Mysteries of Nature

By G. Frederick Wright. A. M. LL. D.

STORY OF A LIME-STONE QUARRY.

One of Prof. Huxley's most interest- | drawn from the atmosphere, that ing loctures was entitled "On a Piece should it be all set free, man and most of Chalk." Chalk is a species of lime-iand animals would find it impossible stone made up mostly of the shells of to live in it.

good advantage only under the microscope. The northern portion of France and the southern shores of England the gas that settles around the lime are wholly made up of chalk cliffs, which present a very striking appear-applying such a degree of heat that ance-the old name for England, Al-bion, being derived from a word signi-fying this white appearance. It is found that in the deep sea dredgings when water is admitted to it. It is these minute organisms which constitute the chalk formation are still ac-cumulating, though at a very slow rate. Chalk is therefore supposed to be a deep sea formation. which forms the deadly gas of lime kilns, making it dangerous for chil-dren or animals to lie down and sleep in close proximity to them. be a deep sea formation.

A most interesting theory of Dar

Rocks of corresponding age in other

portions of the world are known as cretaceous, the word being derived contributed to build up the starta of from the Latin word creta, signifying chalk. These formations occupy a wide belt in the states west of the Missouri belt in the states west of the Missouri river, extending from Texas into Brit- result from the earliest times to the ish America, but there is not very present. Corals are forms of animal much true chalk such as we are familiar with in the schoolroom in this area. The rocks, however, are made low him as he dies, and continuing to where the species of shells, which are very beautiful and preserve still their indescent color. Another interesting locality where Another interesting locality where

Another interesting locality where chalk is found is over the hills of Pal-ocean, and indeed in most tropical reestine-Mount Olivet and many of the summits of mountains further south in Palestine, and the hill on which Namerth is hull being of that age Nazareth is built, being of that age and consisting, in considerable part, take upon themselves a circular shape, of pure chalk. oftentimes with deep water upon the

The chalk formations lie in about outside, and inclosing a large area of the middle of the geological horizon shallow water within the circle. and are several million years old.

win and Dana to account for these Coming down to our own line, we find the process of limestone forma-tion still going on with great rapidity in certain localities. The peninsula of Florida illustrates this in the most peak when the whole bed of the ocean striking measure. Sea shells are so was slowly sinking. As the coral abundant all along the east coast of could not endure the deeper water be Florida that they are washed up upon the shore in windrows, forming indeed a perpendicular face outward, while the entire shore line, while as one pro-ceeds to the interior of the state he finds successive windrows of shells the mountain peak would remain free, that have formerly formed the shore because of the sediment washing down line, showing how the land has grown from the mountain, which would in by these slow increments. These terfere with the growth of the coral, shells as they are rolled by the water Thus it is brought about that in many are broken up and much of them cases these circular reefs surround a ground into fine powder, when they, body of shallow water, from whose all together, become cemented into a center a mountain peak arises, while loose rock. The buildings of that re-gion-especially the old fort at St. gion-especially the old for at a solution of this mountain peak has disappeared and there is within simply a body of pro-

Among the most interesting lime- lent harbor, if there is any entrance stone strata of the earlier ages are to it. the corniferous and the Trenton limestone, which appear in special develop-Among the limestones of great in ment in the islands in the western terest are the various forms of marpart of Lake Erie, and in an area about Cincinnati, though the name world over for their beauty of color about Cincinnati, though the hand was derived from Trenton, N. Y., where the rocks were first carefully studied. The corniferous and Tren-tor the rocks were first carefully studied. The corniferous and Trenton limestones are favorites every-where for burning lime, while the rocks, where they have evidently been solid blocks make the most substantial subjected to heat and great pressure building material. The great locks at the Soo were built of corniferous lime-earth and transformed or metamorstone from Kelley island in Lake phosed into their present shape. The Erie, like Solomon's temple, every usual color of marble is white, but stone being fashioned at the quarry they are often variegated with almost and carried directly to its place in the great structure, many hundred miles mineral ingredients, especially iron and copper, giving them a red or

This limestone is also sought for green or yellow cast. very widely for the flux in smelting iron, its freedom from impurities give of lime which are not dependent upon the action of animal life, but are ing it special value.

