Spring Water.

rapidly, they consume a great deal; and

There is a common notion that spring kinds of food that they can digest and water is pretty much the same everyassimilate. They do not need fat bewhere, that its constitution varies much yond a limited extent, and they can get less than that of water from other sources. It is true that in general spring water is the best drinking water. Horse never should be highly fattened, spring water is the best drinking water. But there are very wide differences in the quality of different springs, and especially in the quantity and quality of the various mineral substances which they contain. The main distinction is into hard and soft waters. The hard waters are those which contain lime waters are those which contain lime shall be stuffed. An animal may be waters are those which contain lime and magnesian salts, and consequently will not form a lather with soap until after the soap has decomposed these salts. The "soap test" for hardness consists in employing a solution of soap of a given strength, and ascertaining how much of this must be added to a given quantity of water to form a lather which will last a given time. Hard water may be softened to a considerable extent by boiling it—in some cases an extent by boiling it—in some cases an economical expedient. There are hard waters that require seventeen times as much soap to make a lather as soft water economical expedient. There are hard in using the bone and induce to hang charles of the bone and induce to hang charles of the let, meal, peas, oil meal, good hay, wheat bran, roots and grass. It is always well to furnish animals, and requires. The scap thus wasted in using especially young animals, with a change hard water costs the community an of diet, but precisely what we shall feed enormous sum annually. in the above list will depend upon cir-

Soft water is comparatively free from lime, and from the magnesian salts. The effects of its habitual use on hcalth that all animals need a reasonable and growth are still an unsettled ques-tion. Of French recruits, says Galton, a larger number from soft than from hard water districts were rejected on-hard water districts were rejected on-

hard water districts were rejected on-examination. But this proves nething, for the rejection might have been due to other physiological causes. And, "on the other hand, Highlanders are a stalwart race, and the water they have is mostly soft water." In the United States, ever since measurements have been measurements have soldiers have come from Kentucky. able of performing its functions, and Then follow, in the order of average that the case, indigestion and all the etatues, the men of Kansas, Minnesota, other ills of animal flesh may, and Missouri, California, Nevada, Indiana many of them will likely follow. But and Virginia. In no other States does it is not the very easiest thing in the the average stature run over five feet world to furnish pure air in the right eight inches. In Kentucky, it may be added, the ailment of stone in the blad-der is frequent, presumably on account of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the bit of the prevalence of the prevalence of magnesian salts in the bit of the prevalence of magnesian salts in the prevalence of the prevalence of magnesian salts in the prevalence of the prevalence of magnesian salts in the prevalence of the prevalence of the prevalence of the prevalence of magnesian salts in the prevalence of th the drinking water. But even if such means were perfect, a

The terms "hard water" and "soft great draft of air through a stable door water" need a little more careful defini-tion than they commonly receive. There establish a means of ventilation by qua'ities of the variety to which it betion than they commonly receive. There are many kinds of hard waters. One kind is that which flows from strata that contain much magnesia. This tends in some cases to produce goltre, a disease of which the chief cause is indeed a very different one, namely, insufficient ex-posure to sunlight, as among the in-habitants of that rather gloomy tract of the river Rhone, the Valais, just above Lake Geneva. Still the allment has been traced, in parts of Francé and Empland (in the latter it is called 'Derbyshire neck''), to the use of hard to not make the stable, and the stable. Children at Table. to the variety to which it be-grow very slowly in pots, and at three years of which the latter it is called 'Derbyshire neck''), to the use of hard "Derbyshire neck"), to the use of hard Children at Table.

magnesian waters.

Brillat Savarin, in his book entitled This, happily, is in this country not a s what, ren-

SCIENCE AND INDUSTRY.

-Two Western inventors have re-The Agricultural Department at Washington has a good-size 1 hot-house centiy obtained patents for the use of sawdust instead of sand in plastering devoted entirely to the cultivation of compositions.

orange and iemon trees. There is not -An Ontario village is lighted with much use for any one to apply for an orange or lemon tree who does not live gas made from sawdust, said to be equal to coal gas and free from sulphur .in the orange-growing belt. This ex-Montreal Witness. perimental nursery is maintained for

About Orange Trees.

fornia orchards.

