material that, if properly managed, can be name into first-class fertilizers. There are many things wasted—much refuse matter thrown posty—which, if added to the manure or compost heap, would eventually pay good dividends in the way of increased crop-production.

The Christmas Tree.

mas tree
so bright
and green,
awaits Old
San ta Claus.
And the chimney place all swept
and clean gapes wide
its renderons laws and clean gapes wide
its ponderous jaws.
The little stockings are
all hung up, and baby's
just makes four. Won't
Old Santa Claus be surprised
when he finds there is no more.
There's an elegant place up in the
tree to hang Johnny's gun, and a
place for May and one for Kate to
leave their dolls upon. But for little
baby blue eyes a lower branch he must
choose, where she may reach and find the
sace he's hung her first new shoes. Turn
down the light a little, now, so Old Santa
Claus can see. And baby and all must
go to bed and be as good as good
can be, and to-morrow morn get
up early, after a long night's
sleep.

softly down to the Xmas tree a n d

Who will get the first peep.

an even temperature meat will take salt made on this coast a few years ago, when much sooner than in a cold room with an the now famous "Crude Australis," or occasional free e, and it will be well to Southern Cross pearl, was revealed, test the curing by cutting into a piece writes a West Australia correspondent of

was, as aften happens, unaware of its value, and sold it for \$100. The pur-Profit in all kinds of business depends more upon what is saved than what is when he was offered \$2,000 by four made. A farmer loses money if he does not make this principle the basis of all As with feeding live stock, and exhibited in the recent Colonial and

The Panama Canal. The Panama Canal, or rather "The Interoceanique," will be, when completed, about fifty-five miles long, says a Time per acre. By saving or making effective Democrat correspondent. So far about every part of the work, one acts with another to produce the desired effect, and the Chagres, and a portion of the mountingrowing crops, feeding stock, and the general management of the farm, it is not the amount expended or the work. This is all the work of contractors, not of the French. The American Dredging done that makes up the profit, but the Company have done their work nobly, useful effect produced and the saving of while the French dredges have lain idle labor and material. The work of the farm may be compared to the power of a Chagrey. The chief aim of a French emstream; one may have a leaky dam or a ploye seems to be to drink absinthe, flume, or a poorly constructed wheel, and cognac and claret, and wear a cork hat the force of the fall may be frittered and top boots. They are extremely away by various wastes. In factor work claration, and view Americans as an in the adaptation of the right means to the ferior race of animals.

PARTION NOTES FOR WOMEN.

The old-fashioned stone martin fur is again in vogue. Navy blue and olive is a very popular

color combination. Ostrich tipa or ribbon bows, arranged

with aigrettes, are still in vogue for the Folds of silk, ribbon, woolen, etc.,

have largely replaced linen collars and

In spite of many rivals, natural plucked beaver retains much of its former popularity

A favorite color combination for even ing wear is dark golden brown with rose color.

Wolverine is a new fur, showing the sable shades, and is very durable for trimmings, etc. Striped and figured plushes are re-

vived for skirts to be worn with cloth or silk overdresses. The newest brocades have satin figures sunk in repped grounds, and are usually

A toilet of black lace with accessories of white moire antique is very dis-tinguished looking.

White fox and crinkled Chinese lambskin borders are used upon white cloaks worn by the little ones.

Very elegant riding gloves are of white Swedish kid, embroidered with white silk in horseshoe design.

Short visites with full, wide sleeves are most favored for wraps of crape or other mourning materials The tournure is certainly growing

smaller, and back draperies are diminishing in volume to correspond. Small crocheted buttons, either black or matching the color of the gown, are

the rule upon cloth costumes. Gray astrakhan, chinchilla, otter and spotted leopard skins are used as trimmings upon children's wraps.

Polonaises cut in one piece are quite popular. The plaits are held in at the waist with a belt of steel or jet.

Borders of black or brown bear are fashionable trimmings for large cloaks, and both are durable and showy. Plush, plaid woolens and soft, rough

finished goods are equally popular for long cloaks for girls and children. Plain poplins are being revived, and

they are especially suitable for the grace-ful draperies of the present season. Fur borders are fashionable upon up right edges of skirt draperies, but are seldom arranged to cross the figure.

Among the winter luxuries for those who can afford them are gowns of velvet or cloth with entere underskirts of fur. Gold and silver braid, arranged in patterns upon white cloth or moire, is used

as a garniture upon handsome wool toilets. Three fabrics are used in many rich A favorite combination of costumes. this sort is brocade with repped silk and

velvet. Laces and gauze fabrics of every de-scription are used for evening toilets, in combination with moire, faille, velvet or satin.

Braiding is unquestionably the favorite trimming for dresses and wraps, and an endless variety of patterns are constantly being produced. Long veils of colored gauze, twisted

about the crown of the hat and tied in a large bow at the side of the throat, are very fashionable. Elaborate plastrons of steel, garnet, iet or amber beads, cor or uncut, are fashionable acce sories to be worn with

untrimmen podices. A novelty in fancy boots and shoes consists of an openwork pattern which is stamped out in patent leather over a white or yellow ground.