The extent of these deposits over chemically deposited, especially in the the United States is very surprising. vicinity of springs whose water is While they appear at the surface at overcharged with carbonate of lime in comparatively few places, they are solution. As this water trickles down penetrated by deep drill holes almost from the roofs of caverns and falls



Dainty Lingerie

◄ IRLS who are making their troussenux will be interested in this very dainty underlinen, which, although being very pretty, is quite simple and practical. The drawers at top corner are a . French patiern, U trimmed with valenciennes lace and embroidery beading. The chemise glow has yoke of insertion, headed by beading; then comes a nightgown, rimmed with insertion and tucks. The camisole at top is for evening wear, and is made in piece embroidery, with insertion shoulder straps. The lower carmisole has a yoke of insertion; the combinations are to match, and The ave French legs. The Empire bodice of the nightdress is of piece em-

roidery. Material required: Drawers: 2 yards 36 inches wide, 2 yards valenyard beading, 4 yards ribbon.

% yard 36 inches wide, 4 yards insertion, 114 yard beading. Camisole: 2½ yards ribbon, 2½ yards lace.

Nightdress: 5 yards 36 inches wide, 2 yards embroidery 18 inches wide, Camigole: ¾ yard 36 inches wide, 2 yards embroidery 18 inches wide, embroidery edging, 2 yards ribbon.

Cambinatory toganar Cambinatory 1 yard embroidery 18 inches wide, 2 yards beading, 1 yard 2½ yards ribbon, 2½ yards lace. Combination: 2½ yards 36 inches wide, 4 yards insertion, 3½ yards beading, 2½ yards wide and 3 yards narrow lace, 5½ yards ribbon. Nightdress: 5 yards 36 inches wide, 2 yards embroidery 18 inches wide conduct 2 yards ribbon, 2 yards wide and 1 yard narrow lace, 2 1 yard embroidery 18 inches wide, 2 yards beading, 1 yard

yards beading, 3 yards ribbon, 2 yards wide and 1 yard narrow lace, 2 yards embroidery insertion.

VALUE OF THE COLORED SLIP CUIRASS STYLE IS POPULAR

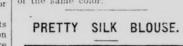
a Number of These a Good White Frock Can Be Worn One of the Most Effective With on Many Occasions. of the Season.

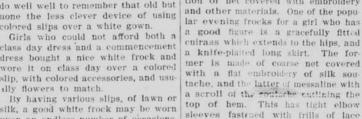
The girl with little money and a great need for pretty clothes would do well well to remember that old but tected water, which makes an excelcolored slips over a white gown. Girls who could not afford both a lass day dress and a commencement

wore it on class day over a colored slip, with colored accessories, and usually flowers to match. By having various slips, of lawn or silk, a good white frock may be worn upon an endless number of occasions. Besides providing a change of costume, the slip actually protects the

gown and helps to keep it fresh. There are various accessories which nay be had to match; sash, necklace or pendant, stockings and even shoes, nd, where possible, flowers.

Charming and inexpensive frocks may be made of white evelet, embroidered in a color and worn over a slip of the same color.





and is cut into a Dutch neck outlined with a flat band of valenciennes lac or a tucker of fine white net run with a colored silk ribbon. This frock is fastened down the back with lace buttons.

The original model came out in linen with the cuirass of coarse net covered with an Egyptian design of fine soutache. It ran straight to the neckband and was finished with a

The cuirass style of gown has

brought about an effective combina-tion of net covered with embroidery

Dutch collar of baby Irish lace. The sleeves are long, almost tight-fitting and finished with a turnover cuff of baby Irish.

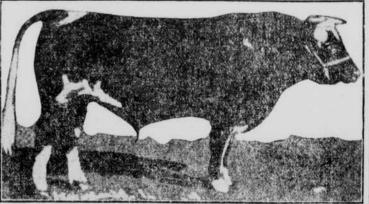
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Give More Profit in the Form of Churned Butter for Each Dollars' Worth of Feed Than Any Other Breed.

The early French settlers in Canada | markably docile. The udder is car came principally from the provinces of Normandy and Brittany in France, which lie near the Channel islands, the home of the Jerseys and Guern seys. The cattle of the mainland and of the islands were of the same blead of the islands were of the same blood, except when contracted by direct con-and those which the colonists brought tact with animals of other origin. The to Quebec, and from which the pres-ent French-Canadian cattle are $d \rightarrow$ in their ability to thrive on rough scended, were those very closely re- pasture in summer and coarse, plain lated to the Channel island breeds, fodder in winter Nevertheless they says a writer in the Rural New York- respond splendidly to better treat er. Even now the resemblance is so ment.

lose that many a light-colored, pure . In 1886, the Quebec legislature gave



Typical French-Canadian Bull.