-A man at Enterprise. Miss., has the benefit of the practical growers of taken out a patent for an invention for citrus fruits, most of whom live in Calhitching a horse to a buggy without any ifornia and Florida. If every person harness except the collar. who wants an orange tree for a hot-

house ornament was to be gratified, the -Glass is becomin ; fashionable as a department would have to greatly enprotection to oil paintings, and as a large its facilities for growing plants. safeguard against moths and damp the backs of valuable pictures are covered The object is to introduce the best varieties of oranges that grow in any part of the world into the Florida and Caliwith rubber cloth -Boston Globe.

-Dr. Wilson, in the Med cal News, claims to have obtained much better re-Running down the middle of the hotsults from the use of the internal memhouse there is a bed of earth, probably brane of hens' eggs for healing large four feet wide, in which the big orange surfaces in wounds than from either hutrees are growing. There may be man or rabbit skin.

twenty or more of these trees, and most -Two cases have been reported to an of them are fifteen or twenty years old. English medical society in which the Constant pruning and cutting has preelectro-magnet has been successfully vented them from growing to the usual used for removing pieces of iron from size, and the trunk of the largest is not the eye. Without the magnet it is more than two inches and a half in dithought that the sight of the in ured eye ameter. These trees represent the best must have been lost in each case.

varieties of oranges, and once a year -An exchange says that "by means they bear fruit, which attests the excellence of the family of which each one of an ingenious instrument invented by Dr. Lombard. of New York, it is ascerbelongs. The Scriptural maxim, "Evtained that a woman's body is warmer ery tree is known by its fruit." is the law than that of a man by three-fourths of of this experimental garden, and

a deg ee, and sometimes as high as onesuch as do not bear good fruit are speedily torn up by the roots. In the half of a degree, while in no instance summer the roof is taken from the hot- has the warmth of a male's body been house, and nature is allowed to have found to be greater than that of a feits own way. As soon as frost is threat- male."

ened the glass roof is put back in its place, and if any branches have pushed - The time required for the formation of mineral veins appears to be t eir way above the ridgepole they are much less than has been generally supposed. A ditch which was tilled up two cut off, so that no tree ever gets to be more than fourteen feet high. Orange years ago with common clay containing iron, has just been opened again by Dr. Fleitman, who has found, to his great trees in Florida grow to a height of forty feet in twenty-five years. One tree has been known to produce a crop surprise, that the clay has become white of 10,000 oranges in a single season. and is permeated by racks filled with The price of oranges at the orchards compa-t iron pyrites, these veins being is about one cent apiece, so that this from a twenty-fifth to a sixth of an inch in thickness.-N. Y. Mail.

-A model of a novel canal-boat has been placed on exhibition by a Cleveland inv ntor. The boat is to be pro-

piece of property. Although the orange is more apt to pelled by a screw, so g ared that it can be made to turn by horses or mules traveling in a circle in their stable in qualities of the variety to which it bethe boat. The inventor claims that abundant power can be had in this manner. and that a large saving can be e 'ected, particularly in river towing bills and by the reduction of help; that it would be cheaper than the present method of towing even though no better time were made, but he is confident that four or five miles an hour can be accomplished. - Clercland Leader.

-Hitherto it has puzzled eminent surgeons to account for sudden death very slowly in pots, and at three years caused by apparently inadequate wounds in the heart, such as those of age they are nothing but switches. When planted out in suitable soil they made by the prick, without penetration grow much more rapidly, but at best a needle Herr Schmey

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danger to health worth mentioning. In general the hard waters that come from dered into English, reads thus: "A fine the chalk and limestone formations are dinner without old cheese is like a the best; those from clay soil, from sur-face soils, and from loose sand, or from Confessing a weakness for old cheese, I ace sons, and from hoose sand, or from soft sandstones, are apt to be impurer. Water that flows from granite rock is generally both soft and pure. But some of the most famous and efficient mineral springs, as those of Carlsbad and Marienbad, come from the granite, and are highly charged with constituents of country, however, as soon, as the little are highly charged with constituents of country, however, as soon as the little the granite in solution.

the granite in solution. Springs are seldom abundant enough to form the direct supply of a city; it would be better for us if they were. The impurities of city drinking water are generally contracted in the streams, ponds, and reservoirs through which they must pass before reaching the con-sumer. But there are fortunate excep-tions to this rule. The city of Vienna has a new supply from the Kaiserbrunn has a new supply from the Kaiserbrunn and the Sixtenquelle, fifty-eight miles from the capital. Besancon, in Eastern monopolize the conversation, or of oranges which differs from the oranges from the capital. Besancon, in Eastern France, is thus entirely supplied, and from one of the most beautiful springs that I have ever seen—the Source d' Acier. It pours out of a mountain side 780 feet above sea-level, and sixty-seven feet above the ancient city of Besancon, which it now supplies for the second time in the course of seventeen hundred time in the course of seventeen hundred years. When the Emperor Marcus Au-relius, in the second century commind relius, in the second century, occupied one, mention it there.

