

Only Thirty and Gray

How is this? Perhaps sleepless nights caused it, or grief, or sickness, or perhaps it was care. No matter what the cause, you cannot wish to look old at thirty.

Gray hair is starved hair. The hair bulbs have been deprived of proper food or proper nerve force.

Ayer's Hair Vigor

increases the circulation in the scalp, gives more power to the nerves, supplies missing elements to the hair bulbs.

Used according to directions, gray hair begins to show color in a few days. Soon it has all the softness and richness of youth and the color of early life returns.

Would you like our Book on the Hair? We will gladly send it to you.

Write us!

If you do not obtain all the benefits you expect from the Vigor, write the doctor about it. He may be able to suggest something of value to you. Address, Dr. J. C. Ayer Co., Lowell, Mass.

The Bull and the Cyclist.

From Texas comes a report of a bicyclist who got mixed up with an active bull to the rider's physical injury and everlasting cigar. He carried one of those old fashioned bicycle horns on his handle bar instead of a bell. He overtook a large herd of cattle on a back road, and, after several vain attempts to work his way through them, he gave a loud blast on the horn. There was an instant commotion in the herd, and the immense bull at the head of the column paused and turned to listen. There was fight in his eye as he sought the cause of what he probably fancied to be a challenge from some rival of the plains. Unfortunately the cyclist faced his tester again, and the bull made mad charge at him, goring him horribly and wrecking his machine. It was with difficulty that the man was rescued and carried into Dallas, where he was placed in the hospital.

Shearing Machines.
The shearing machine, like the telephone, telegraph and railway, is with us to stay, say The American Sheep Breeder. It is economic, humane, dignified and from every point of view a cheering and a marked improvement on the old barbaric way of clipping sheep and live sheep-skins. The hand power shearing machine is sought for ten times faster than it can at present be produced. The power shearing plants are in most satisfactory operation at stations, and a score of these plants are called for where one can this year be furnished. Within three years three-fourths of the big range flocks will be shorn by machinery, dipped and the wool shipped from great central shearing stations. Speed the day!

Pale as Death

Mrs. Cordelia Moore, of Malone, N.Y., until recently, has been living invalid from palpitation of the heart and weakness of the blood.

Physicians were puzzled over her case. Special medical efforts were made. Various remedies were tried without avail. The powerful "change of climate" was advised, but the constant change of scene opened her mind, and, in her mother's words, "soon became a dying ghost." Mrs. Moore said: "Upon advice of a friend I began taking Dr. Williams' Pills for Pain People. From the first time I took them I noticed a great change. I began to regain my appetite and felt better generally. After helping the first few days I began to feel stronger and gained in flesh. I never felt better in my life than I do now. I weigh more than ever before and I consider myself cured."

Dr. Williams' Pills for Pain People are never sold by the dozen or hundred, but always in packages. Price, 50 cents per bottle. Order from Dr. Williams' Medicine Store, Schenectady, N.Y. 50 cents per bottle. 6 boxes \$2.50.

NEW WEATHER INSTRUMENT

The Weatherograph Shows Observations of Cloud Movements.

A step in advance in the science of meteorology has been made at the Auditorium tower, in Chicago. A new instrument, by means of which an entirely new precision in study of cloud forms and movements is possible, has been placed. The new piece of apparatus is called the meteoscope.

This little device, according to the Chicago Chronicle, enables exact observation of cloud movements, and it is hoped that after some time the weather men will be able to foretell from the action and conformation of the clouds swimming in the bright sky the weather that is to come. They think it not unlikely that long series of observations in many places in all weathers will give data that will connect certain cloud forms with coming thunderstorms or cold waves or drenching rains or cyclones. Again, it is expected that after long observation the velocity of the clouds may enable the forecasters to predict the winds to come.

However, all this is in the future. For the present the weather men can do no more than take observations with the meteoscope day and night and Sundays and send the carefully marked charts to Washington, where mathematicians will compare states of the barometer with the cloud shapes and speeds. It has been found already that there is connection between the cloud conformations and velocities within single thermal zones.