as a dark Jersey. They have, in fact, been called the first cousins of these other breeds, but their residence for superior dairy qualities were admitted 250 years in the province of Quebec. to registration for ten years, but since in 1896 none have been, or can be, enwhere in the past, especially pioneer days, they were scantily fed tered, except the descendants of the and poorly sheltered, has developed a foundation stock already recorded. constitution of iron. The whole number of animals now on For size they rank with the Jersey;

For size they rank with the Jersey; record is about 8,000. At the Pan-cows averaging from 700 to 900 American exhibition, Buffalo, out of pounds, and bulls correspondingly ten competing breeds of cattle, the heavier. The color is black or dark French-Canadians gave more profit

ty is not necessarily a profitable ani-mal. It all depends upon her ability to transform food into milk with the least waste of material. The follow-A French-Canadian Cow.

ingligures, which are the average for the best three French-Canadian cows in the Pan-American six-months' test will show what this breed is capable brown, with sometimes a fawn-col- of doing: Amount of milk, 5,252.8: ored stripe down the back, and the muzzle may or may not be fawn, or orange-colored, like that of a Jersey. \$63.86; cost of food, \$23.64; profit on The general appearance is one of butter, \$40.22; weight of cow at entry, alertness and vigor. The head is in-

> shelled corn, oats and bran makes an excellent feed ration. Do not neglect the bran part, as that keens the system in good condition and aids digestion. Commence feeding grain to the ewes in time, so they will not run time. A poor ewe cannot take proper care of Her lamb, for she has nothing



Corned Beef There's a marked distinc-

tion between Libby's Oooked Corned Boof and even the best that's sold in bulk.

Evenly and mildly cured and scientifically cooked in Libby's Great White Kitcher all the natural flavor of the fresh, prime beef is retained. It is pure wholesome, delicious and ready to serve at meal time, Saves work and worry in summer.

Other Libby "Healthful" Meal-Time-Hints, all ready to serve, are:

Peeriess Dried Beef Vienna Sausage Veal Loaf **Evaporated Milk Baked Beans**

Chow Chow **Mixed Pickies**

"Purity goes hand in hand with Products of the Libby brand".

Write for free Booklet,-"How to make Good Things to Eat".



NOT THE BUTCHER'S FAULT.



Mrs. Customer-That lamb sent me, Mr. Stintwaite, was the largest and toughest I ever saw.

Mr. Stintwaite-Tut, tut. It's that boy been loitering again. I assure you. when that joint left the shop it was the sweetst little leg of lamb you could set eyes on, and I gave him strict orders to deliver it at once because you wanted it young.

A Gentle Aspersion.

Among the prisoners brought before a Chicago police magistrate one Monday morning was one, a beggar, whose face was by no means an unfamiliar one to the judge.

"I am informed that you have again been found begging in the public streets." said his honor, sternly, "and yet you carried in your pocket over \$10 in currency."

"Yes, your honor," proudly returned the mendicant. "I may not be as industrious as some, but sir, I am no spendthrift."-Harper's Weekly.

Shortcake.

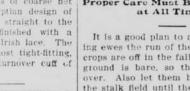
The strawberry shortcake, I love it, it comes, the cheapest feed on the in pastry I like half so well. Just give

Where Trouble Is Found.

Wigwag-1 never knew such a fel-low as Bjones! He is always looking

Henpeckke-Then, why doesn't he

get married?-Philadelphia Record.

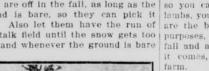




It is a good plan to allow the breed- to draw on. ng ewes the run of the farm after the If you have comfortable quarters, crops are off in the fall, as long as the ground is bare, so they can pick it lambs, you will find that March lambs over. Also let them have the run of the stalk field until the snow gets too deep and whenever the ground is bare

BREEDING EWES

Proper Care Must Be Given Sheep at All Times.



in the form of churned butter for each dollar's worth of food consumed than any other breed. Isn't this the kind of butter machine we need? Given a certain amount of raw material in the form of fodder and grains, the-cow that can manufacture this into but ter with the least waste comes pretty near to being the right sort to keep. n other words, a cow of great capaci-

bred Canadian cow can almost pass | an official standing to the breed by

in the Mississippi basin, upon the bottom, the evaporation everywhere and in the Hudson river and Mohawk leaves a certain amount, which arranges itself in the form of stalactite valleys.