Ulsters are in every variety of beauty,

and make the most convenient sort of rough wear garment. They are in more elegant shapes than formerly. As a substitute for the stud or button in linen collars and cuffs, very narrow colored ribbons are drawn through the

buttonholes and tied in a bow. Short furs, such as seal, beaver and Persian lamb, when used as trimmings, are made into pipings or edgings, some

times being rolled on like a binding. Simplicity is a distinguishing feature of the present season's costumes. An elegant effect is produced, however, when the costumes are arranged by skil-

ful hands. Old gold, or, better, antique gold, is seen in the newest passementeries, and is exceedingly stylish on colored silks, the passementerie being used as collar and

Inch-wide folds of velvet are sometimes used as a garniture upon the dra-peries, collars, cuffs, etc., of wool When nicely applied the effect is excellent.

Close high bonnets take the fancy of those who like ladylike head gear and know that nothing is more becoming than the comfortable and attractive snug close bonnet shapes.

Old lace collars in the round shape worn twenty years ago are to be revived this season, and Worth already has in-troduced the low cut throat in his new models for afternoon gowns.

Himalaya cloth is one of the new fabrics used this season. It is soft and fleecy. It is generally used for trimmings to plain cloth costumes, and is put on in bands a quarter of a yard wide.

Rain fringe is a pretty new jet trim-ming which is used in decorating jet trimmed garments and costumes. very fine and has a beautiful sparkling effect, being of the finest quality cut jet.

A favorite Paris fashion is to trim seal garments with black a trakhan, and some of the most elegant are finished in this fur down the front and about the collars and half sleeves of dolmans and Russian circulars. Bear skin, which is always so becoming

in its fluffiness, is particularly adapted for boas, the black and brown being the favorite, while the silvery grizzly is re-served for those who like something elegant but showy.

The First Young Girl Cremated.

The first young girl to be cremated in America was nineteen-year-old Alida Weissleder, the daughter of the Superintendent of the Brush Electric Light Com-pany, in Cincinnati. Her body was burned recently at the crematory in that city. The corpse, wrapped in white alum linen, with white and yellow roses on the breast, was slid into the retort by two attendants, who at once retired, and in the stillness that followed the mourners could hear the puff and sizzle of the gases of the body as the heat devoured it. After an hour the blue flames stopped circling about the body, and a long white streak was seen where it had been. These ashes, when gathered up, weighed less than a pound. They were returned to the parents, and will be preserved in an ura. It was the ninth incineration at the a rematory.

BUFFALO BILL ABROAD! A Little Love Affair-What the Cowbern Think of it.

Thes success of "our own" Buffalo Bill—W.
F. Cody—in England is very gratifying to
his thousands of admirers on this side.
There was more truth than many imagined
in his reply to the inquiry:
"What are you doing in England!"
"Chiefly playing poker with Duchesses."
The English nobility quickly "cottoned
to" Buffalo Bill, because they recognized that
he belonged to a higher order than their own
—Nature's nobility. Despite his wild life he
early managed to acquire an education and
the polish which makes him easy even in
royal society.

the polish which makes him easy even in royal society.

His polish is the bitter fruit, it is said, of a young leve experience. When a young man on the plains, wild, woolly and unkempt in appearance and character, he fell in love with a dashing little school teacher. Full of pluck and faith in himself, he proposed to her. She laughed at him and he—collapsed.

After a time he braced up, bought some books, and began to study.

His defeat proved his victory. The girl was his mascot, and his successes are due to her.

was his mascot, and his successes are due to her.

Magnificent specimens of manhood though they be "Bill's boys" are not perfection. Under date: "Buffalo Bill's Wild West Co., London, Sept. 19, 1887," D. W. Shoemaker of the Cowboy Band, writes: "Some weeks ago I was suffering from great disorder of the liver and kidneys and general prostration. I was forced to quit work and take my bed. I called in a physician, who only afforded temporary relief. A friend induced me to take Warner's safe cure, which afforded almost instant relief, and after taking three bottles, I find myself in as good health as at any time in my life."

Two other members of the Wild West

bottles, I find myself in as good health as at any time in my life."

Two other members of the Wild West show, Mawe Beardsley, pony express rider, and Jim Mitchell, a cowboy, add to this statement of Shoemaker's, that in their long experience on the plains, from change of water, climate and mode of life, and severe riding, they became subject to liver and kidney diseases, and they have found a sure remedy for these troubles in Warner's safe curs. Mawe Beardsley says: "I constantly recommend it to my friends."

Buffale Bill has pluck and courage and hard sense, and not only controls all the wild elements that make up the Wild West show, but controls himself.

His experience as a scout makes him wary, discreet and shrewd. He quickly learns the best way to secure results, and, like a true man, has no prejudice against anything that proves its merits.

proves its merits.

Buffalo Bill is so popular in England he may come home a "Sir William." But if not be will probably enjoy himself quite as well, having secured a fortune ample enough for all his wants, title or no title.

A BLOOD-RED owl was caught in the woods near Jacksonville, Ill., the other day. It is the only one of the kind ever seen in the State.