The meteoscope is simple. A circular mirror with black instead of silver background is fixed in a frame so that it can be accurately leveled. Rising upright from one edge of the black mirror is a steel wire that has a cross arm, also of wire. The two look like a ship's mast with a yard across it. From the tip of the mast, to make the resemblance more complete, runs a thread of rigging that extends to the center of the black mirror and there vanishes through a hole.

The instrument is used by getting a sight of the cloud in the black mirror. Then the masthead who is moved until the eye sights over its tip and just catches the edge of the cloud's reflection at the center of the mirror. The tiny thread is pulled taut from masthead to center and its angle from the plane of the mirror measured with a scale. Next a calculation is made and the angle of the cloud's altitude is secured. From this can be deduced the cloud's height from the ground. This done, the measurement of its size is simple, the observer having a scale cut into the polished face of the mirror. The velocity is measured on the same scale, which is on a diameter of the circle, by moving the scale into the line of the cloud's movement.

LIKE A TINY BATTLESHIP.

Lighthouse Tender Built on the Massachusetts Model.

P. H. Studer, a boat builder in Detroit, has just completed the hull of a most extraordinary gasoline launch for the United States government. Though only 20 feet in length over all, it is constructed in exact imitation of one of Uncle Sam's up-to-date men-of-war.

The boat is designed for use by United States lighthouse officials at the "Soo." It was the unique idea of Lieutenant G. C. Churchill of the "Soo" hydrographic office, under whose direction the launch was built, that she should be given the lines of a battleship, says the Detroit Journal. He prepared the plans and made the model, a counterpart of the Massachusetts. Now she is ready for the water—rain and all. She will be placed on a flat car and transported by rail to the "Soo," to be used in patrolling the St. Mary's river and in tending buoys.

The boat's molded depth is 4½ feet and her beam 6½ feet. She will draw 3 feet of water. At the "Soo" she will be fitted with a 12 horsepower superior gasoline engine, which is being built by the Lake Shore Iron Works of Marquette. She will have a propeller wheel 24 inches in diameter. Her speed, it is expected, will be about 11 miles an hour. The total cost will be \$1,900.

REMARKABLE DISCOVERY.

Arrow Point Found in an Oil Well 3,000 Feet Below the Surface.

One of the most remarkable archaeological discoveries made recently was that of an arrow point found at Chatfield, in Licking county, O., near Zanesville, in May of this year, at the depth of 1,562 feet. It is well formed, chipped on both sides and has all the marks of an arrow point of the neolithic period.

An oil well was drilled in at this point by the Clay City Gas and Oil company. The logbook of this well, according to the Cincinnati Enquirer, shows that it passed through 186 feet of sand and gravel, when it struck a 12 foot layer of shale and coal. After passing through this there was 200 feet more of sand. At the depth of 580 feet the drill struck the Berea grit and shale at a depth of 800 feet. This was passed to that depth, the casing resting on the shale.

At the depth of 1,490 feet they struck the devonian rock, and the devonian oil sand at a depth of 1,520 feet, passing through it into the devonian rock again at a depth of 1,562 feet. The well was drilled to a depth of 1,798 feet, when they determined to shoot it, which they did at the depth of 1,562 feet. It was then that the arrow point was found.

Motor Omnibus in the Tyrol.
There will soon be a daily motor omnibus service from Meran, in the Tyrol, to Trafoi and back, from Handorf to Trafoi and back, and from Meran to Handorf and back. On the first line a ten-horse-power car for 15 persons will be used, and on the second a motor of equal power, the car seating 12 persons and with standing room for six. The third car is to take the mail and ten passengers and will run at higher speed.

CHANGING METHODS.

Old Ideas in Dressing Give Way to New.

We all acknowledge that the butter which first made our famous was made from set milk, says The Creamery Journal. We all know that not until delivered twice a day, as it was at that time, can be made to produce cream which will make butter of excellent quality. But there is no need to recall that fact except as a matter of history, for everybody knows that no creamery can exist now which should attempt to follow that practice. The separator is an economical necessity.

Acknowledging this, as all do, whether old butter makers or recent graduates, the question arises, Should the cream secured by the separator be like that secured by deep setting, or should it be richer in butter fat?