From what we have already said of at the top and stalagmites at the botthe origin of chalk and of the penin-sula of Florida, it is easy to see that somewhat variegated in color and this extensive limestone stratum over somewhat variegated in col the Mississippi valley implies in early from objects of great beauty.

geological ages an equally extensive expanse of ocean, which was slowly

But, as already said, the main filling up with the sediment in some source of limestone is shells of ani places, but with sea shells in others. mais living in the sea. The material

The amount of limestone in the is brought to them by the rivers which world is enormous, being sufficient to come down from the continents make a stratum hundreds of feet thick charged with carbonate of lime in so over almost the whole habitable world. lution, the animals being so const In this there is brought to light a tuted that they can collect this from ethod of nature to clear the atmos- the water which surrounds them, phere of impurities which is very in- much as the leaves of the trees collect Lime itself, as a mineral, is the carbon from the atmosphere and teresting. a very different substance from the convert it into solid chunks of wood Thus these forms of animal life limestone with which we are familiar. Limestone, as we ordinarly know it, serve a double purpose, of cleansing is a carbonate of lime: that is, an element of lime is united to one unit of of depositing beneath the ocean bed carbon and two of oxygen, which forms the deadly poisson known as carbonic acid gas. All the limestone in nents, and furnish man with many o world, therefore, represents such the things most necessary to supply an amount of carbonic acid gas with- his wants.

Great Mountain of Borax

the Value of Which Can Only Be Conjectured.

With the exception of the Grand tions cannot be even roughly con-Canon there is probably no more fa-mous locality in the west than Death sands of tens any known borate de-Valley. Although there are a number of Mt. Blancos in the great American desert, the Mt. Blanco of Death Valley is the greatest of its name.

It rises like an enormous white crushing plant, near Pottstown, Pa., breast against the terra cotta ridge of were horrified when they unearthed Funeral Range, close to Furnace the skeleton of a human being. It was Creek canon, a great rent that ______ found at a depth of ten feet, with a an eye-sore. A clever owner of this _______ inexpensive Cottons. ________ the east rampart of Death Valley_______ jumbled mass of stone around it, and overplusage solved the difficulty by As linea ducks bring the cost of Around it is a rolling waste of bald 1,000 feet above them.

Immense Deposits in Death Valley, measuring 1,000 feet in width and 5,000 feet in length, pitching into the mountain range at a 33-degree angle. It is a borax quarry whose limita-

What to do with old silver or gold news to those (of whom there are

Skeleton in Stone Quarry.

Workmen at the Silver Dale stone -many of the articles being of little wrist use-and very soon do they become coffin. When exposed to the air it



Blouse of silk trimmed with wide

ands of embroidery simulating a bo

lero and laced in front with ribbon.

The guimpe and undersleeves are of

the Over-Supply of Old Silver

or Gold.

tulle



of the season Stripes are not as wide as they

were last year in men's shirtings; nor are they as fancy.

Among the materials used for bathing suits are mohair, fine serge, taf-feta and silk serge.

Some of the newest and smartest of skirt and coat costumes are being made without sleeves

Necklaces of small cut jet beads will be worn much this summer by those who favor the collarless gown.

Woven of Linen.

For the stout woman there are beautiful combination garments even thinner than the usual batiste and linen affairs made by the perfect seamstress. They are low necked and of knee length.

Those corset-cover-pantalon combinations are of exquisite make and beautiful finish-the really best garment for the would be hipless.

Shantung for Summer.

MAKE SPLENDID NECK CHAINS For comfortable summer suits, fine serge with shantung for the cost, both The Best Use to Which One Can Put in the same shade, is being employed Such suits are finished simply, the only braiding often being on the turndown collar, which comes only to the side of the front and around the what to do with old sliver or gold is no longer a problem—which is good above and holow the ellows.

news to those (of whom there are many) whose over-supply of both, but amount and around at different parts especially of silver, has heretofore been a nuisance. What with bridge been a nuisance, what with bridge which a girl has just embroidered for which a girl has just embroidery bear been a humante. Units and Christmas gifts alone — the individual's or recip-ient's accumulations become serious tient's accumulations become of little