A PROMINENT MERCHANT WRITES. I Was Bound to Keep Trying as Long as Life Lasted. WORTHVILLE, N. Y., Sept. 19, 1887.

Dr. Kilmer, Dear Sir-I wrote you some time ago about my case, without the 1 ast faith that you could do anything for me, as I had six different physicias and got no relief and was repeatedly told that I cou d not be cur d, but I was bound to keep trying as long as I fe laste l. I was urged by my wife to write you about my case, as I did in the spring. You wrote me to try your Swamp-Root Kidney, Liver and Bladder cure. I used it as directed and the result was, before I had taken the third bottle I was entirely cured, and have been gaining ever since. My case was a Hemorrhage of the Bladder, which had been draining my life for two years, and I can say to-day that I can eat, sleep and work better than I have before in twenty years. I say God bless you, and may the afflicted do as I have done. Us: Swamp-Root and be healed.

GEO. D. MACOMBER. Don't neglect early symptoms. At druggists \$1.00 per bottle, 6 bottles \$.00, or by express, Dr. Kilmer & Co , Binghamton, N. Y.

American Pearls.

Only one pearl of any kind is found in a hundred shells, and usually one in a thousand of any value, so that it is not a very profitable pursuit. The indescriminate killing off of the muscles in fishing and by poisonous sewage will eventually lead to their extermination. The greatest destroyers, however, are the hogs, which kill off whole banks in a single low tide. Pearls are also secreted by the common hardshell clam, these are usually white, tinged with purple, or almost black. The latter colors are preferred, although they have little value. They sell at from \$1 to \$100 each, and are found as large as a hazlenut. The common conch, fished extensively on the Florida const for bait, often contains the so-called pink Although they are not true pearls, they have sold at \$1,000 each. Our oyster pearls have neither value nor beauty. - Harper's Magazine.

In a Hurry,

A landlord met a tenant wag
And said: "Without a doubt, sir,
Unless you pay up, Mr. Bragg.
You surely must get out, sir."
Then, promptly, did the other say,
His tone his hurry proving:
"Excuse me, sir, I'm rushed to-day,
And really must be moving."
—Boston Budget,

"The play's the thing, Wherein I'll reach the conscience of he king." An I quantly true is it that Dr. Pierce's "Preasant Purgativ Pe lets" the original Lift fieldwer Pills are the most effectual means that can be used to reach the seat of disease, cleansing the bowels and system, and assisting mature in her recuperative work. By druggists. Is Michigan two backs that had their horns locked so that they could not get apart were killed by hunters recently.

Any Small Boy, with a Stick. can kill a tiger, if the tiger happ us to be found when only a little cub.—o consumpti n, that dea liest and most feared of disease, in this country, can assuredly be conquered and destroyed if Dr. Pierce's "Go.den Medical Discovery" be employed early.

A CALIFORNIA tramp set fire to a lot of rail-road ties in order that he might be sent to State prison and learn a trade.

The "Favorite Prescription" of Dr. Piero-cures" emale weakness" and kindred affec-tions. By druggists.

Accounts to Presiden: Willis more than 19 per cent of the graduate. of Michigan Col-lege have become farmers

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To the Editor—Please inform your readers that I have a positive remedy for the above named disease. By its timely use thousands of hopeless cases have been permanently cured. I shall be gird to send two bottles of my remedy fails to any of your readers who have consumption if they will send me their Express and F. O. address. Respectfully,

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aeronaut, sailed through the air in July, 1859, from St. Louis, Mo., to Henderson, Jefferson County, N. Y. -a distance in a straight line of 835 miles. He laid

Longest Balloon Voyage on Record, | femor Wise tried more than once, but without success, to equal or exceed the famous trip mentioned. Finally, a few years ago, he left St. Louis in a balloon Professor John Wise, a world-famed on a long trip, for the last time. He has never been heard from. A reporter who went with him was found dead some claim to 1,050 miles, by reason of the many turns taken during the trip, which took his balloon out of a direct course asters, the suggestion of a long air-voy-



"While thus engaged on work so fine, Where skill and patience must combine How oft the thought must pain the heart, That after all your care and art. The handsome work that charms the eye Ere long must solled and ruined ile."

"Oh, no; you make a great mistake As no such thought our rest can break; For should there come a soil or stain, No ruin follows in their train; However deep or dark they show, The IVORY SOAP can make them go; And all the brilliancy restore And perfect beauty as before."

A WORD OF WARNING.

There are many white soaps, each represented to be "just as good as the 'lvery';" they ARE NOT, but like all counterfeits, lack the peculiar and remarkable qualities of the genuine. Ask for "Ivory" Soap and insist upon getting it.

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For Summer Complaints and Chronic Diarrhosa, which are the direct results of imperfect digestion, DidESTYLIN will effect an immediate cure.

Take DVideSTYLIN for all pains and disorders of the stomach; they all come from indigestion. Ask our druggist for DIGESTYLIN sprice \$1 per large bottle. If he does not have it send one dollar to in and we will send as bottle to you express prepaid, Do not hesitate to send your money. Our house is reliable. Established twenty-five years.

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est and powerful tale, PRINCE LUCIFER, By ETTA W. PIERCE,

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