this province, he constructed an aque-duct, which still exists. Its tight brick he certainly will) take time to answer horida. Some are delicious and some vaulting is still as perfect in many parts him (if you can), always teaching him are very bad. The Spaniards brought of its six miles' course as when it led to wait until others have finished speak- the orange to Florida more than 350 did in my life was to learn to write my the waters of Arces ("The Arches," so called from the brick arches over which the canal was partly carried) to the child is often more sensitive than you Roman citizens of Vesontio. know, and one who is continually

a deal of thought and care; call it

trouble, if you will, but the labor of

training children-or of one child, even

Fashion Fancies.

About forty years ago the people of silenced and made to feel that he had Besancon built the modern aqueduct no definite place will rarely feel at ease over nearly the same course as that of as he grows older, or develop into a over nearly the same course as that of Marcus Aurelius. The spring, or sub-terranean river rather, breaks at a single bound from the limestone rock, deep in an ancient wood. Its leap is like that of the "mighty fountain" in Colerige's "Cubla Khan." But the torrent is in-trouble than." But the torrent is intercepted by a dam, which turns into children should be seen and not heard." the mouth of the aqueduct a supply sufficient for sixty thousand people. Caught up by the engineering works the moment it leaves the rock, and before any contamination from air or soil place where he may learn something. can occur, the water reaches the city But above all things, put far from you, as cool and limpid as when it springs from the mountain-side. The living spring actually flows in the old town. It is almost at an unvarying temperature, and the only fault that is found with it is the domestic to annoy. Let not the jar of the domes-tic machinery—should there be any— be heard at table. Even should you be compelled to reprove, do it so carefully is that during the long-continued rains it is slightly turbid. The surplus water rushes down the hill-side at Arcier in a cipline, or even moral reflections conbeautiful cascade, and pours into the cerning his conduct, until you have him river Eoubs, the Dubis of the Roman alone. wine and water drinkers' time. - Titus All All this table training will require

Munson Coan, in Harper's Weekly.

Raising Colts.

-in any direction is no sinecure. Ju-We are asked by a correspondent what kind of foods a colt should have, dicious direction will do more than constant repression. They do not care particularly to be "seen," but they do want to be "heard" sometimes. Thereand whether or not plenty of food will make a better horse than scant food. make a better horse than scant food. There is no difference whatever in the principle of feeding young animals. All of them, whether they are children, colts, pigs, calves or lambs, need food of nearly the same character. They are born into the world with perfect but diminutive systems. If we expect to fully develope them into a grown oreature we must food such that the the food a grown or a such the same character. They are born into the world with perfect but diminutive systems. If we expect to fully develope them into a grown or a unst food a grown creature, we must feed such foods as will furnish material to increase the size

Muslins are revived for evening wear. of the bones, and that will build up the These are fine and generally p muscular system. Unless we do feed such foods we might just about as well feed nothing; for the young animal, if ion this spring. A curved steel is placed wholly deprived of them, could make no growth and could not retain health. There is, of cource, in all foods some-are shown in floral patterns. There are thing of the bone and muscle forming elements, and when fat forming foods are fed almost exclusively to growing animals, those elements are the only elements that keep life in them at all. But if so fed they are loosing all the time and is a process of gradual de the shown in horal patterns. There are also some very fine checks displayed. Inch stripes of black and gold are also to be found, these being used for plaited skirts as last year. Satins will be much worn. Gray walking suits of one color look remarkably well. Great discretion time, and it is a process of gradual de- should be exercised in the matter of cay. In the case of swine that are often | trimming with any color; slight touches this is as true as it would be with the quite permissible however. We are colt, but they are kept such a comparatively short time that the ill effects are of several years since. Dotted veils are not as conspicuous as they would be with not nearly as popular as those made of in February and the oranges are now the colt. If we take a colt and feed it plain Brussels net. This net is so very corn exclusively we shall have an fine that it can hardly be seen. It comes imperfectly developed horse, and in brown, black, red, dark blue and one whose system is full of disease. green. Long overskirts will be fashion-We again repeat, in this connection, able on all spring gowns. The majority that hine-tenths of the diseases of ani- of them will be without trimming. mals can be directly traced to this Tight-fitting polonaises, made of cloth process of starving the system by neg- and trimmed with bands of feathers process of starving the system by neg-lecting to supply it with the materials that it needs to repair the waste of bone and muscle, or in case of young animals that it needs to repair the waste of bone and muscle, or in case of young animals and muscle, or in case of young animals the materials necessary to make growth of bone and muscle. This, too. will answer the question of our correspon-dent, whether or not plenty of feed will make a better horse. All young and growing animals are great feeders. It is from what they eat that they must is from what they eat that they must get every particle of growth of bone and employed to drive and take care of the muscle, and as they are developing herd. -- Chicago Herald.