Right here is where the two schools of the prophets build their trucula. On one side stand advocates of, say, 20 per cent fat in the cream and on the other side anything less than 10 per cent is a fighting matter. The advocates of rich cream say that low churning temperature is needed to secure good body and low churning temperature is impossible unless the cream is rich in butter fat.

They also believe that low temperature favors fine flavor, as a poor body is accompanied with poor flavor. On the other hand, the champion of 20 per cent cream says that flavor does not come from butter fat, but from the milk in the cream, and that 20 per cent cream does not contain enough milk to propagate the best flavor.

Debility — "I was weak, run down and nervous. Severe pains in kidneys, with heart trouble. Hood's Sarsaparilla made me strong and new. It is an honest medicine." CHARLES HENDERSON, 3144 W. Main Street, Amsterdam, New York.

Dyspepsia — "I suffered everything but death for years with dyspepsia. Nothing relieved me until I took Hood's Sarsaparilla and it made and kept me well. Can eat anything I wish." MRS. ERICKSON McINTYRE, Holly Hill, Danbury, Conn.

Gastritis — "We had to lie the hands of our two year old son on account of cramps in face and limbs. No medicine even helped until we took Hood's Sarsaparilla, which soon cured him." MRS. A. VAN WICKLE, 123 Montgomery Street, Paterson, N.J.

Rheumatism — "Inflammatory rheumatism causes suffering so that I could not walk. Had no appetite and medicine seemed useless. Finally used Hood's Sarsaparilla which took away all pain." MRS. STANISLAUS NURKIS, Marion, Ohio.

Nervousness — "I was weak, nervous and very delicate, staggered in attempting to walk. Hood's Sarsaparilla and Hood's Pills made me well. I feel like another person." MRS. LIZZIE SIGNER, Conduit Street, Fells, Annapolis, Md.

Hood's Sarsaparilla

Never Disappoints.

Hood's Pills cure liver fits; the non-irritating and safe cathartic to take with Hood's Sarsaparilla.

HEALTHY HOGS.

A Madison Breed Between Old and New Forms.

The most feasible plan to my mind would be to advance by going backward until we reach a conservative point between the lank, active hog of the pioneer age, which possessed a vigorous constitution and an immunity from disease unknown among the swine of today, and the present condition of his overburdened descendants. If we choose as breeders only those of sufficient bone, sound foot and legs and good muscular action and give all hogs a sufficient range, breed off all excess of grossness with just enough shoulder to give symmetry to the animal, also avoid breeding and overfeeding in close confinement, give all hogs a free grass range during the growing season and all the changes of food at our command, especially during fall, winter and spring, we will in time bring about the desired consummation. It is absolutely impossible to produce a large proportion of lean meat unless the animal has sound bone, sound feet and legs, with organs of digestion and respiration unimpaired, thus insuring constitutional vigor and muscular action. Muscle is lean meat and is developed by exercise, and the vigorous, active hog during the fattening season is taking on flesh of that streaked kind, firm and fine in texture, with equal facility that the helpless, weak legged brother toke on his bunches of flabby fat. Lack of prolificacy and the degeneracy of sows as mothers have more than kept pace with the troubles above enumerated.—H. F. Work in National Stockman.

But pioneers are already exploiting new territory beyond the limits of the trocha mentioned. If the butter flavor comes from ripened skimmed milk not from butter fat, why not add sufficient ripened skimmed milk to the granular butter after churning instead of churning the butter fat in ripened skimmed milk? This the "radical" people are doing. They hope to establish that method in general practice. They may. They may not. This is a new battlefield and fought with new weapons, but the new cartridge is charged with similar ammunition.

The ultimate results are satisfactory, the new method will fight to the front fast, for it uses rapid fire guns. No waiting for the cream to ripen. Churn it at once as soon as cooled to churning temperature, and add ripened skimmed milk from yesterday's churning. Ripen a little skimmed milk by itself instead of ripening skimmed milk in the cream. Save time, save holding the cream, save vat room, discard the old methods as outgrown garments and don the new. But don't be too precipitate. Wait until the new garments are made and furnished with good buttons before burning the old, time tried garments. This much we already know: A previously prepared starter added to rich cream will insure its ripening, and therefore less milk is needed in the cream than there is in cream from deep setting. Ripening the butter after churning by the same means is an innovation and needs more confirmation by time.