there was not a remnant of wood to turning her silver over to a well-known suit or skirt up to a considerable sum collow hills, and it towers a good indicate that the body ever lay in a jeweler who had it put in the melting the manufacturers have considered the 1.000 feet above them.The lowiands of Death Valley, sinking for several miles weaward, is probably 2.500 feet lower.No one ledge or series of ledges anywhere in the work contains the immense amount of borate quartz shown in the surface of this mountain the titue for experiments with radium is of Colemanite. It is a body of oreoffin. When exposed to the air it crumbled, and the workmen could not that sex it was. The skeleton and some single row neck chain of that sex it was. The skeleton and some single row neck chain of that sex it was. The skeleton and some single row neck chain of that sex it was. The skeleton and some single row neck chain of that sex it was. The skeleton and some single row neck chain of that sex it was. The skeleton and the workmen could not that sex it was. The skeleton and some single row neck chain of that sex it was. The skeleton and the workmen could not the approximate of the and it is the offic respond—a single ball for each ball. Worn with black gowns the effect is exceedingly smart Gold in elifed down serves for neck chains of Colemanite. It is a body of orein a year's time the ground will be for the air it is durable and reliable of the approximate of this mountain the string disease.Method in Handling Feeds. The offic respond—a single ball for each ball. Worn with black gowns the effect is exceedingly smart Gold in elifed down serves for neck chains or beads.In a year's time the ground will be for the approximate of the second offic respond—a single ball. Comment approximate of the approximate of the approximate of the approximate of the second provide the second provide the same width is durable the same width is durable the same width is durable and reliable of the approximate of the second provide the second provide the same width is durable and reliable of the second provide t pot and afterwards converted into a needs of slimmer purses and there are

Some Good Ones.

in the winter turn them out so they cultivation. They may be protected against any and all kinds of insects more benefit than the food they get, and as the fruit is finer in quality, if For rough food there is nothing bet ter than clover hay—the sheep never get tired of it, and corn fodder is next. Timothy or slough hay is very poor feed for sheep and fhey do not seem the duality is less the value the fruit will command will bring up the aver rge well with standard trees. There are so many difficulties at tending the culture of the apple, the tending the culture of the apple, the to thrive on it as well as on clover worst being imported insect pests, that hay or corn fodder. Be sure to save the business will have to be carried

some clover hay until lambing time, on largely by specialists in the future as the ewes will give more milk for The competition of western orchards the lambs on clover than anything will also be a factor in forcing better else. For a grain ration a mixture of methods upon our eastern growers.

grower of Washington county. The idea is that the tops have done their duty after blooming. Try a few, not be satisfied by knowing the cow that gives the most milk or butter in Interesting Notes Concerning Grass, a day or in a year, but he will seek the cow which produces the most from

> Don't forget to keep picking the eucumbers as they ripon. Look through the vines carofully (they have a great

rm. Use a good, pure bred ram on the with freshly crushed berries spread flock, as the improvement in quality, over the lot, and I am contented and size and feeding capacity of the lambs happy, no matter what ailment or will more than repay the extra ex- trouble or sorrows I've got. Ho, bring pense and you are getting a better on the shortcake, the strawberry shortcake, and always and ever I'm lock instead of running them down, as with a scrub. Jack-on-the-spot!-Los Angeles Ex press.

Dwarf Apples.

Astrachan apples on dwarf trees four years old have set so full as to require half of them to be taken off with some trees two-thirds, says e American Cultivator.

Dwarf trees will require more pruning, the fruit to be thinned and higher

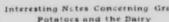
The dairyman who is up to date will each dollar's worth of feed.

Picking Cucumbers.

Toasties-

Popular pkg: 10c; Large Family size 130 Made by POSTUM CEREAL CO., LTD., Battle Creek, Mich.

FARM WORK



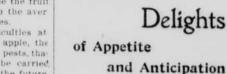
SNAP-SHOTS AT

Potatoes and the Dairy ut down and bring in for the cattle o stamp down in the yard for manure? There may be a low swale

is there any wild grass that you can where you can get some of this. It

will all help to keep up the farm.

There is no better way to stop a way of hiding in the leaves), so that wash in the field than the following none will be overlooked; for two of method: Get some old rails and three large ones going to seed will sharpen them, then drive them into sap the strength of their vine, where the ditch, level with the ground, so as in picking them right along new that when the rains come the rails these will form and a continued supwill gather the stalks and grass, and ply be secured.



Keenest

for trouble.

are realized in the first taste of de-



and Cream The golden-brown bits are subtantial enough to take up the ream; crisp enough to make rushing them in the mouth an exquisite pleasure; and the fla-cor-that belongs en/y to Post

"The Taste Lingers"

This dainty, tempting food is made of pearly white corn, cooked, rolled and toasted into "Toasties."