the orange tree is of very slow growth. student of the Physiological Institute, It is this circumstance that wrecks the prospects of so many people who go to Florida expecting to make money from an orange orchard. After they spot on the lower border of the upper third of the septum cordis, quite in-stantaneously the movements of the plant their orchard they must wait about twelve years before it comes into heart are arrested and forever set mogood bearing. It is not surprising that those who are past middle life get tired tionless in death.

-If any one doubts that the Ameriwaiting for a return for their investcans are an inventive people, let him ment. Aged people should only plant orange groves for their children. The number of nearly 300,000. There have been no less than 6,650 patents obtained on the plow alone, about as many on the harvester, and over 8,000 on

stoves and furnaces. It sounds singular, in this connection, to hear that 869

-Do not wait till the iron is hot, but DEERING, make it hot by striking.-Edwards. shadow. - Fulier.

of oranges as of apples, and pretty nearly all the varieties are grown in "Yes," sighed a broken-down man who had given his signature to oblige own name. -N. Y. Commercia! Adverliser

-A correspondent writes to a counwhen grown from the seed to run back into wildness, and the Flerida orange try paper that by using phosphate he has had the best corn he ever raised. We have never tried phosphate, but suffered greatly from this deterioration. The birds carried the seeds about, and we have found a pair of tight boots to the wild, sour oranges that grow in the be a very effective corn raiser. Buffalo swamps are the legitimate descendants Express.

of the good oranges of a couple of cen--Dumley came into the dining-room turies ago. A good many sour and and, casting a sweeping glance over bitter oranges of the old stoe are still the table, ammed down into his chair. sent to the North, and find purchaserand muttered under his breath, "Liver because they come from Florida. again, of course. We've had liver every morning for two weeks." "What's the matter, Mr. Dumley?" asked the landlady; aren't you feeling well this morning?" "No, madam," ne replied, shortly; "I am suffering with liver com-When Mr. William Saunders, Superin tendent of Gardens and Grounds of the Agricultural l'epartment, was on the west coast of Florida, last winter a year, he was told at Tampa that the very best oranges grew at Manitee. When the boat arrived at Manitee a plaint. - Phi a telpha Call.

-Old Mr. L., one of the best of men, is an invalid, but always maintains, man came on board with a basket of Tiger, oranges, and Mr. saunders bought a oranges, and Mr. Faunders bought a dozen. After tasting four or five, and finding them bitter and sour, he threw them all into the water. The huckster had evidently got hold of a very bad variety of the native orange. The best oranges that grow in Florida have been oranges that grow in Florida have been are suffering, and yet you thank God.' introduced there since the war. "Anybody can thank God when he is feeling well," was the reply.-Boston The Agricultural Department gets orange trees from all the orange-grow-ing countries in the world, and propa-Giobe