Small Cheeses.

A ten pound cheese may be made of 50 quarts of milk. Twenty-five may be the evening's milk, skimmed in the morning, to which is added the whole morning's milk. The milk is set in a heater on the stove, being stirred now and then, to heat slowly to 80 degrees, when the rennet is thoroughly mixed by stirring. Half a teaspoonful of the liquid extract for this quantity of milk, or a slice of the solid rennet, as sold in the store, is enough. The milk is covered and set in a warm place until the curd breaks before the whey is passed through it. The whey is then dipped off and put in the boiler and heated to 150 degrees.

While this is doing the curd is broken by the hand, the hot whey is then poured on, and when the curd squeaks when bitten it is ready to be put into molds and pressed down firmly, and the whey is drained off. As soon as the cheese is solid enough it is taken from the mold and kept in a clean place and turned daily for a month. It should then be kept a month longer in an airy place and the mold which gathers on it scraped off once a week. A very good cheese may be made without this heating to hot whey.—Indiana Farmer.

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"Happy is He That Chastens Himself!"

Self chastening once meant that the body was to be disregarded, despised and even injured. Today it means that it is to be cared for and protected, made "beautiful, entire and clean." To do this, the messenger that visits every part of the body must be able to furnish good material to the organs under his care and supervision.

This messenger is blood, that wonderful life giver. If you want to protect yourself and want your blood to be quick and active, cleanse it of impurities. Hood's Sarsaparilla does that to perfection, and it is unfailing. Nature seems to have set this remedy apart to make the blood pure.

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T (E constantly recurring monthly suffering gives women the blues!

How hopeless the future appears, month after month

the same siege with menstrual pain!

Comparatively few women understand that excessive pain indicates ill-health, or some serious derangement of the feminine organs.

A million women have been helped by Mrs. Pinkham. Read what two of them say:

MRS. LIZZIE COLEMAN, of Wayland, N.Y., writes:

"DEAR MRS. PINKHAM—For years I suffered with painful menstruation and falling of womb. The bearing-down pains in my back and hips were dreadful. I could not stand for more than five minutes at a time when menstruation began.

But thanks to Lydia E. Pinkham's Vegetable Compound, my sufferings are now a thing of the past. I shall gladly recommend your medicines to all my friends."

MISS C. D. MORRIS, of Louisville, Square, Boston, Mass., writes:

"DEAR MRS. PINKHAM—I have been using Lydia E. Pinkham's Vegetable Compound and it has helped me wonderfully. I was troubled with headache, backache and that weak and tired feeling. I cannot say enough in praise of your medicine for it has done me so much good. I shall recommend it to all my friends who suffer."

Despondency is a disease. Nervousness and snappishness come with it. Will power won't overcome it. The feminine organs are connected by nerves with the brain and all parts of the body. These organs must be healthy or the mind is not healthy.

All low-spirited or suffering women may write to Mrs. Pinkham at Lynn, Mass., and receive her advice free of charge. Don't wait until your life is wrecked by neglect and suffering. Get advice in time.

Training Horses by Electricity.

Some 25 years ago a Yorkshire farmer conceived the idea of using electricity to reduce a vicious horse to docility, says the London Live Stock Journal. He employed an apparatus of his own invention which he had patented and gave a public exhibition of its efficacy in the queen's grounds at Sheffield. His patient was a mare addicted to kicking. She was secured to a post by a rope passed through a ring at the top and a wire from the battery held by the operator was strapped to her hind leg. She began to kick, and the electric current was applied, with the result that she kicked more violently. Another wire was then attached to her bit and the current applied, with the result that her trembling knees gave way, and she fell, perspiring and panting. She rolled on her back and in response to another application kicked spasmodically in that position. Eventually she was released and walked about seeming none the worse of her experience; none the better, too, it must be added, as she dashed out gayly when led toward home. The ingenious patenter, however, had had among his audience people who thought the method cruel, and he was banished before the Shire-field steward, who fined him £2 and costs. The evidence was so conflicting that the farmer appealed and had