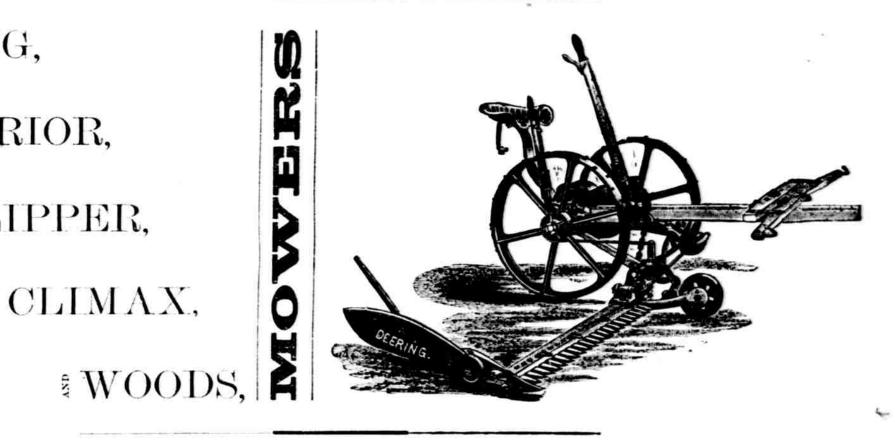
-What is my opinion of prudence? gates those that seem to bear good gates those that seem to bear good fruit. The best orange tree in the hot-house came from Bahia, Brazil. The fruit is medium-sized, thin-skinned, of golden color, and delicious flavor. Many hundred shoots from this tree have been grafted into plants and sent have been grafted into plants and sent to California and Florida, and from collar with the starch washed out of it.What is my opinion of intemper-ance^p It is a fire we kindle in ourthese whole orchards have been produced by budding and grafting. In California particularly this orange has selves without a dollar's worth of inobtained the highest reputation, and it has taken the premium at all the fairs surance on the premises.—Merchant Traveler.

where citrus fruits have been exhibited. -An elder in one of the churches Another very good orange is the St. Michael's, a variety that is highly prized in London. It seems to grow better in Florida than in the tropics. The Florida winter gives the rest that home. He explained his errand to her, all fruit trees ought to have. By far hoping to get her name to the list, and the larger number of the orange trees | she replied: "Well, I'll ask mother, and plants in the collection of the Ag-ricultural Department were obtained in money, for she says we must patronize the peddlers who come along, or The orange takes nearly the whole they will be driven to steal and rob." year to mature. The trees blossom in He hasn't gone back to see if she suc-February, and the pulling of the fruit | ceeded. - Detroit Free Fress. begins in November and continues -"Bridget," said Mrs. Wigglesworth through December. The fruit does not to the new kitchen lady from Messina, drop readily, and will remain on the "you may lay the table." "Is thy branches during the whole winter. It servant a hen, that he should do this drop readily, and will remain on the cay. In the case of swine that are often so largely fed from the start in this way, this is as true as it would be with the the work of the permissible however. We are this is as true as it would be with the the permissible however. We are the permissible how the permissible how the permissible however. We are the permissible how the permis observe about the same order that they ing to time, "She is a Biddy." And do in Florida. They were in blossom Mr. Wigglesworth said "H'm!" and went out to see if his sweet peas were as large as the marbles which boys call "commoneys." Oranges that grow in coming up, and found that with the assistance of the neighbor's hens they hot-houses are as good or even better were.-Rockland Courier-Gazette. than those that grow in the open orchard, provided the temperature is -At a recent auction sale in Washproperly managed. They must not ington of the effects of a colored have too much moisture when ripening. woman, who was for years the house-The same may be said of grapes and keeper for Thaddeus Stevens, a snutfpineapples .- Washington National Rebox, presented to the great commone publican. by the Territory of Colorado, was purchased by Mr. Thomas Donaldson for -Artesian wells in New York City, show that the Fast River underflows the island. In the deep wells lately sunk the water ebbs and flows with the tide. -N. Y. Sun. -Mildew may be removed by dip-ping the stained parts into buttermilk, and putting them in the sun.-Cleve--Rochester, N. Y., has a man seven feet eleven inches in height. land Leader.

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cans are an inventive people, let him examine the Patent office reports, which few, however, will do, as they would rather accept the newspaper statements as veritable than wade through a library of shelved and dusty volumes. The patents granted by the Government reach to the enormous number of nearly 301 (00). There have a statement is a statement with the to the enormous and the enormous are statement. Horse Powers and Engines.

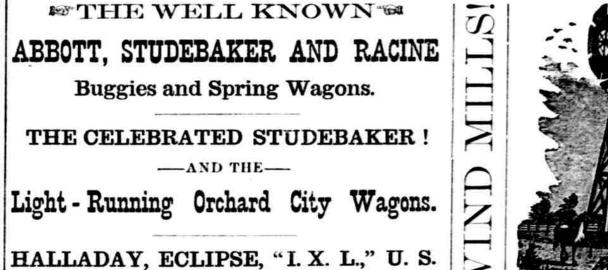


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